

QUICKSAVINGS

QUICKTRONIC® high frequency electronic ballasts are more efficient than other ballast types. High performance QUICKTRONIC ballasts save money – year after year.

Energy Savings Guide

4-Foot Lamps (2 lamps per system)	Ballast Type	Lamps	Lamp Lumens	Ballast Factor	Initial System Lumens	Mean' System Lumens	Mean Relative Light Output	Input* (System) Watts	% System Power	System LPW	Annual Energy Cost	
OLD SYSTEM <i>Standard Magnetic with F40T12 lamps</i> Annual Energy Costs: \$38.40 per year	STD MAGNETIC	F40T12CW F34T12CW	3050 2650	0.95 0.88	5,795 4,664	4,984 4,011	100% 80%	96 82	100% 85%	60 57	\$38.40 \$32.80	SAVINGS EXAMPLE
	ES MAGNETIC	F40T12CW F34T12CW	3050 2650	0.95 0.88	5,795 4,664	4,984 4,011	100% 80%	86 72	90% 75%	67 65	\$34.40 \$28.80	
	ES MAGNETIC	F40T12D41 F34T12D41	3200 2800	0.95 0.88	6,080 4,928	5,472 4,435	110% 89%	86 72	90% 75%	71 68	\$34.40 \$28.80	
	ES MAGNETIC	F032T8/700	2800	0.95	5,320	4,788	96%	74	77%	72	\$29.60	
	QTP2x32T8/UNV ISN-SC	F032T8/800XP F030T8SS/XP F028T8SS/XP	3000 2850 2725	0.88 0.88 0.88	5,280 5,016 4,796	5,016 4,765 4,556	101% 96% 91%	59 55 52	61% 57% 54%	89 91 92	\$23.60 \$22.00 \$20.80	SAVINGS EXAMPLE
	QHE2x32T8/UNV PSX-MC	F032T8/XPS F030T8SS/XP F028T8SS/XP	3100 2850 2725	0.72 0.72 0.72	4,464 4,104 3,924	4,241 3,899 3,728	85% 78% 75%	48 45 41	50% 47% 43%	93 91 96	\$19.20 \$18.00 \$16.40	
	QHE2x32T8/UNV PSN-MC	F032T8/800XPS F030T8SS/XP F028T8SS/XP	3100 2850 2725	0.88 0.88 0.88	5,456 5,016 4,796	5,183 4,765 4,556	104% 96% 91%	57 55 51	59% 57% 53%	96 91 94	\$22.80 \$22.00 \$20.40	
	QHE2X32T8/UNV ISN-SC	F032T8/800XP F030T8SS/XP F028T8SS/XP	3000 2850 2725	0.88 0.88 0.88	5,280 5,016 4,796	5,016 4,765 4,556	101% 96% 91%	55 52 48	57% 54% 50%	96 96 100	\$22.00 \$20.80 \$19.20	
	QHE2X32T8/UNV ISL-SC	F032T8/800XP F030T8SS/XP F028T8SS/XP	3000 2850 2725	0.78 0.78 0.78	4,680 4,446 4,251	4,446 4,224 4,038	89% 85% 81%	48 45 42	50% 47% 44%	98 99 101	\$19.20 \$18.00 \$16.80	SAVINGS EXAMPLE
NEW SYSTEM QHE2x32T8/UNV ISL-SC <i>with F028T8SS lamps</i> Annual Energy Costs: \$16.80 per year	STD MAGNETIC(2)	F40T12CW F34T12CW	3050 2650	0.95 0.88	11,590 9,328	9,967 8,022	100% 80%	192 164	100% 85%	60 57	\$76.80 \$65.60	
	ES MAGNETIC(2)	F40T12CW F34T12CW	3050 2650	0.95 0.88	11,590 9,328	9,967 8,022	100% 80%	172 144	90% 75%	67 65	\$68.80 \$57.60	
	ES MAGNETIC(2)	F40T12D41 F34T12D41	3200 2800	0.95 0.88	12,160 9,856	10,944 8,870	110% 89%	172 144	90% 75%	71 68	\$68.80 \$57.60	
	ES MAGNETIC (2)	F032T8/700	2800	0.95	10,640	9,576	96%	148	77%	72	\$59.20	
	QTP4x32T8/UNV ISN-SC	F032T8/800XP F030T8SS/XP F028T8SS/XP	3000 2850 2725	0.88 0.88 0.88	10,560 10,032 9,592	10,032 9,530 9,112	101% 96% 91%	112 105 98	58% 55% 51%	94 96 98	\$44.80 \$42.00 \$39.20	
	QHE4x32T8/UNV PSX-SC	F032T8/841XPS F030T8SS/XP F028T8SS/XP	3100 2850 2725	0.71 0.71 0.71	8,804 8,094 7,739	8,364 7,689 7,352	84% 77% 74%	90 86 79	47% 45% 41%	98 94 98	\$36.00 \$34.40 \$31.60	
	QHE4x32T8/UNV PSN-SC	F032T8/800XPS F030T8SS/XP F028T8SS/XP	3100 2850 2725	0.88 0.88 0.88	10,912 10,032 9,592	10,366 9,530 9,112	104% 96% 91%	111 105 98	58% 55% 51%	98 96 98	\$44.40 \$42.00 \$39.20	
	QHE4x32T8/UNV PSH-HT	F032T8/800XP F030T8SS/XP F028T8SS/XP	3000 2850 2725	1.15 1.15 1.15	13,800 13,110 12,535	13,110 12,455 11,908	132% 125% 119%	143 132 124	74% 69% 65%	97 99 101	\$57.20 \$52.80 \$49.60	
	QHE4X32T8/UNV ISH	F032T8/800XP F030T8SS/XP F028T8SS/XP	3000 2850 2725	1.15 1.15 1.15	13,800 13,110 12,535	13,110 12,455 11,908	132% 125% 119%	144 135 127	75% 70% 66%	96 97 99	\$57.60 \$54.00 \$50.80	
	QHE4X32T8/UNV ISN-SC	F032T8/800XP F030T8SS/XP F028T8SS/XP	3000 2850 2725	0.88 0.88 0.88	10,560 10,032 9,592	10,032 9,530 9,112	101% 96% 91%	108 102 95	56% 53% 49%	98 98 101	\$43.20 \$40.80 \$38.00	
	QHE4X32T8/UNV ISL-SC	F032T8/800XP F030T8SS/XP F028T8SS/XP	3000 2850 2725	0.78 0.78 0.78	9,360 8,892 8,502	8,892 8,447 8,077	89% 85% 81%	95 89 84	49% 46% 44%	99 100 101	\$38.00 \$35.60 \$33.60	

* For UNV Models, Input Watts/System Watts shown at 120V.

† Mean Lumens @ 8000 hours

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Ballast Type	Lamps	Lamp Lumens	Ballast Factor	Initial System Lumens	Mean ² System Lumens	Mean Relative Light Output	Input* (System) Watts	% System Power	System LPW	Annual Energy Cost	CURVALUME® Lamps (2 lamps per system)	
STD MAGNETIC	FB40T12CW FB34T12CW	3000 2600	0.95 0.88	5,700 4,576	4,902 3,935	100% 80%	96 82	100% 85%	59 56	\$38.40 \$32.80	NOTE: Annual energy costs based on assumption of 4000 operating hours per year with energy cost of \$.10/kWh.	
ES MAGNETIC	FB40T12CW FB34T12CW	3000 2600	0.95 0.88	5,700 4,576	4,902 3,935	100% 80%	86 72	90% 75%	66 64	\$34.40 \$28.80		
ES MAGNETIC	FB032T8/700	2750	0.95	5,225	4,703	96%	71	74%	74	\$28.40		
QTP2x32T8/UNV ISN-SC	FB032T8/800XP FB030T8SS/XP	2900 2800	0.88 0.88	5,104 4,928	4,849 4,682	99% 96%	59 55	61% 57%	87 90	\$23.60 \$22.00		
QHE2x32T8/UNV ISN-SC	FB032T8/800XP FB030T8SS/XP	2900 2800	0.88 0.88	5,104 4,928	4,849 4,682	99% 96%	55 52	57% 54%	93 95	\$22.00 \$20.80		
QHE2x32T8/UNV PSX-MC	FB032T8/800XP FB030T8SS/XP	2900 2800	0.72 0.72	4,176 4,032	3,967 3,830	81% 78%	48 45	50% 47%	87 85	\$19.20 \$18.00		
QHE2x32T8/UNV PSN-MC	FB032T8/800XP FB030T8SS/XP	2900 2800	0.88 0.88	5,104 4,928	4,849 4,682	99% 96%	57 55	59% 57%	90 90	\$22.80 \$22.00		
QTP2x32T8/UNV PSN-TC	FB032T8/700 FB032T8/800XP FB030T8SS/XP	2750 2900 2800	0.88 0.88 0.88	4,840 5,104 4,928	4,356 4,849 4,682	89% 99% 96%	60 60 56	63% 63% 58%	81 85 88	\$24.00 \$24.00 \$22.40		
STD ELECTRONIC IS	FT40DL/800	3150	0.88	5,544	4,768	97%	70	73%	79	\$28.00		
QHE2x40DL/UNV-ISN-SC	FT40DL/800 FT40/28WSS	3150 2800	0.90 1.07	5,670 5,990	4,875 5,150	99% 105%	68 64	71% 67%	83 94	\$27.20 \$25.60		
QTP2x40TT5/120 PSN-F	FT40DL/800	3150	0.88	5,544	4,768	97%	76	79%	73	\$30.40		
QTP2x40TT5/277 PSN-F	FT40DL/800	3150	0.88	5,544	4,768	97%	73	76%	76	\$29.20		
STD ELECTRONIC RS	FT50BX/800	4000	0.97	7,760	6,596	135%	106	110%	73	\$42.40		
QTP2x54T5H0/UNV PSN	FT55DL	4800	0.95	9,120	8,482	173%	116	121%	79	\$46.40		
MAGNETIC	F96T12CW F96T12CW/ES	6100 5300	0.93 0.88	11,346 9,328	9,984 8,209	100% 82%	160 125	100% 78%	71 75	\$64.00 \$50.00	8-Foot Lamps (2 lamps per system) NOTE: Annual energy costs based on assumption of 4000 operating hours per year with energy cost of \$.10/kWh.	
MAGNETIC	F96T12D41 F96T12D41/ES	6420 5600	0.93 0.88	11,941 9,856	10,986 9,068	110% 91%	160 125	100% 78%	75 79	\$64.00 \$50.00		
MAGNETIC	F96T12CW/HO F96T12CW/HO/ES	8800 8000	0.95 0.92	16,720 14,720	13,543 11,923	136% 119%	240 210	150% 131%	70 70	\$96.00 \$84.00		
MAGNETIC	F96T12D41/HO F96T12D41/HO/ES	9050 8350	0.95 0.92	17,195 15,364	15,476 13,828	155% 138%	240 210	150% 131%	72 73	\$96.00 \$84.00		
QHE2x86T8HO/UNV-PSN-HT	F96T8HO/800 (86W)	8200	0.95	15,580	14,645	147%	182	114%	86	\$72.80		
QTP2x59T8/UNV ISN-SC	F096T8/800XP (59W) F096T8/XP/SS (54W)	6100 5700	0.88 0.88	10,736 10,032	10,307 9,631	103% 97%	112 104	70% 65%	96 96	\$44.80 \$41.60		
QHE2x59T8/UNV ISN-SC	F096T8/800XP (59W) F096T8/XP/SS (54W)	6100 5700	0.88 0.88	10,736 10,032	10,307 9,631	103% 97%	109 102	68% 64%	98 99	\$43.60 \$40.80		
eg. $\frac{\text{Input Watts} \times \text{Operating Hours per year} \times \\$\text{kWh}}{1000} = \text{Annual Energy Cost}$ $\frac{41W \times 4,000 \text{ hrs} \times \\$0.10 \text{ kWh}}{1000} = \\16.40												
* For UNV Models, Input Watts/System Watts shown at 120V. ‡ FB & FBO Types @ 7200 hrs. F96 types @ 4800 hrs. rated life. All other lamps @ 40% rated life.												

QUICKLENGTH

Lead Lengths

Description	Black length exit		White length exit		Red length (qty) exit		Blue length (qty) exit		Yellow length (qty) exit		Brown length (qty) exit		Blue/Wht length (qty) exit		Red/Wht length (qty) exit	
QHE1x32T8/UNV ISL-SC	24"	L	24"	L	36"x1	L	28"x1	R								
QHE2x32T8/UNV ISL-SC	24"	L	24"	L	36"x1	L	28"x2	R								
QHE3x32T8/UNV ISL-SC	24"	L	24"	L	36"x1	L	28"x3	R								
QHE4x32T8/UNV ISL-SC	24"	L	24"	L	26"x2	R	26"x2	R	36"x2	L						
QHE1x32T8/UNV ISN-SC	24"	L	24"	L	36"x1	L	28"x1	R								
QHE2x32T8/UNV ISN-SC	24"	L	24"	L	36"x1	L	28"x2	R								
QHE3x32T8/UNV ISN-SC	24"	L	24"	L	36"x1	L	28"x3	R								
QHE4x32T8/UNV ISN-SC	24"	L	24"	L	26"x2	R	26"x2	R	36"x2	L						
QHE3x32T8/UNV ISH-SC	24"	L	24"	L	36"x1	L	28"x3	R								
QHE4x32T8/UNV ISH	24"	L	24"	L	26"x2	R	26"x2	R	36"x2	L						
QTP2x32T8/UNV ISL-SC	24"	L	24"	L	36"x1	L	28"x2	R								
QTP3x32T8/UNV ISL-SC	24"	L	24"	L	36"x1	L	28"x3	R								
QTP4x32T8/UNV ISL-SC	24"	L	24"	L	26"x2	R	26"x2	R	36"x2	L						
QTP1x32T8/UNV ISN-SC	24"	L	24"	L	36"x1	L	28"x1	R								
QTP2x32T8/UNV ISN-SC	24"	L	24"	L	36"x1	L	28"x2	R								
QTP3x32T8/UNV ISN-SC	24"	L	24"	L	36"x1	L	28"x3	R								
QTP4x32T8/UNV ISN-SC	24"	L	24"	L	26"x2	R	26"x2	R	36"x2	L						
QTP 2x32T8/UNV ISH-SC	24"	L	24"	L	36"x1	L	28"x2	R								
QTP 3x32T8/UNV ISH-SC	24"	L	24"	L	36"x1	L	28"x3	R								
QHE1x32T8/UNVPSX-MC	24"	L	24"	L	36"x2	L	30"x2	R								
QHE2x32T8/UNVPSX-MC	24"	L	24"	L	30"x2	R	30"x2	R	36"x2	L						
QHE3x32T8/UNVPSX-SC	24"	L	24"	L	36"x2	R	36"x2	R	42"x2	L			48"x2	R		
QHE4x32T8/UNVPSX-SC	24"	L	24"	L	36"x2	R	36"x2	R	42"x2	L			49"x2	R	48"x2	R
QHE1x32T8/UNVPSN-MC	24"	L	24"	L	36"x2	L	30"x2	R								
QHE2x32T8/UNVPSN-MC	24"	L	24"	L	30"x2	R	30"x2	R	36"x2	L						
QHE3x32T8/UNVPSN-SC	24"	L	24"	L	36"x2	R	36"x2	R	42"x2	L			48"x2	R		
QHE4x32T8/UNVPSN-SC	24"	L	24"	L	36"x2	R	36"x2	R	42"x2	L			49"x2	R	48"x2	R
QHE2x32T8/UNV PSH-HT	24"	L	24"	L	31"x2	R	31"x2	R	36"x2	L						
QHE3x32T8/UNV PSH-HT-SC	24"	L	24"	L	36"x2	R	36"x2	R	42"x2	L			48"x2	R		
QHE4x32T8/UNV PSH-HT	24"	L	24"	L	36"x2	R	36"x2	R	42"x2	L			49"x2	R	48"x2	R
QHE1x32T8/UNV ISL-SC-1	24"	L	24"	L	36"x1	L	28"x1	R								
QHE2x32T8/UNV ISL-SC-1	24"	L	24"	L	36"x1	L	28"x2	R								
QHE3x32T8/UNV ISL-SC-1	24"	L	24"	L	36"x1	L	28"x3	R								
QHE4x32T8/UNV ISL-SC-1	24"	L	24"	L	26"x2	R	26"x2	R	36"x2	L						
QHE1x32T8/UNV ISN-SC-1	24"	L	24"	L	36"x1	L	28"x1	R								
QHE2x32T8/UNV ISN-SC-1	24"	L	24"	L	36"x1	L	28"x2	R								
QHE3x32T8/UNV ISN-SC-1	24"	L	24"	L	36"x1	L	28"x3	R								
QHE4x32T8/UNV ISN-SC-1	24"	L	24"	L	26"x2	R	26"x2	R	36"x2	L						

Lead Lengths (+2"), (-1")

DISCLAIMER: This QUICKLENGTH Section of the Specification Guide is an aid for providing approximate lead lengths of our products. Specifications, can size, wire lead exits and lead lengths are subject to change at any time without prior notice. Please contact 1-800-LIGHTBULB or www.sylvania.com for additional information.

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SYLVANIA



QUICKLENGTH

Lead Lengths

	Black		White		Red		Blue		Yellow		Brown		Blue/Wht		Red/Wht	
Description	length	exit	length	exit	length	exit	length	exit	length	exit	length	exit	length	exit	length	exit
QUICKSTEP (BI-LEVEL)																
QHES2x32T8/UNV PSL-SC	24"	(x2) L	24"	L	30"x2	R	30"x2	R	36"x2	L						
QHES2x32T8/UNV PSN-SC	24"	(x2) L	24"	L	30"x2	R	30"x2	R	36"x2	L						
2x59																
QHE2x59T8/UNV ISL-SC	24"	L	24"	L	70"x1	L	46"x2	R								
QHE2x59T8/UNV ISN-SC	24"	L	24"	L	70"x1	L	46"x2	R								
QHE2x59T8/UNV ISH	24"	L	24"	L	70"x1	L	46"x2	R								
QTP2x59T8/UNV ISN-SC	24"	L	24"	L	70"x1	L	46"x2	R								
T8H0																
QHE2x86T8H0/UNV-PSN-HT	23"	L	23"	L	46"x2	R	46"x2	R	70"x2	L						
	Black		White		Red		Blue		Yellow		Brown		Blue/Wht		Green	
Description	length	exit	length	exit	length	exit	length	exit	length	exit	length	exit	length	exit	length	exit
347V																
QHE1x32T8/347 ISL-SC	24"	L	24"	L	36"x1	L	28"x1	R								
QHE2x32T8/347 ISL-SC	24"	L	24"	L	36"x1	L	28"x2	R								
QHE3x32T8/347 ISL-SC	24"	L	24"	L	36"x1	L	28"x3	R								
QHE4x32T8/347 ISL-SC	24"	L	24"	L	26"x2	R	26"x2	R	36"x2	L						
QHE1x32T8/347 ISN-SC	24"	L	24"	L	36"x1	L	28"x1	R								
QHE2x32T8/347 ISN-SC	24"	L	24"	L	36"x1	L	28"x2	R								
QHE3x32T8/347 ISN-SC	24"	L	24"	L	36"x1	L	28"x3	R								
QHE4x32T8/347 ISN-SC	24"	L	24"	L	26"x2	R	26"x2	R	36"x2	L						
QTP2x32T8/347 ISN-SC	24"	L	24"	L	36"x1	L	28"x2	R								
QTP3x32T8/347 ISN-SC	24"	L	24"	L	36"x1	L	28"x3	R								
QTP4x32T8/347 ISN-SC	24"	L	24"	L	26"x2	R	26"x2	R	36"x2	L						
QT2x32T8/347 ISH-SC	24"	L	24"	L	36"x1	L	28"x2	R								
QT2x59/347 IS	24"	L	24"	L	48"x1	L	56"x2	R							14"x1	L
T8 RESIDENTIAL																
QTR2x32T8/120ISN-SC	24"	L	24"	L	45"x1	R	30"x2	R								
QTR4x32T8/120ISN-SC	24"	L	24"	L	30"x2	R	30"x2	R	45"x2	R						

Lead Lengths (+2"), (-1")

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QUICKLENGTH

Lead Lengths

Description	Black		White		Red		Blue		Yellow		Ylw/Blk		Blu/Wht		Blu/Blk		Red/Blk		Red/Wht		Violet		Gray	
	length	exit	length	exit	length	exit	length	exit	length	exit	length	exit	length	exit	length	exit	length	exit	length	exit	length	exit	length	exit
POWERSENSE																								
QHE1x32T8/ UNV DIM-TC	24"	L	24"	L	36"x2	R	36"x2	R													36" x1	L	36"x1	L
QHE2x32T8/ UNV DIM-TC	24"	L	24"	L	36"x2	R	36"x2	R	42"x2	R	42"x1	R									36"x1	L	36"x1	L
QHE3x32T8/ UNV DIM-TCL	24"	L	24"	L	52"x2	R	29"x2	R	52"x2	R	52"x1	R					29"x1	R	29"x2	R	36"x1	L	36"x1	L
QHE4x32T8/ UNV DIM-TCL	24"	L	24"	L	27"x2	R	27"x2	R	27"x2	R	27"x1	R	54"x2	R	54"x1	R	70"x1	R	70"x2	R	36"x1	L	36"x1	L

Description	Black length exit		White length exit		Red length (qty) exit		Blue length (qty) exit		Yellow length (qty) exit		Brown length (qty) exit		Blue/Wht length (qty) exit		Red/Wht length (qty) exit	
QTP1x40TT5/277 PSN-F	24"	L	24"	L	36"x2	R	36"x2	R								
QTP2x40TT5/120 PSN-F	24"	L	24"	L	36"x2	R	36"x2	R	42"x2	R						
QTP2x40TT5/277 PSN-F	24"	L	24"	L	36"x2	R	36"x2	R	42"x2	R						
QTP3x40TT5/120 PSN-B	24"	L	24"	L	36"x2	R	36"x2	R	42"x2	R					36"x2	R
QTP3x40TT5/277 PSN-B	24"	L	24"	L	36"x2	R	36"x2	R	42"x2	R					36"x2	R

Description	Black length exit		White length exit		Red length (qty) exit		Blue length (qty) exit		Yellow length (qty) exit		Ylw/Blk length (qty) exit		Brown length (qty) exit		Orange length (qty) exit		Blu/Wht length (qty) exit		Red/Blk length (qty) exit		Violet length (qty) exit		Gray length (qty) exit	
QHE1x40DL/UNV ISN-SC	24"	L	24"	L	36"x1	L	27"x1	R																
QHE2x40DL/UNV ISN-SC	24"	L	24"	L	36"x1	L	27"x2	R																
QHE3x40DL/UNV ISN-SC	24"	L	24"	L	36"x1	L	27"x3	R																
QHE2x28T5/UNV DIM-TCL	24"	L	24"	L	28"x2	R	28"x2	R	48"x2	R	48"x1	R									36" x1	L	36" x1	L
QT1x54/120PHO-DIM	24"	L	24"	L	43"x2	R	28"x2	R													24" x1	L	24" x1	L
QT1x54/277PHO-DIM	24"	L	24"	L	43"x2	R	28"x2	R													24" x1	L	24" x1	L
QT2x54/120PHO-DIM	24"	L	24"	L	28"x2	R	28"x2	R	43"x2	R	43"x1	R									24" x1	L	24" x1	L
QT2x54/277PHO-DIM	24"	L	24"	L	28"x2	R	28"x2	R	43"x2	R	43"x1	R									24" x1	L	24" x1	L
QTP1x28T5/UNV PSN	24"	L	24"	L	42"x2	R	28"x2	R																
QTP2x54T5H0/UNV PS80-SC	31"	L	31"	L	28"x2	R	28"x2	R	43" x2	L														
QS2x54T5H0/UNV PS80-SC	31"x2	L	31"	L	28"x2	R	28"x2	R	43" x2	L														
QTP1x54T5H0/UNV PSN*	24"	L	24"	L	42"x2	R	28"x2	R																
QTP2x54T5H0/UNV PSN	31"	L	31"	L	28"x2	R	28"x2	R	48"x2	R														
QTP1x80T5H0/UNV PSN	24"	L	24"	L	42"x2	R	28"x2	R																
QTP2x28T5/UNV PSN	24"	L	24"	L	35"x2	R	35"x2	R	48"x2	R														
QTP2x54T5H0/UNV PSN-HT	24"	L	24"	L	35"x2	R	35"x2	R	48"x2	R														
QTP4x54T5H0/UNV PSN-HTW	31"	L	31"	L	28"x2	R	28"x2	R	28"x2	R	28"x2	R	28"x2	R	48"x2	R	48"x2	R	31"x1	L				
QTP2x54T5H0/347-480 PSN-HT	24"	L	24"	L	35"x2	R	35"x2	R	48"x2	R														

Lead Lengths (+2"), (-1")

*QTP and QHE models where applicable

Note: eg. 30"(x2) means two 30" wires
30"(x3) means three 30" wires

L = wire(s) exit the ballast from the left side (black and white/line input side)
R = wire(s) exit the ballast from the right side

DISCLAIMER: This QUICKLENGTH Section of the Specification Guide is an aid for providing approximate lead lengths of our products. Specifications, can size, wire lead exits and lead lengths are subject to change at any time without prior notice. Please contact 1-800-LIGHTBULB or www.sylvania.com for additional information.

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Sample System Specification

QUICKSPEC

Ballast shall be a _____ fluorescent SYLVANIA QUICKTRONIC® electronic ballast with a _____ ballast factor and be covered by a lamp and ballast system warranty:

1. Ballasts for lamps of T5, T4 or T2 diameter shall contain dynamic end-of-lamp-life sensing circuitry.
2. See individual product specifications for information required to fill in this form.
3. Comments: _____

Section 16500. Electronic Ballast

- 1.0 Ballast shall operate lamps at a frequency above 42 kHz (or > _____ kHz) and lamps shall have no detectable flicker.
- 1.1 Ballast shall operate from 60 or 50 Hz input source of +/- 10% nominal ballast line voltage.
- 1.2 Ballast line voltage _____ 120V, _____ 277V, _____ UNV (120-277V), _____ 347V, _____ Other.
- 1.3 Ballast shall have input power factor above _____ >97% (_____ >98% for Professional & QHE Series).
- 1.4 Ballast shall have Total Harmonic Distortion of _____ <20% (_____ <10% for Professional & QHE Series).
- 1.5 Ballast shall provide lamp starting conditions and operating parameters consistent with lamp manufacturers recommendations.
- 1.6 Ballast shall be _____ instant start, _____ rapid start, _____ programmed rapid start or dimming models.
- 1.7 Instant start models shall operate lamps in parallel, such that if one lamp fails, others will remain lit. Some rapid start and programmed start models operate lamps in series (see specs for details). New PROStart® T8 QHE PSX, PSN and PSN-HT models operate lamps in parallel.
- 1.8 Ballasts shall provide a minimum start temp of: _____ °F for instant start models, _____ °F for programmed rapid start models, _____ °F for other models, 60°F for Energy Saving T8 lamps. (Starting temperatures may vary depending on ballast/lamp types and applications, see actual specifications for details).
- 1.9 Ballast shall have remote/tandem wiring capability of up to _____ feet maximum depending on installation conditions (see model specifications for remote mounting lengths).
- 1.10 Ballasts for lamp types of T5, T4 and T2 diameter shall have dynamic end-of-lamp-life sensing helping protect against overheated bases and sockets.
- 1.11 Ballast shall have a maximum enclosure temperature rating of 70°C or _____ °C for other models (see model specifications for maximum case temp.).
- 1.12 Ballast shall have internal electrical protection to prevent catastrophic failure.

Section I Performance Requirements

- 2.0 The electronic ballast shall be Underwriters Laboratories (UL) listed, Class P, Type 1. CSA or CUL certified (where applicable).
- 2.1 Ballast shall meet FCC standard for EMI/RFI (FCC 47CFR Part 18 Non-consumer), ensuring suitability for both commercial and industrial installations.
- 2.2 Ballast shall comply with applicable ANSI/IEEE standards/guides for harmonic distortion and line voltage transient protection.
- 2.3 Ballast shall have audible noise rating of Class A or Class _____ (see model specifications).
- 2.4 Leaded and connector style ballasts shall be color-coded to ANSI standard C82.11 (where applicable).

Section II Regulatory Requirements

- 3.0 Lamp and ballast shall be covered by the OSRAM SYLVANIA QUICK 60+® warranty. Covered ballasts shall carry up to a _____ warranty and include a nominal replacement labor allowance. Covered lamps shall carry up to a _____ warranty and will be manufactured by the same company as the ballast. (Note: no labor allowance for lamps). Refer to OSRAM SYLVANIA warranty for additional details to fill in blanks.
- 3.1 Ballast size and mounting configuration shall be compatible with existing electromagnetic ballast for same application (see individual product specifications for case dimensions and mounting).
- 3.2 Ballast shall not contain PCBs (Polychlorinated Biphenyls).

Section III Other

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 the system solution®

QUICKSPEC

General Information

GENERAL INFORMATION

Ballast Types: There are three types of lighting ballasts.

- 1) Magnetic: an inefficient device that uses a core and coil assembly transformer to perform the minimum functions required to start and operate the lamp.
- 2) Hybrid or "low frequency electronic": essentially a magnetic ballast with a few electronic components that switch off voltage to the lamp coil once the lamp has started. A minimal increase in efficiency is obtained via more expensive magnetic core material and the absence of power to the lamp coils during operation.
- 3) High frequency electronic: a ballast that operates lamps at frequencies above 20,000 Hz. Maximum efficiency is obtained through the use of electronic circuitry and optimum lamp operating characteristics.

Ballast Basics: Ballasts have two primary functions:

- 1) start the lamp and
 - 2) control operation of the lamp once it has started.
- High frequency electronic ballasts operate lamps more efficiently (30-40% at equivalent light output) and eliminate the hum and visible flicker normally associated with standard magnetic ballasts. Electronic ballasts also typically have better power quality than magnetic ballasts (higher power factor and lower THD).

Where's the Watts?: OSRAM SYLVANIA's two-lamp FO32T8 electronic instant start QTP ballast has an input of 59 watts. This figure is comprised of lamp wattage plus ballast losses (the power that is dissipated as heat instead of being converted to light). Each FO32T8 lamp is rated for 100% light output at 32 watts low frequency rapid start, but only 28 watts when operated on high frequency electronic instant start ballasts (due to the fact that lamps operate more efficiently at high frequency). Therefore, each of the two lamps operates at 28×0.88 ballast factor = 26 watts per lamp. The other seven watts in this system are the ballast losses.

"Squiggle": The "sine wave" graphic logo of Electronics & Controls division of OSRAM SYLVANIA. Signifies the transition from old technology to the high frequency, high efficiency electronic systems of the future.

American National Standards Institute (ANSI): An organization that develops voluntary product performance standards for several industries. ANSI C82.11 applies to electronic ballasts.

Performance Certification: The OSRAM SYLVANIA Test and Measurement Laboratory holds accreditation for testing of Energy Efficient Lighting Products under the National Voluntary Laboratory Accreditation Program (NVLAP). This is the same organization that certifies other various test facilities and programs such as ETL,

CBM, etc. This assures that our measurements meet strict guidelines for precision and accuracy.

Quality Assurance: All OSRAM SYLVANIA production facilities are ISO 9002 certified, and all production is subject to incremental quality control, assuring the highest quality and reliability. Customer feedback and field reliability data have shown exceptional performance of OSRAM SYLVANIA electronic ballasts.

MTBF — Mean Time Between Failures: A calculation of ballast life based on thermal conditions, component values, and circuit characteristics used to develop relative predictions of ballast life. OSRAM SYLVANIA uses a methodology that typically provides a 1:10 actual life prediction based on MTBF calculations.

Safety: Ballasts should be installed and operated in compliance with the National Electrical Code (NEC), Underwriters Laboratories Inc. (UL) requirements, and all applicable codes and regulations. As it is possible to come in contact with potentially hazardous voltages, only qualified personnel should perform ballast installation. All installation, inspection, and maintenance of lighting fixtures should be done with the power to the fixture turned off.

Grounding: The ballast case and fixture must always be grounded. The grounding helps assure safety, proper lamp starting, and acceptable EMI/RFI performance. Install ballast in accordance with national and local electrical codes.

Fusing: All OSRAM SYLVANIA QUICKTRONIC® ballasts contain inherent electrical protection. Although there is no need to externally fuse the ballast, should code or regulation require one, 3 amp slow blow fuses are recommended.

Fluorescent Lamp: An electric discharge device in which ultraviolet energy excites the lamp's phosphor coating and transforms that energy into visible light. Diameter is measured in eighths of an inch (T8 lamp equals one inch diameter).

Socket Wiring/Lamp Connections: Proper connection to good quality sockets, wired according to the diagram shown on the product label is essential. As some applications may not require the use of all the ballast output leads, unconnected leads should be capped individually and insulated to at least 600 volts.

UL Type CC compliant: Ballasts utilize a micro-controller based circuit to reduce arcing caused by loose connections or improper lamp pin to socket connections.



General Information

Ballast Operating Characteristics

BALLAST OPERATING CHARACTERISTICS

PROStart® (PS): A programmed rapid start method of starting fluorescent lamps where cathode heat is applied prior to lamp ignition, then removed or reduced once the lamp has ignited (except dimming models which optimize cathode heat). PROStart ballasts maximize the number of lamp starting cycles while maintaining energy efficiency. This is the preferred mode of lamp starting for applications with occupancy sensors and several on/off cycles per day. Additionally, the lamps have the capability to start at temperatures down to -20°F (starting temperatures may vary depending on ballast/lamp types and applications, see actual specifications for details).

Rapid Start (RS): Rapid start ballasts apply a low filament voltage to preheat the cathodes. Simultaneously, a starting voltage (lower than that used in instant start) is also applied to strike the arc. When the cathodes are hot enough, the lamp will strike. The filament voltage continues to be applied throughout the operation of the lamp. Rapid start ballasts appear to have a slight turn on delay compared to instant start. They will typically not be able to start lamps reliably under 50°F.

Instant Start (IS): Instant start ballasts apply high voltage across the lamp with no preheating of the cathode. This is the most energy efficient starting method for fluorescent lamp ballasting. IS ballasts use 1.5 to 2 watts less per lamp than rapid start ballast. Other IS ballast benefits typically include parallel lamp circuitry, longer remote wiring distance, easier installation due to less complicated wiring, and the lamps have the capability to start at temperatures down to -20°F (starting temperatures may vary depending on ballast/lamp types and applications, see actual specifications for details) (versus 50°F for rapid start).

Instant Start (IS) vs. Rapid Start (RS): Instant start (high voltage is applied across the lamp with no preheating of the cathode) is the most energy efficient starting method for fluorescent lamp ballasting. IS ballasts use 1.5 to 2 watts less per lamp than rapid start ballasts (low voltage is applied to the cathodes prior to lamp ignition and is maintained throughout operation). Other IS ballast benefits typically include parallel lamp circuitry, longer remote wiring distance, easier installation due to less complicated wiring, and capability to start lamps at temperatures down to -20°F (starting temperatures may vary depending on ballast/lamp types and applications, see actual specifications for details) (versus 50°F for rapid start).

Glow to Arc Transition: In order to achieve full rated lamp life, a ballast should start a lamp so that the time from when the lamp begins to glow to the time the lamp arc strikes should be short as possible. OSRAM SYLVANIA instant start ballasts typically accomplish this task within 50 msec.

Parallel vs. Series: Wiring configurations for ballasts. Ballasts with parallel lamp circuitry have the benefit of companion lamps remaining lit, even if one of the lamps operated by the ballast should fail. Systems with series lamp wiring (magnetic ballasts and many rapid start and programmed rapid start electronic types) result in all lamps operated on the ballast going out if one should fail.

Lamp Current Crest Factor (LCCF): The ratio of peak lamp current to the RMS (average) lamp current. Lamp manufacturers require a LCCF of less than 1.70 in order to achieve full lamp life. Values less than 1.70 do not achieve higher than rated lamp life.

Lamp Flicker: High frequency electronic ballasts provide a minimal level of lamp flicker. Lamp flicker from magnetic ballasts can cause eye fatigue for some people.

Lamp Striation Control (LSC): T8 energy saving lamps should be operated above 60°F, but under certain conditions the lamps may striate. LSC circuitry may minimize or eliminate this condition; however there are limited applications where LSC circuitry may not entirely mitigate lamp striations. (Please consult lamp manufacturers for additional details.)

Power Factor: A measure of the effectiveness with which an electrical device converts volt-amperes to watts; devices with power factors (>0.90) are "high power factor" devices.

Total Harmonic Distortion (THD): A measure of the distortion of an electrical wave form. Excessive THD (defined by ANSI as greater than 32%) may cause adverse effects to the electrical system. <20% THD ballasts are fine for most applications. However, in buildings with neutral problems caused by high THD loads such as computers, printers, DC supplies, etc., the <10% THD products can help reduce the overall % of Total Harmonic Distortion.

K-Factor: A measurement that quantifies the effect of non-linear equipment, such as lighting ballasts, on an electrical system. Lighting systems should be designed so that the transformer rating is sufficient for the ballasts used (typically K-Factor <4). All OSRAM SYLVANIA ballasts meet this specification.

EMI/RFI: Electronic Ballasts contain circuits that limit electrical noise conducted onto the power line or radiated through the air, otherwise referred to as EMI/RFI. OSRAM SYLVANIA ballasts comply with FCC 47 CFR Part 18, non-consumer limits for commercial applications. Ballasts for residential applications must meet consumer limits. OSRAM SYLVANIA has magnetic ballasts and new QTR electronic ballasts for residential use.

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Ballast Operating Characteristics

Transient Protection: OSRAM SYLVANIA ballasts meet ANSI 62.41 Category A. This helps ensure immunity to electrical disturbances such as power line transients, and temporary line voltage dropouts, surges and sags.

Ballast Losses: Power consumed by a ballast that dissipates as heat instead of being converted into light. Electronic ballasts operate more efficiently than magnetic or hybrid ballasts. A typical ballast loss for a standard two lamp magnetic ballast is 20 watts, while an electronic equivalent would be only 7 watts.

Ballast Factor (BF): Relative light output as compared to a reference ballast (i.e. BF of 0.90 would yield 90% of a lamp's rated lumens). OSRAM SYLVANIA offers T8 systems in three ranges of light output: Normal: (0.85-1.0) BF; Low Power (LP): (0.74-0.80) BF; and High Light Output (PLUS): (1.15-1.20) BF.

Ballast Efficacy Factor (BEF): Relative light output (ballast factor) divided by input power (watts). Used to measure the level of efficiency of similar ballast models. For example, the OSRAM SYLVANIA QTP2X32T8/UNV ISN which has ballast factor of 0.88 and input watts of 59 (BEF = 1.49).

System Considerations

Maximum Case Temperature: All OSRAM SYLVANIA electronic ballasts have a maximum allowable case temperature of 70°C or ____ °C. Applications in which the case temperature exceeds this maximum void all warranties.

Potting Compound: Some OSRAM SYLVANIA ballasts are encapsulated with potting compound. This ensures thermal as well as structural integrity. Ballasts without potting compound may lower maximum allowable case temperature and if not properly thermally designed may shorten ballast life.

Ballast Life: OSRAM SYLVANIA ballasts are designed to have a life expectancy of 60,000 hours. To maximize life, ambient temperature should be kept as low as possible. It is also important to maintain effective dissipation of heat using the lighting fixture as a heatsink for the ballast enclosure.

Enclosure Size: OSRAM SYLVANIA ballasts typically have mounting holes the same as the magnetic type in which it is intended to retrofit. In an effort to aid fixture designers in their ability to create more efficient fixtures, the industry trend is towards narrower and shallower enclosures.

High Voltage Integrated Circuit (HVIC): Proprietary microprocessor control that is featured in selected QUICKTRONIC® ballasts. Replaces over one-third of the components used in conventional ballasts while providing enhanced features such as higher efficiency, improved lamp starting, end-of-lamp-life sensing, circuitry to limit in-rush current, and constant light output over a wide range of input voltages.

Audible Noise (Sound): All fluorescent lamp ballasts produce some noise. OSRAM SYLVANIA brand ballasts are sound rated A (up to 75% quieter than magnetic types) and are acceptable for most applications. Care should be taken when mounting the ballast to reduce vibration.

Polychlorinated Biphenyls (PCBs): This material, formerly used in ballast capacitors, is now considered hazardous and disposal is regulated. A ballast should be assumed to contain PCBs unless stated otherwise on the ballast label (contact manufacturer for confirmation). OSRAM SYLVANIA ballasts do not contain PCBs.

SYSTEM CONSIDERATIONS

SYSTEM SOLUTION: Optimum choice when planning the lighting system for a lighting retrofit or new construction. In the case of OSRAM SYLVANIA, the same manufacturer supplies both lamp and ballast, assuring combinations that have been specifically designed to provide optimal system performance. OSRAM SYLVANIA is the only company in the world that makes its own ballasts and lamps, and has its own lighting services division.

QUICKSENSE®: Patented technology that utilizes "dynamic power sensing" to detect end-of-life for lamps of T5 and less diameter. Dynamic sensing minimizes incidence of false shutdowns and ensures maximum system safety even in low and high line input voltage conditions. If gone unchecked, the heat generated by small diameter lamps at end-of-lamp-life can melt lamp sockets and cause the lamp glass wall to crack and break.

QUICK 60+®: The first and most comprehensive system warranty in the industry. QUICK 60+ offers the end user coverage for both lamp and ballast. This eliminates the common occurrence of "finger pointing" between lamp and ballast manufacturers over whose product failed and which party is responsible. One phone call by the end user to OSRAM SYLVANIA provides problem resolution and customer satisfaction.



Reference Guide

QUICKANSWERS

System Considerations

FIXTURESIDE ASSISTANCE®: There are three options for the end user to choose from to service the QUICK 60+® system warranty. OSRAM SYLVANIA is the first lighting company to offer “FIXTURESIDE ASSISTANCE”, an option where OSRAM SYLVANIA will send a service technician to the installation and perform the necessary replacements. Other options include coordinating a contractor of the end user's choice to perform the required service, or reimbursing the end user for labor incurred during service. (Note: no labor allowance for lamps – see QUICK 60+ warranty bulletin for details).

Light Level: Light output from a system is a function of rated lamp lumens, ballast factor, fixture efficiency, and ambient temperature. All of these factors must be considered when designing or retrofitting a lighting system.

Fixture Watts: The input wattage shown in the ballast specifications is measured as per ANSI specification (ballast and lamps are measured while placed on benchtop at room temperature). Actual operation in an enclosed fixture, due to the ambient heating of the lamps, is approximately 1.5 watts less per lamp than the ANSI input wattage specification.

SYSTEM LP/ISL: Designed to operate OCTRON® T8 lamps at lower power levels, when reduced light output is acceptable. SYSTEM 32 LP is ideally suited to retrofit 34W T12 magnetic ballast systems because it provides equivalent light output at energy savings of 30%.

SYSTEM PLUS/ISH: For applications where maximum light output is desired (i.e. retail, manufacturing, display, etc.), PLUS systems are ideal. A ballast factor of up to 1.20 offers 30% more light output than standard T8 and T12 systems, while maintaining full rated lamp life. Applications with eight-foot lamps that require higher light levels can use 59PLUS and the standard F096 T8 lamp, simplifying inventory and minimizing cost. All PLUS systems operate standard OCTRON T8 lamps, achieve full rated lamp life, and are covered by the QUICK 60+ comprehensive system warranty.

Connectors: QUICKTRONIC ballasts with push-in/poke-in/wire trap connectors require use of 18 AWG solid copper wire only.

Infrared Interference: Some infrared controls may be susceptible to interaction with fluorescent systems. This is due to infrared energy from the lamps. Either increasing the distance between the fluorescent lamp and the infrared receiver, or shielding the infrared receiver from the lamp, can alleviate this interaction.

Powerline Carriers: Schools, institutions and some industrial installations utilize powerline carrier control systems (to control time clocks, alarms, etc.) on the same circuit panel as the lighting system. Some electronic ballasts are incompatible with these

powerline carriers and inhibit their performance (the electronic circuitry blocks or alters the carrier signal characteristics). Many of these systems have been re-designed to mitigate interaction with electronic ballasts. Contact manufacturer for details.

Low Temperature Starting: SYLVANIA QUICKTRONIC® QTP & QHE instant start and programmed start electronic ballasts have the capability to start fluorescent lamps at temperatures down to -20°F as well as 0°F for F40T8 & F96T8 lamps providing the following conditions are met:

1. The ballast is operated at rated nominal line voltage. The ballast case and fixture must always be grounded. The grounding helps assure safety, proper lamp starting. Install ballast in accordance with national and local electrical codes.
2. Ballast cannot be tandem/remote wired for low temperature starting applications.

Please note, starting time may increase at low ambient temperatures. Enclosed fixtures are recommended as fluorescent lamps have reduced light output at cooler ambient temperatures. (See specifications for each model's starting temperature rating.) SUPERSAVER® lamps start/operate >60°F.

Lamp Seasoning: Low Temperature and dimming applications – For optimal performance, fluorescent lamps may require seasoning for up to 12 hours prior to low temperature starting & low level dimming. Please consult the lamp manufacturer to obtain specific requirements for low temperature or dimming applications. Refer to NEMA LSD 23-2002 Lighting Systems Division: Recommended Practice — Lamp Seasoning for Fluorescent Dimming Systems.

In-Rush Current: When a lighting system is energized, a momentary surge of current occurs called “in-rush”. This current must be limited so that it does not harm auxiliary lighting controls. Most electronic ballasts rated at <20% THD contain a passive front end inductor that typically results in lower levels of in-rush. Ballasts that have <10% THD typically use active power factor correction and, unless limiting circuitry is included, can have 40 amps or more of in-rush current. This may damage mechanical switches and contacts. In-rush current should be considered when designing or retrofitting a lighting system. Zero crossing controls eliminate field issues due to higher inrush current on <10% THD products. Be sure ballast meet NEMA 410 Standard for in-rush current. Also refer to ANSI C82.11.

Remote Wiring Capability: QUICKTRONIC T8 instant start systems can be mounted remotely from the lamp sockets at a distance up to 20 feet. (See ballast specifications for each model.)

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DISCONTINUED

Nearest Equivalent SYLVANIA Replacement

Electronic Ballasts

DISCONTINUED BALLASTS			NEAREST REPLACEMENT UNIVERSAL VOLTAGE BALLASTS	
	Item Number	OSRAM SYLVANIA Description	Item Number	OSRAM SYLVANIA Description
T8, 1-Lamp, Instant Start				
ISL	49931	QT1X32T8/120 ISL-SC	49837 <i>Banded Pack</i> 49861 <i>10-Pack</i>	QHE1x32T8/UNV ISL-SC
	49932	QT1X32T8/277 ISL-SC		
	49701	QTP1x32T8/UNV ISL-SC-SR NK		
	49832 <i>Banded Pack</i>	QTP1x32T8/UNV ISL-SC		
	49741 <i>10-Pack</i>	QTP1x32T8/UNV ISL-SC		
ISN	49911	QT1X32T8/120 ISN-SC	49905 <i>Banded Pack</i> 49941 <i>10-Pack</i>	QTP1x32T8/UNV ISN-SC
	49912	QT1X32T8/277 ISN-SC		
	49811	QT1X32T8/120 ISN-SC SRNK		
	49812	QT1X32T8/277 ISN-SC SRNK		
	49901	QTP1x32T8/UNV ISN-SC SRNK		
ISH	49829 <i>Banded Pack</i>	QTP1x32T8/UNV ISH-SC	49919 <i>Banded Pack</i> 49496	QHE1x32T8UNV/ ISH-SC QHE1x32T8/UNV ISH-HT-SC
	49841 <i>10-Pack</i>	QTP1x32T8/UNV ISH-SC		
	49842 <i>Pallet Pack</i>	QTP1x32T8/UNV ISH-SC		
	49871 <i>10-Pack</i>	QHE1x32T8UNV ISH-SC		
	49919 <i>Banded Pack</i>	QHE1x32T8/UNV ISH-SC		
T8, 2-Lamp, Instant Start				
ISL	49933	QT2X32T8/120 ISL-SC	49743 <i>10-Pack</i>	QTP2x32T8/UNV ISL-SC
	49934	QT2X32T8/277 ISL-SC		
	49803	QT2X32T8/120 ISL-SC SRNK		
	49804	QT2X32T8/277 ISL-SC SRNK		
	49702	QTP2x32T8/UNV ISL-SC-SR NK		
	49834 <i>Banded Pack</i>	QTP2x32T8/UNV ISL-SC		
ISN	49913	QT2X32T8/120 ISN-SC	49906 <i>Banded Pack</i> 49943 <i>10-Pack</i> 49944 <i>Pallet Pack</i>	QTP2x32T8/UNV ISN-SC QTP2x32T8/UNV ISN-SC
	49914	QT2X32T8/277 ISN-SC		
	49813	QT2X32T8/120 ISN-SC SRNK		
	49814	QT2X32T8/277 ISN-SC SRNK		
	49902	QTP2x32T8/UNV ISN-SC SRNK		
	49954	QT2X32T8/277 ISN-SC PAL		
ISH	49923	QT2X32T8/120 ISH-SC	49843 <i>10-Pack</i> 49498	QTP2x32T8/UNV ISH-SC QHE2x32T8/UNV ISH-HT-SC
	49924	QT2X32T8/277 ISH-SC		
	49830 <i>Banded Pack</i>	QTP2x32T8/UNV ISH-SC		
	49920 <i>Banded Pack</i>	QHE2x32T8/UNV ISH-SC		
	T8, 3-Lamp, Instant Start			
ISL	49935	QT3X32T8/120 ISL-SC	49745 <i>10-Pack</i>	QTP3x32T8/UNV-ISL-SC
	49936	QT3X32T8/277 ISL-SC		
	49805	QT3X32T8/120 ISL-SC SRNK		
	49806	QT3X32T8/277 ISL-SC SRNK		
	49703	QTP3x32T8/UNV ISL-SC-SR NK		
	49835 <i>Banded Pack</i>	QTP3x32T8/UNV ISL-SC		
ISN	49915	QT3X32T8/120 ISN-SC	49907 <i>Banded Pack</i> 49945 <i>10-Pack</i>	QTP3x32T8/UNV ISN-SC
	49916	QT3X32T8/277 ISN-SC		
	49815	QT3X32T8/120 ISN-SC SRNK		
	49816	QT3X32T8/277 ISN-SC SRNK		
	49903	QTP3x32T8/UNV ISN-SC SRNK		
ISH CC HT	49525	QT3x32/120 PLUS	49845 <i>10-Pack</i> 49500 <i>Banded Pack*</i>	QTP3x32T8/UNV ISH-SC QHE3x32T8/UNV ISH-HT-SC
	49526	QT3x32/277 PLUS		
	49831 <i>Banded Pack</i>	QTP3x32T8/UNV ISH-SC		
ISH CC HT	49785 <i>Banded Pack</i>	QHE3x32T8/UNV ISH-HT-SC-1		

* Please note, this replacement ballast is not Type CC

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DISCONTINUED

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Electronic Ballasts

Nearest Equivalent SYLVANIA Replacement

DISCONTINUED BALLASTS			NEAREST REPLACEMENT UNIVERSAL VOLTAGE BALLASTS	
	Item Number	OSRAM SYLVANIA Description	Item Number	OSRAM SYLVANIA Description
T8, 4-Lamp, Instant Start				
ISL	49537	QT4X32/120 LP	49747 <i>10-Pack</i>	QTP4x32T8/UNV ISL-SC
	49538	QT4X32/277 LP		
	49307	QT4X32/120 LP SRNK		
	49308	QT4X32/277 LP SRNK		
	49704	QTP4x32T8/UNV ISL-SC-SRNK		
	49836 <i>Banded Pack</i>	QTP4x32T8/UNV ISL-SC		
ISN	49917	QT4X32T8/120 ISN-SC	49908 <i>Banded Pack</i> 49947 <i>10-Pack</i>	QTP4x32T8/UNV ISN-SC
	49918	QT4X32T8/277 ISN-SC		
	49517	QT4X32120 IS		
	49817	QT4X32T8/120 ISN-SC SRNK		
	49818	QT4X32T8/277 ISN-SC SRNK		
	49904	QTP4x32T8/UNV ISN-SC SRNK		
ISH	49521	QHE4x32T8/277 ISH	49922 <i>Banded Pack</i>	QHE4X32T8/UNV ISH
T8, 1-Lamp, Programmed Start				
PSX	51224 <i>Banded Pack</i>	QTP1x32T8/UNV PSX-TC	51423 <i>Banded 10-Pack</i>	QHE1x32T8/UNV PSX-MC
	51420 <i>10-Pack</i>	QTP1x32T8/UNV PSX-TC		
PSN	50804	QTP1X32T8/120 PSN-TC	51397 <i>Banded 10-Pack</i>	QHE1x32T8/UNV PSN-MC
	50806	QTP1X32T8/277 PSN-TC		
	51399 <i>Banded Pack</i>	QTP1x32T8/UNV PSN-TC		
	51400 <i>10-Pack</i>	QTP1x32T8/UNV PSN-TC		
	50805	QTP1X32T8/120 PSN-TC PAL		
	50807	QTP1X32T8/277 PSN-TC PAL		
	51401 <i>Pallet Pack</i>	QTP1x32T8/UNV PSN-TC	51398 <i>Pallet Pack</i>	QHE1x32T8/UNV PSN-MC
T8, 2-Lamp, Programmed Start				
PSX	51225 <i>Pallet Pack</i>	QTP2x32T8/UNV PSX-TC	51428 <i>Banded 10-Pack</i>	QHE2x32T8/UNV PSX-MC
	51425 <i>10-Pack</i>	QTP2x32T8/UNV PSX-TC		
PSN	50814	QTP2X32T8/120 PSN-SC	51408 <i>Banded 10-Pack</i>	QHE2x32T8/UNV PSN-MC
	50824	QTP2X32T8/277 PSN-SC		
	51402 <i>Pallet Pack</i>	QTP2x32T8/UNV PSN-TC		
	51405 <i>10-Pack</i>	QTP2x32T8/UNV PSN-TC		
	50815	QTP2X32T8/120 PSN-SC PAL		
	50825	QTP2X32T8/277 PSN-SC PAL		
	51406 <i>Pallet Pack</i>	QTP2x32T8/UNV PSN-TC	51409 <i>Pallet Pack</i>	QHE2x32T8/UNV PSN-MC
T8, 3-Lamp, Programmed Start				
PSX	51226 <i>Pallet Pack</i>	QTP3x32T8/UNV PSX-TC	51433 <i>Banded 10-Pack</i>	QHE3x32T8/UNV PSX-SC*
	51430 <i>10-Pack</i>	QTP3x32T8/UNV PSX-TC		
PSX	50830	QTP3X32T8/120 PSN-SC	51413 <i>Banded 10-Pack</i>	QHE3x32T8/UNV PSN-SC*
	50840	QTP3X32T8/277 PSN-SC		
	51403 <i>Banded Pack</i>	QTP3x32T8/UNV PSN-SC		
	51410 <i>10-Pack</i>	QTP3x32T8/UNV PSN-SC		
	50832	QTP3X32T8/120 PSN-SC PAL	51414 <i>Pallet Pack</i>	QHE3x32T8/UNV PSN-SC*
	50842	QTP3X32T8/277 PSN-SC PAL		
	51411 <i>Pallet Pack</i>	QTP3x32T8/UNV PSN-SC		

*Lamp wiring for 3 lamp QHE PSX & PSN "parallel" models vary from QTP series models. Be sure to wire ballasts per label schematics.

DISCONTINUED

Nearest Equivalent SYLVANIA Replacement

Electronic Ballasts

DISCONTINUED BALLASTS			NEAREST REPLACEMENT UNIVERSAL VOLTAGE & 347V BALLASTS	
	Item Number	OSRAM SYLVANIA Description	Item Number	OSRAM SYLVANIA Description
T8, 4-Lamp, Programmed Start				
PSX	51227 <i>Banded Pack</i>	QTP4x32T8/UNV PSX-TC	51438 <i>Banded 10-Pack</i>	QHE4x32T8/UNV PSX-SC*
	51435 <i>10-Pack</i>	QTP4x32T8/UNV PSX-TC		
PSN	50850	QTP4X32T8/120 PSN-SC	51418 <i>Banded 10-Pack</i>	QHE4x32T8/UNV PSN-SC*
	50860	QTP4X32T8/277 PSN-SC		
	51404 <i>Banded Pack</i>	QTP4x32T8/UNV PSN-SC		
	51415 <i>10-Pack</i>	QTP4x32T8/UNV PSN-SC		
	50852	QTP4X32T8/120 PSN-SC PAL	51419 <i>Pallet Pack</i>	QHE4x32T8/UNV PSN-SC*
	50862	QTP4X32T8/277 PSN-SC PAL		
51416 <i>Pallet Pack</i>	QTP4x32T8/UNV PSN-SC			
8' T8, 2-Lamp, Instant Start				
ISN	49581	QT2X59T8/120 IS	49590 <i>Banded Pack</i> 49598 <i>10-Pack</i>	QTP2x59T8/UNV ISN-SC
	49582	QT2X59T8/277 IS		
	49587	QT2X59T8/120 IS-SR NK		
	49588	QT2X59T8/277 IS-SR NK		
	49028	QT2X59T8/120 IS-SR NK-IN 4Pk		
	49597	QTP2x59T8/UNV ISN-SC-SR NK		
ISH	49583	QT2X59T8/120 PLUS	49879 <i>10-Pack</i>	QHE2x59T8/UNV ISH
	49584	QT2X59T8/277 PLUS		
	50238 <i>Banded Pack</i>	QHE2X59T8/UNV ISH		
T8, 1-Lamp, Instant Start, 347V				
	49711	QTP1x32T8/347 ISN-SC	49461	QHE1x32T8/347 ISN-SC
T8, 2-Lamp, Instant Start, 347V				
	49241	QT2x32T8/347 ISL-SC	49473	QHE2x32T8/347 ISL-SC
T8, 3-Lamp, Instant Start, 347V				
	49993	QT3x32T8/347 ISN-SC	49715	QTP3x32T8/347 ISN-SC
T8, 4-Lamp, Instant Start, 347V				
	49939	QT4x32T8/347 ISL-SC	49477	QHE4x32T8/347 ISL-SC
	49994	QT4x32T8/347 ISN-SC	49717	QTP4x32T8/347 ISN-SC
T5HO, 1-Lamp, Programmed Start				
	49101	QTP1x39-24T5HO/UNV PSN	51478 <i>10-Pack</i>	QHE2x39/24T5HO/UNV PSN (1-Lamp)
	49100	QTP1x39-24T5HO/UNV PSN		
		49151	QTP1x80T5HO/UNV PSN NL <i>(no leads/wires)</i>	49150
T5HO, 2-Lamp, Programmed Start				
	49111	QTP2x39-24T5HO/UNV PSN	51478 <i>10-Pack</i>	QHE2x39/24T5HO/UNV PSN
	49110	QTP2x39-24T5HO/UNV PSN		

*Lamp wiring for 4 lamp QHE PSX & PSN "parallel" models vary from QTP series models. Be sure to wire ballasts per label schematics.

DISCONTINUED



DISCONTINUED

Electronic Ballasts

Nearest Equivalent SYLVANIA Replacement

DISCONTINUED BALLASTS			NEAREST REPLACEMENT UNIVERSAL VOLTAGE BALLASTS	
Item Number	OSRAM SYLVANIA Description		Item Number	OSRAM SYLVANIA Description
FT40T5, 1-Lamp, Programmed Start				
PSN	50320	QTP1x40TT5/120 PSN-F	49428	QHE1x40DL/UNV ISN-SC
FT40T5, 1-Lamp, Instant Start				
ISN	49641	QT 1X40/120 DL	49428	QHE1x40DL/UNV ISN-SC
	49642	QT 1X40/277 DL		
FT40T5, 2-Lamp, Instant Start				
ISN	49643	QT 2X40/120 DL	49429	QHE2x40DL/UNV ISN-SC
	49644	QT 2X40/277 DL		
FT40T5, 3-Lamp, Instant Start				
ISN	49645	QT 3X40/120 DL	49430	QHE3x40DL/UNV ISN-SC
	49646	QT 3X40/277 DL		
T4, 1 and 2-Lamp, Programmed Rapid Start				
	51778	QTP1/2x13CF/UNV QS	51818	QTP1/2x13CF/UNV DM
	51718	QTP1/2x13CF/UNV BS		
	51748	QTP1/2x13CF/UNV TS		
	51783	QTP1/2x18CF/UNV QS	51823	QTP1/2x18CF/UNV DM
	51723	QTP1/2x18CF/UNV BS		
	51753	QTP1/2x18CF/UNV TS		
	51793	QTP2x26CF/UNV QS	51833	QTP2x26CF/UNV DM
	51733	QTP2x26CF/UNV BS		
	51763	QTP2x26CF/UNV TS		
	51738	QTP1/2xCF/UNV BM		
	51768	QTP1/2xCF/UNV TM		
	51798	QTP1/2xCF/UNV PM	51898	QTP2x26CF/UNV DM PEM
	51743	QTP2x26/32/42CF/UNV BM	51843	QTP2x26/32/42CF/UNV DM
	51773	QTP2x26/32/42CF/UNV TM		
	51740	QTP1x57CF/UNV BM		
	51800	QTP1x57CF/UNV PM		
51803	QTP2x26/32/42CF/UNV PM	51863	QTP2x26/32/42CF/UNV DM PEM	
T8, 1-Lamp, Dimming Systems				
	50700	QTP1x32T8/120 DIM5-B	50705	QTP1x32T8/UNV DIM-TC
	50701	QTP1x32T8/120 DIM5-B NL		
	50710	QTP1x32T8/277 DIM5-B		
	50711	QTP1x32T8/277 DIM5-B NL		
T8, 2-Lamp, Dimming Systems				
	50720	QTP2x32T8/120 DIM5-B	50707	QTP2x32T8/UNV DIM-TC
	50721	QTP2x32T8/120 DIM5-B NL		
	50730	QTP2x32T8/277 DIM5-B		
	50731	QTP2x32T8/277 DIM5-B NL		

DISCONTINUED

DISCONTINUED

Nearest Equivalent SYLVANIA Replacement

Electronic Ballasts

DISCONTINUED BALLASTS		NEAREST REPLACEMENT UNIVERSAL VOLTAGE BALLASTS	
Item Number	OSRAM SYLVANIA Description	Item Number	OSRAM SYLVANIA Description
T8, 3-Lamp, Dimming Systems			
50750	QTP 3x32T8/120 DIM5-B	50714	QHE3x32T8/UNV DIM-TCL
50751	QTP 3x32T8/120 DIM5-B NL		
50760	QTP 3x32T8/277 DIM5-B		
50761	QTP 3x32T8/277 DIM5-B NL		
T8, 4-Lamp, Dimming Systems			
50770	QTP 4x32T8/120 DIM10-Q	50716	QHE4x32T8/UNV DIM-TCL
50771	QTP 4x32T8/120 DIM10-Q NL		
50780	QTP 4x32T8/277 DIM10-Q		
50781	QTP 4x32T8/277 DIM10-Q NL		
50718	QTP 4x32T8/277 DIM PLUS-TCL		
F96T12, 2-Lamp, Instart Start			
49881	QT 2x96/120IS	50308	QTP2x96/T12/UNV/IS
49882	QT 2x96/277IS		
50318	QTP2x96/T12/UNV/IS		
F40T12, 1 and 2-Lamp, Rapid Start (Series Circuitry)		(Replacement Ballasts are Parallel Circuitry)	
50684	QT 1x40T12/120 RSN-SC	50314	QTP2x40T12/UNV/RS/SC (1-Lamp)
50685	QT 1x40T12/277 RSN-SC		
50686	QT 2x40T12/120 RSN-SC	50314	QTP2x40T12/UNV/RS/SC
50687	QT 2x40T12/277 RSN-SC		

DISCONTINUED



Notes

[illegible]

QUICKCROSS

The smart electronics in SYLVANIA QUICKTRONIC® ballasts allow them to outperform the competition.

Cross Reference Guide

Item Number	OSRAM SYLVANIA	Advance	U.L.T. Universal Lighting Technologies (formerly Magnetek)	GE	Howard
QUICKTRONIC® HIGH EFFICIENCY 32 T8 INSTANT START UNIVERSAL VOLTAGE SYSTEMS					
Low Ballast Factor*					
49837	QHE1X32T8/UNV ISL-SC	IOPA-1P32-LW-SC	B132IUNVEL-A	GE-132-MAX-L/ULTRA	N/A
49838	QHE2X32T8/UNV ISL-SC	IOPA-2P32-LW-N	B232IUNVEL-A	GE-232-MAX-L/ULTRA	EPL2/32IS/MV/SC/HE
49839	QHE3X32T8/UNV ISL-SC	IOPA-3P32-LW-SC	B332IUNVEL-A	GE-332-MAX-L/ULTRA	EPL3/32IS/MV/SC/HE
49840	QHE4X32T8/UNV ISL-SC	IOPA-4P32-LW-SC	B432IUNVEL-A	GE-432-MAX-L/ULTRA	EPL4/32IS/MV/SC/HE
Normal Ballast Factor*					
49968	QHE1X32T8/UNV ISN-SC	IOPA-1P32-SC	B132IUNVHE-A	GE-132-MAX-N/ULTRA	N/A
49969	QHE2X32T8/UNV ISN-SC	IOPA-2P32-SC	B232IUNVHE-A	GE-232-MAX-N/ULTRA	EP2/32IS/MV/MC/HE
49970	QHE3X32T8/UNV ISN-SC	IOPA-3P32-SC	B332IUNVHE-A	GE-332-MAX-N/ULTRA	EP3/32IS/MV/MC/HE
49971	QHE4X32T8/UNV ISN-SC	IOPA-4P32-SC	B432IUNVHE-A	GE-432-MAX-N/ULTRA	EP4/32IS/MV/MC/HE
Medium Ballast Factor*					
49248	QHE2x32T8/UNV ISM-SC	N/A	N/A	GE232MAX-N+	N/A
49249	QHE3x32T8/UNV ISM-SC	N/A	N/A	GE332MAX-N+	N/A
49491	QHE4x32T8/UNV ISM-SC	N/A	N/A	GE432MAX-N+	N/A
High Ballast Factor, (90°C Case Temperature)*					
49496	QHE1X32T8/UNV ISH-HT-SC	N/A	N/A	N/A	N/A
49498	QHE2X32T8/UNV ISH-HT-SC	N/A	N/A	N/A	N/A
49500	QHE3X32T8/UNV ISH-HT-SC	IOP-3P32-HL-90C-SC	B332IHRVHB-E	N/A	N/A
High Ballast Factor*					
49919	QHE1X32T8/UNV ISH-SC	IOPA-1P32-HL-SC	N/A	N/A	N/A
49920	QHE2X32T8/UNV ISH-SC	IOPA-2P32-HL-SC	B232IUNVHEH-A	GE-232-MAX-H/ULTRA	EPH2/32IS/MV/MC/HE
49875	QHE3X32T8/UNV ISH-SC	IOPA-3P32-HL-SC	B332IUNVHEH-A	GE-332-MAX-H/ULTRA	EPH3/32IS/MV/MC/HE
51347	QHE4X32T8/UNV ISH-SC	IOPA-4P32-HL	N/A	GE-432-MAX-H/ULTRA	N/A
QUICKTRONIC® HIGH EFFICIENCY 32 T8 INSTANT START UNIVERSAL VOLTAGE SYSTEMS – TYPE CC & LAMP STRIATION CONTROL					
Low Ballast Factor*					
49199	QHE1X32T8/UNV ISL-SC-1	IOP-1P32-LW-SC	N/A	GE-132-MAX-L/ULTRA	N/A
49200	QHE2X32T8/UNV ISL-SC-1	IOP-2P32-LW-SC	N/A	GE-232-MAX-L/ULTRA	N/A
49367	QHE3X32T8/UNV ISL-SC-1	IOP-3P32-LW-SC	N/A	GE-332-MAX-L/ULTRA	N/A
49368	QHE4X32T8/UNV ISL-SC-1	IOP-4P32-LW-SC	N/A	GE-432-MAX-L/ULTRA	N/A
Normal Ballast Factor*					
49381	QHE1X32T8/UNV ISN-SC-1	IOP-1P32-SC	N/A	GE-132-MAX-N/ULTRA	N/A
49383	QHE2X32T8/UNV ISN-SC-1	IOP-2P32-SC	N/A	GE-232-MAX-N/ULTRA	N/A
49385	QHE3X32T8/UNV ISN-SC-1	IOP-3P32-SC	N/A	GE-332-MAX-N/ULTRA	N/A
49387	QHE4X32T8/UNV ISN-SC-1	IOP-4P32-SC	N/A	GE-432-MAX-N/ULTRA	N/A
High Ballast Factor, (90°C Case Temperature)*					
49783	QHE2x32T8/UNV ISH-HT-SC-1	N/A	N/A	N/A	N/A
49785	QHE3x32T8/UNV ISH-HT-SC-1	IOP-3P32-HL-90C-SC	N/A	N/A	N/A
49787	QHE4x32T8/UNV ISH-HT-1	IOP-4P32-HL-90C-G	N/A	N/A	N/A
QUICKTRONIC® PROFESSIONAL 32 T8 INSTANT START UNIVERSAL VOLTAGE SYSTEMS					
Low Ballast Factor*					
49832	QTP1x32T8/UNV ISL-SC	ICN-1P32-LW-SC	N/A	N/A	N/A
49834	QTP2x32T8/UNV ISL-SC	ICN-2P32-LW-SC	N/A	GE-232-MV-L	EPL2/32IS/MV/MC
49745	QTP3x32T8/UNV ISL-SC	ICN-3P32-LW-SC	N/A	GE-332-MV-L	EPL3/32IS/MV/MC
49747	QTP4x32T8/UNV ISL-SC	ICN-4P32-LW-SC	N/A	GE-432-MV-L	EPL4/32IS/MV/MC
Normal Ballast Factor*					
49905	QTP1x32T8/UNV ISN-SC	ICN-1P32-N	B132IUNVHP-B	GE-132-MV-N	N/A
49906	QTP2x32T8/UNV ISN-SC	ICN-2P32-N	B232IUNVHP-B	GE-232-MV-N	EP2/32IS/MV/MC
49907	QTP3x32T8/UNV ISN-SC	ICN-3P32-SC	B332IUNVHP-A	GE-332-MV-N	N/A
49908	QTP4x32T8/UNV ISN-SC	ICN-4P32-SC	B432IUNVHP-A	GE-432-MV-N	N/A
High Ballast Factor*					
49829	QTP1x32T8/UNV ISH-SC	N/A	N/A	N/A	N/A
49843	QTP2x32T8/UNV ISH-SC	N/A	N/A	GE-232-MV-H	N/A
49845	QTP3x32T8/UNV ISH-SC	N/A	N/A	GE-332-MV-H	N/A

Items shaded in gray have been discontinued.

* DISCLAIMER: This cross reference guide is intended as an aid for identifying comparable products as a convenience to the user. OSRAM SYLVANIA does not warrant or guarantee the accuracy or correctness of the content. Case sizes, wiring diagrams and performance specifications may vary, please refer to manufacturers specifications. Please refer to the OSRAM SYLVANIA catalog for verification of product specifications appropriate for the application. Information in this cross reference is subject to change at any time without prior notice. Please contact 1-800-LIGHTBULB or www.sylvania.com for additional information.

SEE THE WORLD IN A NEW LIGHT

SYLVANIA



The smart electronics in SYLVANIA QUICKTRONIC® ballasts allow them to outperform the competition.

Item Number	OSRAM SYLVANIA	Advance	U.L.T. Universal Lighting Technologies (formerly Magnetek)	GE	Howard
QUICKTRONIC® 32 T8 PROStart® (Programmed Rapid Start) UNIVERSAL VOLTAGE SYSTEMS					
High Efficiency, Xtreme Low Ballast Factor, (Parallel Operation)*					
51423	QHE1x32T8/UNV PSX-MC	N/A	N/A	GE132-MVPS-L	N/A
51428	QHE2x32T8/UNV PSX-MC	N/A	N/A	GE232-MVPS-L	N/A
51433	QHE3x32T8/UNV PSX-SC	N/A	N/A	GE332-MVPS-L	N/A
51438	QHE4x32T8/UNV PSX-SC	N/A	N/A	GE432-MVPS-L	N/A
High Efficiency, Normal Ballast Factor, (Parallel Operation)*					
51397	QHE1x32T8/UNV PSN-MC	N/A	N/A	GE132-MVPS-N	N/A
51408	QHE2x32T8/UNV PSN-MC	IOP-2PSP32-SC	B232PUNVHE-A	GE-232-MVPS-N	EP2/32PRS/MV/MC/HE
51413	QHE3x32T8/UNV PSN-SC	IOP-3PSP32-SC	N/A	GE-332-MVPS-N	N/A
51418	QHE4x32T8/UNV PSN-SC	IOP-4PSP32-SC	N/A	GE-432-MVPS-N	N/A
High Efficiency, High Ballast Factor, (90°C Case Temperature - Parallel Operation)*					
49450	QHE2x32T8/UNV-PSH-HT	N/A	N/A	GE-232-MV-PS-H	N/A
49520	QHE3x32T8/UNV-PSH-HT-SC	N/A	N/A	GE-332-MV-PS-H	N/A
49455	QHE4x32T8/UNV-PSH-HT	N/A	N/A	GE-432-MV-PS-H	N/A
High Efficiency, Low Ballast Factor*					
51224	QTP1x32T8/UNV PSX-TC	IOP-1S32-LW-SC	N/A	GE132-MVPS-L	N/A
51225	QTP2x32T8/UNV PSX-TC	IOP-2S32-LW-SC	N/A	GE232-MVPS-L	N/A
51226	QTP3x32T8/UNV PSX-SC	IOP-3S32-LW-SC	N/A	GE332-MVPS-L	N/A
51227	QTP4x32T8/UNV PSX-SC	IOP-4S32-LW-SC	N/A	GE432-MVPS-L	N/A
QUICKTRONIC® 59 T8 & 8 FOOT INSTANT START UNIVERSAL VOLTAGE SYSTEMS					
High Efficiency, Low Ballast Factor*					
49869	QHE2x59T8/UNV-ISL-SC	N/A	N/A	GE259MAX-L/ULTRA	N/A
High Efficiency, Normal Ballast Factor*					
50237	QHE2x59T8/UNV-ISN-SC	IOP-2P59-SC	N/A	GE-259-MAX-N/ULTRA	N/A
High Efficiency, High Ballast Factor*					
49879	QHE2x59T8/UNV-ISH	N/A	N/A	N/A	N/A
Professional Series, Normal Ballast Factor*					
49590	QTP2x59T8/UNV ISN-SC	N/A	B259IUNVHP-A	GE-259-MV-N	EP2/59IS/MV/MC
QUICKTRONIC® 86 T8HO PROStart (Programmed Rapid Start) UNIVERSAL VOLTAGE SYSTEMS					
High Efficiency, Normal Ballast Factor, (90°C Case Temperature)*					
50304	QHE2x86T8HO/UNV-PSN-HT-SCL	ICN-2S86	N/A	N/A	N/A
QUICKTRONIC® 32 T8 INSTANT START 347 VOLT SYSTEMS - CANADA					
High Efficiency, Low Ballast Factor*					
49471	QHE1x32T8/347 ISL-SC	GOPA-1P32-LW-SC	N/A	N/A	N/A
49473	QHE2x32T8/347 ISL-SC	GOPA-2P32-LW-SC	N/A	GE232MAX347-L	N/A
49475	QHE3x32T8/347 ISL-SC	GOPA-3P32-LW-SC	N/A	GE332MAX347-L	N/A
49477	QHE4x32T8/347 ISL-SC	GOPA-4P32-LW-SC	N/A	GE432MAX347-L	N/A
High Efficiency, Normal Ballast Factor*					
49461	QHE1x32T8/347 ISN-SC	GOPA-1P32-SC	N/A	N/A	N/A
49463	QHE2x32T8/347 ISN-SC	GOPA-2P32-SC	N/A	GE232MAX347-N	N/A
49465	QHE3x32T8/347 ISN-SC	GOPA-3P32-SC	N/A	GE332MAX347-N	N/A
49467	QHE4x32T8/347 ISN-SC	GOPA-4P32-SC	N/A	GE432MAX347-N	N/A
Professional Series, Normal Ballast Factor*					
49711	QTP1x32T8/347 ISN-SC	N/A	B132I347HP	GE132-N-347	N/A
49713	QTP2x32T8/347 ISN-SC	N/A	B232I347HP	GE232-N-347	N/A
49716	QTP3x32T8/347 ISN-SC	N/A	B332I347HP	GE332-N-347	N/A
49718	QTP4x32T8/347 ISN-SC	N/A	B432I347HP	GE432-N-347	N/A
Standard Series, Low Ballast Factor, <20% THD*					
49241	QT 2x32T8/347 ISL-SC	N/A	N/A	N/A	N/A
49939	QT 4x32T8/347 ISL-SC	N/A	N/A	N/A	N/A
Standard Series, High Ballast Factor, <20% THD*					
49927	QT 2x32T8/347 ISH-SC	N/A	N/A	N/A	N/A

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Item Number	OSRAM SYLVANIA	Advance	U.L.T. Universal Lighting Technologies (formerly Magnetek)	GE	Howard
QUICKTRONIC® 59 T8 8 FOOT 347 VOLT SYSTEMS - CANADA					
Standard Series, Normal Ballast Factor, <20% THD*					
49217	QT2x59/347IS	N/A	N/A	GE259-N-347	N/A
QUICKTRONIC® T5 PROStart® (Programmed Rapid Start) UNIVERSAL VOLTAGE SYSTEMS					
High Efficiency, Normal Ballast Factor (BI-LEVEL)*					
51496	QHES 2X28T5/UNV PS90SC	IOP-2S28-95-SC	N/A	GE228MVPS-A	N/A
High Efficiency, Normal Ballast Factor (BF 0.90)*					
51495	QHE2X28T5/UNV PS90SC	IOP-2S28-95-SC	N/A	GE228MVPS-A	N/A
High Efficiency, Normal Ballast Factor*					
51473	QHE2X28T5/UNV PSN	IOP-2S28-95-SC	N/A	GE228MVPS-A	N/A
Professional Series, Extra-Low Ballast Factor*					
49187	QTP2X21T5/UNV PS51-SC	N/A	N/A	N/A	N/A
Professional Series, Normal Ballast Factor*					
49171	QTP1X28T5UNVPSN	N/A	N/A	N/A	N/A
49181	QTP2x28T5/UNVPSN	ICN-2S28	B228PUNV-C	B228PUNV-C0G1C	N/A
Professional Series, 347V*					
49185	QTP1X28T5/347 PS-SC	N/A	N/A	N/A	N/A
QUICKTRONIC® T5HO PROStart® (Programmed Rapid Start) UNIVERSAL VOLTAGE SYSTEMS					
High Efficiency, Normal Ballast Factor, High Temperature*					
51476	QHE2X54T5HO/UNV PSN-HT	ICN-2S54-90C (Non-high-efficiency)	B254PUNVHB-D (Non-high-efficiency)	GE254MVPS90-F	N/A
52665 (51480 discontinued)	QHE4X54T5/HO UNV PSN-HT-SCL-DOE	ICN-4S54-90C-2LS (Non-high-efficiency)	B454PUNVHB-E B454PUNV-E (Non-high-efficiency)	GE454MVPS90-G GE454MVPS90-E	N/A N/A
High Efficiency, Normal Ballast Factor*					
51471	QHE2x54T5HO-UNV PSN	ICN-2S54 (Non-high-efficiency)	B254PUNV-D	GE254MVPS-D	N/A
51479	QHE2x39-24T5HO/UNV PSN	N/A	N/A	N/A	N/A
High Efficiency, Normal Ballast Factor, High Temperature, 347-480V*					
51486	QHE2x54T5HO-347-480 PSN-HT	N/A	N/A	N/A	N/A
51481	QHE4X54T5HO/347-480 PSN-HT-SCL	N/A	N/A	N/A	N/A
Professional Series, (BI-LEVEL)*					
49419	QS 2X54T5HO/UNV PS80SC	N/A	N/A	N/A	N/A
Professional Series, (BF 0.80)*					
49418	QTP2X54T5HO/UNV PS80SC	N/A	N/A	N/A	N/A
Professional Series, Normal Ballast Factor, High Temperature*					
49136	QTP2x54T5HO/UNV PSN HT	ICN-2S54-90C	B254PUNVHB-D	N/A	EP2/54HO/PRS/MV/90CW
49161	QTP4x54T5HO/UNV PSN HTW	ICN-4S54-90C-2LS	B454PUNVHB-E B454PUNV-E	N/A	N/A
Professional Series, Normal Ballast Factor*					
49111	QTP2x39-24T5HO/UNVPSN (FP39T5HO)	ICN-2S39	B239PUNV-D	B239PUNV-DOG1C	N/A
49111	QTP2x39-24T5HO/UNVPSN (FP24T5HO)	ICN-2S24	B224PUNV-C	N/A	N/A
49131	QTP2x54T5HO/UNVPSN	ICN-2S54	B254PUNV-D	N/A	N/A
49150	QTP1x80T5HO/UNVPSN	ICN-1S80	ES4515K	N/A	N/A
Professional Series, Normal Ballast Factor, High Temperature, 347-480V*					
49146	QTP2x54T5HO/347-480 PSN HT	HCN-2S54-90C-WL	B254PHRVHB-E	N/A	N/A
QUICKTRONIC® HIGH EFFICIENCY INSTANT START DL40 (40W TT5) UNIVERSAL VOLTAGE SYSTEMS					
High Efficiency, Normal Ballast Factor*					
49428	QHE1x40DL/UNV ISN-SC	ICN-1TTP40-SC (Non-high-efficiency)	N/A	GEC140MAX-A	N/A
49429	QHE2x40DL/UNV ISN-SC	ICN-2TTP40-SC (Non-high-efficiency)	N/A	GEC240MAX-A	EP2/40IS-TT/MV/SC
49430	QHE3x40DL/UNV ISN-SC	ICN-3TTP40-SC (Non-high-efficiency)	N/A	GEC340MAX-A	EP3/40IS-TT/MV/SC

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U.L.T.					
Item Number	OSRAM SYLVANIA	Advance	Universal Lighting Technologies (formerly Magnetek)	GE	Howard
QUICKTRONIC® PROFESSIONAL PROStart® (Programmed Rapid Start) DL40 (40W TT5) SYSTEMS					
Professional Series, Normal Ballast Factor*					
50320	QTP1x40TT5/120PSN-F	REL-1TTS40	N/A	N/A	N/A
50330	QTP1x40TT5/277PSN-F	VEL-1TTS40	N/A	N/A	N/A
50340	QTP2x40TT5/120PSN-F	REL-2TTS40	N/A	GEC240MVPS-A	N/A
50350	QTP2x40TT5/277PSN-F	VEL-2TTS40	N/A	GEC240MVPS-A	N/A
50360	QTP3x40TT5/120PSN-B	N/A	N/A	N/A	N/A
50370	QTP3x40TT5/277PSN-B	N/A	N/A	N/A	N/A
QUICKTRONIC® CFL PROStart UNIVERSAL VOLTAGE SYSTEMS					
Professional Series, Normal Ballast Factor* CFL products run multiple lamp combinations and have various mounting/case styles - please refer to actual product specifications					
51818	QTP1/2x13CF/UNV DM	ICF-2S13-H1-LD	C213UNV-BE C213UNV-SE	GEC213-MVPS-SE	PSM213CQMVDW
51823	QTP1/2x18CF/UNV DM	ICF-2S18-H1-LD	C218UNV-BE C218UNV-SE	GEC218-MVPS-SE	PSM218CQMVDW
51833	QTP2x26CF/UNV DM	ICF-2S26-H1-LD	C2642UNV-BE C2642UNV-SE	GEC226-MVPS-SE	PSM226CQMVDW
51898	QTP2x26CF/UNV DM PEM	ICF-2S26-M1-BS ICF-2S26-M1-BS-QS	C2642UNV-BES	GEC226-MVPS-3W	PSM226CQMVDSW
51843	QTP2x26/32/42CF/UNV DM	ICF- 2S42-M2-LD	C242UNV-BE C242UNV-SE	GEC242-MVPS-SE	PSP242TRMVDW
51863	QTP2x26/32/42CF/UNV DM PEM	ICF-2S42-M2-BS	C242UNV-BES	GEC242-MVPS-3W	PSP242TRMVDSW
QUICKTRONIC® PROFESSIONAL RAPID START 40T12 SYSTEMS					
Professional Series, Normal Ballast Factor*					
50314	QTP2x40T12/UNV/RS/SC	ICN-2S40-N	B240R120HP B240R277HP	GE240RS-MV-N	N/A
QUICKTRONIC® PROFESSIONAL INSTANT START 8 FOOT T12 UNIVERSAL VOLTAGE SYSTEMS					
Professional Series, Normal Ballast Factor, <20% THD*					
50308	QTP2x96/T12/UNV/IS	ICN-2P60-SC	B260IUNVHP	GE-260IS-MV-N	N/A
QUICKTRONIC® RAPID START 8 FOOT T12HO SYSTEMS					
Professional Series, Normal Ballast Factor, <20% THD*					
50319	QTP2x96T12HO/UNV	ICN-2S110-SC	B295SRUNVHP	GE296HO-MV-N	EP2/110RS-MV
QUICKTRONIC® RESIDENTIAL 32 T8 INSTANT START 120 VOLT SYSTEMS, (For Residential Use Only)					
Residential Series, Normal Ballast Factor*					
49313	QTR2x32T8/120 ISN-SC	N/A	B232I120RES-A	GE232-120-RES	N/A
49317	QTR4x32T8/120 ISN-SC	N/A	B432I120RES-A	GE432-120-RES	N/A

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Item Number	OSRAM SYLVANIA POWERSENSE® (2 wire Powerline & 0-10V) (120-277V)	Advance		U.L.T. (formerly Magnetek)		LUTRON		GE UltraStart (0-10V)
		Mark 10® (2 wire) Powerline (Dedicated Voltage)	Mark 7® (0-10V) (120-277V)	Universal Lighting Technologies Ballastar® (0-10V) (Dedicated Voltage)	Superdim® (0-10V) (120-277V)	Tu-wire® (Powerline) Dedicated Voltage Models Only	Eco-10 TVE™ (0-10V)	
QUICKTRONIC® POWERSENSE® (2-Wire Powerline & 0-10V) UNIVERSAL VOLTAGE SYSTEMS								
High Efficiency, 32W T8 (QUICKTRONIC® is Dual Control, Competitors are 0-10VDC or Phase Cut)*								
50735 (50705 discontinued)	QHE1x32T8/UNV DIM-TC†	IZT-132-SC		B132PUNVSV3-A ES5821B ES5835K ES5833B ES5818K				GE132MVPS-N-V03
		REZ-132-SC (120V)		B132R120V5		2W-T832-120-1	TVE-T832-120-1 TVE-T825-120-1 TVE-T817-120-1	
		VEZ-132-SC (277V)		B132R277V5				
50736 (50707 discontinued)	QHE2x32T8/UNV DIM-TC†	IZT-2S32-SC		B232PUNVSV3-A ES5822B ES5836K ES5834B ES5817K				GE232MVPS-N-V03
		REZ-2S32-SC(120V)		B232SR120V5		2W-T832-120-2	TVE-T832-120-2	
		VEZ-2S32-SC (277V)		B232SR277V5			TVE-T832-277-2	
50737 (50714 discontinued)	QHE3x32T8/UNV DIM-TCL†	IZT-3S32-SC		N/A		N/A		GE332MVPS-N-V03
		REZ-3S32-SC (120)		B332SR120V5			TVE-T832-120-3	
		VEZ-3S32-SC (277V)		B332SR277V5			TVE-T832-277-3	
50738 (50716 discontinued)	QHE4x32T8/UNV DIM-TCL†	N/A		IZT-4S32	N/A	N/A	N/A	GE432-MVPS-N-V03
				VZT-4S32-G	B432P277V5H-E			
				VZT-4S32-HL	B432P277V5-E			
High Efficiency, 28W T5 (QUICKTRONIC® is Dual Control, Competitors are 0-10VDC or Phase Cut)*								
50725	QHE1x28T5/UNV DIM-TC	N/A	N/A	N/A	B128PUNVSV3-D	N/A	N/A	N/A
50726	QHE2x28T5/UNV DIM-TCL†	N/A	IZT-2S28-D	N/A	B228PUNVSV3-D	N/A	N/A	N/A
					ES5851K ES5861K ES5847K			
High Efficiency, 54W T5HO (QUICKTRONIC® is Dual Control, Competitors are 0-10VDC or Phase Cut)*								
51468	QHE1x54T5HO/UNV DIM-TC	REZ-1S54 VEZ-1S54	RZT-1S54 VZT-1S54	N/A	N/A	N/A	N/A	N/A
51467	QHE2x54T5HO/UNV DIM-TCL	REZ-2S54 VEZ-2S54	RZT-2S54 VZT-2S54	N/A	N/A	N/A	N/A	N/A
QUICKTRONIC® HELIOS™ (0-10V)								
High Efficiency, 32W T8 Dimming System (0-10Vdc control), 100-10% Dimming Range								
50719	QHE2x32T8/UNV HDIM10-SC	LV-2S32-SC		N/A				N/A
Professional Series, 54 T5/HO Dimming Systems (0-10Vdc control) - 100-1% Dimming Range*								
49671	QT1x54/120PHO-DIM	RZT-154		N/A				N/A
49672	QT1x54/277PHO-DIM	VZT-154		N/A				N/A
49673	QT2x54/120PHO-DIM	RZT-2S54		N/A				N/A
49674	QT2x54/277PHO-DIM	VZT-2S54		N/A				N/A
Professional Series, CF Dimming Systems (0-10Vdc control) - 100-3% Dimming Range*								
51836	QTP2x26CF/UNV DIM DM	IZT-2S26-M5-LD		C213UNVSV3ME				N/A
				C218UNVSV3ME C226UNVSV3ME				

† QHE models above were formerly QTP models.

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Item Number	OSRAM SYLVANIA	Advance	U.L.T. Universal Lighting Technologies (formerly Magnetek)	Lutron	GE (Dedicated Voltage)
QUICKTRONIC® DALI, UNIVERSAL VOLTAGE SYSTEMS					
High Efficiency, 32W T8*					
51354	QHE1X32T8/UNV DALI	N/A	N/A	N/A	N/A
51355	QHE2X32T8/UNV DALI	N/A	N/A	N/A	N/A
High Efficiency, T5†					
51456	QHE1X28T5/UNV DALI	N/A	N/A	N/A	N/A
51458	QHE2X28T5/UNV DALI	N/A	N/A	N/A	N/A
High Efficiency, T5H0†					
51464	QHE1X54T5H0/UNV DALI	N/A	N/A	N/A	N/A
51466	QHE2X54T5H0/UNV DALI	N/A	N/A	N/A	N/A
Professional Series, T8*					
51350	QTP1x32T8/UNV DALI	IDA-132-SC	B132PUNVDV1	N/A	N/A
51352	QTP2x32T8/UNV DALI	IDA-2S32-SC	B232PUNVDV1	N/A	N/A
Professional Series, T5†					
51357	QTP1x14T5/UNV DALI	N/A	B114PUNVDV1	N/A	N/A
51359	QTP2x14T5/UNV DALI	N/A	B214PUNVDV1	N/A	N/A
51356	QTP1x28T5/UNV DALI	IDA-128-D	B128PUNVDV1	N/A	N/A
51358	QTP2x28T5/UNV DALI	IDA-2S28-D	B228PUNVDV1	N/A	N/A
51360	QTP1x35T5/UNV DALI	N/A	N/A	N/A	N/A
51361	QTP2x35T5/UNV DALI	N/A	N/A	N/A	N/A
Professional Series, T5H0†					
51364	QTP1x54T5H0/UNV DALI	IDA-154	B154PUNVDV1	N/A	N/A
51366	QTP2x54T5H0/UNV DALI	IDA-2S54	B254PUNVDV1	N/A	N/A
Professional Series, CFL (T5 / T4)†					
51370	QTP1x18CF/UNV DALI	N/A	C118PUNVDV3	N/A	N/A
51372	QTP2x18CF/UNV DALI	N/A	C218PUNVDV3	N/A	N/A
51375	QTP1x26CF/UNV DALI	N/A	C126PUNVDV3	N/A	N/A
51377	QTP2x26CF/UNV DALI	IDL-2S26-M5-LD	C226PUNVDV3	N/A	N/A
51380	QTP1x32CF/UNV DALI	N/A	C132PUNVDV3	N/A	N/A
51382	QTP2x32CF/UNV DALI	N/A	C232PUNVDV3	N/A	N/A
51384	QTP1x42CF/UNV DALI	N/A	C142PUNVDV3	N/A	N/A
51386	QTP2x42CF/UNV DALI	IDL-2T42-M5-LD	C242PUNVDV3	N/A	N/A
51390	QTP1x40TT5/UNV DALI	N/A	C140PUNVDV3	N/A	N/A
51392	QTP2x40TT5/UNV DALI	N/A	C240PUNVDV3	N/A	N/A

*Ballast Can Size, wiring diagrams and performance specifications may vary between manufacturers. Please refer to specifications for details.

Item Number	OSRAM SYLVANIA	Mount	Advance	Metrolight	Aromat/ULT/VS	Hatch
QUICKTRONIC® SUPER MINI MH						
Electronic Metal Halide- Universal Voltage*						
51986	QTP1X15MH SM 4.0 x 1.3 x 1.18	F	N/A	N/A	N/A	N/A
51987	QTP1X15MH SM 3.5 x 1.3 x 1.18	J	N/A	N/A	N/A	N/A
51988	QTP1X20MH SM 4.0 x 1.3 x 1.18	F	RMH-G20-K-LF 4.74 x 1.1 x 1.2	N/A	M2012CK-7EUN-F 4.12 x 1.32 x 1.22	MC20-1-F-120X 4.36 x 1.71 x 1.12
51989	QTP1X20MH SM 3.5 x 1.3 x 1.18	J	N/A	N/A	M2012CK-7EUN-J 3.81 x 1.32 x 1.5	MC20-1-J-120X 3.79 x 1.71 x 1.12
51990	QTP1X39MH SM 4.0 x 1.3 x 1.18	F	RMH-39-K-LF 4.4 x 1.1 x 1.2	N/A	M3912CK-7EUN-F 4.12 x 1.32 x 1.22	MC39-1-F-120X 4.36 x 1.71 x 1.12
51991	QTP1X39MH SM 3.5 x 1.3 x 1.18	J	RMH-39-K-BLS 4.1 x 1.1 x 1.2	N/A	M3912CK-7EUN-J 3.81 x 1.32 x 1.5	MC39-1-J-120X 3.79 x 1.71 x 1.12

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Item Number	OSRAM SYLVANIA	Mount	Advance	Metrolight	Aromat/ULT/VS	Hatch
QUICKTRONIC® PROFESSIONAL MH						
METALARC® Metal Halide Universal Voltage - Operates Ceramic and Most Quartz MH Lamp*						
51968	QTP2X20MH/UNV 5.0 x 3.4 x 1.4	F	N/A	N/A	N/A	MC20-2-F-UNNU 5.52 x 3.62 x 1.35
51969	QTP2X20MH/UNV 4.6 x 3.4 x 1.4	J	N/A	N/A	N/A	MC20-2-J-UNNU 4.8 x 3.62 x 1.61
51910	QTP1X39MH/UNV 5.0 x 3.4 x 1.4	F	IMH-50-A-LF 5.5 x 3.6 x 1.5	N/A	M3912-27CK-5EUF 5.51 x 3.62 x 1.57	N/A
51911	QTP1X39MH/UNV 4.6 x 3.4 x 1.4	J	IMH-50-A-BLS 5.5 x 3.6 x 1.5	N/A	M3912-27CK-5EUJ 4.81 x 3.62 x 1.57	N/A
51970	QTP2X39MH/UNV 5.0 x 3.4 x 1.4	F	IMH-239-A-LF 5.5 x 3.6 x 1.5	N/A	N/A	MC39-2-F-UNNU 5.52 x 3.62 x 1.35
51971	QTP2X39MH/UNV 4.6 x 3.4 x 1.4	J	IMH-239-A-BLS 4.7 x 3.6 x 1.5	N/A	N/A	MC39-2-J-UNNU 4.8 x 3.62 x 1.61
51912	QTP1X70MH/UNV 5.0 x 3.4 x 1.4	F	IMH-70-D-LF 5.0 x 3.0 x 1.5	N/A	M7012-27CK-5EUF 5.51 x 3.62 x 1.57	N/A
51913	QTP1X70MH/UNV 4.6 x 3.4 x 1.4	J	IMH-70-D-BLS 4.6 x 3.0 x 1.5	N/A	M7012-27CK-5EUJ 4.81 x 3.62 x 1.57	N/A
51914	QTP1X100MH/UNV 5.0 x 3.4 x 1.4	F	IMH-100-D-LF 5.0 x 3.0 x 1.5	N/A	M10012-27CK-5EUF 5.51 x 3.62 x 1.57	MC100-1-F-UNIU 5.52 x 3.62 x 1.35
51915	QTP1X100MH/UNV 4.6 x 3.4 x 1.4	J	IMH-100-D-BLS 4.6 x 3.0 x 1.5	N/A	M10012-27CK-5EUJ 4.81 x 3.62 x 1.57	MC100-1-J-UNIU 4.8 x 3.62 x 1.61
For use with external IDTP						
51911	QTP1X39MH/UNV 4.6 x 3.4 x 1.4	J	MH-39-A-BLS-ID 4.72 x 3.62 x 1.50	N/A	M3912-27CK-5EUJT2 5.02 x 3.62 x 1.57	N/A
51913	QTP1X70MH/UNV 4.6 x 3.4 x 1.4	J	IMH-70-A-BLS-ID 4.72 x 3.62 x 1.50	N/A	M7012-27CK-5EUJT2 5.02 x 3.62 x 1.57	N/A
51915	QTP1X100MH/UNV 4.6 x 3.4 x 1.4	J	IMH-100-A-BLS-ID 4.72 x 3.62 x 1.50	N/A	M10012-27CK-5EUJT2 5.02 x 3.62 x 1.57	N/A
QUICKTRONIC® SQUARE and SLIM MH						
METALARC® Metal Halide - Operates Ceramic and Most Quartz MH Lamp*						
51959	QT1x20MH SQ 3.5 x 3.0 x 1.2	F	IMH-G20-G-LF 3.8 x 3.0 x 1.2	N/A	M2012CK-6EU-F 3.75 x 3.0 x 1.2	MC20-1-F-UNNU 4.04 x 3 x 1.21
51956	QT1x20MH SQ 3.5 x 3.0 x 1.54	J	IMH-G20-G-BLS 3.5 x 3.0 x 1.2	N/A	M2012CK-6EU-J 3.3 x 3.0 x 1.56	MC20-1-J-UNNU 3.45 x 3.13 x 1.27
51961	QT1x39MH SQ 3.5 x 3.0 x 1.2	F	IMH-39-G-LF 3.8 x 3.0 x 1.2	N/A	M3912CK-6EU-F 3.75 x 3.0 x 1.2	MC39-1-F-UNNU 4.04 x 3 x 1.21
51957	QT1x39MH SQ 3.5 x 3.0 x 1.54	J	IMH-39-G-BLS 3.5 x 3.0 x 1.2	N/A	M3912CK-6EU-J 3.3 x 3.0 x 1.56	MC39-1-J-UNNU 3.45 x 3.13 x 1.27
51963	QT1x70MH SQ 3.5 x 3.0 x 1.2	F	IMH-70-G-LF 3.8 x 3.0 x 1.2	N/A	M7012CK-6EU-F 3.75 x 3.1 x 1.3	MC70-1-F-UNNU 4.04 x 3 x 1.21
51964	QT1x70MH SQ 3.5 x 3.0 x 1.54	J	IMH-70-G-BLS 3.5 x 3.0 x 1.2	N/A	M7012CK-6EU-J 3.3 x 3.0 x 1.56	MC70-1-J-UNNU 3.45 x 3.13 x 1.27
51946	QTP1X70MH UNV SLIM F 5.0 x 1.8 x 1.3	F	N/A	N/A	N/A	MC70-1F-UNNS-HB 7.74 x 1.74 x 1.47
51947	QTP1X70MH UNV SLIM J 5.0 x 1.8 x 1.3	J	N/A	N/A	N/A	MC70-1J-UNNS-HB 7.74 x 1.74 x 1.47
51948	QTP1X100MH UNV SLIM F 5.0 x 1.8 x 1.3	F	N/A	N/A	N/A	MC100-1F-UNNS-HB 7.74 x 1.74 x 1.47
51949	QTP1X100MH UNV SLIM J 5.0 x 1.8 x 1.3	J	N/A	N/A	N/A	MC100-1J-UNNS-HB 7.74 x 1.74 x 1.47

Items shaded in gray have been discontinued.

* DISCLAIMER: This cross reference guide is intended as an aid for identifying comparable products as a convenience to the user. OSRAM SYLVANIA does not warrant or guarantee the accuracy or correctness of the content. Case sizes, wiring diagrams and performance specifications may vary, please refer to manufacturers specifications. Please refer to the OSRAM SYLVANIA catalog for verification of product specifications appropriate for the application. Information in this cross reference is subject to change at any time without prior notice. Please contact 1-800-LIGHTBULB or www.sylvania.com for additional information.

SEE THE WORLD IN A NEW LIGHT

SYLVANIA



The smart electronics in SYLVANIA QUICKTRONIC® ballasts allow them to outperform the competition.

QUICKCROSS

Cross Reference Guide

Item Number	OSRAM SYLVANIA	Mount	Advance	Metrolight	Universal Lighting Technologies	GE
QUICKTRONIC® HIGH EFFICIENCY MH†						
Electronic Metal Halide - Universal Voltage*						
51954	QTO1X100MH UNV DIM 6.46 x 4.5 x 1.77	F	N/A	N/A	N/A	N/A
51955	QTO1X150MH-HPS UNV DIM 6.46 x 4.5 x 1.77	F	N/A	N/A	N/A	N/A
51965	QTO1X200MH-HPS UNV DIM 6.46 x 4.5 x 1.77	F	N/A	N/A	N/A	N/A
QUICKTRONIC® HIGH EFFICIENCY MH†						
Electronic Metal Halide - 208-277V*						
51980	QHE1X200MH 208-277V 8.03 x 5.9 x 1.95	F	N/A	N/A	N/A	N/A
51981	QHE1X250MH 208-277V 8.03 x 5.9 x 1.95	F	N/A	N/A	N/A	GE-MH-250-400-MA 14.91 x 14.91 x 13.35
51982	QHE1X320MH 208-277V 8.03 x 5.9 x 1.95	F	N/A	N/A	N/A	GE-MH-250-400-MA 14.91 x 14.91 x 13.35
51983	QHE1X350MH 208-277V 8.03 x 5.9 x 1.95	F	N/A	N/A	N/A	GE-MH-250-400-MA 14.91 x 14.91 x 13.35
51984	QHE1X400MH 208-277V 8.03 x 5.9 x 1.95	F	N/A	N/A	N/A	GE-MH-250-400-MA 14.91 x 14.91 x 13.35
QUICKTRONIC® HIGH EFFICIENCY DIMMING MH†						
Electronic Metal Halide - 208-277V*						
51992	QHE1x200MH 208-277 DIM 8.03 x 5.9 x 1.95	F	N/A	SmartHID™ 200W 8.46 x 3.43 x 2.16	N/A	N/A
51993	QHE1x250MH 208-277 DIM 8.03 x 5.9 x 1.95	F	N/A	SmartHID™ 250W 8.46 x 3.43 x 2.16	N/A	GEMH250-400M-V50 14.91 x 14.91 x 13.35
51994	QHE1x320MH 208-277 DIM 8.03 x 5.9 x 1.95	F	IZTEMH4003PS-F 11.7 x 5.0 x 2.6	SmartHID™ 320W 8.46 x 3.43 x 2.16	N/A	GEMH250-400M-V50 14.91 x 14.91 x 13.35
51995	QHE1x350MH 208-277 DIM 8.03 x 5.9 x 1.95	F	IZTEMH4003PS-F 11.7 x 5.0 x 2.6	SmartHID™ 350W 8.46 x 3.43 x 2.16	N/A	GEMH250-400M-V50 14.91 x 14.91 x 13.35
51996	QHE1x400MH 208-277 DIM 8.03 x 5.9 x 1.95	F	IZTEMH4003PS-F 11.7 x 5.0 x 2.6	SmartHID™ 400W 8.46 x 3.43 x 2.16	N/A	GEMH250-400M-V50 14.91 x 14.91 x 13.35

†Line voltage, case size, wiring diagrams and performance specifications may vary; please refer to manufacturer's specifications.

Items shaded in gray have been discontinued.

* DISCLAIMER: This cross reference guide is intended as an aid for identifying comparable products as a convenience to the user. OSRAM SYLVANIA does not warrant or guarantee the accuracy or correctness of the content. Case sizes, wiring diagrams and performance specifications may vary, please refer to manufacturers specifications. Please refer to the OSRAM SYLVANIA catalog for verification of product specifications appropriate for the application. Information in this cross reference is subject to change at any time without prior notice. Please contact 1-800-LIGHTBULB or www.sylvania.com for additional information.

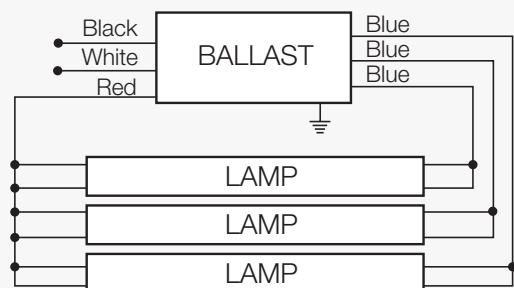
OSRAM SYLVANIA
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Service and Sales Center
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(1-800-544-4828)
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 the system solution®

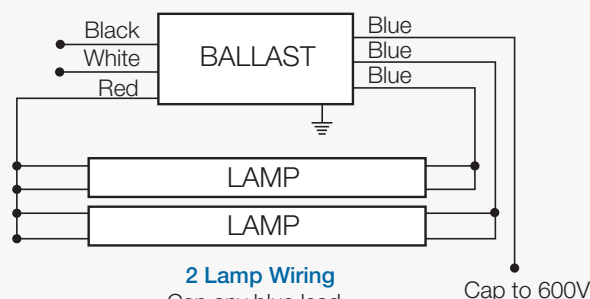
Specifications subject to change without notice.

QUICKCROSS

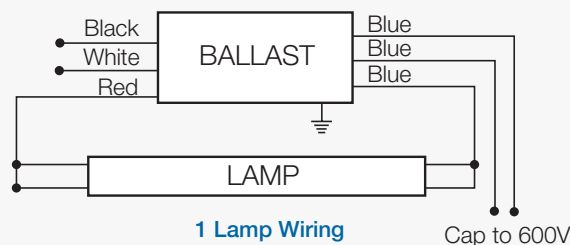
SYLVANIA 3 Lamp Instant Start Ballast Wired For 3, 2 or 1 Lamp



QUICKTRONIC 3x32



QUICKTRONIC 3x32

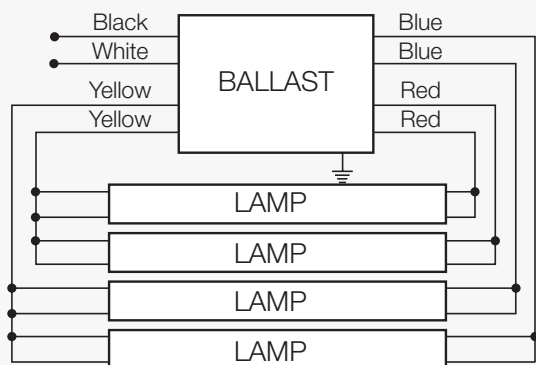


QUICKTRONIC 3x32

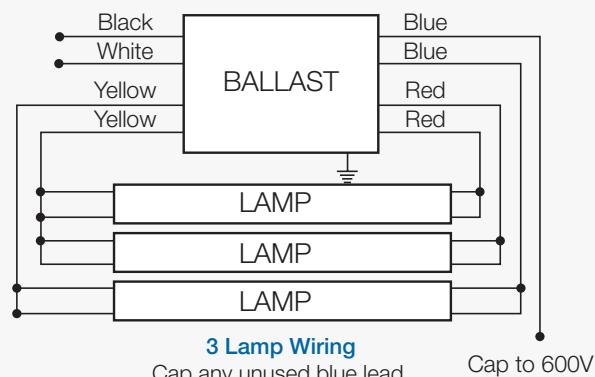
SYLVANIA's QUICKTRONIC® Professional & High Efficiency Series UNIVERSAL VOLTAGE Instant Start electronic fluorescent 3 lamp T8 (normal & low ballast factor) ballasts can be used with 32WT8, 25WT8 & 17WT8 lamps (also U-bent and SS equivalent) in a 3, 2 and 1 lamp configuration when approved combinations are shown in QUICKSYSTEMS section of the Electronic Ballast Technology Applications & Specification Guide. **Be sure to cap off (insulate to 600 volts) with wire connectors any unused leads as shown.** Wire per the ballast schematic and be sure that all leads are wired properly and sockets are shunted as shown (or use shunted sockets).



SYLVANIA 4 Lamp Instant Start Ballast Wired For 4, 3, 2 or 1 Lamp



QUICKTRONIC 4x32

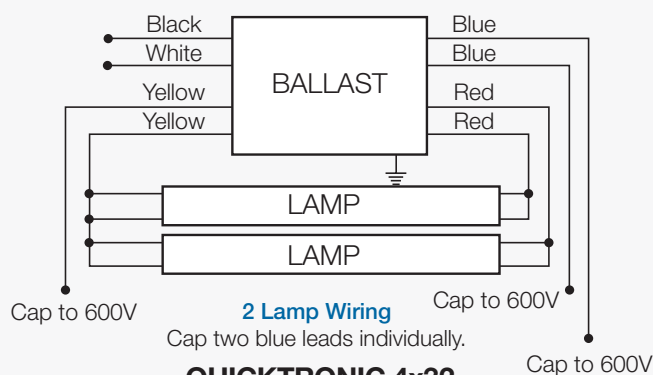


3 Lamp Wiring

Cap any unused blue lead.

Cap to 600V

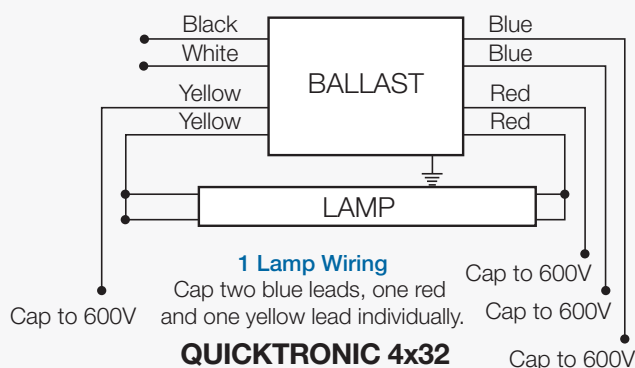
QUICKTRONIC 4x32



2 Lamp Wiring

Cap two blue leads individually.

QUICKTRONIC 4x32



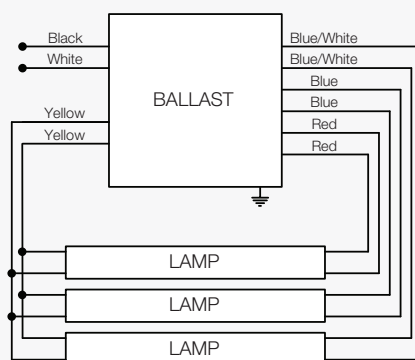
1 Lamp Wiring

Cap two blue leads, one red and one yellow lead individually.

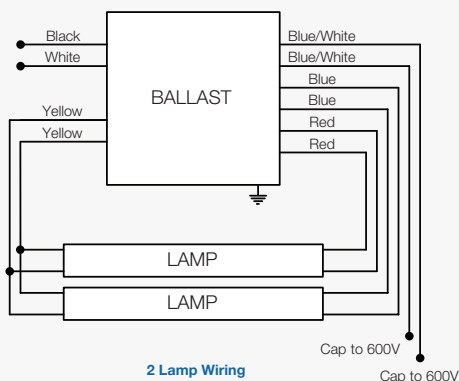
QUICKTRONIC 4x32

SYLVANIA's QUICKTRONIC® Professional & High Efficiency Series UNIVERSAL VOLTAGE Instant Start electronic fluorescent 4 lamp T8 (normal & low ballast factor) ballasts can be used with 32WT8, 25WT8 & 17WT8 lamps (also U-bent and SS equivalent) in a 4, 3, 2 and 1 lamp configuration when approved combinations are shown in QUICKSYSTEMS section of the Electronic Ballast Technology Applications & Specification Guide. **Be sure to cap off (insulate to 600 volts) with wire connectors any unused leads as shown.** Wire per the ballast schematic and be sure that all leads are wired properly and sockets are shunted as shown (or use shunted sockets).

SYLVANIA 3-Lamp PROStart® Ballasts – **Parallel Wiring** Wired For 3, 2 or 1 Lamp

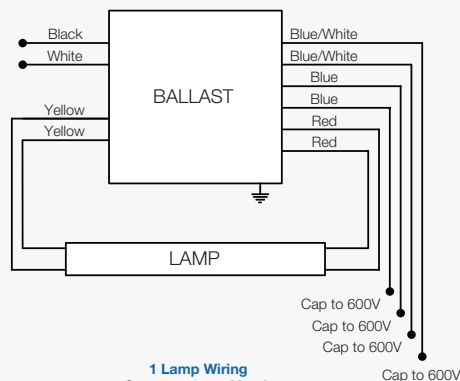


QUICKTRONIC 3x32



2 Lamp Wiring
Cap any unused leads

QUICKTRONIC 3x32



1 Lamp Wiring
Cap any unused leads

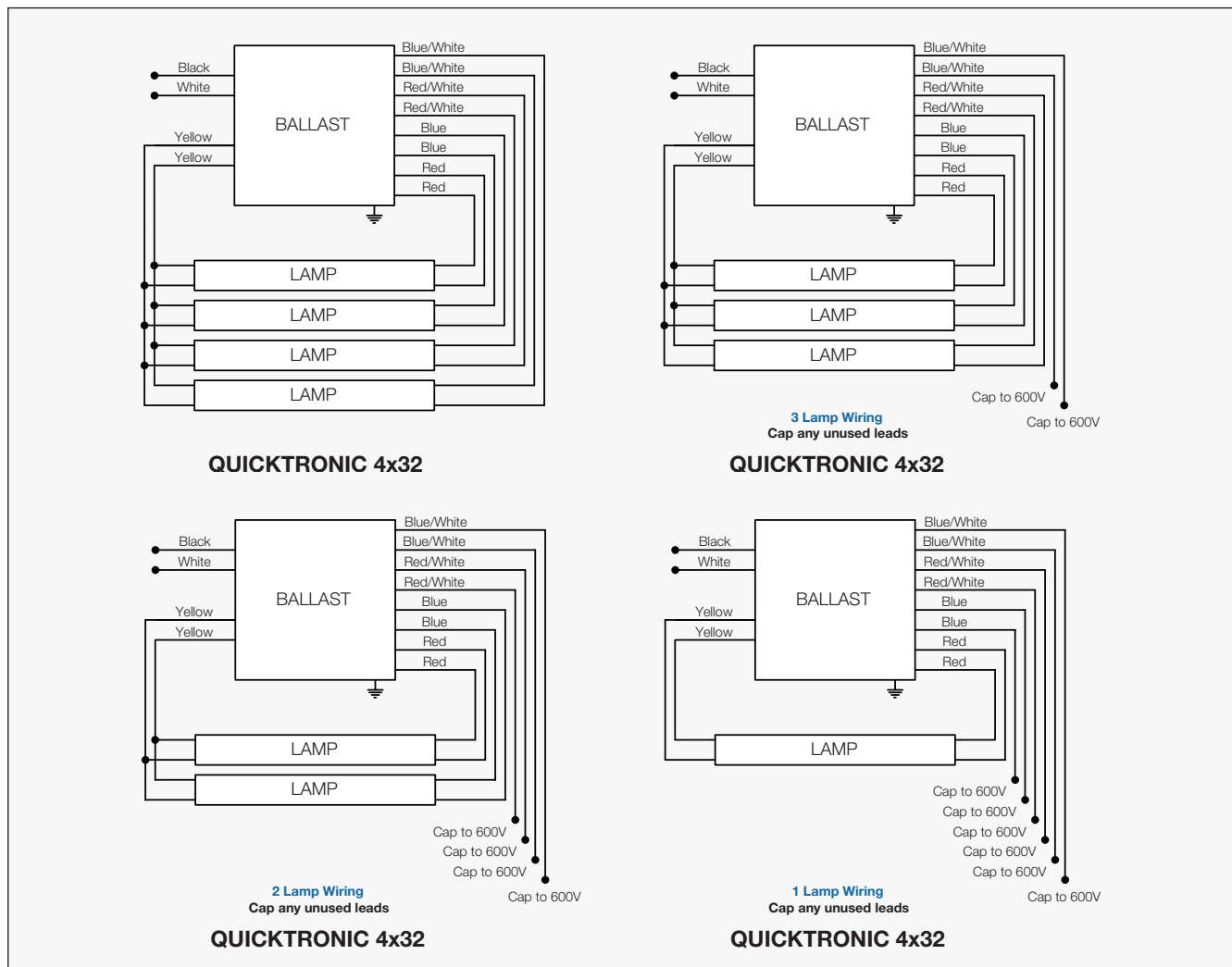
QUICKTRONIC 3x32

SYLVANIA's QUICKTRONIC® **High Efficiency** Series UNIVERSAL VOLTAGE PROStart® PSX & PSN **Parallel Wiring** electronic fluorescent 3-Lamp T8 ballasts can be used with 32WT8, 25WT8 & 17WT8 lamps (also U-bent and SS equivalent) in a 3, 2 and 1 lamp configuration when approved combinations are shown in QUICKSYSTEMS section of the Electronic Ballast Technology Applications & Specification Guide.

Be sure to cap off (insulate to 600 volts) with wire connectors any unused leads as shown. Wire per the ballast schematic and be sure that all leads are wired properly and sockets are RS/PS non-shunted lampholders. These are alternative approved delamping schematics, other schematics shown on specification pages.



SYLVANIA 4-Lamp PROStart® Ballasts – **Parallel Wiring** Wired For 4, 3, 2 or 1 Lamp



SYLVANIA's QUICKTRONIC® High Efficiency Series UNIVERSAL VOLTAGE PROStart® PSX & PSN **Parallel Wiring** electronic fluorescent 4-Lamp T8 ballasts can be used with 32WT8, 25WT8 & 17WT8 lamps (also U-bent and SS equivalent) in a 4, 3, 2 and 1 lamp configuration when approved combinations are shown in QUICKSYSTEMS section of the Electronic Ballast Technology Applications & Specification Guide.

Be sure to cap off (insulate to 600 volts) with wire connectors any unused leads as shown. Wire per the ballast schematic and be sure that all leads are wired properly and sockets are RS/PS non-shunted lampholders. These are alternative approved delamping schematics, other schematics shown on specification pages.

As the industry's leading systems company, OSRAM SYLVANIA offers the most comprehensive data on how QUICKTRONIC® electronic ballasts will perform with various combinations of lamps.

System Performance Guide

Lamp Type	# of Lamps	Lamp Lumens	Ballast Description	Start Type	Lamp Circuit	System Watts	Input Volts	Input Amps	Power Factor	THD	Ballast Factor	System Lumens
F032XV	1	2900	QHE1X32T8/UNV ISL-SC	Instant	Parallel	25	120	0.21	>.98	<10%	0.78	2260
F032XV	1	2900	QHE1X32T8/UNV ISL-SC	Instant	Parallel	25	277	0.09	>.98	<10%	0.78	2260
F032XV	1	2900	QHE1X32T8/UNV ISN-SC	Instant	Parallel	28	120	0.25	>.98	<10%	0.88	2550
F032XV	1	2900	QHE1X32T8/UNV ISN-SC	Instant	Parallel	28	277	0.11	>.98	<10%	0.88	2550
F032XV	1	2900	QHE1X32T8/UNV ISH-SC	Instant	Parallel	38	120	0.32	>.98	<10%	1.20	3480
F032XV	1	2900	QHE1X32T8/UNV ISH-SC	Instant	Parallel	38	277	0.14	>.98	<10%	1.20	3480
F032XV	1	2900	QTP1X32T8/UNV ISN-SC	Instant	Parallel	30	120	0.26	>.98	<10%	0.88	2550
F032XV	1	2900	QTP1X32T8/UNV ISN-SC	Instant	Parallel	30	277	0.11	>.98	<10%	0.88	2550
F032XV	1	2900	QHE2X32T8/UNV ISL-SC	Instant	Parallel	31	120	0.27	>.95	<10%	0.95	2755
F032XV	1	2900	QHE2X32T8/UNV ISL-SC	Instant	Parallel	31	277	0.12	>.95	<10%	0.95	2755
F032XV	1	2900	QHE2X32T8/UNV ISN-SC	Instant	Parallel	34	120	0.27	>.95	<10%	1.05	3045
F032XV	1	2900	QHE2X32T8/UNV ISN-SC	Instant	Parallel	34	277	0.11	>.95	<10%	1.05	3045
F032XV	1	2900	QHE2X32T8/UNV ISM-SC	Instant	Parallel	40	120	0.34	>.98	<10%	1.15	3335
F032XV	1	2900	QHE2X32T8/UNV ISM-SC	Instant	Parallel	40	277	0.15	>.95	<15%	1.15	3335
F032XV	1	2900	QTP2X32T8/UNV ISL-SC	Instant	Parallel	32	120	0.30	>.98	<10%	0.90	2610
F032XV	1	2900	QTP2X32T8/UNV ISL-SC	Instant	Parallel	32	277	0.12	>.97	<10%	0.90	2610
F032XV	1	2900	QTP2X32T8/UNV ISN-SC	Instant	Parallel	36	120	0.30	>.95	<10%	1.04	3015
F032XV	1	2900	QTP2X32T8/UNV ISN-SC	Instant	Parallel	36	277	0.14	>.95	<10%	1.04	3015
F032XV	1	2900	QHE3X32T8/UNV ISL-SC	Instant	Parallel	36	120	0.30	>.98	<15%	1.02	2960
F032XV	1	2900	QHE3X32T8/UNV ISL-SC	Instant	Parallel	36	277	0.13	>.96	<20%	1.02	2960
F032XV	1	2900	QHE3X32T8/UNV ISN-SC	Instant	Parallel	40	120	0.34	>.98	<10%	1.20	3480
F032XV	1	2900	QHE3X32T8/UNV ISN-SC	Instant	Parallel	40	277	0.15	>.92	<15%	1.20	3480
F032XV	1	2900	QTP3X32T8/UNV ISL-SC	Instant	Parallel	37	120	0.29	>.98	<10%	1.03	2985
F032XV	1	2900	QTP3X32T8/UNV ISL-SC	Instant	Parallel	37	277	0.13	>.96	<20%	1.03	2985
F032XV	1	2900	QTP3X32T8/UNV ISN-SC	Instant	Parallel	41	120	0.34	>.95	<15%	1.19	3450
F032XV	1	2900	QTP3X32T8/UNV ISN-SC	Instant	Parallel	41	277	0.15	>.98	<10%	1.19	3450
F032XV	1	2900	QHE4X32T8/UNV ISL-SC	Instant	Parallel	39	120	0.33	>.98	<15%	1.17	3395
F032XV	1	2900	QHE4X32T8/UNV ISL-SC	Instant	Parallel	39	277	0.15	>.93	<20%	1.17	3395
F032XV	1	2900	QTP4X32T8/UNV ISL-SC	Instant	Parallel	38	120	0.31	>.98	<10%	1.06	3075
F032XV	1	2900	QTP4X32T8/UNV ISL-SC	Instant	Parallel	38	277	0.15	>.92	<30%	1.06	3075
F032XV	1	2900	QHE1x32T8/UNV PSN-MC	PROStart®	Parallel	30	120	0.26	>.98	<10%	0.88	2550
F032XV	1	2900	QHE1x32T8/UNV PSN-MC	PROStart	Parallel	29	277	0.11	>.98	<10%	0.88	2550
F032XV	1	2900	QHE2x32T8/UNV PSN-MC	PROStart	Parallel	36	120	0.30	>.98	<10%	1.07	3105
F032XV	1	2900	QHE2x32T8/UNV PSN-MC	PROStart	Parallel	36	277	0.13	>.98	<15%	1.07	3105
F032XV	1	2900	QHE3x32T8/UNV PSN-SC	PROStart	Parallel	39	120	0.33	>.98	<10%	1.14	3295
F032XV	1	2900	QHE3x32T8/UNV PSN-SC	PROStart	Parallel	40	277	0.16	>.95	<15%	1.14	3295
F032XV	1	2900	QHE4x32T8/UNV PSN-SC	PROStart	Parallel	41	120	0.34	>.98	<10%	1.20	3480
F032XV	1	2900	QHE4x32T8/UNV PSN-SC	PROStart	Parallel	41	277	0.16	>.90	<15%	1.20	3480
F032XV	1	2900	QHE1X32T8/UNV PSX-MC	PROStart	Parallel	25	120	0.21	>.98	<10%	0.72	2090
F032XV	1	2900	QHE1X32T8/UNV PSX-MC	PROStart	Parallel	24	277	0.09	>.98	<10%	0.72	2090
F032XV	2	2900	QHE2X32T8/UNV ISL-SC	Instant	Parallel	48	120	0.41	>.98	<10%	0.78	4525
F032XV	2	2900	QHE2X32T8/UNV ISL-SC	Instant	Parallel	48	277	0.18	>.98	<10%	0.78	4525
F032XV	2	2900	QHE2X32T8/UNV ISN-SC	Instant	Parallel	55	120	0.47	>.98	<10%	0.88	5105
F032XV	2	2900	QHE2X32T8/UNV ISN-SC	Instant	Parallel	55	277	0.20	>.98	<10%	0.88	5105
F032XV	2	2900	QHE2x32T8/UNV ISM-SC	Instant	Parallel	63	120	0.54	>.98	<10%	1.00	5800
F032XV	2	2900	QHE2x32T8/UNV ISM-SC	Instant	Parallel	62	277	0.23	>.98	<10%	1.00	5800
F032XV	2	2900	QHE2X32T8/UNV ISH-SC	Instant	Parallel	74	120	0.65	>.98	<10%	1.20	6960
F032XV	2	2900	QHE2X32T8/UNV ISH-SC	Instant	Parallel	73	277	0.28	>.98	<10%	1.20	6960
F032XV	2	2900	QTP2X32T8/UNV ISL-SC	Instant	Parallel	51	120	0.44	>.98	<10%	0.78	4525
F032XV	2	2900	QTP2X32T8/UNV ISL-SC	Instant	Parallel	51	277	0.19	>.98	<10%	0.78	4525
F032XV	2	2900	QTP2X32T8/UNV ISN-SC	Instant	Parallel	59	120	0.50	>.98	<10%	0.88	5105
F032XV	2	2900	QTP2X32T8/UNV ISN-SC	Instant	Parallel	59	277	0.21	>.98	<10%	0.88	5105
F032XV	2	2900	QTP2X32T8/UNV ISH-SC	Instant	Parallel	78	120	0.65	>.98	<10%	1.20	6960
F032XV	2	2900	QTP2X32T8/UNV ISH-SC	Instant	Parallel	78	277	0.28	>.98	<10%	1.20	6960
F032XV	2	2900	QHE3X32T8/UNV ISL-SC	Instant	Parallel	56	120	0.46	>.97	<15%	0.90	5220
F032XV	2	2900	QHE3X32T8/UNV ISL-SC	Instant	Parallel	56	277	0.20	>.97	<15%	0.90	5220
F032XV	2	2900	QHE3X32T8/UNV ISN-SC	Instant	Parallel	63	120	0.50	>.97	<15%	0.99	5740
F032XV	2	2900	QHE3X32T8/UNV ISN-SC	Instant	Parallel	62	277	0.22	>.97	<15%	0.99	5740
F032XV	2	2900	QHE3X32T8/UNV ISM-SC	Instant	Parallel	69	120	0.60	>.98	<10%	1.08	6265
F032XV	2	2900	QHE3X32T8/UNV ISM-SC	Instant	Parallel	69	277	0.25	>.98	<10%	1.08	6265
F032XV	2	2900	QTP3X32T8/UNV ISL-SC	Instant	Parallel	58	120	0.45	>.98	<10%	0.88	5105
F032XV	2	2900	QTP3X32T8/UNV ISL-SC	Instant	Parallel	58	277	0.20	>.98	<10%	0.88	5105
F032XV	2	2900	QTP3X32T8/UNV ISN-SC	Instant	Parallel	66	120	0.55	>.97	<15%	1.02	5915
F032XV	2	2900	QTP3X32T8/UNV ISN-SC	Instant	Parallel	66	277	0.24	>.97	<15%	1.02	5915
F032XV	2	2900	QHE4X32T8/UNV ISL-SC	Instant	Parallel	62	120	0.52	>.98	<10%	0.98	5685
F032XV	2	2900	QHE4X32T8/UNV ISL-SC	Instant	Parallel	62	277	0.23	>.96	<15%	0.98	5685

Note: Data above is listed above for QHE ISL, ISN, & ISH models (for Type CC models add "-1" to the model description). For complete details see product specification pages.



Linear T8 Fluorescent Lamps

QUICKSYSTEMS

System Performance Guide

Lamp Type	# of Lamps	Lamp Lumens	Ballast Description	Start Type	Lamp Circuit	System Watts	Input Volts	Input Amps	Power Factor	THD	Ballast Factor	System Lumens
F032XV	2	2900	QHE4X32T8/UNV ISN-SC	Instant	Parallel	69	120	0.60	>.97	<15%	1.08	6265
F032XV	2	2900	QHE4X32T8/UNV ISN-SC	Instant	Parallel	69	277	0.25	>.98	<15%	1.08	6265
F032XV	2	2900	QHE4X32T8/UNV ISM-SC	Instant	Parallel	74	120	0.62	>.98	<10%	1.16	6730
F032XV	2	2900	QHE4X32T8/UNV ISM-SC	Instant	Parallel	74	277	0.27	>.98	<15%	1.16	6730
F032XV	2	2900	QTP4X32T8/UNV ISL-SC	Instant	Parallel	61	120	0.50	>.98	<10%	0.93	5395
F032XV	2	2900	QTP4X32T8/UNV ISL-SC	Instant	Parallel	61	277	0.23	>.97	<10%	0.93	5395
F032XV	2	2900	QTP4X32T8/UNV ISN-SC	Instant	Parallel	69	120	0.59	>.98	<15%	1.07	6205
F032XV	2	2900	QTP4X32T8/UNV ISN-SC	Instant	Parallel	69	277	0.25	>.98	<15%	1.07	6205
F032XV	2	2900	QHE2X32T8/UNV PSN-MC	PROStart®	Parallel	57	120	0.48	>.98	<10%	0.88	5105
F032XV	2	2900	QHE2X32T8/UNV PSN-MC	PROStart	Parallel	55	277	0.21	>.98	<10%	0.88	5105
F032XV	2	2900	QHE3X32T8/UNV PSN-SC	PROStart	Parallel	65	120	0.54	>.98	<10%	0.98	5685
F032XV	2	2900	QHE3X32T8/UNV PSN-SC	PROStart	Parallel	64	277	0.24	>.98	<10%	0.98	5685
F032XV	2	2900	QHE4X32T8/UNV PSN-SC	PROStart	Parallel	68	120	0.57	>.98	<10%	1.06	6150
F032XV	2	2900	QHE4X32T8/UNV PSN-SC	PROStart	Parallel	67	277	0.25	>.95	<15%	1.06	6150
F032XV	2	2900	QHE2X32T8/UNV PSH-HT	PROStart	Parallel	72	120	0.60	>.98	<10%	1.15	6670
F032XV	2	2900	QHE2X32T8/UNV PSH-HT	PROStart	Parallel	70	277	0.27	>.98	<10%	1.15	6670
F032XV	2	2900	QHE2X32T8/UNV PSX-MC	PROStart	Parallel	48	120	0.40	>.98	<10%	0.72	4175
F032XV	2	2900	QHE2X32T8/UNV PSX-MC	PROStart	Parallel	47	277	0.17	>.98	<10%	0.72	4175
F032XV	3	2900	QHE3X32T8/UNV ISL-SC	Instant	Parallel	73	120	0.61	>.98	<10%	0.78	6785
F032XV	3	2900	QHE3X32T8/UNV ISL-SC	Instant	Parallel	72	277	0.27	>.98	<10%	0.78	6785
F032XV	3	2900	QHE3X32T8/UNV ISN-SC	Instant	Parallel	83	120	0.69	>.98	<10%	0.88	7655
F032XV	3	2900	QHE3X32T8/UNV ISN-SC	Instant	Parallel	82	277	0.30	>.98	<10%	0.88	7655
F032XV	3	2900	QHE3X32T8/UNV ISM-SC	Instant	Parallel	90	120	0.76	>.98	<10%	0.98	8525
F032XV	3	2900	QHE3X32T8/UNV ISM-SC	Instant	Parallel	89	277	0.40	>.98	<10%	0.98	8525
F032XV	3	2900	QHE3X32T8/UNV ISH-SC	Instant	Parallel	111	120	0.93	>.98	<10%	1.18	10265
F032XV	3	2900	QHE3X32T8/UNV ISH-SC	Instant	Parallel	109	277	0.40	>.98	<10%	1.18	10265
F032XV	3	2900	QTP3X32T8/UNV ISL-SC	Instant	Parallel	75	120	0.65	>.98	<10%	0.78	6785
F032XV	3	2900	QTP3X32T8/UNV ISL-SC	Instant	Parallel	75	277	0.27	>.98	<10%	0.78	6785
F032XV	3	2900	QTP3X32T8/UNV ISN-SC	Instant	Parallel	86	120	0.72	>.98	<10%	0.88	7655
F032XV	3	2900	QTP3X32T8/UNV ISN-SC	Instant	Parallel	86	277	0.31	>.98	<10%	0.88	7655
F032XV	3	2900	QTP3X32T8/UNV ISH-SC	Instant	Parallel	114	120	0.95	>.98	<10%	1.18	10265
F032XV	3	2900	QTP3X32T8/UNV ISH-SC	Instant	Parallel	111	277	0.41	>.98	<10%	1.18	10265
F032XV	3	2900	QHE4X32T8/UNV ISL-SC	Instant	Parallel	80	120	0.68	>.98	<10%	0.85	7395
F032XV	3	2900	QHE4X32T8/UNV ISL-SC	Instant	Parallel	80	277	0.28	>.98	<10%	0.85	7395
F032XV	3	2900	QHE4X32T8/UNV ISN-SC	Instant	Parallel	89	120	0.71	>.98	<15%	0.96	8350
F032XV	3	2900	QHE4X32T8/UNV ISN-SC	Instant	Parallel	89	277	0.31	>.98	<15%	0.96	8350
F032XV	3	2900	QHE4X32T8/UNV ISM-SC	Instant	Parallel	100	120	0.84	>.98	<10%	1.05	9135
F032XV	3	2900	QHE4X32T8/UNV ISM-SC	Instant	Parallel	99	277	0.36	>.98	<10%	1.05	9135
F032XV	3	2900	QTP4X32T8/UNV ISL-SC	Instant	Parallel	80	120	0.66	>.98	<10%	0.84	7310
F032XV	3	2900	QTP4X32T8/UNV ISL-SC	Instant	Parallel	80	277	0.29	>.97	<10%	0.84	7310
F032XV	3	2900	QTP4X32T8/UNV ISN-SC	Instant	Parallel	92	120	0.77	>.98	<15%	0.96	8350
F032XV	3	2900	QTP4X32T8/UNV ISN-SC	Instant	Parallel	92	277	0.33	>.98	<15%	0.96	8350
F032XV	3	2900	QHE3X32T8/UNV PSN-SC	PROStart	Parallel	83	120	0.69	>.98	<10%	0.88	7655
F032XV	3	2900	QHE3X32T8/UNV PSN-SC	PROStart	Parallel	82	277	0.29	>.98	<10%	0.88	7655
F032XV	3	2900	QHE4X32T8/UNV PSN-SC	PROStart	Parallel	91	120	0.77	>.98	<10%	0.96	8350
F032XV	3	2900	QHE4X32T8/UNV PSN-SC	PROStart	Parallel	89	277	0.33	>.98	<10%	0.96	8350
F032XV	3	2900	QHE3X32T8/UNV PSH-HT	PROStart	Parallel	110	120	0.94	>.98	<10%	1.15	10005
F032XV	3	2900	QHE3X32T8/UNV PSH-HT	PROStart	Parallel	108	277	0.40	>.98	<10%	1.15	10005
F032XV	3	2900	QHE3X32T8/UNV PSX-SC	PROStart	Parallel	69	120	0.58	>.98	<10%	0.71	6175
F032XV	3	2900	QHE3X32T8/UNV PSX-SC	PROStart	Parallel	67	277	0.25	>.98	<10%	0.71	6175
F032XV	4	2900	QHE4X32T8/UNV ISL-SC	Instant	Parallel	95	120	0.80	>.98	<10%	0.78	9050
F032XV	4	2900	QHE4X32T8/UNV ISL-SC	Instant	Parallel	95	277	0.35	>.98	<10%	0.78	9050
F032XV	4	2900	QHE4X32T8/UNV ISN-SC	Instant	Parallel	108	120	0.91	>.98	<10%	0.88	10210
F032XV	4	2900	QHE4X32T8/UNV ISN-SC	Instant	Parallel	107	277	0.39	>.98	<10%	0.88	10210
F032XV	4	2900	QHE4X32T8/UNV ISM-SC	Instant	Parallel	122	120	1.02	>.98	<10%	0.98	11370
F032XV	4	2900	QHE4X32T8/UNV ISM-SC	Instant	Parallel	120	277	0.44	>.98	<10%	0.98	11370
F032XV	4	2900	QHE4X32T8/UNV ISH	Instant	Parallel	144	120	1.21	>.98	<10%	1.15	13340
F032XV	4	2900	QHE4X32T8/UNV ISH	Instant	Parallel	141	277	0.52	>.98	<10%	1.15	13340
F032XV	4	2900	QTP4X32T8/UNV ISL-SC	Instant	Parallel	98	120	0.80	>.98	<10%	0.78	9050
F032XV	4	2900	QTP4X32T8/UNV ISL-SC	Instant	Parallel	98	277	0.35	>.98	<10%	0.78	9050
F032XV	4	2900	QTP4X32T8/UNV ISN-SC	Instant	Parallel	112	120	0.95	>.98	<10%	0.88	10210
F032XV	4	2900	QTP4X32T8/UNV ISN-SC	Instant	Parallel	112	277	0.40	>.98	<10%	0.88	10210
F032XV	4	2900	QHE4X32T8/UNV PSN-SC	PROStart	Parallel	111	120	0.93	>.98	<10%	0.88	10210
F032XV	4	2900	QHE4X32T8/UNV PSN-SC	PROStart	Parallel	108	277	0.39	>.98	<10%	0.88	10210
F032XV	4	2900	QHE4X32T8/UNV PSH-HT	PROStart	Parallel	143	120	1.22	>.98	<10%	1.15	13340
F032XV	4	2900	QHE4X32T8/UNV PSH-HT	PROStart	Parallel	141	277	0.53	>.98	<10%	1.15	13340
F032XV	4	2900	QHE4X32T8/UNV PSX-SC	PROStart	Parallel	90	120	0.76	>.98	<10%	0.71	8235
F032XV	4	2900	QHE4X32T8/UNV PSX-SC	PROStart	Parallel	89	277	0.32	>.98	<10%	0.71	8235

Note: Data above is listed above for QHE ISL, ISN, & ISH models (for Type CC models add "-1" to the model description). For complete details see product specification pages.

F030/XV/SS

QUICKSYSTEMS

Linear T8 Fluorescent Lamps

As the industry's leading systems company, OSRAM SYLVANIA offers the most comprehensive data on how QUICKTRONIC® electronic ballasts will perform with various combinations of lamps.

System Performance Guide

Lamp Type	# of Lamps	Lamp Lumens	Ballast Description	Start Type	Lamp Circuit	System Watts	Input Volts	Input Amps	Power Factor	THD	Ballast Factor	System Lumens
F030/XV/SS	1	2750	QHE1X32T8/UNV ISL-SC	Instant	Parallel	24	120	0.20	>.98	<10%	0.78	2145
F030/XV/SS	1	2750	QHE1X32T8/UNV ISL-SC	Instant	Parallel	24	277	0.09	>.98	<10%	0.78	2145
F030/XV/SS	1	2750	QHE1X32T8/UNV ISN-SC	Instant	Parallel	26	120	0.22	>.98	<10%	0.88	2420
F030/XV/SS	1	2750	QHE1X32T8/UNV ISN-SC	Instant	Parallel	26	277	0.09	>.98	<10%	0.88	2420
F030/XV/SS	1	2750	QHE1X32T8/UNV ISH-SC	Instant	Parallel	36	120	0.30	>.98	<10%	1.20	3300
F030/XV/SS	1	2750	QHE1X32T8/UNV ISH-SC	Instant	Parallel	36	277	0.13	>.96	<15%	1.20	3300
F030/XV/SS	1	2750	QTP1X32T8/UNV ISN-SC	Instant	Parallel	28	120	0.25	>.98	<10%	0.88	2420
F030/XV/SS	1	2750	QTP1X32T8/UNV ISN-SC	Instant	Parallel	28	277	0.11	>.98	<10%	0.88	2420
F030/XV/SS	1	2750	QHE2X32T8/UNV ISL-SC	Instant	Parallel	29	120	0.25	>.98	<10%	0.95	2615
F030/XV/SS	1	2750	QHE2X32T8/UNV ISL-SC	Instant	Parallel	29	277	0.10	>.98	<15%	0.95	2615
F030/XV/SS	1	2750	QHE2X32T8/UNV ISN-SC	Instant	Parallel	32	120	0.26	>.98	<10%	1.05	2890
F030/XV/SS	1	2750	QHE2X32T8/UNV ISN-SC	Instant	Parallel	32	277	0.11	>.98	<15%	1.05	2890
F030/XV/SS	1	2750	QHE2X32T8/UNV ISM-SC	Instant	Parallel	37	120	0.31	>.95	<10%	1.15	3165
F030/XV/SS	1	2750	QHE2X32T8/UNV ISM-SC	Instant	Parallel	37	277	0.15	>.85	<15%	1.15	3165
F030/XV/SS	1	2750	QTP2X32T8/UNV ISL-SC	Instant	Parallel	31	120	0.26	>.98	<10%	0.90	2475
F030/XV/SS	1	2750	QTP2X32T8/UNV ISL-SC	Instant	Parallel	31	277	0.12	>.96	<15%	0.90	2475
F030/XV/SS	1	2750	QTP2X32T8/UNV ISN-SC	Instant	Parallel	34	120	0.28	>.98	<10%	1.04	2860
F030/XV/SS	1	2750	QTP2X32T8/UNV ISN-SC	Instant	Parallel	34	277	0.13	>.98	<15%	1.04	2860
F030/XV/SS	1	2750	QHE3X32T8/UNV ISL-SC	Instant	Parallel	33	120	0.28	>.98	<15%	1.02	2805
F030/XV/SS	1	2750	QHE3X32T8/UNV ISL-SC	Instant	Parallel	34	277	0.13	>.95	<20%	1.02	2805
F030/XV/SS	1	2750	QHE3X32T8/UNV ISN-SC	Instant	Parallel	37	120	0.31	>.95	<10%	1.20	3300
F030/XV/SS	1	2750	QHE3X32T8/UNV ISN-SC	Instant	Parallel	37	277	0.15	>.86	<15%	1.20	3300
F030/XV/SS	1	2750	QTP3X32T8/UNV ISL-SC	Instant	Parallel	35	120	0.27	>.98	<10%	1.03	2835
F030/XV/SS	1	2750	QTP3X32T8/UNV ISL-SC	Instant	Parallel	35	277	0.13	>.92	<25%	1.03	2835
F030/XV/SS	1	2750	QTP3X32T8/UNV ISN-SC	Instant	Parallel	38	120	0.31	>.98	<10%	1.19	3275
F030/XV/SS	1	2750	QTP3X32T8/UNV ISN-SC	Instant	Parallel	38	277	0.14	>.96	<15%	1.19	3275
F030/XV/SS	1	2750	QHE4X32T8/UNV ISL-SC	Instant	Parallel	35	120	0.29	>.98	<15%	1.17	3220
F030/XV/SS	1	2750	QHE4X32T8/UNV ISL-SC	Instant	Parallel	36	277	0.14	>.93	<20%	1.17	3220
F030/XV/SS	1	2750	QTP4X32T8/UNV ISL-SC	Instant	Parallel	35	120	0.29	>.98	<10%	1.06	2915
F030/XV/SS	1	2750	QTP4X32T8/UNV ISL-SC	Instant	Parallel	35	277	0.14	>.91	<25%	1.06	2915
F030/XV/SS	1	2750	QHE1x32T8/UNV PSN-MC	PROStart®	Parallel	28	120	0.24	>.98	<10%	0.88	2420
F030/XV/SS	1	2750	QHE1x32T8/UNV PSN-MC	PROStart	Parallel	26	277	0.10	>.98	<10%	0.88	2420
F030/XV/SS	1	2750	QHE2x32T8/UNV PSN-MC	PROStart	Parallel	34	120	0.29	>.98	<10%	1.07	2955
F030/XV/SS	1	2750	QHE2x32T8/UNV PSN-MC	PROStart	Parallel	34	277	0.13	>.98	<15%	1.07	2955
F030/XV/SS	1	2750	QHE3x32T8/UNV PSN-SC	PROStart	Parallel	38	120	0.32	>.98	<10%	1.13	3115
F030/XV/SS	1	2750	QHE3x32T8/UNV PSN-SC	PROStart	Parallel	38	277	0.15	>.95	<15%	1.13	3115
F030/XV/SS	1	2750	QHE1X32T8/UNV PSX-MC	PROStart	Parallel	23	120	0.21	>.98	<10%	0.72	1980
F030/XV/SS	1	2750	QHE1X32T8/UNV PSX-MC	PROStart	Parallel	23	277	0.09	>.98	<10%	0.72	1980
F030/XV/SS	2	2750	QHE2X32T8/UNV ISL-SC	Instant	Parallel	45	120	0.38	>.98	<10%	0.78	4290
F030/XV/SS	2	2750	QHE1x32T8/UNV ISL-SC	Instant	Parallel	45	277	0.16	>.98	<10%	0.78	4290
F030/XV/SS	2	2750	QHE2X32T8/UNV ISN-SC	Instant	Parallel	52	120	0.44	>.98	<10%	0.88	4840
F030/XV/SS	2	2750	QHE2X32T8/UNV ISN-SC	Instant	Parallel	52	277	0.19	>.98	<10%	0.88	4840
F030/XV/SS	2	2750	QHE2x32T8/UNV ISM-SC	Instant	Parallel	58	120	0.49	>.98	<10%	1.00	5500
F030/XV/SS	2	2750	QHE2x32T8/UNV ISM-SC	Instant	Parallel	58	277	0.21	>.98	<10%	1.00	5500
F030/XV/SS	2	2750	QHE2X32T8/UNV ISH-SC	Instant	Parallel	70	120	0.59	>.98	<10%	1.20	6600
F030/XV/SS	2	2750	QHE2X32T8/UNV ISH-SC	Instant	Parallel	69	277	0.25	>.98	<15%	1.20	6600
F030/XV/SS	2	2750	QTP2X32T8/UNV ISL-SC	Instant	Parallel	48	120	0.41	>.98	<10%	0.78	4290
F030/XV/SS	2	2750	QTP2X32T8/UNV ISL-SC	Instant	Parallel	48	277	0.18	>.98	<10%	0.78	4290
F030/XV/SS	2	2750	QTP2X32T8/UNV ISN-SC	Instant	Parallel	55	120	0.46	>.98	<10%	0.88	4840
F030/XV/SS	2	2750	QTP2X32T8/UNV ISN-SC	Instant	Parallel	55	277	0.20	>.98	<10%	0.88	4840
F030/XV/SS	2	2750	QTP2X32T8/UNV ISH-SC	Instant	Parallel	73	120	0.61	>.98	<10%	1.20	6600
F030/XV/SS	2	2750	QTP2X32T8/UNV ISH-SC	Instant	Parallel	73	277	0.26	>.98	<10%	1.20	6600
F030/XV/SS	2	2750	QHE3X32T8/UNV ISL-SC	Instant	Parallel	53	120	0.43	>.98	<10%	0.90	4950
F030/XV/SS	2	2750	QHE3X32T8/UNV ISL-SC	Instant	Parallel	53	277	0.19	>.97	<15%	0.90	4950
F030/XV/SS	2	2750	QHE3X32T8/UNV ISN-SC	Instant	Parallel	60	120	0.47	>.98	<10%	0.99	5445
F030/XV/SS	2	2750	QHE3X32T8/UNV ISN-SC	Instant	Parallel	59	277	0.20	>.98	<15%	0.99	5445
F030/XV/SS	2	2750	QHE3X32T8/UNV ISM-SC	Instant	Parallel	65	120	0.54	>.98	<10%	1.08	5940
F030/XV/SS	2	2750	QHE3X32T8/UNV ISM-SC	Instant	Parallel	65	277	0.24	>.98	<15%	1.08	5940
F030/XV/SS	2	2750	QTP3X32T8/UNV ISL-SC	Instant	Parallel	55	120	0.43	>.98	<10%	0.88	4840
F030/XV/SS	2	2750	QTP3X32T8/UNV ISL-SC	Instant	Parallel	55	277	0.19	>.98	<10%	0.88	4840
F030/XV/SS	2	2750	QTP3X32T8/UNV ISN-SC	Instant	Parallel	62	120	0.52	>.98	<10%	0.99	5445
F030/XV/SS	2	2750	QTP3X32T8/UNV ISN-SC	Instant	Parallel	62	277	0.23	>.97	<15%	0.99	5445
F030/XV/SS	2	2750	QHE4X32T8/UNV ISL-SC	Instant	Parallel	57	120	0.47	>.98	<10%	0.98	5390
F030/XV/SS	2	2750	QHE4X32T8/UNV ISL-SC	Instant	Parallel	57	277	0.21	>.95	<20%	0.98	5390

Note: Data above is listed above for QHE ISL, ISN, & ISH models (for Type CC models add "-1" to the model description). For complete details see product specification pages.



Linear T8 Fluorescent Lamps

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System Performance Guide

Lamp Type	# of Lamps	Lamp Lumens	Ballast Description	Start Type	Lamp Circuit	System Watts	Input Volts	Input Amps	Power Factor	THD	Ballast Factor	System Lumens
F030/XV/SS	2	2750	QHE4X32T8/UNV ISN-SC	Instant	Parallel	65	120	0.54	>.98	<10%	1.08	5940
F030/XV/SS	2	2750	QHE4X32T8/UNV ISN-SC	Instant	Parallel	65	277	0.24	>.96	<15%	1.08	5940
F030/XV/SS	2	2750	QHE4X32T8/UNV ISM-SC	Instant	Parallel	69	120	0.58	>.98	<10%	1.13	6215
F030/XV/SS	2	2750	QHE4X32T8/UNV ISM-SC	Instant	Parallel	70	277	0.26	>.95	<15%	1.13	6215
F030/XV/SS	2	2750	QTP4X32T8/UNV ISL-SC	Instant	Parallel	57	120	0.47	>.98	<10%	0.93	5115
F030/XV/SS	2	2750	QTP4X32T8/UNV ISL-SC	Instant	Parallel	57	277	0.21	>.96	<15%	0.93	5115
F030/XV/SS	2	2750	QTP4X32T8/UNV ISN-SC	Instant	Parallel	65	120	0.59	>.98	<15%	1.07	5885
F030/XV/SS	2	2750	QTP4X32T8/UNV ISN-SC	Instant	Parallel	65	277	0.25	>.98	<15%	1.07	5885
F030/XV/SS	2	2750	QHE2X32T8/UNV PSN-MC	PROStart®	Parallel	55	120	0.46	>.98	<10%	0.88	4840
F030/XV/SS	2	2750	QHE2X32T8/UNV PSN-MC	PROStart	Parallel	53	277	0.20	>.98	<10%	0.88	4840
F030/XV/SS	2	2750	QHE3X32T8/UNV PSN-SC	PROStart	Parallel	61	120	0.51	>.98	<10%	0.98	5405
F030/XV/SS	2	2750	QHE3X32T8/UNV PSN-SC	PROStart	Parallel	60	277	0.22	>.98	<10%	0.98	5405
F030/XV/SS	2	2750	QHE4X32T8/UNV PSN-SC	PROStart	Parallel	65	120	0.54	>.98	<10%	1.06	5835
F030/XV/SS	2	2750	QHE4X32T8/UNV PSN-SC	PROStart	Parallel	65	277	0.24	>.95	<15%	1.06	5835
F030/XV/SS	2	2750	QHE2X32T8/UNV PSH-HT	PROStart	Parallel	69	120	0.57	>.98	<10%	1.15	6325
F030/XV/SS	2	2750	QHE2X32T8/UNV PSH-HT	PROStart	Parallel	67	277	0.25	>.98	<10%	1.15	6325
F030/XV/SS	2	2750	QHE2X32T8/UNV PSX-MC	PROStart	Parallel	45	120	0.40	>.98	<10%	0.72	3960
F030/XV/SS	2	2750	QHE2X32T8/UNV PSX-MC	PROStart	Parallel	43	277	0.17	>.98	<10%	0.72	3960
F030/XV/SS	3	2750	QHE3X32T8/UNV ISL-SC	Instant	Parallel	68	120	0.58	>.98	<10%	0.78	6435
F030/XV/SS	3	2750	QHE3X32T8/UNV ISL-SC	Instant	Parallel	68	277	0.25	>.98	<10%	0.78	6435
F030/XV/SS	3	2750	QHE3X32T8/UNV ISN-SC	Instant	Parallel	78	120	0.66	>.98	<10%	0.88	7260
F030/XV/SS	3	2750	QHE3X32T8/UNV ISN-SC	Instant	Parallel	77	277	0.28	>.98	<10%	0.88	7260
F030/XV/SS	3	2750	QHE3X32T8/UNV ISM-SC	Instant	Parallel	83	120	0.67	>.98	<10%	0.98	8085
F030/XV/SS	3	2750	QHE3X32T8/UNV ISM-SC	Instant	Parallel	83	277	0.30	>.98	<10%	0.98	8085
F030/XV/SS	3	2750	QHE3X32T8/UNV ISH-SC	Instant	Parallel	104	120	0.87	>.98	<10%	1.18	9735
F030/XV/SS	3	2750	QHE3X32T8/UNV ISH-SC	Instant	Parallel	103	277	0.38	>.98	<10%	1.18	9735
F030/XV/SS	3	2750	QTP3X32T8/UNV ISL-SC	Instant	Parallel	71	120	0.60	>.98	<10%	0.78	6435
F030/XV/SS	3	2750	QTP3X32T8/UNV ISL-SC	Instant	Parallel	71	277	0.26	>.98	<10%	0.78	6435
F030/XV/SS	3	2750	QTP3X32T8/UNV ISN-SC	Instant	Parallel	81	120	0.69	>.98	<10%	0.88	7260
F030/XV/SS	3	2750	QTP3X32T8/UNV ISN-SC	Instant	Parallel	81	277	0.30	>.98	<10%	0.88	7260
F030/XV/SS	3	2750	QTP3X32T8/UNV ISH-SC	Instant	Parallel	107	120	0.89	>.98	<10%	1.18	9735
F030/XV/SS	3	2750	QTP3X32T8/UNV ISH-SC	Instant	Parallel	104	277	0.39	>.98	<10%	1.18	9735
F030/XV/SS	3	2750	QHE4X32T8/UNV ISL-SC	Instant	Parallel	75	120	0.64	>.98	<10%	0.85	7015
F030/XV/SS	3	2750	QHE4X32T8/UNV ISL-SC	Instant	Parallel	74	277	0.26	>.98	<15%	0.85	7015
F030/XV/SS	3	2750	QHE4X32T8/UNV ISN-SC	Instant	Parallel	85	120	0.67	>.98	<10%	0.96	7920
F030/XV/SS	3	2750	QHE4X32T8/UNV ISN-SC	Instant	Parallel	84	277	0.29	>.98	<15%	0.96	7920
F030/XV/SS	3	2750	QHE4X32T8/UNV ISM-SC	Instant	Parallel	93	120	0.78	>.98	<10%	1.04	8580
F030/XV/SS	3	2750	QHE4X32T8/UNV ISM-SC	Instant	Parallel	93	277	0.34	>.98	<10%	1.04	8580
F030/XV/SS	3	2750	QTP4X32T8/UNV ISL-SC	Instant	Parallel	75	120	0.62	>.98	<10%	0.84	6930
F030/XV/SS	3	2750	QTP4X32T8/UNV ISL-SC	Instant	Parallel	75	277	0.27	>.97	<10%	0.84	6930
F030/XV/SS	3	2750	QTP4X32T8/UNV ISN-SC	Instant	Parallel	86	120	0.74	>.98	<10%	0.96	7920
F030/XV/SS	3	2750	QTP4X32T8/UNV ISN-SC	Instant	Parallel	86	277	0.32	>.98	<15%	0.96	7920
F030/XV/SS	3	2750	QHE3X32T8/UNV PSN-SC	PROStart	Parallel	80	120	0.68	>.98	<10%	0.88	7260
F030/XV/SS	3	2750	QHE3X32T8/UNV PSN-SC	PROStart	Parallel	78	277	0.28	>.98	<10%	0.88	7260
F030/XV/SS	3	2750	QHE4X32T8/UNV PSN-SC	PROStart	Parallel	87	120	0.73	>.98	<15%	0.96	7940
F030/XV/SS	3	2750	QHE4X32T8/UNV PSN-SC	PROStart	Parallel	85	277	0.31	>.98	<10%	0.96	7940
F030/XV/SS	3	2750	QHE3X32T8/UNV PSH-HT	PROStart	Parallel	104	120	0.88	>.98	<10%	1.15	9490
F030/XV/SS	3	2750	QHE3X32T8/UNV PSH-HT	PROStart	Parallel	101	277	0.37	>.98	<10%	1.15	9490
F030/XV/SS	3	2750	QHE3X32T8/UNV PSX-SC	PROStart	Parallel	65	120	0.54	>.98	<10%	0.71	5860
F030/XV/SS	3	2750	QHE3X32T8/UNV PSX-SC	PROStart	Parallel	63	277	0.23	>.98	<10%	0.71	5860
F030/XV/SS	4	2750	QHE4X32T8/UNV ISL-SC	Instant	Parallel	89	120	0.75	>.98	<10%	0.78	8580
F030/XV/SS	4	2750	QHE4X32T8/UNV ISL-SC	Instant	Parallel	89	277	0.32	>.98	<10%	0.78	8580
F030/XV/SS	4	2750	QHE4X32T8/UNV ISN-SC	Instant	Parallel	102	120	0.86	>.98	<10%	0.88	9680
F030/XV/SS	4	2750	QHE4X32T8/UNV ISN-SC	Instant	Parallel	101	277	0.37	>.98	<10%	0.88	9680
F030/XV/SS	4	2750	QHE4X32T8/UNV ISM-SC	Instant	Parallel	114	120	0.95	>.98	<10%	0.98	10780
F030/XV/SS	4	2750	QHE4X32T8/UNV ISM-SC	Instant	Parallel	112	277	0.41	>.98	<10%	0.98	10780
F030/XV/SS	4	2750	QHE4X32T8/UNV ISH	Instant	Parallel	135	120	1.13	>.98	<10%	1.15	12650
F030/XV/SS	4	2750	QHE4X32T8/UNV ISH	Instant	Parallel	133	277	0.49	>.98	<10%	1.15	12650
F030/XV/SS	4	2750	QTP4X32T8/UNV ISL-SC	Instant	Parallel	92	120	0.78	>.98	<10%	0.78	8580
F030/XV/SS	4	2750	QTP4X32T8/UNV ISL-SC	Instant	Parallel	92	277	0.34	>.98	<10%	0.78	8580
F030/XV/SS	4	2750	QTP4X32T8/UNV ISN-SC	Instant	Parallel	105	120	0.91	>.98	<10%	0.88	9680
F030/XV/SS	4	2750	QTP4X32T8/UNV ISN-SC	Instant	Parallel	105	277	0.39	>.98	<10%	0.88	9680
F030/XV/SS	4	2750	QHE4X32T8/UNV PSN-SC	PROStart	Parallel	105	120	0.89	>.98	<10%	0.88	9680
F030/XV/SS	4	2750	QHE4X32T8/UNV PSN-SC	PROStart	Parallel	103	277	0.38	>.98	<10%	0.88	9680
F030/XV/SS	4	2750	QHE4X32T8/UNV PSH-HT	PROStart	Parallel	132	120	1.13	>.98	<10%	1.15	12650
F030/XV/SS	4	2750	QHE4X32T8/UNV PSH-HT	PROStart	Parallel	130	277	0.49	>.98	<10%	1.15	12650
F030/XV/SS	4	2750	QHE4X32T8/UNV PSX-SC	PROStart	Parallel	86	120	0.72	>.98	<10%	0.71	7810
F030/XV/SS	4	2750	QHE4X32T8/UNV PSX-SC	PROStart	Parallel	84	277	0.32	>.98	<10%	0.71	7810

Note: Data above is listed above for QHE ISL, ISN, & ISH models (for Type CC models add "-1" to the model description). For complete details see product specification pages.

F028/XV/SS

QUICKSYSTEMS

Linear T8 Fluorescent Lamps

As the industry's leading systems company, OSRAM SYLVANIA offers the most comprehensive data on how QUICKTRONIC® electronic ballasts will perform with various combinations of lamps.

System Performance Guide

Lamp Type	# of Lamps	Lamp Lumens	Ballast Description	Start Type	Lamp Circuit	System Watts	Input Volts	Input Amps	Power Factor	THD	Ballast Factor	System Lumens
F028/XV/SS	1	2600	QHE1X32T8/UNV ISL-SC	Instant	Parallel	22	120	0.19	>.98	<10%	0.78	2030
F028/XV/SS	1	2600	QHE1X32T8/UNV ISL-SC	Instant	Parallel	22	277	0.08	>.98	<10%	0.78	2030
F028/XV/SS	1	2600	QHE1X32T8/UNV ISN-SC	Instant	Parallel	25	120	0.21	>.98	<10%	0.88	2290
F028/XV/SS	1	2600	QHE1X32T8/UNV ISN-SC	Instant	Parallel	25	277	0.09	>.98	<10%	0.88	2290
F028/XV/SS	1	2600	QHE1X32T8/UNV ISH-SC	Instant	Parallel	33	120	0.27	>.98	<10%	1.20	3120
F028/XV/SS	1	2600	QHE1X32T8/UNV ISH-SC	Instant	Parallel	33	277	0.12	>.95	<15%	1.20	3120
F028/XV/SS	1	2600	QTP1X32T8/UNV ISN-SC	Instant	Parallel	26	120	0.23	>.98	<10%	0.88	2290
F028/XV/SS	1	2600	QTP1X32T8/UNV ISN-SC	Instant	Parallel	26	277	0.10	>.98	<10%	0.88	2290
F028/XV/SS	1	2600	QHE2X32T8/UNV ISL-SC	Instant	Parallel	27	120	0.23	>.98	<10%	0.95	2470
F028/XV/SS	1	2600	QHE2X32T8/UNV ISL-SC	Instant	Parallel	27	277	0.10	>.98	<15%	0.95	2470
F028/XV/SS	1	2600	QHE2X32T8/UNV ISN-SC	Instant	Parallel	30	120	0.25	>.98	<10%	1.05	2730
F028/XV/SS	1	2600	QHE2X32T8/UNV ISN-SC	Instant	Parallel	30	277	0.11	>.98	<15%	1.05	2730
F028/XV/SS	1	2600	QHE2X32T8/UNV ISM-SC	Instant	Parallel	34	120	0.29	>.98	<10%	1.15	2990
F028/XV/SS	1	2600	QHE2X32T8/UNV ISM-SC	Instant	Parallel	34	277	0.13	>.95	<15%	1.15	2990
F028/XV/SS	1	2600	QTP2X32T8/UNV ISL-SC	Instant	Parallel	28	120	0.23	>.98	<10%	0.90	2340
F028/XV/SS	1	2600	QTP2X32T8/UNV ISL-SC	Instant	Parallel	29	277	0.11	>.96	<15%	0.90	2340
F028/XV/SS	1	2600	QTP2X32T8/UNV ISN-SC	Instant	Parallel	32	120	0.27	>.98	<10%	1.04	2705
F028/XV/SS	1	2600	QTP2X32T8/UNV ISN-SC	Instant	Parallel	32	277	0.12	>.97	<15%	1.04	2705
F028/XV/SS	1	2600	QHE3X32T8/UNV ISL-SC	Instant	Parallel	31	120	0.26	>.98	<15%	1.02	2650
F028/XV/SS	1	2600	QHE3X32T8/UNV ISL-SC	Instant	Parallel	31	277	0.12	>.95	<20%	1.02	2650
F028/XV/SS	1	2600	QHE3X32T8/UNV ISN-SC	Instant	Parallel	34	120	0.30	>.95	<10%	1.20	3120
F028/XV/SS	1	2600	QHE3X32T8/UNV ISN-SC	Instant	Parallel	34	277	0.14	>.85	<15%	1.20	3120
F028/XV/SS	1	2600	QTP3X32T8/UNV ISL-SC	Instant	Parallel	33	120	0.25	>.98	<15%	1.03	2680
F028/XV/SS	1	2600	QTP3X32T8/UNV ISL-SC	Instant	Parallel	33	277	0.12	>.88	<30%	1.03	2680
F028/XV/SS	1	2600	QTP3X32T8/UNV ISN-SC	Instant	Parallel	36	120	0.30	>.98	<10%	1.20	3120
F028/XV/SS	1	2600	QTP3X32T8/UNV ISN-SC	Instant	Parallel	36	277	0.13	>.96	<15%	1.20	3120
F028/XV/SS	1	2600	QHE4X32T8/UNV ISL-SC	Instant	Parallel	34	120	0.27	>.98	<15%	1.17	3040
F028/XV/SS	1	2600	QHE4X32T8/UNV ISL-SC	Instant	Parallel	34	277	0.13	>.92	<20%	1.17	3040
F028/XV/SS	1	2600	QTP4X32T8/UNV ISL-SC	Instant	Parallel	33	120	0.27	>.98	<10%	1.06	2755
F028/XV/SS	1	2600	QTP4X32T8/UNV ISL-SC	Instant	Parallel	33	277	0.13	>.90	<30%	1.06	2755
F028/XV/SS	1	2600	QHE1X32T8/UNV PSN-MC	PROStart®	Parallel	26	120	0.22	>.98	<10%	0.88	2290
F028/XV/SS	1	2600	QHE1X32T8/UNV PSN-MC	PROStart	Parallel	25	277	0.10	>.98	<10%	0.88	2290
F028/XV/SS	1	2600	QHE2X32T8/UNV PSN-MC	PROStart	Parallel	33	120	0.28	>.98	<10%	1.08	2810
F028/XV/SS	1	2600	QHE2X32T8/UNV PSN-MC	PROStart	Parallel	32	277	0.12	>.95	<15%	1.08	2810
F028/XV/SS	1	2600	QHE3X32T8/UNV PSN-SC	PROStart	Parallel	35	120	0.30	>.98	<10%	1.14	2965
F028/XV/SS	1	2600	QHE3X32T8/UNV PSN-SC	PROStart	Parallel	35	277	0.14	>.95	<15%	1.14	2965
F028/XV/SS	1	2600	QHE1X32T8/UNV PSX-MC	PROStart	Parallel	21	120	0.18	>.98	<10%	0.72	1870
F028/XV/SS	1	2600	QHE1X32T8/UNV PSX-MC	PROStart	Parallel	21	277	0.08	>.98	<10%	0.72	1870
F028/XV/SS	2	2600	QHE2X32T8/UNV ISL-SC	Instant	Parallel	42	120	0.35	>.98	<10%	0.78	4055
F028/XV/SS	2	2600	QHE2X32T8/UNV ISL-SC	Instant	Parallel	42	277	0.15	>.98	<10%	0.78	4055
F028/XV/SS	2	2600	QHE2X32T8/UNV ISN-SC	Instant	Parallel	48	120	0.40	>.98	<10%	0.88	4575
F028/XV/SS	2	2600	QHE2X32T8/UNV ISN-SC	Instant	Parallel	48	277	0.18	>.98	<10%	0.88	4575
F028/XV/SS	2	2600	QHE2X32T8/UNV ISM-SC	Instant	Parallel	53	120	0.44	>.98	<10%	1.00	5200
F028/XV/SS	2	2600	QHE2X32T8/UNV ISM-SC	Instant	Parallel	53	277	0.19	>.98	<10%	1.00	5200
F028/XV/SS	2	2600	QHE2X32T8/UNV ISH-SC	Instant	Parallel	65	120	0.55	>.98	<10%	1.20	6240
F028/XV/SS	2	2600	QHE2X32T8/UNV ISH-SC	Instant	Parallel	64	277	0.23	>.98	<15%	1.20	6240
F028/XV/SS	2	2600	QTP2X32T8/UNV ISL-SC	Instant	Parallel	45	120	0.38	>.98	<10%	0.78	4055
F028/XV/SS	2	2600	QTP2X32T8/UNV ISL-SC	Instant	Parallel	45	277	0.17	>.98	<10%	0.78	4055
F028/XV/SS	2	2600	QTP2X32T8/UNV ISN-SC	Instant	Parallel	52	120	0.43	>.98	<10%	0.88	4575
F028/XV/SS	2	2600	QTP2X32T8/UNV ISN-SC	Instant	Parallel	52	277	0.19	>.98	<10%	0.88	4575
F028/XV/SS	2	2600	QTP2X32T8/UNV ISH-SC	Instant	Parallel	69	120	0.57	>.98	<10%	1.20	6240
F028/XV/SS	2	2600	QTP2X32T8/UNV ISH-SC	Instant	Parallel	69	277	0.25	>.98	<10%	1.20	6240
F028/XV/SS	2	2600	QHE3X32T8/UNV ISL-SC	Instant	Parallel	49	120	0.41	>.98	<10%	0.90	4680
F028/XV/SS	2	2600	QHE3X32T8/UNV ISL-SC	Instant	Parallel	49	277	0.18	>.97	<15%	0.90	4680
F028/XV/SS	2	2600	QHE3X32T8/UNV ISN-SC	Instant	Parallel	55	120	0.46	>.98	<10%	0.99	5150
F028/XV/SS	2	2600	QHE3X32T8/UNV ISN-SC	Instant	Parallel	55	277	0.20	>.98	<15%	0.99	5150
F028/XV/SS	2	2600	QHE3X32T8/UNV ISM-SC	Instant	Parallel	59	120	0.50	>.98	<10%	1.03	5355
F028/XV/SS	2	2600	QHE3X32T8/UNV ISM-SC	Instant	Parallel	59	277	0.22	>.96	<20%	1.03	5355
F028/XV/SS	2	2600	QTP3X32T8/UNV ISL-SC	Instant	Parallel	51	120	0.40	>.98	<10%	0.88	4575
F028/XV/SS	2	2600	QTP3X32T8/UNV ISL-SC	Instant	Parallel	51	277	0.19	>.93	<10%	0.88	4575
F028/XV/SS	2	2600	QTP3X32T8/UNV ISN-SC	Instant	Parallel	58	120	0.49	>.98	<10%	0.98	5095
F028/XV/SS	2	2600	QTP3X32T8/UNV ISN-SC	Instant	Parallel	58	277	0.22	>.95	<15%	0.98	5095
F028/XV/SS	2	2600	QHE4X32T8/UNV ISL-SC	Instant	Parallel	51	120	0.43	>.98	<10%	0.98	5095
F028/XV/SS	2	2600	QHE4X32T8/UNV ISL-SC	Instant	Parallel	52	277	0.20	>.95	<20%	0.98	5095

Note: Data above is listed above for QHE ISL, ISN, & ISH models (for Type CC models add "-1" to the model description). For complete details see product specification pages.



Linear T8 Fluorescent Lamps

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System Performance Guide

Lamp Type	# of Lamps	Lamp Lumens	Ballast Description	Start Type	Lamp Circuit	System Watts	Input Volts	Input Amps	Power Factor	THD	Ballast Factor	System Lumens
F028/XV/SS	2	2600	QHE4X32T8/UNV ISN-SC	Instant	Parallel	61	120	0.50	>.98	<10%	1.08	5615
F028/XV/SS	2	2600	QHE4X32T8/UNV ISN-SC	Instant	Parallel	61	277	0.22	>.96	<20%	1.08	5615
F028/XV/SS	2	2600	QHE4X32T8/UNV ISM-SC	Instant	Parallel	64	120	0.54	>.98	<10%	1.10	5720
F028/XV/SS	2	2600	QHE4X32T8/UNV ISM-SC	Instant	Parallel	64	277	0.24	>.95	<15%	1.10	5720
F028/XV/SS	2	2600	QTP4X32T8/UNV ISL-SC	Instant	Parallel	53	120	0.44	>.97	<10%	0.93	4835
F028/XV/SS	2	2600	QTP4X32T8/UNV ISL-SC	Instant	Parallel	53	277	0.19	>.95	<15%	0.93	4835
F028/XV/SS	2	2600	QTP4X32T8/UNV ISN-SC	Instant	Parallel	61	120	0.59	>.98	<15%	1.07	5565
F028/XV/SS	2	2600	QTP4X32T8/UNV ISN-SC	Instant	Parallel	61	277	0.25	>.98	<15%	1.07	5565
F028/XV/SS	2	2600	QHE2X32T8/UNV PSN-MC	PROStart®	Parallel	51	120	0.43	>.98	<10%	0.88	4575
F028/XV/SS	2	2600	QHE2X32T8/UNV PSN-MC	PROStart	Parallel	50	277	0.18	>.98	<10%	0.88	4575
F028/XV/SS	2	2600	QHE3X32T8/UNV PSN-SC	PROStart	Parallel	56	120	0.48	>.98	<10%	0.98	5095
F028/XV/SS	2	2600	QHE3X32T8/UNV PSN-SC	PROStart	Parallel	56	277	0.21	>.98	<10%	0.98	5095
F028/XV/SS	2	2600	QHE4X32T8/UNV PSN-SC	PROStart	Parallel	61	120	0.51	>.98	<10%	1.06	5510
F028/XV/SS	2	2600	QHE4X32T8/UNV PSN-SC	PROStart	Parallel	60	277	0.23	>.95	<15%	1.06	5510
F028/XV/SS	2	2600	QHE2X32T8/UNV PSH-HT	PROStart	Parallel	63	120	0.53	>.98	<10%	1.15	5980
F028/XV/SS	2	2600	QHE2X32T8/UNV PSH-HT	PROStart	Parallel	62	277	0.23	>.98	<10%	1.15	5980
F028/XV/SS	2	2600	QHE2X32T8/UNV PSX-MC	PROStart	Parallel	41	120	0.34	>.98	<10%	0.72	3745
F028/XV/SS	2	2600	QHE2X32T8/UNV PSX-MC	PROStart	Parallel	40	277	0.15	>.98	<10%	0.72	3745
F028/XV/SS	3	2600	QHE3X32T8/UNV ISL-SC	Instant	Parallel	63	120	0.53	>.98	<10%	0.78	6085
F028/XV/SS	3	2600	QHE3X32T8/UNV ISL-SC	Instant	Parallel	63	277	0.23	>.98	<10%	0.78	6085
F028/XV/SS	3	2600	QHE3X32T8/UNV ISN-SC	Instant	Parallel	72	120	0.61	>.98	<10%	0.88	6865
F028/XV/SS	3	2600	QHE3X32T8/UNV ISN-SC	Instant	Parallel	72	277	0.26	>.98	<10%	0.88	6865
F028/XV/SS	3	2600	QHE3X32T8/UNV ISM-SC	Instant	Parallel	76	120	0.64	>.98	<10%	0.98	7645
F028/XV/SS	3	2600	QHE3X32T8/UNV ISM-SC	Instant	Parallel	76	277	0.28	>.98	<10%	0.98	7645
F028/XV/SS	3	2600	QHE3X32T8/UNV ISH-SC	Instant	Parallel	98	120	0.82	>.98	<10%	1.18	9205
F028/XV/SS	3	2600	QHE3X32T8/UNV ISH-SC	Instant	Parallel	96	277	0.35	>.98	<10%	1.18	9205
F028/XV/SS	3	2600	QTP3X32T8/UNV ISL-SC	Instant	Parallel	67	120	0.57	>.98	<10%	0.78	6085
F028/XV/SS	3	2600	QTP3X32T8/UNV ISL-SC	Instant	Parallel	67	277	0.25	>.98	<10%	0.78	6085
F028/XV/SS	3	2600	QTP3X32T8/UNV ISN-SC	Instant	Parallel	76	120	0.65	>.98	<10%	0.88	6865
F028/XV/SS	3	2600	QTP3X32T8/UNV ISN-SC	Instant	Parallel	76	277	0.28	>.98	<10%	0.88	6865
F028/XV/SS	3	2600	QTP3X32T8/UNV ISH-SC	Instant	Parallel	100	120	0.84	>.98	<10%	1.18	9205
F028/XV/SS	3	2600	QTP3X32T8/UNV ISH-SC	Instant	Parallel	98	277	0.36	>.98	<10%	1.18	9205
F028/XV/SS	3	2600	QHE4X32T8/UNV ISL-SC	Instant	Parallel	70	120	0.59	>.98	<10%	0.85	6630
F028/XV/SS	3	2600	QHE4X32T8/UNV ISL-SC	Instant	Parallel	70	277	0.26	>.98	<15%	0.85	6630
F028/XV/SS	3	2600	QHE4X32T8/UNV ISN-SC	Instant	Parallel	78	120	0.66	>.98	<10%	0.96	7490
F028/XV/SS	3	2600	QHE4X32T8/UNV ISN-SC	Instant	Parallel	78	277	0.28	>.98	<15%	0.96	7490
F028/XV/SS	3	2600	QHE4X32T8/UNV ISM-SC	Instant	Parallel	85	120	0.71	>.98	<10%	1.02	7955
F028/XV/SS	3	2600	QHE4X32T8/UNV ISM-SC	Instant	Parallel	85	277	0.31	>.98	<10%	1.02	7955
F028/XV/SS	3	2600	QTP4X32T8/UNV ISL-SC	Instant	Parallel	70	120	0.57	>.98	<10%	0.84	6550
F028/XV/SS	3	2600	QTP4X32T8/UNV ISL-SC	Instant	Parallel	70	277	0.25	>.97	<10%	0.84	6550
F028/XV/SS	3	2600	QTP4X32T8/UNV ISN-SC	Instant	Parallel	80	120	0.70	>.98	<10%	0.96	7490
F028/XV/SS	3	2600	QTP4X32T8/UNV ISN-SC	Instant	Parallel	80	277	0.30	>.98	<15%	0.96	7490
F028/XV/SS	3	2600	QHE3X32T8/UNV PSN-SC	PROStart	Parallel	73	120	0.62	>.98	<10%	0.88	6865
F028/XV/SS	3	2600	QHE3X32T8/UNV PSN-SC	PROStart	Parallel	72	277	0.27	>.98	<10%	0.88	6865
F028/XV/SS	3	2600	QHE4X32T8/UNV PSN-SC	PROStart	Parallel	81	120	0.68	>.98	<10%	0.96	7490
F028/XV/SS	3	2600	QHE4X32T8/UNV PSN-SC	PROStart	Parallel	79	277	0.29	>.98	<10%	0.96	7490
F028/XV/SS	3	2600	QHE3X32T8/UNV PSH-HT	PROStart	Parallel	95	120	0.81	>.98	<10%	1.15	8970
F028/XV/SS	3	2600	QHE3X32T8/UNV PSH-HT	PROStart	Parallel	93	277	0.34	>.98	<10%	1.15	8970
F028/XV/SS	3	2600	QHE3X32T8/UNV PSX-SC	PROStart	Parallel	60	120	0.50	>.98	<10%	0.71	5540
F028/XV/SS	3	2600	QHE3X32T8/UNV PSX-SC	PROStart	Parallel	59	277	0.22	>.98	<10%	0.71	5540
F028/XV/SS	4	2600	QHE4X32T8/UNV ISL-SC	Instant	Parallel	84	120	0.71	>.98	<10%	0.78	8110
F028/XV/SS	4	2600	QHE4X32T8/UNV ISL-SC	Instant	Parallel	84	277	0.31	>.98	<10%	0.78	8110
F028/XV/SS	4	2600	QHE4X32T8/UNV ISN-SC	Instant	Parallel	95	120	0.80	>.98	<10%	0.88	9150
F028/XV/SS	4	2600	QHE4X32T8/UNV ISN-SC	Instant	Parallel	95	277	0.35	>.98	<10%	0.88	9150
F028/XV/SS	4	2600	QHE4X32T8/UNV ISM-SC	Instant	Parallel	107	120	0.89	>.98	<10%	0.98	10190
F028/XV/SS	4	2600	QHE4X32T8/UNV ISM-SC	Instant	Parallel	105	277	0.38	>.98	<10%	0.98	10190
F028/XV/SS	4	2600	QHE4X32T8/UNV ISH	Instant	Parallel	127	120	1.02	>.98	<10%	1.15	11960
F028/XV/SS	4	2600	QHE4X32T8/UNV ISH	Instant	Parallel	124	277	0.44	>.98	<10%	1.15	11960
F028/XV/SS	4	2600	QTP4X32T8/UNV ISL-SC	Instant	Parallel	86	120	0.73	>.98	<10%	0.78	8110
F028/XV/SS	4	2600	QTP4X32T8/UNV ISL-SC	Instant	Parallel	86	277	0.32	>.97	<10%	0.78	8110
F028/XV/SS	4	2600	QTP4X32T8/UNV ISN-SC	Instant	Parallel	98	120	0.85	>.98	<10%	0.88	9150
F028/XV/SS	4	2600	QTP4X32T8/UNV ISN-SC	Instant	Parallel	98	277	0.37	>.98	<15%	0.88	9150
F028/XV/SS	4	2600	QHE4X32T8/UNV PSN-SC	PROStart	Parallel	98	120	0.83	>.98	<10%	0.88	9150
F028/XV/SS	4	2600	QHE4X32T8/UNV PSN-SC	PROStart	Parallel	95	277	0.35	>.98	<10%	0.88	9150
F028/XV/SS	4	2600	QHE4X32T8/UNV PSH-HT	PROStart	Parallel	124	120	1.06	>.98	<10%	1.15	11960
F028/XV/SS	4	2600	QHE4X32T8/UNV PSH-HT	PROStart	Parallel	123	277	0.46	>.98	<10%	1.15	11960
F028/XV/SS	4	2600	QHE4X32T8/UNV PSX-SC	PROStart	Parallel	79	120	0.66	>.98	<10%	0.71	7385
F028/XV/SS	4	2600	QHE4X32T8/UNV PSX-SC	PROStart	Parallel	77	277	0.28	>.98	<10%	0.71	7385

Note: Data above is listed above for QHE ISL, ISN, & ISH models (for Type CC models add "-1" to the model description). For complete details see product specification pages.

F032/25W/XV/SS

QUICKSYSTEMS

Linear T8 Fluorescent Lamps

As the industry's leading systems company, OSRAM SYLVANIA offers the most comprehensive data on how QUICKTRONIC® electronic ballasts will perform with various combinations of lamps.

System Performance Guide

Lamp Type	# of Lamps	Lamp Lumens	Ballast Description	Start Type	Lamp Circuit	System Watts	Input Volts	Input Amps	Power Factor	THD	Ballast Factor	System Lumens
F032/25W/XV/SS	1	2400	QHE1X32T8/UNV ISL-SC	Instant	Parallel	20	120	0.17	>.98	<10%	0.78	1870
F032/25W/XV/SS	1	2400	QHE1X32T8/UNV ISL-SC	Instant	Parallel	20	277	0.08	>.98	<10%	0.78	1870
F032/25W/XV/SS	1	2400	QHE1X32T8/UNV ISN-SC	Instant	Parallel	22	120	0.19	>.98	<10%	0.88	2110
F032/25W/XV/SS	1	2400	QHE1X32T8/UNV ISN-SC	Instant	Parallel	22	277	0.09	>.98	<10%	0.88	2110
F032/25W/XV/SS	1	2400	QHE1X32T8/UNV ISH-SC	Instant	Parallel	30	120	0.26	>.98	<10%	1.20	2880
F032/25W/XV/SS	1	2400	QHE1X32T8/UNV ISH-SC	Instant	Parallel	30	277	0.12	>.95	<15%	1.20	2880
F032/25W/XV/SS	1	2400	QTP1X32T8/UNV ISN-SC	Instant	Parallel	23	120	0.20	>.98	<10%	0.88	2110
F032/25W/XV/SS	1	2400	QTP1X32T8/UNV ISN-SC	Instant	Parallel	23	277	0.09	>.98	<10%	0.88	2110
F032/25W/XV/SS	1	2400	QHE2X32T8/UNV ISL-SC	Instant	Parallel	25	120	0.21	>.98	<10%	0.95	2280
F032/25W/XV/SS	1	2400	QHE2X32T8/UNV ISL-SC	Instant	Parallel	25	277	0.10	>.92	<20%	0.95	2280
F032/25W/XV/SS	1	2400	QHE2X32T8/UNV ISN-SC	Instant	Parallel	28	120	0.23	>.98	<10%	1.03	2470
F032/25W/XV/SS	1	2400	QHE2X32T8/UNV ISN-SC	Instant	Parallel	28	277	0.11	>.94	<20%	1.03	2470
F032/25W/XV/SS	1	2400	QHE2X32T8/UNV ISM-SC	Instant	Parallel	32	120	0.26	>.98	<10%	1.15	2760
F032/25W/XV/SS	1	2400	QHE2X32T8/UNV ISM-SC	Instant	Parallel	32	277	0.12	>.95	<10%	1.15	2760
F032/25W/XV/SS	1	2400	QTP2X32T8/UNV ISL-SC	Instant	Parallel	26	120	0.22	>.98	<10%	0.95	2280
F032/25W/XV/SS	1	2400	QTP2X32T8/UNV ISL-SC	Instant	Parallel	26	277	0.10	>.92	<20%	0.95	2280
F032/25W/XV/SS	1	2400	QTP2X32T8/UNV ISN-SC	Instant	Parallel	30	120	0.24	>.98	<10%	1.05	2520
F032/25W/XV/SS	1	2400	QTP2X32T8/UNV ISN-SC	Instant	Parallel	30	277	0.11	>.97	<10%	1.05	2520
F032/25W/XV/SS	1	2400	QHE3X32T8/UNV ISL-SC	Instant	Parallel	29	120	0.24	>.98	<10%	1.00	2400
F032/25W/XV/SS	1	2400	QHE3X32T8/UNV ISL-SC	Instant	Parallel	29	277	0.11	>.95	<20%	1.00	2400
F032/25W/XV/SS	1	2400	QHE3X32T8/UNV ISN-SC	Instant	Parallel	32	120	0.26	>.98	<10%	1.13	2710
F032/25W/XV/SS	1	2400	QHE3X32T8/UNV ISN-SC	Instant	Parallel	32	277	0.12	>.94	<20%	1.13	2710
F032/25W/XV/SS	1	2400	QTP3X32T8/UNV ISL-SC	Instant	Parallel	30	120	0.26	>.98	<10%	1.00	2400
F032/25W/XV/SS	1	2400	QTP3X32T8/UNV ISL-SC	Instant	Parallel	30	277	0.12	>.95	<20%	1.00	2400
F032/25W/XV/SS	1	2400	QTP3X32T8/UNV ISN-SC	Instant	Parallel	33	120	0.27	>.98	<10%	1.14	2735
F032/25W/XV/SS	1	2400	QTP3X32T8/UNV ISN-SC	Instant	Parallel	33	277	0.13	>.95	<20%	1.14	2735
F032/25W/XV/SS	1	2400	QHE4X32T8/UNV ISL-SC	Instant	Parallel	31	120	0.26	>.98	<10%	1.17	2810
F032/25W/XV/SS	1	2400	QHE4X32T8/UNV ISL-SC	Instant	Parallel	31	277	0.12	>.92	<20%	1.17	2810
F032/25W/XV/SS	1	2400	QTP4X32T8/UNV ISL-SC	Instant	Parallel	32	120	0.28	>.98	<10%	1.17	2810
F032/25W/XV/SS	1	2400	QTP4X32T8/UNV ISL-SC	Instant	Parallel	32	277	0.14	>.92	<20%	1.17	2810
F032/25W/XV/SS	1	2400	QHE1x32T8/UNV PSN-MC	PROStart®	Parallel	23	120	0.20	>.98	<10%	0.88	2110
F032/25W/XV/SS	1	2400	QHE1x32T8/UNV PSN-MC	PROStart	Parallel	23	277	0.09	>.98	<10%	0.88	2110
F032/25W/XV/SS	1	2400	QHE2x32T8/UNV PSN-MC	PROStart	Parallel	30	120	0.25	>.98	<10%	1.08	2590
F032/25W/XV/SS	1	2400	QHE2x32T8/UNV PSN-MC	PROStart	Parallel	30	277	0.11	>.95	<15%	1.08	2590
F032/25W/XV/SS	1	2400	QHE3x32T8/UNV PSN-SC	PROStart	Parallel	32	120	0.27	>.98	<10%	1.14	2740
F032/25W/XV/SS	1	2400	QHE3x32T8/UNV PSN-SC	PROStart	Parallel	33	277	0.13	>.90	<15%	1.14	2740
F032/25W/XV/SS	1	2400	QHE1X32T8/UNV PSX-MC	PROStart	Parallel	20	120	0.16	>.98	<10%	0.72	1730
F032/25W/XV/SS	1	2400	QHE1X32T8/UNV PSX-MC	PROStart	Parallel	19	277	0.07	>.98	<10%	0.72	1730
F032/25W/XV/SS	2	2400	QHE2X32T8/UNV ISL-SC	Instant	Parallel	38	120	0.32	>.98	<10%	0.78	3745
F032/25W/XV/SS	2	2400	QHE2X32T8/UNV ISL-SC	Instant	Parallel	38	277	0.14	>.98	<10%	0.78	3745
F032/25W/XV/SS	2	2400	QHE2X32T8/UNV ISN-SC	Instant	Parallel	43	120	0.36	>.98	<10%	0.88	4225
F032/25W/XV/SS	2	2400	QHE2X32T8/UNV ISN-SC	Instant	Parallel	43	277	0.16	>.98	<10%	0.88	4225
F032/25W/XV/SS	2	2400	QHE2x32T8/UNV ISM-SC	Instant	Parallel	50	120	0.41	>.98	<10%	1.00	4800
F032/25W/XV/SS	2	2400	QHE2x32T8/UNV ISM-SC	Instant	Parallel	49	277	0.18	>.98	<10%	1.00	4800
F032/25W/XV/SS	2	2400	QHE2X32T8/UNV ISH-SC	Instant	Parallel	58	120	0.50	>.98	<10%	1.20	5760
F032/25W/XV/SS	2	2400	QHE2X32T8/UNV ISH-SC	Instant	Parallel	57	277	0.22	>.98	<15%	1.20	5760
F032/25W/XV/SS	2	2400	QTP2X32T8/UNV ISL-SC	Instant	Parallel	40	120	0.34	>.98	<10%	0.78	3745
F032/25W/XV/SS	2	2400	QTP2X32T8/UNV ISL-SC	Instant	Parallel	40	277	0.15	>.98	<10%	0.78	3745
F032/25W/XV/SS	2	2400	QTP2X32T8/UNV ISN-SC	Instant	Parallel	46	120	0.39	>.98	<10%	0.88	4225
F032/25W/XV/SS	2	2400	QTP2X32T8/UNV ISN-SC	Instant	Parallel	46	277	0.16	>.98	<10%	0.88	4225
F032/25W/XV/SS	2	2400	QTP2X32T8/UNV ISH-SC	Instant	Parallel	61	120	0.51	>.98	<10%	1.20	5760
F032/25W/XV/SS	2	2400	QTP2X32T8/UNV ISH-SC	Instant	Parallel	61	277	0.22	>.98	<10%	1.20	5760
F032/25W/XV/SS	2	2400	QHE3X32T8/UNV ISL-SC	Instant	Parallel	45	120	0.38	>.98	<10%	0.90	4320
F032/25W/XV/SS	2	2400	QHE3X32T8/UNV ISL-SC	Instant	Parallel	45	277	0.17	>.97	<15%	0.90	4320
F032/25W/XV/SS	2	2400	QHE3X32T8/UNV ISN-SC	Instant	Parallel	50	120	0.42	>.98	<10%	0.97	4655
F032/25W/XV/SS	2	2400	QHE3X32T8/UNV ISN-SC	Instant	Parallel	50	277	0.19	>.98	<10%	0.97	4655
F032/25W/XV/SS	2	2400	QHE3X32T8/UNV ISM-SC	Instant	Parallel	55	120	0.46	>.98	<10%	1.03	4945
F032/25W/XV/SS	2	2400	QHE3X32T8/UNV ISM-SC	Instant	Parallel	55	277	0.21	>.95	<15%	1.03	4945
F032/25W/XV/SS	2	2400	QTP3X32T8/UNV ISL-SC	Instant	Parallel	45	120	0.38	>.98	<10%	0.84	4030
F032/25W/XV/SS	2	2400	QTP3X32T8/UNV ISL-SC	Instant	Parallel	45	277	0.18	>.98	<10%	0.84	4030
F032/25W/XV/SS	2	2400	QTP3X32T8/UNV ISN-SC	Instant	Parallel	52	120	0.44	>.98	<10%	0.98	4705
F032/25W/XV/SS	2	2400	QTP3X32T8/UNV ISN-SC	Instant	Parallel	52	277	0.19	>.95	<15%	0.98	4705
F032/25W/XV/SS	2	2400	QHE4X32T8/UNV ISL-SC	Instant	Parallel	49	120	0.40	>.98	<10%	1.00	4800
F032/25W/XV/SS	2	2400	QHE4X32T8/UNV ISL-SC	Instant	Parallel	49	277	0.19	>.95	<20%	1.00	4800

Note: Data above is listed above for QHE ISL, ISN, & ISH models (for Type CC models add "-1" to the model description). For complete details see product specification pages.



Linear T8 Fluorescent Lamps

QUICKSYSTEMS

System Performance Guide

Lamp Type	# of Lamps	Lamp Lumens	Ballast Description	Start Type	Lamp Circuit	System Watts	Input Volts	Input Amps	Power Factor	THD	Ballast Factor	System Lumens
F032/25W/XV/SS	2	2400	QHE4X32T8/UNV ISN-SC	Instant	Parallel	55	120	0.46	>.98	<10%	1.04	4990
F032/25W/XV/SS	2	2400	QHE4X32T8/UNV ISN-SC	Instant	Parallel	55	277	0.21	>.95	<20%	1.04	4990
F032/25W/XV/SS	2	2400	QHE4X32T8/UNV ISM-SC	Instant	Parallel	59	120	0.50	>.98	<10%	1.10	5280
F032/25W/XV/SS	2	2400	QHE4X32T8/UNV ISM-SC	Instant	Parallel	59	277	0.22	>.95	<15%	1.10	5280
F032/25W/XV/SS	2	2400	QTP4X32T8/UNV ISL-SC	Instant	Parallel	48	120	0.40	>.98	<10%	0.91	4370
F032/25W/XV/SS	2	2400	QTP4X32T8/UNV ISL-SC	Instant	Parallel	48	277	0.18	>.95	<15%	0.91	4370
F032/25W/XV/SS	2	2400	QTP4X32T8/UNV ISN-SC	Instant	Parallel	55	120	0.46	>.98	<15%	1.01	4850
F032/25W/XV/SS	2	2400	QTP4X32T8/UNV ISN-SC	Instant	Parallel	55	277	0.20	>.98	<15%	1.01	4850
F032/25W/XV/SS	2	2400	QHE2x32T8/UNV PSN-MC	PROStart®	Parallel	45	120	0.38	>.98	>.98	0.88	4225
F032/25W/XV/SS	2	2400	QHE2x32T8/UNV PSN-MC	PROStart	Parallel	44	277	0.16	>.98	>.98	0.88	4225
F032/25W/XV/SS	2	2400	QHE3x32T8/UNV PSN-SC	PROStart	Parallel	52	120	0.44	>.98	>.98	0.98	4720
F032/25W/XV/SS	2	2400	QHE3x32T8/UNV PSN-SC	PROStart	Parallel	51	277	0.19	>.95	<10%	0.98	4720
F032/25W/XV/SS	2	2400	QHE4x32T8/UNV PSN-SC	PROStart	Parallel	55	120	0.46	>.98	>.98	1.06	5090
F032/25W/XV/SS	2	2400	QHE4x32T8/UNV PSN-SC	PROStart	Parallel	55	277	0.21	>.95	<15%	1.06	5090
F032/25W/XV/SS	2	2400	QHE2X32T8/UNV PSH-HT	PROStart	Parallel	56	120	0.47	>.98	<10%	1.15	5520
F032/25W/XV/SS	2	2400	QHE2X32T8/UNV PSH-HT	PROStart	Parallel	55	277	0.20	>.98	<10%	1.15	5520
F032/25W/XV/SS	2	2400	QHE2X32T8/UNV PSX-MC	PROStart	Parallel	38	120	0.31	>.98	<10%	0.72	3455
F032/25W/XV/SS	2	2400	QHE2X32T8/UNV PSX-MC	PROStart	Parallel	37	277	0.14	>.98	<10%	0.72	3455
F032/25W/XV/SS	3	2400	QHE3X32T8/UNV ISL-SC	Instant	Parallel	57	120	0.48	>.98	<10%	0.78	5615
F032/25W/XV/SS	3	2400	QHE3X32T8/UNV ISL-SC	Instant	Parallel	57	277	0.21	>.98	<10%	0.78	5615
F032/25W/XV/SS	3	2400	QHE3X32T8/UNV ISN-SC	Instant	Parallel	65	120	0.55	>.98	<10%	0.88	6335
F032/25W/XV/SS	3	2400	QHE3X32T8/UNV ISN-SC	Instant	Parallel	64	277	0.23	>.98	<10%	0.88	6335
F032/25W/XV/SS	3	2400	QHE3x32T8/UNV ISM-SC	Instant	Parallel	70	120	0.59	>.98	<10%	0.98	7055
F032/25W/XV/SS	3	2400	QHE3x32T8/UNV ISM-SC	Instant	Parallel	70	277	0.26	>.98	<10%	0.98	7055
F032/25W/XV/SS	3	2400	QHE3X32T8/UNV ISH-SC	Instant	Parallel	87	120	0.72	>.98	<10%	1.18	8495
F032/25W/XV/SS	3	2400	QHE3X32T8/UNV ISH-SC	Instant	Parallel	86	277	0.31	>.98	<10%	1.18	8495
F032/25W/XV/SS	3	2400	QTP3X32T8/UNV ISL-SC	Instant	Parallel	59	120	0.50	>.98	<10%	0.78	5615
F032/25W/XV/SS	3	2400	QTP3X32T8/UNV ISL-SC	Instant	Parallel	59	277	0.21	>.98	<10%	0.78	5615
F032/25W/XV/SS	3	2400	QTP3X32T8/UNV ISN-SC	Instant	Parallel	67	120	0.58	>.98	<10%	0.88	6335
F032/25W/XV/SS	3	2400	QTP3X32T8/UNV ISN-SC	Instant	Parallel	67	277	0.25	>.98	<10%	0.88	6335
F032/25W/XV/SS	3	2400	QTP3X32T8/UNV ISH-SC	Instant	Parallel	89	120	0.75	>.98	<10%	1.18	8495
F032/25W/XV/SS	3	2400	QTP3X32T8/UNV ISH-SC	Instant	Parallel	88	277	0.32	>.98	<10%	1.18	8495
F032/25W/XV/SS	3	2400	QHE4X32T8/UNV ISL-SC	Instant	Parallel	65	120	0.53	>.98	<10%	0.85	6120
F032/25W/XV/SS	3	2400	QHE4X32T8/UNV ISL-SC	Instant	Parallel	64	277	0.24	>.96	<15%	0.85	6120
F032/25W/XV/SS	3	2400	QHE4X32T8/UNV ISN-SC	Instant	Parallel	72	120	0.60	>.98	<10%	0.93	6695
F032/25W/XV/SS	3	2400	QHE4X32T8/UNV ISN-SC	Instant	Parallel	72	277	0.26	>.98	<15%	0.93	6695
F032/25W/XV/SS	3	2400	QHE4X32T8/UNV ISM-SC	Instant	Parallel	80	120	0.67	>.98	<10%	1.04	7490
F032/25W/XV/SS	3	2400	QHE4X32T8/UNV ISM-SC	Instant	Parallel	80	277	0.29	>.98	<10%	1.04	7490
F032/25W/XV/SS	3	2400	QTP4X32T8/UNV ISL-SC	Instant	Parallel	64	120	0.54	>.98	<10%	0.82	5905
F032/25W/XV/SS	3	2400	QTP4X32T8/UNV ISL-SC	Instant	Parallel	64	277	0.24	>.97	<10%	0.82	5905
F032/25W/XV/SS	3	2400	QTP4X32T8/UNV ISN-SC	Instant	Parallel	72	120	0.60	>.98	<10%	0.92	6625
F032/25W/XV/SS	3	2400	QTP4X32T8/UNV ISN-SC	Instant	Parallel	72	277	0.26	>.98	<15%	0.92	6625
F032/25W/XV/SS	3	2400	QHE3x32T8/UNV PSN-SC	PROStart	Parallel	67	120	0.56	>.98	<10%	0.88	6335
F032/25W/XV/SS	3	2400	QHE3x32T8/UNV PSN-SC	PROStart	Parallel	66	277	0.24	>.98	<10%	0.88	6335
F032/25W/XV/SS	3	2400	QHE4x32T8/UNV PSN-SC	PROStart	Parallel	75	120	0.63	>.98	<10%	0.96	6940
F032/25W/XV/SS	3	2400	QHE4x32T8/UNV PSN-SC	PROStart	Parallel	74	277	0.27	>.98	<10%	0.96	6940
F032/25W/XV/SS	3	2400	QHE3X32T8/UNV PSH-HT	PROStart	Parallel	85	120	0.72	>.98	<10%	1.15	8280
F032/25W/XV/SS	3	2400	QHE3X32T8/UNV PSH-HT	PROStart	Parallel	84	277	0.31	>.98	<10%	1.15	8280
F032/25W/XV/SS	3	2400	QHE3X32T8/UNV PSX-SC	PROStart	Parallel	56	120	0.47	>.98	<10%	0.71	5110
F032/25W/XV/SS	3	2400	QHE3X32T8/UNV PSX-SC	PROStart	Parallel	55	277	0.20	>.98	<10%	0.71	5110
F032/25W/XV/SS	4	2400	QHE4X32T8/UNV ISL-SC	Instant	Parallel	76	120	0.62	>.98	<10%	0.78	7490
F032/25W/XV/SS	4	2400	QHE4X32T8/UNV ISL-SC	Instant	Parallel	75	277	0.27	>.98	<10%	0.78	7490
F032/25W/XV/SS	4	2400	QHE4X32T8/UNV ISN-SC	Instant	Parallel	85	120	0.71	>.98	<10%	0.88	8450
F032/25W/XV/SS	4	2400	QHE4X32T8/UNV ISN-SC	Instant	Parallel	85	277	0.30	>.98	<10%	0.88	8450
F032/25W/XV/SS	4	2400	QHE4x32T8/UNV ISM-SC	Instant	Parallel	99	120	0.83	>.98	<10%	0.98	9410
F032/25W/XV/SS	4	2400	QHE4x32T8/UNV ISM-SC	Instant	Parallel	98	277	0.36	>.98	<10%	0.98	9410
F032/25W/XV/SS	4	2400	QHE4X32T8/UNV ISH	Instant	Parallel	112	120	0.94	>.98	<10%	1.15	11040
F032/25W/XV/SS	4	2400	QHE4X32T8/UNV ISH	Instant	Parallel	111	277	0.41	>.98	<10%	1.15	11040
F032/25W/XV/SS	4	2400	QTP4X32T8/UNV ISL-SC	Instant	Parallel	77	120	0.63	>.98	<10%	0.78	7490
F032/25W/XV/SS	4	2400	QTP4X32T8/UNV ISL-SC	Instant	Parallel	77	277	0.28	>.97	<10%	0.78	7490
F032/25W/XV/SS	4	2400	QTP4X32T8/UNV ISN-SC	Instant	Parallel	88	120	0.74	>.98	<10%	0.88	8450
F032/25W/XV/SS	4	2400	QTP4X32T8/UNV ISN-SC	Instant	Parallel	88	277	0.31	>.98	<15%	0.88	8450
F032/25W/XV/SS	4	2400	QHE4x32T8/UNV PSN-SC	PROStart	Parallel	91	120	0.77	>.98	<10%	0.88	8450
F032/25W/XV/SS	4	2400	QHE4x32T8/UNV PSN-SC	PROStart	Parallel	89	277	0.33	>.98	<10%	0.88	8450
F032/25W/XV/SS	4	2400	QHE4X32T8/UNV PSH-HT	PROStart	Parallel	112	120	0.95	>.98	<10%	1.15	11040
F032/25W/XV/SS	4	2400	QHE4X32T8/UNV PSH-HT	PROStart	Parallel	110	277	0.41	>.98	<10%	1.15	11040
F032/25W/XV/SS	4	2400	QHE4X32T8/UNV PSX-SC	PROStart	Parallel	73	120	0.61	>.98	<10%	0.71	6815
F032/25W/XV/SS	4	2400	QHE4x32T8/UNV PSX-SC	PROStart	Parallel	71	277	0.26	>.98	<10%	0.71	6815

Note: Data above is listed above for QHE ISL, ISN, & ISH models (for Type CC models add "-1" to the model description). For complete details see product specification pages.

F032XP/XL

QUICKSYSTEMS

Linear T8 Fluorescent Lamps

As the industry's leading systems company, OSRAM SYLVANIA offers the most comprehensive data on how QUICKTRONIC® electronic ballasts will perform with various combinations of lamps.

System Performance Guide

Lamp Type	# of Lamps	Lamp Lumens	Ballast Description	Start Type	Lamp Circuit	System Watts	Input Volts	Input Amps	Power Factor	THD	Ballast Factor	System Lumens
F032XP/XL	1	2950	QHE1X32T8/UNV ISL-SC	Instant	Parallel	25	120	0.21	>.98	<10%	0.78	2300
F032XP/XL	1	2950	QHE1X32T8/UNV ISL-SC	Instant	Parallel	25	277	0.09	>.98	<10%	0.78	2300
F032XP/XL	1	2950	QHE1X32T8/UNV ISN-SC	Instant	Parallel	28	120	0.25	>.98	<10%	0.88	2595
F032XP/XL	1	2950	QHE1X32T8/UNV ISN-SC	Instant	Parallel	28	277	0.11	>.98	<10%	0.88	2595
F032XP/XL	1	2950	QHE1X32T8/UNV ISH-SC	Instant	Parallel	38	120	0.32	>.98	<10%	1.20	3540
F032XP/XL	1	2950	QHE1X32T8/UNV ISH-SC	Instant	Parallel	38	277	0.14	>.98	<10%	1.20	3540
F032XP/XL	1	2950	QTP1X32T8/UNV ISN-SC	Instant	Parallel	30	120	0.26	>.98	<10%	0.88	2595
F032XP/XL	1	2950	QTP1X32T8/UNV ISN-SC	Instant	Parallel	30	277	0.11	>.98	<10%	0.88	2595
F032XP/XL	1	2950	QHE2X32T8/UNV ISL-SC	Instant	Parallel	31	120	0.27	>.95	<10%	0.95	2805
F032XP/XL	1	2950	QHE2X32T8/UNV ISL-SC	Instant	Parallel	31	277	0.12	>.95	<10%	0.95	2805
F032XP/XL	1	2950	QHE2X32T8/UNV ISN-SC	Instant	Parallel	34	120	0.27	>.95	<10%	1.05	3100
F032XP/XL	1	2950	QHE2X32T8/UNV ISN-SC	Instant	Parallel	34	277	0.11	>.95	<10%	1.05	3100
F032XP/XL	1	2950	QHE2X32T8/UNV ISM-SC	Instant	Parallel	40	120	0.34	>.98	<10%	1.15	3395
F032XP/XL	1	2950	QHE2X32T8/UNV ISM-SC	Instant	Parallel	40	277	0.15	>.95	<15%	1.15	3395
F032XP/XL	1	2950	QTP2X32T8/UNV ISL-SC	Instant	Parallel	32	120	0.30	>.98	<10%	0.90	2655
F032XP/XL	1	2950	QTP2X32T8/UNV ISL-SC	Instant	Parallel	32	277	0.12	>.97	<10%	0.90	2655
F032XP/XL	1	2950	QTP2X32T8/UNV ISN-SC	Instant	Parallel	36	120	0.30	>.95	<10%	1.04	3070
F032XP/XL	1	2950	QTP2X32T8/UNV ISN-SC	Instant	Parallel	36	277	0.14	>.95	<10%	1.04	3070
F032XP/XL	1	2950	QHE3X32T8/UNV ISL-SC	Instant	Parallel	36	120	0.30	>.98	<15%	1.02	3010
F032XP/XL	1	2950	QHE3X32T8/UNV ISL-SC	Instant	Parallel	36	277	0.13	>.96	<20%	1.02	3010
F032XP/XL	1	2950	QHE3X32T8/UNV ISN-SC	Instant	Parallel	40	120	0.34	>.98	<10%	1.20	3540
F032XP/XL	1	2950	QHE3X32T8/UNV ISN-SC	Instant	Parallel	40	277	0.15	>.92	<15%	1.20	3540
F032XP/XL	1	2950	QTP3X32T8/UNV ISL-SC	Instant	Parallel	37	120	0.29	>.98	<10%	1.03	3040
F032XP/XL	1	2950	QTP3X32T8/UNV ISL-SC	Instant	Parallel	37	277	0.13	>.96	<20%	1.03	3040
F032XP/XL	1	2950	QTP3X32T8/UNV ISN-SC	Instant	Parallel	41	120	0.34	>.95	<15%	1.19	3510
F032XP/XL	1	2950	QTP3X32T8/UNV ISN-SC	Instant	Parallel	41	277	0.15	>.98	<10%	1.19	3510
F032XP/XL	1	2950	QHE4X32T8/UNV ISL-SC	Instant	Parallel	39	120	0.33	>.98	<15%	1.17	3450
F032XP/XL	1	2950	QHE4X32T8/UNV ISL-SC	Instant	Parallel	39	277	0.15	>.93	<20%	1.17	3450
F032XP/XL	1	2950	QTP4X32T8/UNV ISL-SC	Instant	Parallel	38	120	0.31	>.98	<10%	1.06	3125
F032XP/XL	1	2950	QTP4X32T8/UNV ISL-SC	Instant	Parallel	38	277	0.15	>.92	<30%	1.06	3125
F032XP/XL	1	2950	QHE1x32T8/UNV PSN-MC	PROStart®	Parallel	30	120	0.26	>.98	<10%	0.88	2595
F032XP/XL	1	2950	QHE1x32T8/UNV PSN-MC	PROStart	Parallel	29	277	0.11	>.98	<10%	0.88	2595
F032XP/XL	1	2950	QHE2x32T8/UNV PSN-MC	PROStart	Parallel	36	120	0.30	>.98	<10%	1.07	3160
F032XP/XL	1	2950	QHE2x32T8/UNV PSN-MC	PROStart	Parallel	36	277	0.13	>.98	<15%	1.07	3160
F032XP/XL	1	2950	QHE3x32T8/UNV PSN-SC	PROStart	Parallel	39	120	0.33	>.98	<10%	1.14	3355
F032XP/XL	1	2950	QHE3x32T8/UNV PSN-SC	PROStart	Parallel	40	277	0.16	>.95	<15%	1.14	3355
F032XP/XL	1	2950	QHE4x32T8/UNV PSN-SC	PROStart	Parallel	41	120	0.34	>.98	<10%	1.20	3540
F032XP/XL	1	2950	QHE4x32T8/UNV PSN-SC	PROStart	Parallel	41	277	0.16	>.90	<15%	1.20	3540
F032XP/XL	1	2950	QHE1X32T8/UNV PSX-MC	PROStart	Parallel	25	120	0.21	>.98	<10%	0.72	2125
F032XP/XL	1	2950	QHE1X32T8/UNV PSX-MC	PROStart	Parallel	24	277	0.09	>.98	<10%	0.72	2125
F032XP/XL	2	2950	QHE2X32T8/UNV ISL-SC	Instant	Parallel	48	120	0.41	>.98	<10%	0.78	4600
F032XP/XL	2	2950	QHE2X32T8/UNV ISL-SC	Instant	Parallel	48	277	0.18	>.98	<10%	0.78	4600
F032XP/XL	2	2950	QHE2X32T8/UNV ISN-SC	Instant	Parallel	55	120	0.47	>.98	<10%	0.88	5190
F032XP/XL	2	2950	QHE2X32T8/UNV ISN-SC	Instant	Parallel	55	277	0.20	>.98	<10%	0.88	5190
F032XP/XL	2	2950	QHE2x32T8/UNV ISM-SC	Instant	Parallel	63	120	0.54	>.98	<10%	1.00	5900
F032XP/XL	2	2950	QHE2x32T8/UNV ISM-SC	Instant	Parallel	62	277	0.23	>.98	<10%	1.00	5900
F032XP/XL	2	2950	QHE2X32T8/UNV ISH-SC	Instant	Parallel	74	120	0.65	>.98	<10%	1.20	7080
F032XP/XL	2	2950	QHE2X32T8/UNV ISH-SC	Instant	Parallel	73	277	0.28	>.98	<10%	1.20	7080
F032XP/XL	2	2950	QTP2X32T8/UNV ISL-SC	Instant	Parallel	51	120	0.44	>.98	<10%	0.78	4600
F032XP/XL	2	2950	QTP2X32T8/UNV ISL-SC	Instant	Parallel	51	277	0.19	>.98	<10%	0.78	4600
F032XP/XL	2	2950	QTP2X32T8/UNV ISN-SC	Instant	Parallel	59	120	0.50	>.98	<10%	0.88	5190
F032XP/XL	2	2950	QTP2X32T8/UNV ISN-SC	Instant	Parallel	59	277	0.21	>.98	<10%	0.88	5190
F032XP/XL	2	2950	QTP2X32T8/UNV ISH-SC	Instant	Parallel	78	120	0.65	>.98	<10%	1.20	7080
F032XP/XL	2	2950	QTP2X32T8/UNV ISH-SC	Instant	Parallel	78	277	0.28	>.98	<10%	1.20	7080
F032XP/XL	2	2950	QHE3X32T8/UNV ISL-SC	Instant	Parallel	56	120	0.46	>.97	<15%	0.90	5310
F032XP/XL	2	2950	QHE3X32T8/UNV ISL-SC	Instant	Parallel	56	277	0.20	>.97	<15%	0.90	5310
F032XP/XL	2	2950	QHE3X32T8/UNV ISN-SC	Instant	Parallel	63	120	0.50	>.97	<15%	0.99	5840
F032XP/XL	2	2950	QHE3X32T8/UNV ISN-SC	Instant	Parallel	62	277	0.22	>.97	<15%	0.99	5840
F032XP/XL	2	2950	QHE3X32T8/UNV ISM-SC	Instant	Parallel	69	120	0.60	>.98	<10%	1.08	6370
F032XP/XL	2	2950	QHE3X32T8/UNV ISM-SC	Instant	Parallel	69	277	0.25	>.98	<10%	1.08	6370
F032XP/XL	2	2950	QTP3X32T8/UNV ISL-SC	Instant	Parallel	58	120	0.45	>.98	<10%	0.88	5190
F032XP/XL	2	2950	QTP3X32T8/UNV ISL-SC	Instant	Parallel	58	277	0.20	>.98	<10%	0.88	5190
F032XP/XL	2	2950	QTP3X32T8/UNV ISN-SC	Instant	Parallel	66	120	0.55	>.97	<15%	1.02	6020
F032XP/XL	2	2950	QTP3X32T8/UNV ISN-SC	Instant	Parallel	66	277	0.24	>.97	<15%	1.02	6020

Note: Data above is listed above for QHE ISL, ISN, & ISH models (for Type CC models add "-1" to the model description). For complete details see product specification pages.



Linear T8 Fluorescent Lamps

QUICKSYSTEMS

System Performance Guide

Lamp Type	# of Lamps	Lamp Lumens	Ballast Description	Start Type	Lamp Circuit	System Watts	Input Volts	Input Amps	Power Factor	THD	Ballast Factor	System Lumens
F032XP/XL	2	2950	QHE4X32T8/UNV ISL-SC	Instant	Parallel	62	120	0.52	>.98	<10%	0.98	5780
F032XP/XL	2	2950	QHE4X32T8/UNV ISL-SC	Instant	Parallel	62	277	0.23	>.96	<15%	0.98	5780
F032XP/XL	2	2950	QHE4X32T8/UNV ISN-SC	Instant	Parallel	69	120	0.60	>.97	<15%	1.08	6370
F032XP/XL	2	2950	QHE4X32T8/UNV ISN-SC	Instant	Parallel	69	277	0.25	>.98	<15%	1.08	6370
F032XP/XL	2	2950	QHE4X32T8/UNV ISM-SC	Instant	Parallel	74	120	0.62	>.98	<10%	1.16	6845
F032XP/XL	2	2950	QHE4X32T8/UNV ISM-SC	Instant	Parallel	74	277	0.27	>.98	<15%	1.16	6845
F032XP/XL	2	2950	QTP4X32T8/UNV ISL-SC	Instant	Parallel	61	120	0.50	>.98	<10%	0.93	5485
F032XP/XL	2	2950	QTP4X32T8/UNV ISL-SC	Instant	Parallel	61	277	0.23	>.97	<10%	0.93	5485
F032XP/XL	2	2950	QTP4X32T8/UNV ISN-SC	Instant	Parallel	69	120	0.59	>.98	<15%	1.07	6315
F032XP/XL	2	2950	QTP4X32T8/UNV ISN-SC	Instant	Parallel	69	277	0.25	>.98	<15%	1.07	6315
F032XP/XL	2	2950	QHE2X32T8/UNV PSN-MC	PROStart®	Parallel	57	120	0.48	>.98	<10%	0.88	5190
F032XP/XL	2	2950	QHE2X32T8/UNV PSN-MC	PROStart	Parallel	55	277	0.21	>.98	<10%	0.88	5190
F032XP/XL	2	2950	QHE3X32T8/UNV PSN-SC	PROStart	Parallel	65	120	0.54	>.98	<10%	0.98	5785
F032XP/XL	2	2950	QHE3X32T8/UNV PSN-SC	PROStart	Parallel	64	277	0.24	>.98	<10%	0.98	5785
F032XP/XL	2	2950	QHE4X32T8/UNV PSN-SC	PROStart	Parallel	68	120	0.57	>.98	<10%	1.06	6255
F032XP/XL	2	2950	QHE4X32T8/UNV PSN-SC	PROStart	Parallel	67	277	0.25	>.95	<15%	1.06	6255
F032XP/XL	2	2950	QHE2X32T8/UNV PSH-HT	PROStart	Parallel	72	120	0.60	>.98	<10%	1.15	6785
F032XP/XL	2	2950	QHE2X32T8/UNV PSH-HT	PROStart	Parallel	70	277	0.27	>.98	<10%	1.15	6785
F032XP/XL	2	2950	QHE2X32T8/UNV PSX-MC	PROStart	Parallel	48	120	0.40	>.98	<10%	0.72	4250
F032XP/XL	2	2950	QHE2X32T8/UNV PSX-MC	PROStart	Parallel	47	277	0.17	>.98	<10%	0.72	4250
F032XP/XL	3	2950	QHE3X32T8/UNV ISL-SC	Instant	Parallel	73	120	0.61	>.98	<10%	0.78	6905
F032XP/XL	3	2950	QHE3X32T8/UNV ISL-SC	Instant	Parallel	72	277	0.27	>.98	<10%	0.78	6905
F032XP/XL	3	2950	QHE3X32T8/UNV ISN-SC	Instant	Parallel	83	120	0.69	>.98	<10%	0.88	7790
F032XP/XL	3	2950	QHE3X32T8/UNV ISN-SC	Instant	Parallel	82	277	0.30	>.98	<10%	0.88	7790
F032XP/XL	3	2950	QHE3X32T8/UNV ISM-SC	Instant	Parallel	90	120	0.76	>.98	<10%	0.98	8675
F032XP/XL	3	2950	QHE3X32T8/UNV ISM-SC	Instant	Parallel	89	277	0.40	>.98	<10%	0.98	8675
F032XP/XL	3	2950	QHE3X32T8/UNV ISH-SC	Instant	Parallel	111	120	0.93	>.98	<10%	1.18	10445
F032XP/XL	3	2950	QHE3X32T8/UNV ISH-SC	Instant	Parallel	109	277	0.40	>.98	<10%	1.18	10445
F032XP/XL	3	2950	QTP3X32T8/UNV ISL-SC	Instant	Parallel	75	120	0.65	>.98	<10%	0.78	6905
F032XP/XL	3	2950	QTP3X32T8/UNV ISL-SC	Instant	Parallel	75	277	0.27	>.98	<10%	0.78	6905
F032XP/XL	3	2950	QTP3X32T8/UNV ISN-SC	Instant	Parallel	86	120	0.72	>.98	<10%	0.88	7790
F032XP/XL	3	2950	QTP3X32T8/UNV ISN-SC	Instant	Parallel	86	277	0.31	>.98	<10%	0.88	7790
F032XP/XL	3	2950	QTP3X32T8/UNV ISH-SC	Instant	Parallel	114	120	0.95	>.98	<10%	1.18	10445
F032XP/XL	3	2950	QTP3X32T8/UNV ISH-SC	Instant	Parallel	111	277	0.41	>.98	<10%	1.18	10445
F032XP/XL	3	2950	QHE4X32T8/UNV ISL-SC	Instant	Parallel	80	120	0.68	>.98	<10%	0.85	7525
F032XP/XL	3	2950	QHE4X32T8/UNV ISL-SC	Instant	Parallel	80	277	0.28	>.98	<10%	0.85	7525
F032XP/XL	3	2950	QHE4X32T8/UNV ISN-SC	Instant	Parallel	89	120	0.71	>.98	<15%	0.96	8495
F032XP/XL	3	2950	QHE4X32T8/UNV ISN-SC	Instant	Parallel	89	277	0.31	>.98	<15%	0.96	8495
F032XP/XL	3	2950	QHE4X32T8/UNV ISM-SC	Instant	Parallel	100	120	0.84	>.98	<10%	1.05	9295
F032XP/XL	3	2950	QHE4X32T8/UNV ISM-SC	Instant	Parallel	99	277	0.36	>.98	<10%	1.05	9295
F032XP/XL	3	2950	QTP4X32T8/UNV ISL-SC	Instant	Parallel	80	120	0.66	>.98	<10%	0.84	7435
F032XP/XL	3	2950	QTP4X32T8/UNV ISL-SC	Instant	Parallel	80	277	0.29	>.97	<10%	0.84	7435
F032XP/XL	3	2950	QTP4X32T8/UNV ISN-SC	Instant	Parallel	92	120	0.77	>.98	<15%	0.96	8495
F032XP/XL	3	2950	QTP4X32T8/UNV ISN-SC	Instant	Parallel	92	277	0.33	>.98	<15%	0.96	8495
F032XP/XL	3	2950	QHE3X32T8/UNV PSN-SC	PROStart	Parallel	83	120	0.69	>.98	<10%	0.88	7790
F032XP/XL	3	2950	QHE3X32T8/UNV PSN-SC	PROStart	Parallel	82	277	0.29	>.98	<10%	0.88	7790
F032XP/XL	3	2950	QHE4X32T8/UNV PSN-SC	PROStart	Parallel	91	120	0.77	>.98	<10%	0.96	8495
F032XP/XL	3	2950	QHE4X32T8/UNV PSN-SC	PROStart	Parallel	89	277	0.33	>.98	<10%	0.96	8495
F032XP/XL	3	2950	QHE3X32T8/UNV PSH-HT	PROStart	Parallel	110	120	0.94	>.98	<10%	1.15	10180
F032XP/XL	3	2950	QHE3X32T8/UNV PSH-HT	PROStart	Parallel	108	277	0.40	>.98	<10%	1.15	10180
F032XP/XL	3	2950	QHE3X32T8/UNV PSX-SC	PROStart	Parallel	69	120	0.58	>.98	<10%	0.71	6285
F032XP/XL	3	2950	QHE3X32T8/UNV PSX-SC	PROStart	Parallel	67	277	0.25	>.98	<10%	0.71	6285
F032XP/XL	4	2950	QHE4X32T8/UNV ISL-SC	Instant	Parallel	95	120	0.80	>.98	<10%	0.78	9205
F032XP/XL	4	2950	QHE4X32T8/UNV ISL-SC	Instant	Parallel	95	277	0.35	>.98	<10%	0.78	9205
F032XP/XL	4	2950	QHE4X32T8/UNV ISN-SC	Instant	Parallel	108	120	0.91	>.98	<10%	0.88	10385
F032XP/XL	4	2950	QHE4X32T8/UNV ISN-SC	Instant	Parallel	107	277	0.39	>.98	<10%	0.88	10385
F032XP/XL	4	2950	QHE4X32T8/UNV ISM-SC	Instant	Parallel	122	120	1.02	>.98	<10%	0.98	11565
F032XP/XL	4	2950	QHE4X32T8/UNV ISM-SC	Instant	Parallel	120	277	0.44	>.98	<10%	0.98	11565
F032XP/XL	4	2950	QHE4X32T8/UNV ISH	Instant	Parallel	144	120	1.21	>.98	<10%	1.15	13570
F032XP/XL	4	2950	QHE4X32T8/UNV ISH	Instant	Parallel	141	277	0.52	>.98	<10%	1.15	13570
F032XP/XL	4	2950	QTP4X32T8/UNV ISL-SC	Instant	Parallel	98	120	0.80	>.98	<10%	0.78	9205
F032XP/XL	4	2950	QTP4X32T8/UNV ISL-SC	Instant	Parallel	98	277	0.35	>.98	<10%	0.78	9205
F032XP/XL	4	2950	QTP4X32T8/UNV ISN-SC	Instant	Parallel	112	120	0.95	>.98	<10%	0.88	10385
F032XP/XL	4	2950	QTP4X32T8/UNV ISN-SC	Instant	Parallel	112	277	0.40	>.98	<10%	0.88	10385
F032XP/XL	4	2950	QHE4X32T8/UNV PSN-SC	PROStart	Parallel	111	120	0.93	>.98	<10%	0.88	10385
F032XP/XL	4	2950	QHE4X32T8/UNV PSN-SC	PROStart	Parallel	108	277	0.39	>.98	<10%	0.88	10385
F032XP/XL	4	2950	QHE4X32T8/UNV PSH-HT	PROStart	Parallel	143	120	1.22	>.98	<10%	1.15	13570
F032XP/XL	4	2950	QHE4X32T8/UNV PSH-HT	PROStart	Parallel	141	277	0.53	>.98	<10%	1.15	13570
F032XP/XL	4	2950	QHE4X32T8/UNV PSX-SC	PROStart	Parallel	90	120	0.76	>.98	<10%	0.71	8380
F032XP/XL	4	2950	QHE4X32T8/UNV PSX-SC	PROStart	Parallel	89	277	0.32	>.98	<10%	0.71	8380

Note: Data above is listed above for QHE ISL, ISN, & ISH models (for Type CC models add "-1" to the model description). For complete details see product specification pages.

F028XP/XL/SS

QUICKSYSTEMS

Linear T8 Fluorescent Lamps

As the industry's leading systems company, OSRAM SYLVANIA offers the most comprehensive data on how QUICKTRONIC® electronic ballasts will perform with various combinations of lamps.

System Performance Guide

Lamp Type	# of Lamps	Lamp Lumens	Ballast Description	Start Type	Lamp Circuit	System Watts	Input Volts	Input Amps	Power Factor	THD	Ballast Factor	System Lumens
F028XP/XL/SS	1	2600	QHE1X32T8/UNV ISL-SC	Instant	Parallel	22	120	0.19	>.98	<10%	0.78	2030
F028XP/XL/SS	1	2600	QHE1X32T8/UNV ISL-SC	Instant	Parallel	22	277	0.08	>.98	<10%	0.78	2030
F028XP/XL/SS	1	2600	QHE1X32T8/UNV ISN-SC	Instant	Parallel	25	120	0.21	>.98	<10%	0.88	2290
F028XP/XL/SS	1	2600	QHE1X32T8/UNV ISN-SC	Instant	Parallel	25	277	0.09	>.98	<10%	0.88	2290
F028XP/XL/SS	1	2600	QHE1X32T8/UNV ISH-SC	Instant	Parallel	33	120	0.27	>.98	<10%	1.20	3120
F028XP/XL/SS	1	2600	QHE1X32T8/UNV ISH-SC	Instant	Parallel	33	277	0.12	>.95	<15%	1.20	3120
F028XP/XL/SS	1	2600	QTP1X32T8/UNV ISN-SC	Instant	Parallel	26	120	0.23	>.98	<10%	0.88	2290
F028XP/XL/SS	1	2600	QTP1X32T8/UNV ISN-SC	Instant	Parallel	26	277	0.10	>.98	<10%	0.88	2290
F028XP/XL/SS	1	2600	QHE2X32T8/UNV ISL-SC	Instant	Parallel	27	120	0.23	>.98	<10%	0.95	2470
F028XP/XL/SS	1	2600	QHE2X32T8/UNV ISL-SC	Instant	Parallel	27	277	0.10	>.98	<15%	0.95	2470
F028XP/XL/SS	1	2600	QHE2X32T8/UNV ISN-SC	Instant	Parallel	30	120	0.25	>.98	<10%	1.05	2730
F028XP/XL/SS	1	2600	QHE2X32T8/UNV ISN-SC	Instant	Parallel	30	277	0.11	>.98	<15%	1.05	2730
F028XP/XL/SS	1	2600	QHE2X32T8/UNV ISM-SC	Instant	Parallel	34	120	0.29	>.98	<10%	1.15	2990
F028XP/XL/SS	1	2600	QHE2X32T8/UNV ISM-SC	Instant	Parallel	34	277	0.13	>.95	<15%	1.15	2990
F028XP/XL/SS	1	2600	QTP2X32T8/UNV ISL-SC	Instant	Parallel	28	120	0.23	>.98	<10%	0.90	2340
F028XP/XL/SS	1	2600	QTP2X32T8/UNV ISL-SC	Instant	Parallel	29	277	0.11	>.96	<15%	0.90	2340
F028XP/XL/SS	1	2600	QTP2X32T8/UNV ISN-SC	Instant	Parallel	32	120	0.27	>.98	<10%	1.04	2705
F028XP/XL/SS	1	2600	QTP2X32T8/UNV ISN-SC	Instant	Parallel	32	277	0.12	>.97	<15%	1.04	2705
F028XP/XL/SS	1	2600	QHE3X32T8/UNV ISL-SC	Instant	Parallel	31	120	0.26	>.98	<15%	1.02	2650
F028XP/XL/SS	1	2600	QHE3X32T8/UNV ISL-SC	Instant	Parallel	31	277	0.12	>.95	<20%	1.02	2650
F028XP/XL/SS	1	2600	QHE3X32T8/UNV ISN-SC	Instant	Parallel	34	120	0.30	>.95	<10%	1.20	3120
F028XP/XL/SS	1	2600	QHE3X32T8/UNV ISN-SC	Instant	Parallel	34	277	0.14	>.85	<15%	1.20	3120
F028XP/XL/SS	1	2600	QTP3X32T8/UNV ISL-SC	Instant	Parallel	33	120	0.25	>.98	<15%	1.03	2680
F028XP/XL/SS	1	2600	QTP3X32T8/UNV ISL-SC	Instant	Parallel	33	277	0.12	>.88	<30%	1.03	2680
F028XP/XL/SS	1	2600	QTP3X32T8/UNV ISN-SC	Instant	Parallel	36	120	0.30	>.98	<10%	1.20	3120
F028XP/XL/SS	1	2600	QTP3X32T8/UNV ISN-SC	Instant	Parallel	36	277	0.13	>.96	<15%	1.20	3120
F028XP/XL/SS	1	2600	QHE4X32T8/UNV ISL-SC	Instant	Parallel	34	120	0.27	>.98	<15%	1.17	3040
F028XP/XL/SS	1	2600	QHE4X32T8/UNV ISL-SC	Instant	Parallel	34	277	0.13	>.92	<20%	1.17	3040
F028XP/XL/SS	1	2600	QTP4X32T8/UNV ISL-SC	Instant	Parallel	33	120	0.27	>.98	<10%	1.06	2755
F028XP/XL/SS	1	2600	QTP4X32T8/UNV ISL-SC	Instant	Parallel	33	277	0.13	>.90	<30%	1.06	2755
F028XP/XL/SS	1	2600	QHE1x32T8/UNV PSN-MC	PROStart®	Parallel	26	120	0.22	>.98	<10%	0.88	2290
F028XP/XL/SS	1	2600	QHE1x32T8/UNV PSN-MC	PROStart	Parallel	25	277	0.10	>.98	<10%	0.88	2290
F028XP/XL/SS	1	2600	QHE2x32T8/UNV PSN-MC	PROStart	Parallel	33	120	0.28	>.98	<10%	1.08	2810
F028XP/XL/SS	1	2600	QHE2x32T8/UNV PSN-MC	PROStart	Parallel	32	277	0.12	>.95	<15%	1.08	2810
F028XP/XL/SS	1	2600	QHE3x32T8/UNV PSN-SC	PROStart	Parallel	35	120	0.30	>.98	<10%	1.14	2965
F028XP/XL/SS	1	2600	QHE3x32T8/UNV PSN-SC	PROStart	Parallel	35	277	0.14	>.95	<15%	1.14	2965
F028XP/XL/SS	1	2600	QHE1X32T8/UNV PSX-MC	PROStart	Parallel	21	120	0.18	>.98	<10%	0.72	1870
F028XP/XL/SS	1	2600	QHE1X32T8/UNV PSX-MC	PROStart	Parallel	21	277	0.08	>.98	<10%	0.72	1870
F028XP/XL/SS	2	2600	QHE2X32T8/UNV ISL-SC	Instant	Parallel	42	120	0.35	>.98	<10%	0.78	4055
F028XP/XL/SS	2	2600	QHE1x32T8/UNV ISL-SC	Instant	Parallel	42	277	0.15	>.98	<10%	0.78	4055
F028XP/XL/SS	2	2600	QHE2X32T8/UNV ISN-SC	Instant	Parallel	48	120	0.40	>.98	<10%	0.88	4575
F028XP/XL/SS	2	2600	QHE2X32T8/UNV ISN-SC	Instant	Parallel	48	277	0.18	>.98	<10%	0.88	4575
F028XP/XL/SS	2	2600	QHE2x32T8/UNV ISM-SC	Instant	Parallel	53	120	0.44	>.98	<10%	1.00	5200
F028XP/XL/SS	2	2600	QHE2x32T8/UNV ISM-SC	Instant	Parallel	53	277	0.19	>.98	<10%	1.00	5200
F028XP/XL/SS	2	2600	QHE2X32T8/UNV ISH-SC	Instant	Parallel	65	120	0.55	>.98	<10%	1.20	6240
F028XP/XL/SS	2	2600	QHE2X32T8/UNV ISH-SC	Instant	Parallel	64	277	0.23	>.98	<15%	1.20	6240
F028XP/XL/SS	2	2600	QTP2X32T8/UNV ISL-SC	Instant	Parallel	45	120	0.38	>.98	<10%	0.78	4055
F028XP/XL/SS	2	2600	QTP2X32T8/UNV ISL-SC	Instant	Parallel	45	277	0.17	>.98	<10%	0.78	4055
F028XP/XL/SS	2	2600	QTP2X32T8/UNV ISN-SC	Instant	Parallel	52	120	0.43	>.98	<10%	0.88	4575
F028XP/XL/SS	2	2600	QTP2X32T8/UNV ISN-SC	Instant	Parallel	52	277	0.19	>.98	<10%	0.88	4575
F028XP/XL/SS	2	2600	QTP2X32T8/UNV ISH-SC	Instant	Parallel	69	120	0.57	>.98	<10%	1.20	6240
F028XP/XL/SS	2	2600	QTP2X32T8/UNV ISH-SC	Instant	Parallel	69	277	0.25	>.98	<10%	1.20	6240
F028XP/XL/SS	2	2600	QHE3X32T8/UNV ISL-SC	Instant	Parallel	49	120	0.41	>.98	<10%	0.90	4680
F028XP/XL/SS	2	2600	QHE3X32T8/UNV ISL-SC	Instant	Parallel	49	277	0.18	>.97	<15%	0.90	4680
F028XP/XL/SS	2	2600	QHE3X32T8/UNV ISN-SC	Instant	Parallel	55	120	0.46	>.98	<10%	0.99	5150
F028XP/XL/SS	2	2600	QHE3X32T8/UNV ISN-SC	Instant	Parallel	55	277	0.20	>.98	<15%	0.99	5150
F028XP/XL/SS	2	2600	QHE3X32T8/UNV ISM-SC	Instant	Parallel	59	120	0.50	>.98	<10%	1.03	5355
F028XP/XL/SS	2	2600	QHE3X32T8/UNV ISM-SC	Instant	Parallel	59	277	0.22	>.96	<20%	1.03	5355
F028XP/XL/SS	2	2600	QTP3X32T8/UNV ISL-SC	Instant	Parallel	51	120	0.40	>.98	<10%	0.88	4575
F028XP/XL/SS	2	2600	QTP3X32T8/UNV ISL-SC	Instant	Parallel	51	277	0.19	>.93	<10%	0.88	4575
F028XP/XL/SS	2	2600	QTP3X32T8/UNV ISN-SC	Instant	Parallel	58	120	0.49	>.98	<10%	0.98	5095
F028XP/XL/SS	2	2600	QTP3X32T8/UNV ISN-SC	Instant	Parallel	58	277	0.22	>.95	<15%	0.98	5095
F028XP/XL/SS	2	2600	QHE4X32T8/UNV ISL-SC	Instant	Parallel	51	120	0.43	>.98	<10%	0.98	5095
F028XP/XL/SS	2	2600	QHE4X32T8/UNV ISL-SC	Instant	Parallel	52	277	0.20	>.96	<20%	0.98	5095

Note: Data above is listed above for QHE ISL, ISN, & ISH models (for Type CC models add "-1" to the model description). For complete details see product specification pages.

Linear T8 Fluorescent Lamps

QUICKSYSTEMS

System Performance Guide

Lamp Type	# of Lamps	Lamp Lumens	Ballast Description	Start Type	Lamp Circuit	System Watts	Input Volts	Input Amps	Power Factor	THD	Ballast Factor	System Lumens
F028XP/XL/SS	2	2600	QHE4X32T8/UNV ISN-SC	Instant	Parallel	61	120	0.50	>.98	<10%	1.08	5615
F028XP/XL/SS	2	2600	QHE4X32T8/UNV ISN-SC	Instant	Parallel	61	277	0.22	>.96	<20%	1.08	5615
F028XP/XL/SS	2	2600	QHE4X32T8/UNV ISM-SC	Instant	Parallel	64	120	0.54	>.98	<10%	1.10	5720
F028XP/XL/SS	2	2600	QHE4X32T8/UNV ISM-SC	Instant	Parallel	64	277	0.24	>.95	<15%	1.10	5720
F028XP/XL/SS	2	2600	QTP4X32T8/UNV ISL-SC	Instant	Parallel	53	120	0.44	>.97	<10%	0.93	4835
F028XP/XL/SS	2	2600	QTP4X32T8/UNV ISL-SC	Instant	Parallel	53	277	0.19	>.95	<15%	0.93	4835
F028XP/XL/SS	2	2600	QTP4X32T8/UNV ISN-SC	Instant	Parallel	61	120	0.59	>.98	<15%	1.07	5565
F028XP/XL/SS	2	2600	QTP4X32T8/UNV ISN-SC	Instant	Parallel	61	277	0.25	>.98	<15%	1.07	5565
F028XP/XL/SS	2	2600	QHE2x32T8/UNV PSN-MC	PROStart®	Parallel	51	120	0.43	>.98	<10%	0.88	4575
F028XP/XL/SS	2	2600	QHE2x32T8/UNV PSN-MC	PROStart	Parallel	50	277	0.18	>.98	<10%	0.88	4575
F028XP/XL/SS	2	2600	QHE3x32T8/UNV PSN-SC	PROStart	Parallel	56	120	0.48	>.98	<10%	0.98	5095
F028XP/XL/SS	2	2600	QHE3x32T8/UNV PSN-SC	PROStart	Parallel	56	277	0.21	>.98	<10%	0.98	5095
F028XP/XL/SS	2	2600	QHE4x32T8/UNV PSN-SC	PROStart	Parallel	61	120	0.51	>.98	<10%	1.06	5510
F028XP/XL/SS	2	2600	QHE4x32T8/UNV PSN-SC	PROStart	Parallel	60	277	0.23	>.95	<15%	1.06	5510
F028XP/XL/SS	2	2600	QHE2X32T8/UNV PSH-HT	PROStart	Parallel	63	120	0.53	>.98	<10%	1.15	5980
F028XP/XL/SS	2	2600	QHE2X32T8/UNV PSH-HT	PROStart	Parallel	62	277	0.23	>.98	<10%	1.15	5980
F028XP/XL/SS	2	2600	QHE2X32T8/UNV PSX-MC	PROStart	Parallel	41	120	0.34	>.98	<10%	0.72	3745
F028XP/XL/SS	2	2600	QHE2X32T8/UNV PSX-MC	PROStart	Parallel	40	277	0.15	>.98	<10%	0.72	3745
F028XP/XL/SS	3	2600	QHE3X32T8/UNV ISL-SC	Instant	Parallel	63	120	0.53	>.98	<10%	0.78	6085
F028XP/XL/SS	3	2600	QHE3X32T8/UNV ISL-SC	Instant	Parallel	63	277	0.23	>.98	<10%	0.78	6085
F028XP/XL/SS	3	2600	QHE3X32T8/UNV ISN-SC	Instant	Parallel	72	120	0.61	>.98	<10%	0.88	6865
F028XP/XL/SS	3	2600	QHE3X32T8/UNV ISN-SC	Instant	Parallel	72	277	0.26	>.98	<10%	0.88	6865
F028XP/XL/SS	3	2600	QHE3x32T8/UNV ISM-SC	Instant	Parallel	76	120	0.64	>.98	<10%	0.98	7645
F028XP/XL/SS	3	2600	QHE3x32T8/UNV ISM-SC	Instant	Parallel	76	277	0.28	>.98	<10%	0.98	7645
F028XP/XL/SS	3	2600	QHE3X32T8/UNV ISH-SC	Instant	Parallel	98	120	0.82	>.98	<10%	1.18	9205
F028XP/XL/SS	3	2600	QHE3X32T8/UNV ISH-SC	Instant	Parallel	96	277	0.35	>.98	<10%	1.18	9205
F028XP/XL/SS	3	2600	QTP3X32T8/UNV ISL-SC	Instant	Parallel	67	120	0.57	>.98	<10%	0.78	6085
F028XP/XL/SS	3	2600	QTP3X32T8/UNV ISL-SC	Instant	Parallel	67	277	0.25	>.98	<10%	0.78	6085
F028XP/XL/SS	3	2600	QTP3X32T8/UNV ISN-SC	Instant	Parallel	76	120	0.65	>.98	<10%	0.88	6865
F028XP/XL/SS	3	2600	QTP3X32T8/UNV ISN-SC	Instant	Parallel	76	277	0.28	>.98	<10%	0.88	6865
F028XP/XL/SS	3	2600	QTP3X32T8/UNV ISH-SC	Instant	Parallel	100	120	0.84	>.98	<10%	1.18	9205
F028XP/XL/SS	3	2600	QTP3X32T8/UNV ISH-SC	Instant	Parallel	98	277	0.36	>.98	<10%	1.18	9205
F028XP/XL/SS	3	2600	QHE4X32T8/UNV ISL-SC	Instant	Parallel	70	120	0.59	>.98	<10%	0.85	6630
F028XP/XL/SS	3	2600	QHE4X32T8/UNV ISL-SC	Instant	Parallel	70	277	0.26	>.98	<15%	0.85	6630
F028XP/XL/SS	3	2600	QHE4X32T8/UNV ISN-SC	Instant	Parallel	78	120	0.66	>.98	<10%	0.96	7490
F028XP/XL/SS	3	2600	QHE4X32T8/UNV ISN-SC	Instant	Parallel	78	277	0.28	>.98	<15%	0.96	7490
F028XP/XL/SS	3	2600	QHE4X32T8/UNV ISM-SC	Instant	Parallel	85	120	0.71	>.98	<10%	1.02	7955
F028XP/XL/SS	3	2600	QHE4X32T8/UNV ISM-SC	Instant	Parallel	85	277	0.31	>.98	<10%	1.02	7955
F028XP/XL/SS	3	2600	QTP4X32T8/UNV ISL-SC	Instant	Parallel	70	120	0.57	>.98	<10%	0.84	6550
F028XP/XL/SS	3	2600	QTP4X32T8/UNV ISL-SC	Instant	Parallel	70	277	0.25	>.97	<10%	0.84	6550
F028XP/XL/SS	3	2600	QTP4X32T8/UNV ISN-SC	Instant	Parallel	80	120	0.70	>.98	<10%	0.96	7490
F028XP/XL/SS	3	2600	QTP4X32T8/UNV ISN-SC	Instant	Parallel	80	277	0.30	>.98	<15%	0.96	7490
F028XP/XL/SS	3	2600	QHE3X32T8/UNV PSN-SC	PROStart	Parallel	73	120	0.62	>.98	<10%	0.88	6865
F028XP/XL/SS	3	2600	QHE3X32T8/UNV PSN-SC	PROStart	Parallel	72	277	0.27	>.98	<10%	0.88	6865
F028XP/XL/SS	3	2600	QHE4X32T8/UNV PSN-SC	PROStart	Parallel	81	120	0.68	>.98	<10%	0.96	7490
F028XP/XL/SS	3	2600	QHE4X32T8/UNV PSN-SC	PROStart	Parallel	79	277	0.29	>.98	<10%	0.96	7490
F028XP/XL/SS	3	2600	QHE3X32T8/UNV PSH-HT	PROStart	Parallel	95	120	0.81	>.98	<10%	1.15	8970
F028XP/XL/SS	3	2600	QHE3X32T8/UNV PSH-HT	PROStart	Parallel	93	277	0.34	>.98	<10%	1.15	8970
F028XP/XL/SS	3	2600	QHE3X32T8/UNV PSX-SC	PROStart	Parallel	60	120	0.50	>.98	<10%	0.71	5540
F028XP/XL/SS	3	2600	QHE3X32T8/UNV PSX-SC	PROStart	Parallel	59	277	0.22	>.98	<10%	0.71	5540
F028XP/XL/SS	4	2600	QHE4X32T8/UNV ISL-SC	Instant	Parallel	84	120	0.71	>.98	<10%	0.78	8110
F028XP/XL/SS	4	2600	QHE4X32T8/UNV ISL-SC	Instant	Parallel	84	277	0.31	>.98	<10%	0.78	8110
F028XP/XL/SS	4	2600	QHE4X32T8/UNV ISN-SC	Instant	Parallel	95	120	0.80	>.98	<10%	0.88	9150
F028XP/XL/SS	4	2600	QHE4X32T8/UNV ISN-SC	Instant	Parallel	95	277	0.35	>.98	<10%	0.88	9150
F028XP/XL/SS	4	2600	QHE4x32T8/UNV ISM-SC	Instant	Parallel	107	120	0.89	>.98	<10%	0.98	10190
F028XP/XL/SS	4	2600	QHE4x32T8/UNV ISM-SC	Instant	Parallel	105	277	0.38	>.98	<10%	0.98	10190
F028XP/XL/SS	4	2600	QHE4X32T8/UNV ISH	Instant	Parallel	127	120	1.02	>.98	<10%	1.15	11960
F028XP/XL/SS	4	2600	QHE4X32T8/UNV ISH	Instant	Parallel	124	277	0.44	>.98	<10%	1.15	11960
F028XP/XL/SS	4	2600	QTP4X32T8/UNV ISL-SC	Instant	Parallel	86	120	0.73	>.98	<10%	0.78	8110
F028XP/XL/SS	4	2600	QTP4X32T8/UNV ISL-SC	Instant	Parallel	86	277	0.32	>.97	<10%	0.78	8110
F028XP/XL/SS	4	2600	QTP4X32T8/UNV ISN-SC	Instant	Parallel	98	120	0.85	>.98	<10%	0.88	9150
F028XP/XL/SS	4	2600	QTP4X32T8/UNV ISN-SC	Instant	Parallel	98	277	0.37	>.98	<15%	0.88	9150
F028XP/XL/SS	4	2600	QHE4x32T8/UNV PSN-SC	PROStart	Parallel	98	120	0.83	>.98	<10%	0.88	9150
F028XP/XL/SS	4	2600	QHE4x32T8/UNV PSN-SC	PROStart	Parallel	95	277	0.35	>.98	<10%	0.88	9150
F028XP/XL/SS	4	2600	QHE4X32T8/UNV PSH-HT	PROStart	Parallel	124	120	1.06	>.98	<10%	1.15	11960
F028XP/XL/SS	4	2600	QHE4X32T8/UNV PSH-HT	PROStart	Parallel	123	277	0.46	>.98	<10%	1.15	11960
F028XP/XL/SS	4	2600	QHE4x32T8/UNV PSX-SC	PROStart	Parallel	79	120	0.66	>.98	<10%	0.71	7385
F028XP/XL/SS	4	2600	QHE4x32T8/UNV PSX-SC	PROStart	Parallel	77	277	0.28	>.98	<10%	0.71	7385

Note: Data above is listed above for QHE ISL, ISN, & ISH models (for Type CC models add "-1" to the model description). For complete details see product specification pages.

F032/25W/XP/XL/SS

QUICKSYSTEMS

Linear T8 Fluorescent Lamps

As the industry's leading systems company, OSRAM SYLVANIA offers the most comprehensive data on how QUICKTRONIC® electronic ballasts will perform with various combinations of lamps.

System Performance Guide

Lamp Type	# of Lamps	Lamp Lumens	Ballast Description	Start Type	Lamp Circuit	System Watts	Input Volts	Input Amps	Power Factor	THD	Ballast Factor	System Lumens
F032/25W/XP/XL/SS	1	2400	QHE1X32T8/UNV ISL-SC	Instant	Parallel	20	120	0.17	>.98	<10%	0.78	1870
F032/25W/XP/XL/SS	1	2400	QHE1X32T8/UNV ISL-SC	Instant	Parallel	20	277	0.08	>.98	<10%	0.78	1870
F032/25W/XP/XL/SS	1	2400	QHE1X32T8/UNV ISN-SC	Instant	Parallel	22	120	0.19	>.98	<10%	0.88	2110
F032/25W/XP/XL/SS	1	2400	QHE1X32T8/UNV ISN-SC	Instant	Parallel	22	277	0.09	>.98	<10%	0.88	2110
F032/25W/XP/XL/SS	1	2400	QHE1X32T8/UNV ISH-SC	Instant	Parallel	30	120	0.26	>.98	<10%	1.20	2880
F032/25W/XP/XL/SS	1	2400	QHE1X32T8/UNV ISH-SC	Instant	Parallel	30	277	0.12	>.95	<15%	1.20	2880
F032/25W/XP/XL/SS	1	2400	QTP1X32T8/UNV ISN-SC	Instant	Parallel	23	120	0.20	>.98	<10%	0.88	2110
F032/25W/XP/XL/SS	1	2400	QTP1X32T8/UNV ISN-SC	Instant	Parallel	23	277	0.09	>.98	<10%	0.88	2110
F032/25W/XP/XL/SS	1	2400	QHE2X32T8/UNV ISL-SC	Instant	Parallel	25	120	0.21	>.98	<10%	0.95	2280
F032/25W/XP/XL/SS	1	2400	QHE2X32T8/UNV ISL-SC	Instant	Parallel	25	277	0.10	>.92	<20%	0.95	2280
F032/25W/XP/XL/SS	1	2400	QHE2X32T8/UNV ISN-SC	Instant	Parallel	28	120	0.23	>.98	<10%	1.03	2470
F032/25W/XP/XL/SS	1	2400	QHE2X32T8/UNV ISL-SC	Instant	Parallel	28	277	0.11	>.94	<20%	1.03	2470
F032/25W/XP/XL/SS	1	2400	QHE2X32T8/UNV ISM-SC	Instant	Parallel	32	120	0.26	>.98	<10%	1.15	2760
F032/25W/XP/XL/SS	1	2400	QHE2X32T8/UNV ISM-SC	Instant	Parallel	32	277	0.12	>.95	<10%	1.15	2760
F032/25W/XP/XL/SS	1	2400	QTP2X32T8/UNV ISL-SC	Instant	Parallel	26	120	0.22	>.98	<10%	0.95	2280
F032/25W/XP/XL/SS	1	2400	QTP2X32T8/UNV ISL-SC	Instant	Parallel	26	277	0.10	>.92	<20%	0.95	2280
F032/25W/XP/XL/SS	1	2400	QTP2X32T8/UNV ISN-SC	Instant	Parallel	30	120	0.24	>.98	<10%	1.05	2520
F032/25W/XP/XL/SS	1	2400	QTP2X32T8/UNV ISN-SC	Instant	Parallel	30	277	0.11	>.97	<10%	1.05	2520
F032/25W/XP/XL/SS	1	2400	QHE3X32T8/UNV ISL-SC	Instant	Parallel	29	120	0.24	>.98	<10%	1.00	2400
F032/25W/XP/XL/SS	1	2400	QHE3X32T8/UNV ISL-SC	Instant	Parallel	29	277	0.11	>.95	<20%	1.00	2400
F032/25W/XP/XL/SS	1	2400	QHE3X32T8/UNV ISN-SC	Instant	Parallel	32	120	0.26	>.98	<10%	1.13	2710
F032/25W/XP/XL/SS	1	2400	QHE3X32T8/UNV ISN-SC	Instant	Parallel	32	277	0.12	>.94	<20%	1.13	2710
F032/25W/XP/XL/SS	1	2400	QTP3X32T8/UNV ISL-SC	Instant	Parallel	30	120	0.26	>.98	<10%	1.00	2400
F032/25W/XP/XL/SS	1	2400	QTP3X32T8/UNV ISL-SC	Instant	Parallel	30	277	0.12	>.95	<20%	1.00	2400
F032/25W/XP/XL/SS	1	2400	QTP3X32T8/UNV ISN-SC	Instant	Parallel	33	120	0.27	>.98	<10%	1.14	2735
F032/25W/XP/XL/SS	1	2400	QTP3X32T8/UNV ISN-SC	Instant	Parallel	33	277	0.13	>.95	<20%	1.14	2735
F032/25W/XP/XL/SS	1	2400	QHE4X32T8/UNV ISL-SC	Instant	Parallel	31	120	0.26	>.98	<10%	1.17	2810
F032/25W/XP/XL/SS	1	2400	QHE4X32T8/UNV ISL-SC	Instant	Parallel	31	277	0.12	>.92	<20%	1.17	2810
F032/25W/XP/XL/SS	1	2400	QTP4X32T8/UNV ISL-SC	Instant	Parallel	32	120	0.28	>.98	<10%	1.17	2810
F032/25W/XP/XL/SS	1	2400	QTP4X32T8/UNV ISL-SC	Instant	Parallel	32	277	0.14	>.92	<20%	1.17	2810
F032/25W/XP/XL/SS	1	2400	QHE1x32T8/UNV PSN-MC	PROStart®	Parallel	23	120	0.20	>.98	<10%	0.88	2110
F032/25W/XP/XL/SS	1	2400	QHE1x32T8/UNV PSN-MC	PROStart	Parallel	23	277	0.09	>.98	<10%	0.88	2110
F032/25W/XP/XL/SS	1	2400	QHE2x32T8/UNV PSN-MC	PROStart	Parallel	30	120	0.25	>.98	<10%	1.08	2590
F032/25W/XP/XL/SS	1	2400	QHE2x32T8/UNV PSN-MC	PROStart	Parallel	30	277	0.11	>.95	<15%	1.08	2590
F032/25W/XP/XL/SS	1	2400	QHE3x32T8/UNV PSN-SC	PROStart	Parallel	32	120	0.27	>.98	<10%	1.14	2740
F032/25W/XP/XL/SS	1	2400	QHE3x32T8/UNV PSN-SC	PROStart	Parallel	33	277	0.13	>.90	<15%	1.14	2740
F032/25W/XP/XL/SS	1	2400	QHE1X32T8/UNV PSX-MC	PROStart	Parallel	20	120	0.16	>.98	<10%	0.72	1730
F032/25W/XP/XL/SS	1	2400	QHE1X32T8/UNV PSX-MC	PROStart	Parallel	19	277	0.07	>.98	<10%	0.72	1730
F032/25W/XP/XL/SS	2	2400	QHE2X32T8/UNV ISL-SC	Instant	Parallel	38	120	0.32	>.98	<10%	0.78	3745
F032/25W/XP/XL/SS	2	2400	QHE2X32T8/UNV ISL-SC	Instant	Parallel	38	277	0.14	>.98	<10%	0.78	3745
F032/25W/XP/XL/SS	2	2400	QHE2X32T8/UNV ISN-SC	Instant	Parallel	43	120	0.36	>.98	<10%	0.88	4225
F032/25W/XP/XL/SS	2	2400	QHE2X32T8/UNV ISN-SC	Instant	Parallel	43	277	0.16	>.98	<10%	0.88	4225
F032/25W/XP/XL/SS	2	2400	QHE2x32T8/UNV ISM-SC	Instant	Parallel	50	120	0.41	>.98	<10%	1.00	4800
F032/25W/XP/XL/SS	2	2400	QHE2x32T8/UNV ISM-SC	Instant	Parallel	49	277	0.18	>.98	<10%	1.00	4800
F032/25W/XP/XL/SS	2	2400	QHE2X32T8/UNV ISH-SC	Instant	Parallel	58	120	0.50	>.98	<10%	1.20	5760
F032/25W/XP/XL/SS	2	2400	QHE2X32T8/UNV ISH-SC	Instant	Parallel	57	277	0.22	>.98	<15%	1.20	5760
F032/25W/XP/XL/SS	2	2400	QTP2X32T8/UNV ISL-SC	Instant	Parallel	40	120	0.34	>.98	<10%	0.78	3745
F032/25W/XP/XL/SS	2	2400	QTP2X32T8/UNV ISL-SC	Instant	Parallel	40	277	0.15	>.98	<10%	0.78	3745
F032/25W/XP/XL/SS	2	2400	QTP2X32T8/UNV ISN-SC	Instant	Parallel	46	120	0.39	>.98	<10%	0.88	4225
F032/25W/XP/XL/SS	2	2400	QTP2X32T8/UNV ISN-SC	Instant	Parallel	46	277	0.16	>.98	<10%	0.88	4225
F032/25W/XP/XL/SS	2	2400	QTP2X32T8/UNV ISH-SC	Instant	Parallel	61	120	0.51	>.98	<10%	1.20	5760
F032/25W/XP/XL/SS	2	2400	QTP2X32T8/UNV ISH-SC	Instant	Parallel	61	277	0.22	>.98	<10%	1.20	5760
F032/25W/XP/XL/SS	2	2400	QHE3X32T8/UNV ISL-SC	Instant	Parallel	45	120	0.38	>.98	<10%	0.90	4320
F032/25W/XP/XL/SS	2	2400	QHE3X32T8/UNV ISL-SC	Instant	Parallel	45	277	0.17	>.97	<15%	0.90	4320
F032/25W/XP/XL/SS	2	2400	QHE3X32T8/UNV ISN-SC	Instant	Parallel	50	120	0.42	>.98	<10%	0.97	4655
F032/25W/XP/XL/SS	2	2400	QHE3X32T8/UNV ISN-SC	Instant	Parallel	50	277	0.19	>.98	<10%	0.97	4655
F032/25W/XP/XL/SS	2	2400	QHE3X32T8/UNV ISM-SC	Instant	Parallel	55	120	0.46	>.98	<10%	1.03	4945
F032/25W/XP/XL/SS	2	2400	QHE3X32T8/UNV ISM-SC	Instant	Parallel	55	277	0.21	>.95	<15%	1.03	4945
F032/25W/XP/XL/SS	2	2400	QTP3X32T8/UNV ISL-SC	Instant	Parallel	45	120	0.38	>.98	<10%	0.84	4030
F032/25W/XP/XL/SS	2	2400	QTP3X32T8/UNV ISL-SC	Instant	Parallel	45	277	0.18	>.98	<10%	0.84	4030
F032/25W/XP/XL/SS	2	2400	QTP3X32T8/UNV ISN-SC	Instant	Parallel	52	120	0.44	>.98	<10%	0.98	4705
F032/25W/XP/XL/SS	2	2400	QTP3X32T8/UNV ISN-SC	Instant	Parallel	52	277	0.19	>.95	<15%	0.98	4705
F032/25W/XP/XL/SS	2	2400	QHE4X32T8/UNV ISL-SC	Instant	Parallel	49	120	0.40	>.98	<10%	1.00	4800
F032/25W/XP/XL/SS	2	2400	QHE4X32T8/UNV ISL-SC	Instant	Parallel	49	277	0.19	>.95	<20%	1.00	4800

Note: Data above is listed above for QHE ISL, ISN, & ISH models (for Type CC models add "-1" to the model description). For complete details see product specification pages.



Linear T8 Fluorescent Lamps

QUICKSYSTEMS

System Performance Guide

Lamp Type	# of Lamps	Lamp Lumens	Ballast Description	Start Type	Lamp Circuit	System Watts	Input Volts	Input Amps	Power Factor	THD	Ballast Factor	System Lumens
F032/25W/XP/XL/SS	2	2400	QHE4X32T8/UNV ISN-SC	Instant	Parallel	55	120	0.46	>.98	<10%	1.04	4990
F032/25W/XP/XL/SS	2	2400	QHE4X32T8/UNV ISN-SC	Instant	Parallel	55	277	0.21	>.95	<20%	1.04	4990
F032/25W/XP/XL/SS	2	2400	QHE4X32T8/UNV ISM-SC	Instant	Parallel	59	120	0.50	>.98	<10%	1.10	5280
F032/25W/XP/XL/SS	2	2400	QHE4X32T8/UNV ISM-SC	Instant	Parallel	59	277	0.22	>.95	<15%	1.10	5280
F032/25W/XP/XL/SS	2	2400	QTP4X32T8/UNV ISL-SC	Instant	Parallel	48	120	0.40	>.98	<10%	0.91	4370
F032/25W/XP/XL/SS	2	2400	QTP4X32T8/UNV ISL-SC	Instant	Parallel	48	277	0.18	>.95	<15%	0.91	4370
F032/25W/XP/XL/SS	2	2400	QTP4X32T8/UNV ISN-SC	Instant	Parallel	55	120	0.46	>.98	<15%	1.01	4850
F032/25W/XP/XL/SS	2	2400	QTP4X32T8/UNV ISN-SC	Instant	Parallel	55	277	0.20	>.98	<15%	1.01	4850
F032/25W/XP/XL/SS	2	2400	QHE2x32T8/UNV PSN-MC	PROStart®	Parallel	45	120	0.38	>.98	>.98	0.88	4225
F032/25W/XP/XL/SS	2	2400	QHE2x32T8/UNV PSN-MC	PROStart	Parallel	44	277	0.16	>.98	>.98	0.88	4225
F032/25W/XP/XL/SS	2	2400	QHE3x32T8/UNV PSN-SC	PROStart	Parallel	52	120	0.44	>.98	>.98	0.98	4720
F032/25W/XP/XL/SS	2	2400	QHE3x32T8/UNV PSN-SC	PROStart	Parallel	51	277	0.19	>.95	<10%	0.98	4720
F032/25W/XP/XL/SS	2	2400	QHE4x32T8/UNV PSN-SC	PROStart	Parallel	55	120	0.46	>.98	>.98	1.06	5090
F032/25W/XP/XL/SS	2	2400	QHE4x32T8/UNV PSN-SC	PROStart	Parallel	55	277	0.21	>.95	<15%	1.06	5090
F032/25W/XP/XL/SS	2	2400	QHE2X32T8/UNV PSH-HT	PROStart	Parallel	56	120	0.47	>.98	<10%	1.15	5520
F032/25W/XP/XL/SS	2	2400	QHE2X32T8/UNV PSH-HT	PROStart	Parallel	55	277	0.20	>.98	<10%	1.15	5520
F032/25W/XP/XL/SS	2	2400	QHE2X32T8/UNV PSX-MC	PROStart	Parallel	38	120	0.31	>.98	<10%	0.72	3455
F032/25W/XP/XL/SS	2	2400	QHE2X32T8/UNV PSX-MC	PROStart	Parallel	37	277	0.14	>.98	<10%	0.72	3455
F032/25W/XP/XL/SS	3	2400	QHE3X32T8/UNV ISL-SC	Instant	Parallel	57	120	0.48	>.98	<10%	0.78	5615
F032/25W/XP/XL/SS	3	2400	QHE3X32T8/UNV ISL-SC	Instant	Parallel	57	277	0.21	>.98	<10%	0.78	5615
F032/25W/XP/XL/SS	3	2400	QHE3X32T8/UNV ISN-SC	Instant	Parallel	65	120	0.55	>.98	<10%	0.88	6335
F032/25W/XP/XL/SS	3	2400	QHE3X32T8/UNV ISN-SC	Instant	Parallel	64	277	0.23	>.98	<10%	0.88	6335
F032/25W/XP/XL/SS	3	2400	QHE3x32T8/UNV ISM-SC	Instant	Parallel	70	120	0.59	>.98	<10%	0.98	7055
F032/25W/XP/XL/SS	3	2400	QHE3x32T8/UNV ISM-SC	Instant	Parallel	70	277	0.26	>.98	<10%	0.98	7055
F032/25W/XP/XL/SS	3	2400	QHE3X32T8/UNV ISH-SC	Instant	Parallel	87	120	0.72	>.98	<10%	1.18	8495
F032/25W/XP/XL/SS	3	2400	QHE3X32T8/UNV ISH-SC	Instant	Parallel	86	277	0.31	>.98	<10%	1.18	8495
F032/25W/XP/XL/SS	3	2400	QTP3X32T8/UNV ISL-SC	Instant	Parallel	59	120	0.50	>.98	<10%	0.78	5615
F032/25W/XP/XL/SS	3	2400	QTP3X32T8/UNV ISL-SC	Instant	Parallel	59	277	0.21	>.98	<10%	0.78	5615
F032/25W/XP/XL/SS	3	2400	QTP3X32T8/UNV ISN-SC	Instant	Parallel	67	120	0.58	>.98	<10%	0.88	6335
F032/25W/XP/XL/SS	3	2400	QTP3X32T8/UNV ISN-SC	Instant	Parallel	67	277	0.25	>.98	<10%	0.88	6335
F032/25W/XP/XL/SS	3	2400	QTP3X32T8/UNV ISH-SC	Instant	Parallel	89	120	0.75	>.98	<10%	1.18	8495
F032/25W/XP/XL/SS	3	2400	QTP3X32T8/UNV ISH-SC	Instant	Parallel	88	277	0.32	>.98	<10%	1.18	8495
F032/25W/XP/XL/SS	3	2400	QHE4X32T8/UNV ISL-SC	Instant	Parallel	65	120	0.53	>.98	<10%	0.85	6120
F032/25W/XP/XL/SS	3	2400	QHE4X32T8/UNV ISL-SC	Instant	Parallel	64	277	0.24	>.96	<15%	0.85	6120
F032/25W/XP/XL/SS	3	2400	QHE4X32T8/UNV ISN-SC	Instant	Parallel	72	120	0.60	>.98	<10%	0.93	6695
F032/25W/XP/XL/SS	3	2400	QHE4X32T8/UNV ISN-SC	Instant	Parallel	72	277	0.26	>.98	<15%	0.93	6695
F032/25W/XP/XL/SS	3	2400	QHE4X32T8/UNV ISM-SC	Instant	Parallel	80	120	0.67	>.98	<10%	1.04	7490
F032/25W/XP/XL/SS	3	2400	QHE4X32T8/UNV ISM-SC	Instant	Parallel	80	277	0.29	>.98	<10%	1.04	7490
F032/25W/XP/XL/SS	3	2400	QTP4X32T8/UNV ISL-SC	Instant	Parallel	64	120	0.54	>.98	<10%	0.82	5905
F032/25W/XP/XL/SS	3	2400	QTP4X32T8/UNV ISL-SC	Instant	Parallel	64	277	0.24	>.97	<10%	0.82	5905
F032/25W/XP/XL/SS	3	2400	QTP4X32T8/UNV ISN-SC	Instant	Parallel	72	120	0.60	>.98	<10%	0.92	6625
F032/25W/XP/XL/SS	3	2400	QTP4X32T8/UNV ISN-SC	Instant	Parallel	72	277	0.26	>.98	<15%	0.92	6625
F032/25W/XP/XL/SS	3	2400	QHE3x32T8/UNV PSN-SC	PROStart	Parallel	67	120	0.56	>.98	<10%	0.88	6335
F032/25W/XP/XL/SS	3	2400	QHE3x32T8/UNV PSN-SC	PROStart	Parallel	66	277	0.24	>.98	<10%	0.88	6335
F032/25W/XP/XL/SS	3	2400	QHE4x32T8/UNV PSN-SC	PROStart	Parallel	75	120	0.63	>.98	<10%	0.96	6940
F032/25W/XP/XL/SS	3	2400	QHE4x32T8/UNV PSN-SC	PROStart	Parallel	74	277	0.27	>.98	<10%	0.96	6940
F032/25W/XP/XL/SS	3	2400	QHE3X32T8/UNV PSH-HT	PROStart	Parallel	85	120	0.72	>.98	<10%	1.15	8280
F032/25W/XP/XL/SS	3	2400	QHE3X32T8/UNV PSH-HT	PROStart	Parallel	84	277	0.31	>.98	<10%	1.15	8280
F032/25W/XP/XL/SS	3	2400	QHE3X32T8/UNV PSX-SC	PROStart	Parallel	56	120	0.47	>.98	<10%	0.71	5110
F032/25W/XP/XL/SS	3	2400	QHE3X32T8/UNV PSX-SC	PROStart	Parallel	55	277	0.20	>.98	<10%	0.71	5110
F032/25W/XP/XL/SS	4	2400	QHE4X32T8/UNV ISL-SC	Instant	Parallel	76	120	0.62	>.98	<10%	0.78	7490
F032/25W/XP/XL/SS	4	2400	QHE4X32T8/UNV ISL-SC	Instant	Parallel	75	277	0.27	>.98	<10%	0.78	7490
F032/25W/XP/XL/SS	4	2400	QHE4X32T8/UNV ISN-SC	Instant	Parallel	85	120	0.71	>.98	<10%	0.88	8450
F032/25W/XP/XL/SS	4	2400	QHE4X32T8/UNV ISN-SC	Instant	Parallel	85	277	0.30	>.98	<10%	0.88	8450
F032/25W/XP/XL/SS	4	2400	QHE4x32T8/UNV ISM-SC	Instant	Parallel	99	120	0.83	>.98	<10%	0.98	9410
F032/25W/XP/XL/SS	4	2400	QHE4x32T8/UNV ISM-SC	Instant	Parallel	98	277	0.36	>.98	<10%	0.98	9410
F032/25W/XP/XL/SS	4	2400	QHE4X32T8/UNV ISH	Instant	Parallel	112	120	0.94	>.98	<10%	1.15	11040
F032/25W/XP/XL/SS	4	2400	QHE4X32T8/UNV ISH	Instant	Parallel	111	277	0.41	>.98	<10%	1.15	11040
F032/25W/XP/XL/SS	4	2400	QTP4X32T8/UNV ISL-SC	Instant	Parallel	77	120	0.63	>.98	<10%	0.78	7490
F032/25W/XP/XL/SS	4	2400	QTP4X32T8/UNV ISL-SC	Instant	Parallel	77	277	0.28	>.97	<10%	0.78	7490
F032/25W/XP/XL/SS	4	2400	QTP4X32T8/UNV ISN-SC	Instant	Parallel	88	120	0.74	>.98	<10%	0.88	8450
F032/25W/XP/XL/SS	4	2400	QTP4X32T8/UNV ISN-SC	Instant	Parallel	88	277	0.31	>.98	<15%	0.88	8450
F032/25W/XP/XL/SS	4	2400	QHE4x32T8/UNV PSN-SC	PROStart	Parallel	91	120	0.77	>.98	<10%	0.88	8450
F032/25W/XP/XL/SS	4	2400	QHE4x32T8/UNV PSN-SC	PROStart	Parallel	89	277	0.33	>.98	<10%	0.88	8450
F032/25W/XP/XL/SS	4	2400	QHE4X32T8/UNV PSH-HT	PROStart	Parallel	112	120	0.95	>.98	<10%	1.15	11040
F032/25W/XP/XL/SS	4	2400	QHE4X32T8/UNV PSH-HT	PROStart	Parallel	110	277	0.41	>.98	<10%	1.15	11040
F032/25W/XP/XL/SS	4	2400	QHE4x32T8/UNV PSX-SC	PROStart	Parallel	73	120	0.61	>.98	<10%	0.71	6815
F032/25W/XP/XL/SS	4	2400	QHE4x32T8/UNV PSX-SC	PROStart	Parallel	71	277	0.26	>.98	<10%	0.71	6815

Note: Data above is listed above for QHE ISL, ISN, & ISH models (for Type CC models add "-1" to the model description). For complete details see product specification pages.

F032XP

QUICKSYSTEMS

Linear T8 Fluorescent Lamps

As the industry's leading systems company, OSRAM SYLVANIA offers the most comprehensive data on how QUICKTRONIC® electronic ballasts will perform with various combinations of lamps.

System Performance Guide

Lamp Type	# of Lamps	Lamp Lumens	Ballast Description	Start Type	Lamp Circuit	System Watts	Input Volts	Input Amps	Power Factor	THD	Ballast Factor	System Lumens
F032XP	1	3000	QHE1X32T8/UNV ISL-SC	Instant	Parallel	25	120	0.21	>.98	<10%	0.78	2340
F032XP	1	3000	QHE1X32T8/UNV ISL-SC	Instant	Parallel	25	277	0.09	>.98	<10%	0.78	2340
F032XP	1	3000	QHE1X32T8/UNV ISN-SC	Instant	Parallel	28	120	0.25	>.98	<10%	0.88	2640
F032XP	1	3000	QHE1X32T8/UNV ISN-SC	Instant	Parallel	28	277	0.11	>.98	<10%	0.88	2640
F032XP	1	3000	QHE1X32T8/UNV ISH-SC	Instant	Parallel	38	120	0.32	>.98	<10%	1.20	3600
F032XP	1	3000	QHE1X32T8/UNV ISH-SC	Instant	Parallel	38	277	0.14	>.98	<10%	1.20	3600
F032XP	1	3000	QTP1X32T8/UNV ISN-SC	Instant	Parallel	30	120	0.26	>.98	<10%	0.88	2640
F032XP	1	3000	QTP1X32T8/UNV ISN-SC	Instant	Parallel	30	277	0.11	>.98	<10%	0.88	2640
F032XP	1	3000	QHE2X32T8/UNV ISL-SC	Instant	Parallel	31	120	0.27	>.95	<10%	0.95	2850
F032XP	1	3000	QHE2X32T8/UNV ISL-SC	Instant	Parallel	31	277	0.12	>.95	<10%	0.95	2850
F032XP	1	3000	QHE2X32T8/UNV ISN-SC	Instant	Parallel	34	120	0.27	>.95	<10%	1.05	3150
F032XP	1	3000	QHE2X32T8/UNV ISN-SC	Instant	Parallel	34	277	0.11	>.95	<10%	1.05	3150
F032XP	1	3000	QHE2X32T8/UNV ISM-SC	Instant	Parallel	40	120	0.34	>.98	<10%	1.15	3450
F032XP	1	3000	QHE2X32T8/UNV ISM-SC	Instant	Parallel	40	277	0.15	>.95	<15%	1.15	3450
F032XP	1	3000	QTP2X32T8/UNV ISL-SC	Instant	Parallel	32	120	0.30	>.98	<10%	0.90	2700
F032XP	1	3000	QTP2X32T8/UNV ISL-SC	Instant	Parallel	32	277	0.12	>.97	<10%	0.90	2700
F032XP	1	3000	QTP2X32T8/UNV ISN-SC	Instant	Parallel	36	120	0.30	>.95	<10%	1.04	3120
F032XP	1	3000	QTP2X32T8/UNV ISN-SC	Instant	Parallel	36	277	0.14	>.95	<10%	1.04	3120
F032XP	1	3000	QHE3X32T8/UNV ISL-SC	Instant	Parallel	36	120	0.30	>.98	<15%	1.02	3060
F032XP	1	3000	QHE3X32T8/UNV ISL-SC	Instant	Parallel	36	277	0.13	>.96	<20%	1.02	3060
F032XP	1	3000	QHE3X32T8/UNV ISN-SC	Instant	Parallel	40	120	0.34	>.98	<10%	1.20	3600
F032XP	1	3000	QHE3X32T8/UNV ISN-SC	Instant	Parallel	40	277	0.15	>.92	<15%	1.20	3600
F032XP	1	3000	QTP3X32T8/UNV ISL-SC	Instant	Parallel	37	120	0.29	>.98	<10%	1.03	3090
F032XP	1	3000	QTP3X32T8/UNV ISL-SC	Instant	Parallel	37	277	0.13	>.96	<20%	1.03	3090
F032XP	1	3000	QTP3X32T8/UNV ISN-SC	Instant	Parallel	41	120	0.34	>.95	<15%	1.19	3570
F032XP	1	3000	QTP3X32T8/UNV ISN-SC	Instant	Parallel	41	277	0.15	>.98	<10%	1.19	3570
F032XP	1	3000	QHE4X32T8/UNV ISL-SC	Instant	Parallel	39	120	0.33	>.98	<15%	1.17	3510
F032XP	1	3000	QHE4X32T8/UNV ISL-SC	Instant	Parallel	39	277	0.15	>.93	<20%	1.17	3510
F032XP	1	3000	QTP4X32T8/UNV ISL-SC	Instant	Parallel	38	120	0.31	>.98	<10%	1.06	3180
F032XP	1	3000	QTP4X32T8/UNV ISL-SC	Instant	Parallel	38	277	0.15	>.92	<30%	1.06	3180
F032XP	1	3000	QHE1x32T8/UNV PSN-MC	PROStart®	Parallel	30	120	0.26	>.98	<10%	0.88	2640
F032XP	1	3000	QHE1x32T8/UNV PSN-MC	PROStart	Parallel	29	277	0.11	>.98	<10%	0.88	2640
F032XP	1	3000	QHE2x32T8/UNV PSN-MC	PROStart	Parallel	36	120	0.30	>.98	<10%	1.07	3215
F032XP	1	3000	QHE2x32T8/UNV PSN-MC	PROStart	Parallel	36	277	0.13	>.98	<15%	1.07	3215
F032XP	1	3000	QHE3x32T8/UNV PSN-SC	PROStart	Parallel	39	120	0.33	>.98	<10%	1.14	3410
F032XP	1	3000	QHE3x32T8/UNV PSN-SC	PROStart	Parallel	40	277	0.16	>.95	<15%	1.14	3410
F032XP	1	3000	QHE4x32T8/UNV PSN-SC	PROStart	Parallel	41	120	0.34	>.98	<10%	1.20	3600
F032XP	1	3000	QHE4x32T8/UNV PSN-SC	PROStart	Parallel	41	277	0.16	>.90	<15%	1.20	3600
F032XP	1	3000	QHE1X32T8/UNV PSX-MC	PROStart	Parallel	25	120	0.21	>.98	<10%	0.72	2160
F032XP	1	3000	QHE1X32T8/UNV PSX-MC	PROStart	Parallel	24	277	0.09	>.98	<10%	0.72	2160
F032XP	2	3000	QHE2X32T8/UNV ISL-SC	Instant	Parallel	48	120	0.41	>.98	<10%	0.78	4680
F032XP	2	3000	QHE2X32T8/UNV ISL-SC	Instant	Parallel	48	277	0.18	>.98	<10%	0.78	4680
F032XP	2	3000	QHE2X32T8/UNV ISN-SC	Instant	Parallel	55	120	0.47	>.98	<10%	0.88	5280
F032XP	2	3000	QHE2X32T8/UNV ISN-SC	Instant	Parallel	55	277	0.20	>.98	<10%	0.88	5280
F032XP	2	3000	QHE2x32T8/UNV ISM-SC	Instant	Parallel	63	120	0.54	>.98	<10%	1.00	6000
F032XP	2	3000	QHE2x32T8/UNV ISM-SC	Instant	Parallel	62	277	0.23	>.98	<10%	1.00	6000
F032XP	2	3000	QHE2X32T8/UNV ISH-SC	Instant	Parallel	74	120	0.65	>.98	<10%	1.20	7200
F032XP	2	3000	QHE2X32T8/UNV ISH-SC	Instant	Parallel	73	277	0.28	>.98	<10%	1.20	7200
F032XP	2	3000	QTP2X32T8/UNV ISL-SC	Instant	Parallel	51	120	0.44	>.98	<10%	0.78	4680
F032XP	2	3000	QTP2X32T8/UNV ISL-SC	Instant	Parallel	51	277	0.19	>.98	<10%	0.78	4680
F032XP	2	3000	QTP2X32T8/UNV ISN-SC	Instant	Parallel	59	120	0.50	>.98	<10%	0.88	5280
F032XP	2	3000	QTP2X32T8/UNV ISN-SC	Instant	Parallel	59	277	0.21	>.98	<10%	0.88	5280
F032XP	2	3000	QTP2X32T8/UNV ISH-SC	Instant	Parallel	78	120	0.65	>.98	<10%	1.20	7200
F032XP	2	3000	QTP2X32T8/UNV ISH-SC	Instant	Parallel	78	277	0.28	>.98	<10%	1.20	7200
F032XP	2	3000	QHE3X32T8/UNV ISL-SC	Instant	Parallel	56	120	0.46	>.97	<15%	0.90	5400
F032XP	2	3000	QHE3X32T8/UNV ISL-SC	Instant	Parallel	56	277	0.20	>.97	<15%	0.90	5400
F032XP	2	3000	QHE3X32T8/UNV ISN-SC	Instant	Parallel	63	120	0.50	>.97	<15%	0.99	5940
F032XP	2	3000	QHE3X32T8/UNV ISN-SC	Instant	Parallel	62	277	0.22	>.97	<15%	0.99	5940
F032XP	2	3000	QHE3X32T8/UNV ISM-SC	Instant	Parallel	69	120	0.60	>.98	<10%	1.08	6480
F032XP	2	3000	QHE3X32T8/UNV ISM-SC	Instant	Parallel	69	277	0.25	>.98	<10%	1.08	6480
F032XP	2	3000	QTP3X32T8/UNV ISL-SC	Instant	Parallel	58	120	0.45	>.98	<10%	0.88	5280
F032XP	2	3000	QTP3X32T8/UNV ISL-SC	Instant	Parallel	58	277	0.20	>.98	<10%	0.88	5280
F032XP	2	3000	QTP3X32T8/UNV ISN-SC	Instant	Parallel	66	120	0.55	>.97	<15%	1.02	6120
F032XP	2	3000	QTP3X32T8/UNV ISN-SC	Instant	Parallel	66	277	0.24	>.97	<15%	1.02	6120

Note: Data above is listed above for QHE ISL, ISN, & ISH models (for Type CC models add "-1" to the model description). For complete details see product specification pages.



Linear T8 Fluorescent Lamps

QUICKSYSTEMS

System Performance Guide

Lamp Type	# of Lamps	Lamp Lumens	Ballast Description	Start Type	Lamp Circuit	System Watts	Input Volts	Input Amps	Power Factor	THD	Ballast Factor	System Lumens
F032XP	2	3000	QHE4X32T8/UNV ISL-SC	Instant	Parallel	62	120	0.52	>.98	<10%	0.98	5880
F032XP	2	3000	QHE4X32T8/UNV ISL-SC	Instant	Parallel	62	277	0.23	>.96	<15%	0.98	5880
F032XP	2	3000	QHE4X32T8/UNV ISN-SC	Instant	Parallel	69	120	0.60	>.97	<15%	1.08	6480
F032XP	2	3000	QHE4X32T8/UNV ISN-SC	Instant	Parallel	69	277	0.25	>.98	<15%	1.08	6480
F032XP	2	3000	QHE4X32T8/UNV ISM-SC	Instant	Parallel	74	120	0.62	>.98	<10%	1.16	6960
F032XP	2	3000	QHE4X32T8/UNV ISM-SC	Instant	Parallel	74	277	0.27	>.98	<15%	1.16	6960
F032XP	2	3000	QTP4X32T8/UNV ISL-SC	Instant	Parallel	61	120	0.50	>.98	<10%	0.93	5580
F032XP	2	3000	QHE4X32T8/UNV ISL-SC	Instant	Parallel	61	277	0.23	>.97	<10%	0.93	5580
F032XP	2	3000	QTP4X32T8/UNV ISN-SC	Instant	Parallel	69	120	0.59	>.98	<15%	1.07	6420
F032XP	2	3000	QTP4X32T8/UNV ISN-SC	Instant	Parallel	69	277	0.25	>.98	<15%	1.07	6420
F032XP	2	3000	QHE2X32T8/UNV PSN-MC	PROStart®	Parallel	57	120	0.48	>.98	<10%	0.88	5280
F032XP	2	3000	QHE2X32T8/UNV PSN-MC	PROStart	Parallel	55	277	0.21	>.98	<10%	0.88	5280
F032XP	2	3000	QHE3X32T8/UNV PSN-SC	PROStart	Parallel	65	120	0.54	>.98	<10%	0.98	5885
F032XP	2	3000	QHE3X32T8/UNV PSN-SC	PROStart	Parallel	64	277	0.24	>.98	<10%	0.98	5885
F032XP	2	3000	QHE4X32T8/UNV PSN-SC	PROStart	Parallel	68	120	0.57	>.98	<10%	1.06	6360
F032XP	2	3000	QHE4X32T8/UNV PSN-SC	PROStart	Parallel	67	277	0.25	>.95	<15%	1.06	6360
F032XP	2	3000	QHE2X32T8/UNV PSH-HT	PROStart	Parallel	72	120	0.60	>.98	<10%	1.15	6900
F032XP	2	3000	QHE2X32T8/UNV PSH-HT	PROStart	Parallel	70	277	0.27	>.98	<10%	1.15	6900
F032XP	2	3000	QHE2X32T8/UNV PSX-MC	PROStart	Parallel	48	120	0.40	>.98	<10%	0.72	4320
F032XP	2	3000	QHE2X32T8/UNV PSX-MC	PROStart	Parallel	47	277	0.17	>.98	<10%	0.72	4320
F032XP	3	3000	QHE3X32T8/UNV ISL-SC	Instant	Parallel	73	120	0.61	>.98	<10%	0.78	7020
F032XP	3	3000	QHE3X32T8/UNV ISL-SC	Instant	Parallel	72	277	0.27	>.98	<10%	0.78	7020
F032XP	3	3000	QHE3X32T8/UNV ISN-SC	Instant	Parallel	83	120	0.69	>.98	<10%	0.88	7920
F032XP	3	3000	QHE3X32T8/UNV ISN-SC	Instant	Parallel	82	277	0.30	>.98	<10%	0.88	7920
F032XP	3	3000	QHE3X32T8/UNV ISM-SC	Instant	Parallel	90	120	0.76	>.98	<10%	0.98	8820
F032XP	3	3000	QHE3X32T8/UNV ISM-SC	Instant	Parallel	89	277	0.40	>.98	<10%	0.98	8820
F032XP	3	3000	QHE3X32T8/UNV ISH-SC	Instant	Parallel	111	120	0.93	>.98	<10%	1.18	10620
F032XP	3	3000	QHE3X32T8/UNV ISH-SC	Instant	Parallel	109	277	0.40	>.98	<10%	1.18	10620
F032XP	3	3000	QTP3X32T8/UNV ISL-SC	Instant	Parallel	75	120	0.65	>.98	<10%	0.78	7020
F032XP	3	3000	QTP3X32T8/UNV ISL-SC	Instant	Parallel	75	277	0.27	>.98	<10%	0.78	7020
F032XP	3	3000	QTP3X32T8/UNV ISN-SC	Instant	Parallel	86	120	0.72	>.98	<10%	0.88	7920
F032XP	3	3000	QTP3X32T8/UNV ISN-SC	Instant	Parallel	86	277	0.31	>.98	<10%	0.88	7920
F032XP	3	3000	QTP3X32T8/UNV ISH-SC	Instant	Parallel	114	120	0.95	>.98	<10%	1.18	10620
F032XP	3	3000	QTP3X32T8/UNV ISH-SC	Instant	Parallel	111	277	0.41	>.98	<10%	1.18	10620
F032XP	3	3000	QHE4X32T8/UNV ISL-SC	Instant	Parallel	80	120	0.68	>.98	<10%	0.85	7650
F032XP	3	3000	QHE4X32T8/UNV ISL-SC	Instant	Parallel	80	277	0.28	>.98	<10%	0.85	7650
F032XP	3	3000	QHE4X32T8/UNV ISN-SC	Instant	Parallel	89	120	0.71	>.98	<15%	0.96	8640
F032XP	3	3000	QHE4X32T8/UNV ISN-SC	Instant	Parallel	89	277	0.31	>.98	<15%	0.96	8640
F032XP	3	3000	QHE4X32T8/UNV ISM-SC	Instant	Parallel	100	120	0.84	>.98	<10%	1.05	9450
F032XP	3	3000	QHE4X32T8/UNV ISM-SC	Instant	Parallel	99	277	0.36	>.98	<10%	1.05	9450
F032XP	3	3000	QTP4X32T8/UNV ISL-SC	Instant	Parallel	80	120	0.66	>.98	<10%	0.84	7560
F032XP	3	3000	QTP4X32T8/UNV ISL-SC	Instant	Parallel	80	277	0.29	>.97	<10%	0.84	7560
F032XP	3	3000	QTP4X32T8/UNV ISN-SC	Instant	Parallel	92	120	0.77	>.98	<15%	0.96	8640
F032XP	3	3000	QTP4X32T8/UNV ISN-SC	Instant	Parallel	92	277	0.33	>.98	<15%	0.96	8640
F032XP	3	3000	QHE3X32T8/UNV PSN-SC	PROStart	Parallel	83	120	0.69	>.98	<10%	0.88	7920
F032XP	3	3000	QHE3X32T8/UNV PSN-SC	PROStart	Parallel	82	277	0.29	>.98	<10%	0.88	7920
F032XP	3	3000	QHE4X32T8/UNV PSN-SC	PROStart	Parallel	91	120	0.77	>.98	<10%	0.96	8640
F032XP	3	3000	QHE4X32T8/UNV PSN-SC	PROStart	Parallel	89	277	0.33	>.98	<10%	0.96	8640
F032XP	3	3000	QHE3X32T8/UNV PSH-HT	PROStart	Parallel	110	120	0.94	>.98	<10%	1.15	10350
F032XP	3	3000	QHE3X32T8/UNV PSH-HT	PROStart	Parallel	108	277	0.40	>.98	<10%	1.15	10350
F032XP	3	3000	QHE3X32T8/UNV PSX-SC	PROStart	Parallel	69	120	0.58	>.98	<10%	0.71	6390
F032XP	3	3000	QHE3X32T8/UNV PSX-SC	PROStart	Parallel	67	277	0.25	>.98	<10%	0.71	6390
F032XP	4	3000	QHE4X32T8/UNV ISL-SC	Instant	Parallel	95	120	0.80	>.98	<10%	0.78	9360
F032XP	4	3000	QHE4X32T8/UNV ISL-SC	Instant	Parallel	95	277	0.35	>.98	<10%	0.78	9360
F032XP	4	3000	QHE4X32T8/UNV ISN-SC	Instant	Parallel	108	120	0.91	>.98	<10%	0.88	10560
F032XP	4	3000	QHE4X32T8/UNV ISN-SC	Instant	Parallel	107	277	0.39	>.98	<10%	0.88	10560
F032XP	4	3000	QHE4X32T8/UNV ISM-SC	Instant	Parallel	122	120	1.02	>.98	<10%	0.98	11760
F032XP	4	3000	QHE4X32T8/UNV ISM-SC	Instant	Parallel	120	277	0.44	>.98	<10%	0.98	11760
F032XP	4	3000	QHE4X32T8/UNV ISH	Instant	Parallel	144	120	1.21	>.98	<10%	1.15	13800
F032XP	4	3000	QHE4X32T8/UNV ISH	Instant	Parallel	141	277	0.52	>.98	<10%	1.15	13800
F032XP	4	3000	QTP4X32T8/UNV ISL-SC	Instant	Parallel	98	120	0.80	>.98	<10%	0.78	9360
F032XP	4	3000	QTP4X32T8/UNV ISL-SC	Instant	Parallel	98	277	0.35	>.98	<10%	0.78	9360
F032XP	4	3000	QTP4X32T8/UNV ISN-SC	Instant	Parallel	112	120	0.95	>.98	<10%	0.88	10560
F032XP	4	3000	QTP4X32T8/UNV ISN-SC	Instant	Parallel	112	277	0.40	>.98	<10%	0.88	10560
F032XP	4	3000	QHE4X32T8/UNV PSN-SC	PROStart	Parallel	111	120	0.93	>.98	<10%	0.88	10560
F032XP	4	3000	QHE4X32T8/UNV PSN-SC	PROStart	Parallel	108	277	0.39	>.98	<10%	0.88	10560
F032XP	4	3000	QHE4X32T8/UNV PSH-HT	PROStart	Parallel	143	120	1.22	>.98	<10%	1.15	13800
F032XP	4	3000	QHE4X32T8/UNV PSH-HT	PROStart	Parallel	141	277	0.53	>.98	<10%	1.15	13800
F032XP	4	3000	QHE4X32T8/UNV PSX-SC	PROStart	Parallel	90	120	0.76	>.98	<10%	0.71	8520
F032XP	4	3000	QHE4X32T8/UNV PSX-SC	PROStart	Parallel	89	277	0.32	>.98	<10%	0.71	8520

Note: Data above is listed above for QHE ISL, ISN, & ISH models (for Type CC models add "-1" to the model description). For complete details see product specification pages.

F030/XP/SS

QUICKSYSTEMS

Linear T8 Fluorescent Lamps

As the industry's leading systems company, OSRAM SYLVANIA offers the most comprehensive data on how QUICKTRONIC® electronic ballasts will perform with various combinations of lamps.

System Performance Guide

Lamp Type	# of Lamps	Lamp Lumens	Ballast Description	Start Type	Lamp Circuit	System Watts	Input Volts	Input Amps	Power Factor	THD	Ballast Factor	System Lumens
F030/SS	1	2850	QHE1X32T8/UNV ISL-SC	Instant	Parallel	24	120	0.20	>.98	<10%	0.78	2225
F030/SS	1	2850	QHE1X32T8/UNV ISL-SC	Instant	Parallel	24	277	0.09	>.98	<10%	0.78	2225
F030/SS	1	2850	QHE1X32T8/UNV ISN-SC	Instant	Parallel	26	120	0.22	>.98	<10%	0.88	2510
F030/SS	1	2850	QHE1X32T8/UNV ISN-SC	Instant	Parallel	26	277	0.09	>.98	<10%	0.88	2510
F030/SS	1	2850	QHE1X32T8/UNV ISH-SC	Instant	Parallel	36	120	0.30	>.98	<10%	1.20	3420
F030/SS	1	2850	QHE1X32T8/UNV ISH-SC	Instant	Parallel	36	277	0.13	>.96	<15%	1.20	3420
F030/SS	1	2850	QTP1X32T8/UNV ISN-SC	Instant	Parallel	28	120	0.25	>.98	<10%	0.88	2510
F030/SS	1	2850	QTP1X32T8/UNV ISN-SC	Instant	Parallel	28	277	0.11	>.98	<10%	0.88	2510
F030/SS	1	2850	QHE2X32T8/UNV ISL-SC	Instant	Parallel	29	120	0.25	>.98	<10%	0.95	2710
F030/SS	1	2850	QHE2X32T8/UNV ISL-SC	Instant	Parallel	29	277	0.10	>.98	<15%	0.95	2710
F030/SS	1	2850	QHE2X32T8/UNV ISN-SC	Instant	Parallel	32	120	0.26	>.98	<10%	1.05	2995
F030/SS	1	2850	QHE2X32T8/UNV ISN-SC	Instant	Parallel	32	277	0.11	>.98	<15%	1.05	2995
F030/SS	1	2850	QHE2X32T8/UNV ISM-SC	Instant	Parallel	37	120	0.31	>.95	<10%	1.15	3280
F030/SS	1	2850	QHE2X32T8/UNV ISM-SC	Instant	Parallel	37	277	0.15	>.85	<15%	1.15	3280
F030/SS	1	2850	QTP2X32T8/UNV ISL-SC	Instant	Parallel	31	120	0.26	>.98	<10%	0.90	2565
F030/SS	1	2850	QTP2X32T8/UNV ISL-SC	Instant	Parallel	31	277	0.12	>.96	<15%	0.90	2565
F030/SS	1	2850	QTP2X32T8/UNV ISN-SC	Instant	Parallel	34	120	0.28	>.98	<10%	1.04	2965
F030/SS	1	2850	QTP2X32T8/UNV ISN-SC	Instant	Parallel	34	277	0.13	>.98	<15%	1.04	2965
F030/SS	1	2850	QHE3X32T8/UNV ISL-SC	Instant	Parallel	33	120	0.28	>.98	<15%	1.02	2905
F030/SS	1	2850	QHE3X32T8/UNV ISL-SC	Instant	Parallel	34	277	0.13	>.95	<20%	1.02	2905
F030/SS	1	2850	QHE3X32T8/UNV ISN-SC	Instant	Parallel	37	120	0.31	>.95	<10%	1.20	3420
F030/SS	1	2850	QHE3X32T8/UNV ISN-SC	Instant	Parallel	37	277	0.15	>.86	<15%	1.20	3420
F030/SS	1	2850	QTP3X32T8/UNV ISL-SC	Instant	Parallel	35	120	0.27	>.98	<10%	1.03	2935
F030/SS	1	2850	QTP3X32T8/UNV ISL-SC	Instant	Parallel	35	277	0.13	>.92	<25%	1.03	2935
F030/SS	1	2850	QTP3X32T8/UNV ISN-SC	Instant	Parallel	38	120	0.31	>.98	<10%	1.19	3390
F030/SS	1	2850	QTP3X32T8/UNV ISN-SC	Instant	Parallel	38	277	0.14	>.96	<15%	1.19	3390
F030/SS	1	2850	QHE4X32T8/UNV ISL-SC	Instant	Parallel	35	120	0.29	>.98	<15%	1.17	3335
F030/SS	1	2850	QHE4X32T8/UNV ISL-SC	Instant	Parallel	36	277	0.14	>.93	<20%	1.17	3335
F030/SS	1	2850	QTP4X32T8/UNV ISL-SC	Instant	Parallel	35	120	0.29	>.98	<10%	1.06	3020
F030/SS	1	2850	QTP4X32T8/UNV ISL-SC	Instant	Parallel	35	277	0.14	>.91	<25%	1.06	3020
F030/SS	1	2850	QHE1x32T8/UNV PSN-MC	PROStart®	Parallel	28	120	0.24	>.98	<10%	0.88	2510
F030/SS	1	2850	QHE1x32T8/UNV PSN-MC	PROStart	Parallel	26	277	0.10	>.98	<10%	0.88	2510
F030/SS	1	2850	QHE2x32T8/UNV PSN-MC	PROStart	Parallel	34	120	0.29	>.98	<10%	1.07	3060
F030/SS	1	2850	QHE2x32T8/UNV PSN-MC	PROStart	Parallel	34	277	0.13	>.98	<15%	1.07	3060
F030/SS	1	2850	QHE3x32T8/UNV PSN-SC	PROStart	Parallel	38	120	0.32	>.98	<10%	1.13	3230
F030/SS	1	2850	QHE3x32T8/UNV PSN-SC	PROStart	Parallel	38	277	0.15	>.95	<15%	1.13	3230
F030/SS	1	2850	QHE1X32T8/UNV PSX-MC	PROStart	Parallel	23	120	0.21	>.98	<10%	0.72	2050
F030/SS	1	2850	QHE1X32T8/UNV PSX-MC	PROStart	Parallel	23	277	0.09	>.98	<10%	0.72	2050
F030/SS	2	2850	QHE2X32T8/UNV ISL-SC	Instant	Parallel	45	120	0.38	>.98	<10%	0.78	4445
F030/SS	2	2850	QHE2X32T8/UNV ISL-SC	Instant	Parallel	45	277	0.16	>.98	<10%	0.78	4445
F030/SS	2	2850	QHE2X32T8/UNV ISN-SC	Instant	Parallel	52	120	0.44	>.98	<10%	0.88	5015
F030/SS	2	2850	QHE2X32T8/UNV ISN-SC	Instant	Parallel	52	277	0.19	>.98	<10%	0.88	5015
F030/SS	2	2850	QHE2x32T8/UNV ISM-SC	Instant	Parallel	58	120	0.49	>.98	<10%	1.00	5700
F030/SS	2	2850	QHE2x32T8/UNV ISM-SC	Instant	Parallel	58	277	0.21	>.98	<10%	1.00	5700
F030/SS	2	2850	QHE2X32T8/UNV ISH-SC	Instant	Parallel	70	120	0.59	>.98	<10%	1.20	6840
F030/SS	2	2850	QHE2X32T8/UNV ISH-SC	Instant	Parallel	69	277	0.25	>.98	<15%	1.20	6840
F030/SS	2	2850	QTP2X32T8/UNV ISL-SC	Instant	Parallel	48	120	0.41	>.98	<10%	0.78	4445
F030/SS	2	2850	QTP2X32T8/UNV ISL-SC	Instant	Parallel	48	277	0.18	>.98	<10%	0.78	4445
F030/SS	2	2850	QTP2X32T8/UNV ISN-SC	Instant	Parallel	55	120	0.46	>.98	<10%	0.88	5015
F030/SS	2	2850	QTP2X32T8/UNV ISN-SC	Instant	Parallel	55	277	0.20	>.98	<10%	0.88	5015
F030/SS	2	2850	QTP2X32T8/UNV ISH-SC	Instant	Parallel	73	120	0.61	>.98	<10%	1.20	6840
F030/SS	2	2850	QTP2X32T8/UNV ISH-SC	Instant	Parallel	73	277	0.26	>.98	<10%	1.20	6840
F030/SS	2	2850	QHE3X32T8/UNV ISL-SC	Instant	Parallel	53	120	0.43	>.98	<10%	0.90	5130
F030/SS	2	2850	QHE3X32T8/UNV ISL-SC	Instant	Parallel	53	277	0.19	>.97	<15%	0.90	5130
F030/SS	2	2850	QHE3X32T8/UNV ISN-SC	Instant	Parallel	60	120	0.47	>.98	<10%	0.99	5645
F030/SS	2	2850	QHE3X32T8/UNV ISN-SC	Instant	Parallel	59	277	0.20	>.98	<15%	0.99	5645
F030/SS	2	2850	QHE3X32T8/UNV ISM-SC	Instant	Parallel	65	120	0.54	>.98	<10%	1.08	6155
F030/SS	2	2850	QHE3X32T8/UNV ISM-SC	Instant	Parallel	65	277	0.24	>.98	<15%	1.08	6155
F030/SS	2	2850	QTP3X32T8/UNV ISL-SC	Instant	Parallel	55	120	0.43	>.98	<10%	0.88	5015
F030/SS	2	2850	QTP3X32T8/UNV ISL-SC	Instant	Parallel	55	277	0.19	>.98	<10%	0.88	5015
F030/SS	2	2850	QTP3X32T8/UNV ISN-SC	Instant	Parallel	62	120	0.52	>.98	<10%	0.99	5645
F030/SS	2	2850	QTP3X32T8/UNV ISN-SC	Instant	Parallel	62	277	0.23	>.97	<15%	0.99	5645

Note: Data above is listed above for QHE ISL, ISN, & ISH models (for Type CC models add "-1" to the model description). For complete details see product specification pages.



Linear T8 Fluorescent Lamps

QUICKSYSTEMS

System Performance Guide

Lamp Type	# of Lamps	Lamp Lumens	Ballast Description	Start Type	Lamp Circuit	System Watts	Input Volts	Input Amps	Power Factor	THD	Ballast Factor	System Lumens
F030/SS	2	2850	QHE4X32T8/UNV ISL-SC	Instant	Parallel	57	120	0.47	>.98	<10%	0.98	5585
F030/SS	2	2850	QHE4X32T8/UNV ISL-SC	Instant	Parallel	57	277	0.21	>.95	<20%	0.98	5585
F030/SS	2	2850	QHE4X32T8/UNV ISN-SC	Instant	Parallel	65	120	0.54	>.98	<10%	1.08	6155
F030/SS	2	2850	QHE4X32T8/UNV ISN-SC	Instant	Parallel	65	277	0.24	>.96	<15%	1.08	6155
F030/SS	2	2850	QHE4X32T8/UNV ISM-SC	Instant	Parallel	69	120	0.58	>.98	<10%	1.13	6440
F030/SS	2	2850	QHE4X32T8/UNV ISM-SC	Instant	Parallel	70	277	0.26	>.95	<15%	1.13	6440
F030/SS	2	2850	QTP4X32T8/UNV ISL-SC	Instant	Parallel	57	120	0.47	>.98	<10%	0.93	5300
F030/SS	2	2850	QTP4X32T8/UNV ISL-SC	Instant	Parallel	57	277	0.21	>.96	<15%	0.93	5300
F030/SS	2	2850	QTP4X32T8/UNV ISN-SC	Instant	Parallel	65	120	0.59	>.98	<15%	1.07	6100
F030/SS	2	2850	QTP4X32T8/UNV ISN-SC	Instant	Parallel	65	277	0.25	>.98	<15%	1.07	6100
F030/SS	2	2850	QHE2X32T8/UNV PSN-MC	PROStart®	Parallel	55	120	0.46	>.98	<10%	0.88	5015
F030/SS	2	2850	QHE2X32T8/UNV PSN-MC	PROStart	Parallel	53	277	0.20	>.98	<10%	0.88	5015
F030/SS	2	2850	QHE3X32T8/UNV PSN-SC	PROStart	Parallel	61	120	0.51	>.98	<10%	0.98	5600
F030/SS	2	2850	QHE3X32T8/UNV PSN-SC	PROStart	Parallel	60	277	0.22	>.98	<10%	0.98	5600
F030/SS	2	2850	QHE4X32T8/UNV PSN-SC	PROStart	Parallel	65	120	0.54	>.98	<10%	1.06	6050
F030/SS	2	2850	QHE4X32T8/UNV PSN-SC	PROStart	Parallel	65	277	0.24	>.95	<15%	1.06	6050
F030/SS	2	2850	QHE2X32T8/UNV PSH-HT	PROStart	Parallel	69	120	0.57	>.98	<10%	1.15	6555
F030/SS	2	2850	QHE2X32T8/UNV PSH-HT	PROStart	Parallel	67	277	0.25	>.98	<10%	1.15	6555
F030/SS	2	2850	QHE2X32T8/UNV PSX-MC	PROStart	Parallel	45	120	0.40	>.98	<10%	0.72	4105
F030/SS	2	2850	QHE2X32T8/UNV PSX-MC	PROStart	Parallel	43	277	0.17	>.98	<10%	0.72	4105
F030/SS	3	2850	QHE3X32T8/UNV ISL-SC	Instant	Parallel	68	120	0.58	>.98	<10%	0.78	6670
F030/SS	3	2850	QHE3X32T8/UNV ISL-SC	Instant	Parallel	68	277	0.25	>.98	<10%	0.78	6670
F030/SS	3	2850	QHE3X32T8/UNV ISN-SC	Instant	Parallel	78	120	0.66	>.98	<10%	0.88	7525
F030/SS	3	2850	QHE3X32T8/UNV ISN-SC	Instant	Parallel	77	277	0.28	>.98	<10%	0.88	7525
F030/SS	3	2850	QHE3X32T8/UNV ISM-SC	Instant	Parallel	83	120	0.67	>.98	<10%	0.98	8380
F030/SS	3	2850	QHE3X32T8/UNV ISM-SC	Instant	Parallel	83	277	0.30	>.98	<10%	0.98	8380
F030/SS	3	2850	QHE3X32T8/UNV ISH-SC	Instant	Parallel	104	120	0.87	>.98	<10%	1.18	10090
F030/SS	3	2850	QHE3X32T8/UNV ISH-SC	Instant	Parallel	103	277	0.38	>.98	<10%	1.18	10090
F030/SS	3	2850	QTP3X32T8/UNV ISL-SC	Instant	Parallel	71	120	0.60	>.98	<10%	0.78	6670
F030/SS	3	2850	QTP3X32T8/UNV ISL-SC	Instant	Parallel	71	277	0.26	>.98	<10%	0.78	6670
F030/SS	3	2850	QTP3X32T8/UNV ISN-SC	Instant	Parallel	81	120	0.69	>.98	<10%	0.88	7525
F030/SS	3	2850	QTP3X32T8/UNV ISN-SC	Instant	Parallel	81	277	0.30	>.98	<10%	0.88	7525
F030/SS	3	2850	QTP3X32T8/UNV ISH-SC	Instant	Parallel	107	120	0.89	>.98	<10%	1.18	10090
F030/SS	3	2850	QTP3X32T8/UNV ISH-SC	Instant	Parallel	104	277	0.39	>.98	<10%	1.18	10090
F030/SS	3	2850	QHE4X32T8/UNV ISL-SC	Instant	Parallel	75	120	0.64	>.98	<10%	0.85	7270
F030/SS	3	2850	QHE4X32T8/UNV ISL-SC	Instant	Parallel	74	277	0.26	>.98	<15%	0.85	7270
F030/SS	3	2850	QHE4X32T8/UNV ISN-SC	Instant	Parallel	85	120	0.67	>.98	<10%	0.96	8210
F030/SS	3	2850	QHE4X32T8/UNV ISN-SC	Instant	Parallel	84	277	0.29	>.98	<15%	0.96	8210
F030/SS	3	2850	QHE4X32T8/UNV ISM-SC	Instant	Parallel	93	120	0.78	>.98	<10%	1.04	8890
F030/SS	3	2850	QHE4X32T8/UNV ISM-SC	Instant	Parallel	93	277	0.34	>.98	<10%	1.04	8890
F030/SS	3	2850	QTP4X32T8/UNV ISL-SC	Instant	Parallel	75	120	0.62	>.98	<10%	0.84	7180
F030/SS	3	2850	QTP4X32T8/UNV ISL-SC	Instant	Parallel	75	277	0.27	>.97	<10%	0.84	7180
F030/SS	3	2850	QTP4X32T8/UNV ISN-SC	Instant	Parallel	86	120	0.74	>.98	<10%	0.96	8210
F030/SS	3	2850	QTP4X32T8/UNV ISN-SC	Instant	Parallel	86	277	0.32	>.98	<15%	0.96	8210
F030/SS	3	2850	QHE3X32T8/UNV PSN-SC	PROStart	Parallel	80	120	0.68	>.98	<10%	0.88	7525
F030/SS	3	2850	QHE3X32T8/UNV PSN-SC	PROStart	Parallel	78	277	0.28	>.98	<10%	0.88	7525
F030/SS	3	2850	QHE4X32T8/UNV PSN-SC	PROStart	Parallel	87	120	0.73	>.98	<15%	0.96	8230
F030/SS	3	2850	QHE4X32T8/UNV PSN-SC	PROStart	Parallel	85	277	0.31	>.98	<10%	0.96	8230
F030/SS	3	2850	QHE3X32T8/UNV PSH-HT	PROStart	Parallel	104	120	0.88	>.98	<10%	1.15	9835
F030/SS	3	2850	QHE3X32T8/UNV PSH-HT	PROStart	Parallel	101	277	0.37	>.98	<10%	1.15	9835
F030/SS	3	2850	QHE3X32T8/UNV PSX-SC	PROStart	Parallel	65	120	0.54	>.98	<10%	0.71	6070
F030/SS	3	2850	QHE3X32T8/UNV PSX-SC	PROStart	Parallel	63	277	0.23	>.98	<10%	0.71	6070
F030/SS	4	2850	QHE4X32T8/UNV ISL-SC	Instant	Parallel	89	120	0.75	>.98	<10%	0.78	8890
F030/SS	4	2850	QHE4X32T8/UNV ISL-SC	Instant	Parallel	89	277	0.32	>.98	<10%	0.78	8890
F030/SS	4	2850	QHE4X32T8/UNV ISN-SC	Instant	Parallel	102	120	0.86	>.98	<10%	0.88	10030
F030/SS	4	2850	QHE4X32T8/UNV ISN-SC	Instant	Parallel	101	277	0.37	>.98	<10%	0.88	10030
F030/SS	4	2850	QHE4X32T8/UNV ISM-SC	Instant	Parallel	114	120	0.95	>.98	<10%	0.98	11170
F030/SS	4	2850	QHE4X32T8/UNV ISM-SC	Instant	Parallel	112	277	0.41	>.98	<10%	0.98	11170
F030/SS	4	2850	QHE4X32T8/UNV ISH	Instant	Parallel	135	120	1.13	>.98	<10%	1.15	13110
F030/SS	4	2850	QHE4X32T8/UNV ISH	Instant	Parallel	133	277	0.49	>.98	<10%	1.15	13110
F030/SS	4	2850	QTP4X32T8/UNV ISL-SC	Instant	Parallel	92	120	0.78	>.98	<10%	0.78	8890
F030/SS	4	2850	QTP4X32T8/UNV ISL-SC	Instant	Parallel	92	277	0.34	>.98	<10%	0.78	8890
F030/SS	4	2850	QTP4X32T8/UNV ISN-SC	Instant	Parallel	105	120	0.91	>.98	<10%	0.88	10030
F030/SS	4	2850	QTP4X32T8/UNV ISN-SC	Instant	Parallel	105	277	0.39	>.98	<10%	0.88	10030
F030/SS	4	2850	QHE4X32T8/UNV PSN-SC	PROStart	Parallel	105	120	0.89	>.98	<10%	0.88	10030
F030/SS	4	2850	QHE4X32T8/UNV PSN-SC	PROStart	Parallel	103	277	0.38	>.98	<10%	0.88	10030
F030/SS	4	2850	QTP4X32T8/UNV PSH-HT	PROStart	Parallel	132	120	1.13	>.98	<10%	1.15	13110
F030/SS	4	2850	QHE4X32T8/UNV PSH-HT	PROStart	Parallel	130	277	0.49	>.98	<10%	1.15	13110
F030/SS	4	2850	QHE4X32T8/UNV PSX-SC	PROStart	Parallel	86	120	0.72	>.98	<10%	0.71	8095
F030/SS	4	2850	QHE4X32T8/UNV PSX-SC	PROStart	Parallel	84	277	0.32	>.98	<10%	0.71	8095

Note: Data above is listed above for QHE ISL, ISN, & ISH models (for Type CC models add "-1" to the model description). For complete details see product specification pages.

F028/XP/SS

QUICKSYSTEMS

Linear T8 Fluorescent Lamps

As the industry's leading systems company, OSRAM SYLVANIA offers the most comprehensive data on how QUICKTRONIC® electronic ballasts will perform with various combinations of lamps.

System Performance Guide

Lamp Type	# of Lamps	Lamp Lumens	Ballast Description	Start Type	Lamp Circuit	System Watts	Input Volts	Input Amps	Power Factor	THD	Ballast Factor	System Lumens
F028/SS	1	2725	QHE1X32T8/UNV ISL-SC	Instant	Parallel	22	120	0.19	>.98	<10%	0.78	2125
F028/SS	1	2725	QHE1X32T8/UNV ISL-SC	Instant	Parallel	22	277	0.08	>.98	<10%	0.78	2125
F028/SS	1	2725	QHE1X32T8/UNV ISN-SC	Instant	Parallel	25	120	0.21	>.98	<10%	0.88	2400
F028/SS	1	2725	QHE1X32T8/UNV ISN-SC	Instant	Parallel	25	277	0.09	>.98	<10%	0.88	2400
F028/SS	1	2725	QHE1X32T8/UNV ISH-SC	Instant	Parallel	33	120	0.27	>.98	<10%	1.20	3270
F028/SS	1	2725	QHE1X32T8/UNV ISH-SC	Instant	Parallel	33	277	0.12	>.95	<15%	1.20	3270
F028/SS	1	2725	QTP1X32T8/UNV ISN-SC	Instant	Parallel	26	120	0.23	>.98	<10%	0.88	2400
F028/SS	1	2725	QTP1X32T8/UNV ISN-SC	Instant	Parallel	26	277	0.10	>.98	<10%	0.88	2400
F028/SS	1	2725	QHE2X32T8/UNV ISL-SC	Instant	Parallel	27	120	0.23	>.98	<10%	0.95	2590
F028/SS	1	2725	QHE2X32T8/UNV ISL-SC	Instant	Parallel	27	277	0.10	>.98	<15%	0.95	2590
F028/SS	1	2725	QHE2X32T8/UNV ISN-SC	Instant	Parallel	30	120	0.25	>.98	<10%	1.05	2860
F028/SS	1	2725	QHE2X32T8/UNV ISN-SC	Instant	Parallel	30	277	0.11	>.98	<15%	1.05	2860
F028/SS	1	2725	QHE2X32T8/UNV ISM-SC	Instant	Parallel	34	120	0.29	>.98	<10%	1.15	3135
F028/SS	1	2725	QHE2X32T8/UNV ISM-SC	Instant	Parallel	34	277	0.13	>.95	<15%	1.15	3135
F028/SS	1	2725	QTP2X32T8/UNV ISL-SC	Instant	Parallel	28	120	0.23	>.98	<10%	0.90	2455
F028/SS	1	2725	QTP2X32T8/UNV ISL-SC	Instant	Parallel	29	277	0.11	>.96	<15%	0.90	2455
F028/SS	1	2725	QTP2X32T8/UNV ISN-SC	Instant	Parallel	32	120	0.27	>.98	<10%	1.04	2835
F028/SS	1	2725	QTP2X32T8/UNV ISN-SC	Instant	Parallel	32	277	0.12	>.97	<15%	1.04	2835
F028/SS	1	2725	QHE3X32T8/UNV ISL-SC	Instant	Parallel	31	120	0.26	>.98	<15%	1.02	2780
F028/SS	1	2725	QHE3X32T8/UNV ISL-SC	Instant	Parallel	31	277	0.12	>.95	<20%	1.02	2780
F028/SS	1	2725	QHE3X32T8/UNV ISN-SC	Instant	Parallel	34	120	0.30	>.95	<10%	1.20	3270
F028/SS	1	2725	QHE3X32T8/UNV ISN-SC	Instant	Parallel	34	277	0.14	>.85	<15%	1.20	3270
F028/SS	1	2725	QTP3X32T8/UNV ISL-SC	Instant	Parallel	33	120	0.25	>.98	<15%	1.03	2805
F028/SS	1	2725	QTP3X32T8/UNV ISL-SC	Instant	Parallel	33	277	0.12	>.88	<30%	1.03	2805
F028/SS	1	2725	QTP3X32T8/UNV ISN-SC	Instant	Parallel	36	120	0.30	>.98	<10%	1.20	3270
F028/SS	1	2725	QTP3X32T8/UNV ISN-SC	Instant	Parallel	36	277	0.13	>.96	<15%	1.20	3270
F028/SS	1	2725	QHE4X32T8/UNV ISL-SC	Instant	Parallel	34	120	0.27	>.98	<15%	1.17	3190
F028/SS	1	2725	QHE4X32T8/UNV ISL-SC	Instant	Parallel	34	277	0.13	>.92	<20%	1.17	3190
F028/SS	1	2725	QTP4X32T8/UNV ISL-SC	Instant	Parallel	33	120	0.27	>.98	<10%	1.06	2890
F028/SS	1	2725	QTP4X32T8/UNV ISL-SC	Instant	Parallel	33	277	0.13	>.90	<30%	1.06	2890
F028/SS	1	2725	QHE1x32T8/UNV PSN-MC	PROStart®	Parallel	26	120	0.22	>.98	<10%	0.88	2400
F028/SS	1	2725	QHE1x32T8/UNV PSN-MC	PROStart	Parallel	25	277	0.10	>.98	<10%	0.88	2400
F028/SS	1	2725	QHE2x32T8/UNV PSN-MC	PROStart	Parallel	33	120	0.28	>.98	<10%	1.08	2945
F028/SS	1	2725	QHE2x32T8/UNV PSN-MC	PROStart	Parallel	32	277	0.12	>.95	<15%	1.08	2945
F028/SS	1	2725	QHE3x32T8/UNV PSN-SC	PROStart	Parallel	35	120	0.30	>.98	<10%	1.14	3105
F028/SS	1	2725	QHE3x32T8/UNV PSN-SC	PROStart	Parallel	35	277	0.14	>.95	<15%	1.14	3105
F028/SS	1	2725	QHE1X32T8/UNV PSX-MC	PROStart	Parallel	21	120	0.18	>.98	<10%	0.72	1960
F028/SS	1	2725	QHE1X32T8/UNV PSX-MC	PROStart	Parallel	21	277	0.08	>.98	<10%	0.72	1960
F028/SS	2	2725	QHE2X32T8/UNV ISL-SC	Instant	Parallel	42	120	0.35	>.98	<10%	0.78	4250
F028/SS	2	2725	QHE1x32T8/UNV ISL-SC	Instant	Parallel	42	277	0.15	>.98	<10%	0.78	4250
F028/SS	2	2725	QHE2X32T8/UNV ISN-SC	Instant	Parallel	48	120	0.40	>.98	<10%	0.88	4795
F028/SS	2	2725	QHE2X32T8/UNV ISN-SC	Instant	Parallel	48	277	0.18	>.98	<10%	0.88	4795
F028/SS	2	2725	QHE2x32T8/UNV ISM-SC	Instant	Parallel	53	120	0.44	>.98	<10%	1.00	5450
F028/SS	2	2725	QHE2x32T8/UNV ISM-SC	Instant	Parallel	53	277	0.19	>.98	<10%	1.00	5450
F028/SS	2	2725	QHE2X32T8/UNV ISH-SC	Instant	Parallel	65	120	0.55	>.98	<10%	1.20	6540
F028/SS	2	2725	QHE2X32T8/UNV ISH-SC	Instant	Parallel	64	277	0.23	>.98	<15%	1.20	6540
F028/SS	2	2725	QTP2X32T8/UNV ISL-SC	Instant	Parallel	45	120	0.38	>.98	<10%	0.78	4250
F028/SS	2	2725	QTP2X32T8/UNV ISL-SC	Instant	Parallel	45	277	0.17	>.98	<10%	0.78	4250
F028/SS	2	2725	QTP2X32T8/UNV ISN-SC	Instant	Parallel	52	120	0.43	>.98	<10%	0.88	4795
F028/SS	2	2725	QTP2X32T8/UNV ISN-SC	Instant	Parallel	52	277	0.19	>.98	<10%	0.88	4795
F028/SS	2	2725	QTP2X32T8/UNV ISH-SC	Instant	Parallel	69	120	0.57	>.98	<10%	1.20	6540
F028/SS	2	2725	QTP2X32T8/UNV ISH-SC	Instant	Parallel	69	277	0.25	>.98	<10%	1.20	6540
F028/SS	2	2725	QHE3X32T8/UNV ISL-SC	Instant	Parallel	49	120	0.41	>.98	<10%	0.90	4905
F028/SS	2	2725	QHE3X32T8/UNV ISL-SC	Instant	Parallel	49	277	0.18	>.97	<15%	0.90	4905
F028/SS	2	2725	QHE3X32T8/UNV ISN-SC	Instant	Parallel	55	120	0.46	>.98	<10%	0.99	5395
F028/SS	2	2725	QHE3X32T8/UNV ISN-SC	Instant	Parallel	55	277	0.20	>.98	<15%	0.99	5395
F028/SS	2	2725	QHE3X32T8/UNV ISM-SC	Instant	Parallel	59	120	0.50	>.98	<10%	1.03	5615
F028/SS	2	2725	QHE3X32T8/UNV ISM-SC	Instant	Parallel	59	277	0.22	>.96	<20%	1.03	5615
F028/SS	2	2725	QTP3X32T8/UNV ISL-SC	Instant	Parallel	51	120	0.40	>.98	<10%	0.88	4795
F028/SS	2	2725	QTP3X32T8/UNV ISL-SC	Instant	Parallel	51	277	0.19	>.93	<10%	0.88	4795
F028/SS	2	2725	QTP3X32T8/UNV ISN-SC	Instant	Parallel	58	120	0.49	>.98	<10%	0.98	5340
F028/SS	2	2725	QTP3X32T8/UNV ISN-SC	Instant	Parallel	58	277	0.22	>.95	<15%	0.98	5340
F028/SS	2	2725	QHE4X32T8/UNV ISL-SC	Instant	Parallel	51	120	0.43	>.98	<10%	0.98	5340
F028/SS	2	2725	QHE4X32T8/UNV ISL-SC	Instant	Parallel	52	277	0.20	>.95	<20%	0.98	5340

Note: Data above is listed above for QHE ISL, ISN, & ISH models (for Type CC models add "-1" to the model description). For complete details see product specification pages.



Linear T8 Fluorescent Lamps

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System Performance Guide

Lamp Type	# of Lamps	Lamp Lumens	Ballast Description	Start Type	Lamp Circuit	System Watts	Input Volts	Input Amps	Power Factor	THD	Ballast Factor	System Lumens
F028/SS	2	2725	QHE4X32T8/UNV ISN-SC	Instant	Parallel	61	120	0.50	>.98	<10%	1.08	5885
F028/SS	2	2725	QHE4X32T8/UNV ISN-SC	Instant	Parallel	61	277	0.22	>.96	<20%	1.08	5885
F028/SS	2	2725	QHE4X32T8/UNV ISM-SC	Instant	Parallel	64	120	0.54	>.98	<10%	1.10	5995
F028/SS	2	2725	QHE4X32T8/UNV ISM-SC	Instant	Parallel	64	277	0.24	>.95	<15%	1.10	5995
F028/SS	2	2725	QTP4X32T8/UNV ISL-SC	Instant	Parallel	53	120	0.44	>.97	<10%	0.93	5070
F028/SS	2	2725	QTP4X32T8/UNV ISL-SC	Instant	Parallel	53	277	0.19	>.95	<15%	0.93	5070
F028/SS	2	2725	QTP4X32T8/UNV ISN-SC	Instant	Parallel	61	120	0.59	>.98	<15%	1.07	5830
F028/SS	2	2725	QTP4X32T8/UNV ISN-SC	Instant	Parallel	61	277	0.25	>.98	<15%	1.07	5830
F028/SS	2	2725	QHE2X32T8/UNV PSN-MC	PROStart®	Parallel	51	120	0.43	>.98	<10%	0.88	4795
F028/SS	2	2725	QHE2X32T8/UNV PSN-MC	PROStart	Parallel	50	277	0.18	>.98	<10%	0.88	4795
F028/SS	2	2725	QHE3X32T8/UNV PSN-SC	PROStart	Parallel	56	120	0.48	>.98	<10%	0.98	5340
F028/SS	2	2725	QHE3X32T8/UNV PSN-SC	PROStart	Parallel	56	277	0.21	>.98	<10%	0.98	5340
F028/SS	2	2725	QHE4X32T8/UNV PSN-SC	PROStart	Parallel	61	120	0.51	>.98	<10%	1.06	5775
F028/SS	2	2725	QHE4X32T8/UNV PSN-SC	PROStart	Parallel	60	277	0.23	>.95	<15%	1.06	5775
F028/SS	2	2725	QHE2X32T8/UNV PSH-HT	PROStart	Parallel	63	120	0.53	>.98	<10%	1.15	6270
F028/SS	2	2725	QHE2X32T8/UNV PSH-HT	PROStart	Parallel	62	277	0.23	>.98	<10%	1.15	6270
F028/SS	2	2725	QHE2X32T8/UNV PSX-MC	PROStart	Parallel	41	120	0.34	>.98	<10%	0.72	3925
F028/SS	2	2725	QHE2X32T8/UNV PSX-MC	PROStart	Parallel	40	277	0.15	>.98	<10%	0.72	3925
F028/SS	3	2725	QHE3X32T8/UNV ISL-SC	Instant	Parallel	63	120	0.53	>.98	<10%	0.78	6375
F028/SS	3	2725	QHE3X32T8/UNV ISL-SC	Instant	Parallel	63	277	0.23	>.98	<10%	0.78	6375
F028/SS	3	2725	QHE3X32T8/UNV ISN-SC	Instant	Parallel	72	120	0.61	>.98	<10%	0.88	7195
F028/SS	3	2725	QHE3X32T8/UNV ISN-SC	Instant	Parallel	72	277	0.26	>.98	<10%	0.88	7195
F028/SS	3	2725	QHE3X32T8/UNV ISM-SC	Instant	Parallel	76	120	0.64	>.98	<10%	0.98	8010
F028/SS	3	2725	QHE3X32T8/UNV ISM-SC	Instant	Parallel	76	277	0.28	>.98	<10%	0.98	8010
F028/SS	3	2725	QHE3X32T8/UNV ISH-SC	Instant	Parallel	98	120	0.82	>.98	<10%	1.18	9645
F028/SS	3	2725	QHE3X32T8/UNV ISH-SC	Instant	Parallel	96	277	0.35	>.98	<10%	1.18	9645
F028/SS	3	2725	QTP3X32T8/UNV ISL-SC	Instant	Parallel	67	120	0.57	>.98	<10%	0.78	6375
F028/SS	3	2725	QTP3X32T8/UNV ISL-SC	Instant	Parallel	67	277	0.25	>.98	<10%	0.78	6375
F028/SS	3	2725	QTP3X32T8/UNV ISN-SC	Instant	Parallel	76	120	0.65	>.98	<10%	0.88	7195
F028/SS	3	2725	QTP3X32T8/UNV ISN-SC	Instant	Parallel	76	277	0.28	>.98	<10%	0.88	7195
F028/SS	3	2725	QTP3X32T8/UNV ISH-SC	Instant	Parallel	100	120	0.84	>.98	<10%	1.18	9645
F028/SS	3	2725	QTP3X32T8/UNV ISH-SC	Instant	Parallel	98	277	0.36	>.98	<10%	1.18	9645
F028/SS	3	2725	QHE4X32T8/UNV ISL-SC	Instant	Parallel	70	120	0.59	>.98	<10%	0.85	6950
F028/SS	3	2725	QHE4X32T8/UNV ISL-SC	Instant	Parallel	70	277	0.26	>.98	<15%	0.85	6950
F028/SS	3	2725	QHE4X32T8/UNV ISN-SC	Instant	Parallel	78	120	0.66	>.98	<10%	0.96	7850
F028/SS	3	2725	QHE4X32T8/UNV ISN-SC	Instant	Parallel	78	277	0.28	>.98	<15%	0.96	7850
F028/SS	3	2725	QHE4X32T8/UNV ISM-SC	Instant	Parallel	85	120	0.71	>.98	<10%	1.02	8340
F028/SS	3	2725	QHE4X32T8/UNV ISM-SC	Instant	Parallel	85	277	0.31	>.98	<10%	1.02	8340
F028/SS	3	2725	QTP4X32T8/UNV ISL-SC	Instant	Parallel	70	120	0.57	>.98	<10%	0.84	6865
F028/SS	3	2725	QTP4X32T8/UNV ISL-SC	Instant	Parallel	70	277	0.25	>.97	<10%	0.84	6865
F028/SS	3	2725	QTP4X32T8/UNV ISN-SC	Instant	Parallel	80	120	0.70	>.98	<10%	0.96	7850
F028/SS	3	2725	QTP4X32T8/UNV ISN-SC	Instant	Parallel	80	277	0.30	>.98	<15%	0.96	7850
F028/SS	3	2725	QHE3X32T8/UNV PSN-SC	PROStart	Parallel	73	120	0.62	>.98	<10%	0.88	7195
F028/SS	3	2725	QHE3X32T8/UNV PSN-SC	PROStart	Parallel	72	277	0.27	>.98	<10%	0.88	7195
F028/SS	3	2725	QHE4X32T8/UNV PSN-SC	PROStart	Parallel	81	120	0.68	>.98	<10%	0.96	7850
F028/SS	3	2725	QHE4X32T8/UNV PSN-SC	PROStart	Parallel	79	277	0.29	>.98	<10%	0.96	7850
F028/SS	3	2725	QHE3X32T8/UNV PSH-HT	PROStart	Parallel	95	120	0.81	>.98	<10%	1.15	9400
F028/SS	3	2725	QHE3X32T8/UNV PSH-HT	PROStart	Parallel	93	277	0.34	>.98	<10%	1.15	9400
F028/SS	3	2725	QHE3X32T8/UNV PSX-SC	PROStart	Parallel	60	120	0.50	>.98	<10%	0.71	5805
F028/SS	3	2725	QHE3X32T8/UNV PSX-SC	PROStart	Parallel	59	277	0.22	>.98	<10%	0.71	5805
F028/SS	4	2725	QHE4X32T8/UNV ISL-SC	Instant	Parallel	84	120	0.71	>.98	<10%	0.78	8500
F028/SS	4	2725	QHE4X32T8/UNV ISL-SC	Instant	Parallel	84	277	0.31	>.98	<10%	0.78	8500
F028/SS	4	2725	QHE4X32T8/UNV ISN-SC	Instant	Parallel	95	120	0.80	>.98	<10%	0.88	9590
F028/SS	4	2725	QHE4X32T8/UNV ISN-SC	Instant	Parallel	95	277	0.35	>.98	<10%	0.88	9590
F028/SS	4	2725	QHE4X32T8/UNV ISM-SC	Instant	Parallel	107	120	0.89	>.98	<10%	0.98	10680
F028/SS	4	2725	QHE4X32T8/UNV ISM-SC	Instant	Parallel	105	277	0.38	>.98	<10%	0.98	10680
F028/SS	4	2725	QHE4X32T8/UNV ISH	Instant	Parallel	127	120	1.02	>.98	<10%	1.15	12535
F028/SS	4	2725	QHE4X32T8/UNV ISH	Instant	Parallel	124	277	0.44	>.98	<10%	1.15	12535
F028/SS	4	2725	QTP4X32T8/UNV ISL-SC	Instant	Parallel	86	120	0.73	>.98	<10%	0.78	8500
F028/SS	4	2725	QTP4X32T8/UNV ISL-SC	Instant	Parallel	86	277	0.32	>.97	<10%	0.78	8500
F028/SS	4	2725	QTP4X32T8/UNV ISN-SC	Instant	Parallel	98	120	0.85	>.98	<10%	0.88	9590
F028/SS	4	2725	QTP4X32T8/UNV ISN-SC	Instant	Parallel	98	277	0.37	>.98	<15%	0.88	9590
F028/SS	4	2725	QHE4X32T8/UNV PSN-SC	PROStart	Parallel	98	120	0.83	>.98	<10%	0.88	9590
F028/SS	4	2725	QHE4X32T8/UNV PSN-SC	PROStart	Parallel	95	277	0.35	>.98	<10%	0.88	9590
F028/SS	4	2725	QHE4X32T8/UNV PSH-HT	PROStart	Parallel	124	120	1.06	>.98	<10%	1.15	12535
F028/SS	4	2725	QHE4X32T8/UNV PSH-HT	PROStart	Parallel	123	277	0.46	>.98	<10%	1.15	12535
F028/SS	4	2725	QHE4X32T8/UNV PSX-SC	PROStart	Parallel	79	120	0.66	>.98	<10%	0.71	7740
F028/SS	4	2725	QHE4X32T8/UNV PSX-SC	PROStart	Parallel	77	277	0.28	>.98	<10%	0.71	7740

Note: Data above is listed above for QHE ISL, ISN, & ISH models (for Type CC models add "-1" to the model description). For complete details see product specification pages.

F032/25W/XP/SS

QUICKSYSTEMS

Linear T8 Fluorescent Lamps

As the industry's leading systems company, OSRAM SYLVANIA offers the most comprehensive data on how QUICKTRONIC® electronic ballasts will perform with various combinations of lamps.

System Performance Guide

Lamp Type	# of Lamps	Lamp Lumens	Ballast Description	Start Type	Lamp Circuit	System Watts	Input Volts	Input Amps	Power Factor	THD	Ballast Factor	System Lumens
F032/25W/SS	1	2475	QHE1X32T8/UNV ISL-SC	Instant	Parallel	20	120	0.17	>.98	<10%	0.78	1930
F032/25W/SS	1	2475	QHE1X32T8/UNV ISL-SC	Instant	Parallel	20	277	0.08	>.98	<10%	0.78	1930
F032/25W/SS	1	2475	QHE1X32T8/UNV ISN-SC	Instant	Parallel	22	120	0.19	>.98	<10%	0.88	2180
F032/25W/SS	1	2475	QHE1X32T8/UNV ISN-SC	Instant	Parallel	22	277	0.09	>.98	<10%	0.88	2180
F032/25W/SS	1	2475	QHE1X32T8/UNV ISH-SC	Instant	Parallel	30	120	0.26	>.98	<10%	1.20	2970
F032/25W/SS	1	2475	QHE1X32T8/UNV ISH-SC	Instant	Parallel	30	277	0.12	>.95	<15%	1.20	2970
F032/25W/SS	1	2475	QTP1X32T8/UNV ISN-SC	Instant	Parallel	23	120	0.20	>.98	<10%	0.88	2180
F032/25W/SS	1	2475	QTP1X32T8/UNV ISN-SC	Instant	Parallel	23	277	0.09	>.98	<10%	0.88	2180
F032/25W/SS	1	2475	QHE2X32T8/UNV ISL-SC	Instant	Parallel	25	120	0.21	>.98	<10%	0.95	2350
F032/25W/SS	1	2475	QHE2X32T8/UNV ISL-SC	Instant	Parallel	25	277	0.10	>.92	<20%	0.95	2350
F032/25W/SS	1	2475	QHE2X32T8/UNV ISN-SC	Instant	Parallel	28	120	0.23	>.98	<10%	1.03	2550
F032/25W/SS	1	2475	QHE2X32T8/UNV ISN-SC	Instant	Parallel	28	277	0.11	>.94	<20%	1.03	2550
F032/25W/SS	1	2475	QHE2X32T8/UNV ISM-SC	Instant	Parallel	32	120	0.26	>.98	<10%	1.15	2845
F032/25W/SS	1	2475	QHE2X32T8/UNV ISM-SC	Instant	Parallel	32	277	0.12	>.95	<10%	1.15	2845
F032/25W/SS	1	2475	QTP2X32T8/UNV ISL-SC	Instant	Parallel	26	120	0.22	>.98	<10%	0.95	2350
F032/25W/SS	1	2475	QTP2X32T8/UNV ISL-SC	Instant	Parallel	26	277	0.10	>.92	<20%	0.95	2350
F032/25W/SS	1	2475	QTP2X32T8/UNV ISN-SC	Instant	Parallel	30	120	0.24	>.98	<10%	1.05	2600
F032/25W/SS	1	2475	QTP2X32T8/UNV ISN-SC	Instant	Parallel	30	277	0.11	>.97	<10%	1.05	2600
F032/25W/SS	1	2475	QHE3X32T8/UNV ISL-SC	Instant	Parallel	29	120	0.24	>.98	<10%	1.00	2475
F032/25W/SS	1	2475	QHE3X32T8/UNV ISL-SC	Instant	Parallel	29	277	0.11	>.95	<20%	1.00	2475
F032/25W/SS	1	2475	QHE3X32T8/UNV ISN-SC	Instant	Parallel	32	120	0.26	>.98	<10%	1.13	2795
F032/25W/SS	1	2475	QHE3X32T8/UNV ISN-SC	Instant	Parallel	32	277	0.12	>.94	<20%	1.13	2795
F032/25W/SS	1	2475	QTP3X32T8/UNV ISL-SC	Instant	Parallel	30	120	0.26	>.98	<10%	1.00	2475
F032/25W/SS	1	2475	QTP3X32T8/UNV ISL-SC	Instant	Parallel	30	277	0.12	>.95	<20%	1.00	2475
F032/25W/SS	1	2475	QTP3X32T8/UNV ISN-SC	Instant	Parallel	33	120	0.27	>.98	<10%	1.14	2820
F032/25W/SS	1	2475	QTP3X32T8/UNV ISN-SC	Instant	Parallel	33	277	0.13	>.95	<20%	1.14	2820
F032/25W/SS	1	2475	QHE4X32T8/UNV ISL-SC	Instant	Parallel	31	120	0.26	>.98	<10%	1.17	2895
F032/25W/SS	1	2475	QHE4X32T8/UNV ISL-SC	Instant	Parallel	31	277	0.12	>.92	<20%	1.17	2895
F032/25W/SS	1	2475	QTP4X32T8/UNV ISL-SC	Instant	Parallel	32	120	0.28	>.98	<10%	1.17	2895
F032/25W/SS	1	2475	QTP4X32T8/UNV ISL-SC	Instant	Parallel	32	277	0.14	>.92	<20%	1.17	2895
F032/25W/SS	1	2475	QHE1x32T8/UNV PSN-MC	PROStart®	Parallel	23	120	0.20	>.98	<10%	0.88	2180
F032/25W/SS	1	2475	QHE1x32T8/UNV PSN-MC	PROStart	Parallel	23	277	0.09	>.98	<10%	0.88	2180
F032/25W/SS	1	2475	QHE2x32T8/UNV PSN-MC	PROStart	Parallel	30	120	0.25	>.98	<10%	1.08	2675
F032/25W/SS	1	2475	QHE2x32T8/UNV PSN-MC	PROStart	Parallel	30	277	0.11	>.95	<15%	1.08	2675
F032/25W/SS	1	2475	QHE3x32T8/UNV PSN-SC	PROStart	Parallel	32	120	0.27	>.98	<10%	1.14	2830
F032/25W/SS	1	2475	QHE3x32T8/UNV PSN-SC	PROStart	Parallel	33	277	0.13	>.90	<15%	1.14	2830
F032/25W/SS	1	2475	QHE1X32T8/UNV PSX-MC	PROStart	Parallel	20	120	0.16	>.98	<10%	0.72	1780
F032/25W/SS	1	2475	QHE1X32T8/UNV PSX-MC	PROStart	Parallel	19	277	0.07	>.98	<10%	0.72	1780
F032/25W/SS	2	2475	QHE2X32T8/UNV ISL-SC	Instant	Parallel	38	120	0.32	>.98	<10%	0.78	3860
F032/25W/SS	2	2475	QHE2X32T8/UNV ISL-SC	Instant	Parallel	38	277	0.14	>.98	<10%	0.78	3860
F032/25W/SS	2	2475	QHE2X32T8/UNV ISN-SC	Instant	Parallel	43	120	0.36	>.98	<10%	0.88	4355
F032/25W/SS	2	2475	QHE2X32T8/UNV ISN-SC	Instant	Parallel	43	277	0.16	>.98	<10%	0.88	4355
F032/25W/SS	2	2475	QHE2x32T8/UNV ISM-SC	Instant	Parallel	50	120	0.41	>.98	<10%	1.00	4950
F032/25W/SS	2	2475	QHE2x32T8/UNV ISM-SC	Instant	Parallel	49	277	0.18	>.98	<10%	1.00	4950
F032/25W/SS	2	2475	QHE2X32T8/UNV ISH-SC	Instant	Parallel	58	120	0.50	>.98	<10%	1.20	5940
F032/25W/SS	2	2475	QHE2X32T8/UNV ISH-SC	Instant	Parallel	57	277	0.22	>.98	<15%	1.20	5940
F032/25W/SS	2	2475	QTP2X32T8/UNV ISL-SC	Instant	Parallel	40	120	0.34	>.98	<10%	0.78	3860
F032/25W/SS	2	2475	QTP2X32T8/UNV ISL-SC	Instant	Parallel	40	277	0.15	>.98	<10%	0.78	3860
F032/25W/SS	2	2475	QTP2X32T8/UNV ISN-SC	Instant	Parallel	46	120	0.39	>.98	<10%	0.88	4355
F032/25W/SS	2	2475	QTP2X32T8/UNV ISN-SC	Instant	Parallel	46	277	0.16	>.98	<10%	0.88	4355
F032/25W/SS	2	2475	QTP2X32T8/UNV ISH-SC	Instant	Parallel	61	120	0.51	>.98	<10%	1.20	5940
F032/25W/SS	2	2475	QTP2X32T8/UNV ISH-SC	Instant	Parallel	61	277	0.22	>.98	<10%	1.20	5940
F032/25W/SS	2	2475	QHE3X32T8/UNV ISL-SC	Instant	Parallel	45	120	0.38	>.98	<10%	0.90	4455
F032/25W/SS	2	2475	QHE3X32T8/UNV ISL-SC	Instant	Parallel	45	277	0.17	>.97	<15%	0.90	4455
F032/25W/SS	2	2475	QHE3X32T8/UNV ISN-SC	Instant	Parallel	50	120	0.42	>.98	<10%	0.97	4800
F032/25W/SS	2	2475	QHE3X32T8/UNV ISN-SC	Instant	Parallel	50	277	0.19	>.98	<10%	0.97	4800
F032/25W/SS	2	2475	QHE3X32T8/UNV ISM-SC	Instant	Parallel	55	120	0.46	>.98	<10%	1.03	5100
F032/25W/SS	2	2475	QHE3X32T8/UNV ISM-SC	Instant	Parallel	55	277	0.21	>.95	<15%	1.03	5100
F032/25W/SS	2	2475	QTP3X32T8/UNV ISL-SC	Instant	Parallel	45	120	0.38	>.98	<10%	0.84	4160
F032/25W/SS	2	2475	QTP3X32T8/UNV ISL-SC	Instant	Parallel	45	277	0.18	>.98	<10%	0.84	4160
F032/25W/SS	2	2475	QTP3X32T8/UNV ISN-SC	Instant	Parallel	52	120	0.44	>.98	<10%	0.98	4850
F032/25W/SS	2	2475	QTP3X32T8/UNV ISN-SC	Instant	Parallel	52	277	0.19	>.95	<15%	0.98	4850
F032/25W/SS	2	2475	QHE4X32T8/UNV ISL-SC	Instant	Parallel	49	120	0.40	>.98	<10%	1.00	4950
F032/25W/SS	2	2475	QHE4X32T8/UNV ISL-SC	Instant	Parallel	49	277	0.19	>.95	<20%	1.00	4950

Note: Data above is listed above for QHE ISL, ISN, & ISH models (for Type CC models add "-1" to the model description). For complete details see product specification pages.



Linear T8 Fluorescent Lamps

QUICKSYSTEMS

System Performance Guide

Lamp Type	# of Lamps	Lamp Lumens	Ballast Description	Start Type	Lamp Circuit	System Watts	Input Volts	Input Amps	Power Factor	THD	Ballast Factor	System Lumens
F032/25W/SS	2	2475	QHE4X32T8/UNV ISN-SC	Instant	Parallel	55	120	0.46	>.98	<10%	1.04	5150
F032/25W/SS	2	2475	QHE4X32T8/UNV ISN-SC	Instant	Parallel	55	277	0.21	>.95	<20%	1.04	5150
F032/25W/SS	2	2475	QHE4X32T8/UNV ISM-SC	Instant	Parallel	59	120	0.50	>.98	<10%	1.10	5445
F032/25W/SS	2	2475	QHE4X32T8/UNV ISM-SC	Instant	Parallel	59	277	0.22	>.95	<15%	1.10	5445
F032/25W/SS	2	2475	QTP4X32T8/UNV ISL-SC	Instant	Parallel	48	120	0.40	>.98	<10%	0.91	4505
F032/25W/SS	2	2475	QTP4X32T8/UNV ISL-SC	Instant	Parallel	48	277	0.18	>.95	<15%	0.91	4505
F032/25W/SS	2	2475	QTP4X32T8/UNV ISN-SC	Instant	Parallel	55	120	0.46	>.98	<15%	1.01	5000
F032/25W/SS	2	2475	QTP4X32T8/UNV ISN-SC	Instant	Parallel	55	277	0.20	>.98	<15%	1.01	5000
F032/25W/SS	2	2475	QHE2x32T8/UNV PSN-MC	PROStart®	Parallel	45	120	0.38	>.98	>.98	0.88	4355
F032/25W/SS	2	2475	QHE2x32T8/UNV PSN-MC	PROStart	Parallel	44	277	0.16	>.98	>.98	0.88	4355
F032/25W/SS	2	2475	QHE3x32T8/UNV PSN-SC	PROStart	Parallel	52	120	0.44	>.98	>.98	0.98	4870
F032/25W/SS	2	2475	QHE3x32T8/UNV PSN-SC	PROStart	Parallel	51	277	0.19	>.95	<10%	0.98	4870
F032/25W/SS	2	2475	QHE4x32T8/UNV PSN-SC	PROStart	Parallel	55	120	0.46	>.98	>.98	1.06	5245
F032/25W/SS	2	2475	QHE4x32T8/UNV PSN-SC	PROStart	Parallel	55	277	0.21	>.95	<15%	1.06	5245
F032/25W/SS	2	2475	QHE2X32T8/UNV PSH-HT	PROStart	Parallel	56	120	0.47	>.98	<10%	1.15	5695
F032/25W/SS	2	2475	QHE2X32T8/UNV PSH-HT	PROStart	Parallel	55	277	0.20	>.98	<10%	1.15	5695
F032/25W/SS	2	2475	QHE2X32T8/UNV PSX-MC	PROStart	Parallel	38	120	0.31	>.98	<10%	0.72	3565
F032/25W/SS	2	2475	QHE2X32T8/UNV PSX-MC	PROStart	Parallel	37	277	0.14	>.98	<10%	0.72	3565
F032/25W/SS	3	2475	QHE3X32T8/UNV ISL-SC	Instant	Parallel	57	120	0.48	>.98	<10%	0.78	5790
F032/25W/SS	3	2475	QHE3X32T8/UNV ISL-SC	Instant	Parallel	57	277	0.21	>.98	<10%	0.78	5790
F032/25W/SS	3	2475	QHE3X32T8/UNV ISN-SC	Instant	Parallel	65	120	0.55	>.98	<10%	0.88	6535
F032/25W/SS	3	2475	QHE3X32T8/UNV ISN-SC	Instant	Parallel	64	277	0.23	>.98	<10%	0.88	6535
F032/25W/SS	3	2475	QHE3x32T8/UNV ISM-SC	Instant	Parallel	70	120	0.59	>.98	<10%	0.98	7275
F032/25W/SS	3	2475	QHE3x32T8/UNV ISM-SC	Instant	Parallel	70	277	0.26	>.98	<10%	0.98	7275
F032/25W/SS	3	2475	QHE3x32T8/UNV ISH-SC	Instant	Parallel	87	120	0.72	>.98	<10%	1.18	8760
F032/25W/SS	3	2475	QHE3X32T8/UNV ISH-SC	Instant	Parallel	86	277	0.31	>.98	<10%	1.18	8760
F032/25W/SS	3	2475	QTP3X32T8/UNV ISL-SC	Instant	Parallel	59	120	0.50	>.98	<10%	0.78	5790
F032/25W/SS	3	2475	QTP3X32T8/UNV ISL-SC	Instant	Parallel	59	277	0.21	>.98	<10%	0.78	5790
F032/25W/SS	3	2475	QTP3X32T8/UNV ISN-SC	Instant	Parallel	67	120	0.58	>.98	<10%	0.88	6535
F032/25W/SS	3	2475	QTP3X32T8/UNV ISN-SC	Instant	Parallel	67	277	0.25	>.98	<10%	0.88	6535
F032/25W/SS	3	2475	QTP3X32T8/UNV ISH-SC	Instant	Parallel	89	120	0.75	>.98	<10%	1.18	8760
F032/25W/SS	3	2475	QTP3X32T8/UNV ISH-SC	Instant	Parallel	88	277	0.32	>.98	<10%	1.18	8760
F032/25W/SS	3	2475	QHE4X32T8/UNV ISL-SC	Instant	Parallel	65	120	0.53	>.98	<10%	0.85	6310
F032/25W/SS	3	2475	QHE4X32T8/UNV ISL-SC	Instant	Parallel	64	277	0.24	>.96	<15%	0.85	6310
F032/25W/SS	3	2475	QHE4X32T8/UNV ISN-SC	Instant	Parallel	72	120	0.60	>.98	<10%	0.93	6905
F032/25W/SS	3	2475	QHE4X32T8/UNV ISN-SC	Instant	Parallel	72	277	0.26	>.98	<15%	0.93	6905
F032/25W/SS	3	2475	QHE4X32T8/UNV ISM-SC	Instant	Parallel	80	120	0.67	>.98	<10%	1.04	7720
F032/25W/SS	3	2475	QHE4X32T8/UNV ISM-SC	Instant	Parallel	80	277	0.29	>.98	<10%	1.04	7720
F032/25W/SS	3	2475	QTP4X32T8/UNV ISL-SC	Instant	Parallel	64	120	0.54	>.98	<10%	0.82	6090
F032/25W/SS	3	2475	QTP4X32T8/UNV ISL-SC	Instant	Parallel	64	277	0.24	>.97	<10%	0.82	6090
F032/25W/SS	3	2475	QTP4X32T8/UNV ISN-SC	Instant	Parallel	72	120	0.60	>.98	<10%	0.92	6830
F032/25W/SS	3	2475	QTP4X32T8/UNV ISN-SC	Instant	Parallel	72	277	0.26	>.98	<15%	0.92	6830
F032/25W/SS	3	2475	QHE3x32T8/UNV PSN-SC	PROStart	Parallel	67	120	0.56	>.98	<10%	0.88	6535
F032/25W/SS	3	2475	QHE3x32T8/UNV PSN-SC	PROStart	Parallel	66	277	0.24	>.98	<10%	0.88	6535
F032/25W/SS	3	2475	QHE4x32T8/UNV PSN-SC	PROStart	Parallel	75	120	0.63	>.98	<10%	0.96	7160
F032/25W/SS	3	2475	QHE4x32T8/UNV PSN-SC	PROStart	Parallel	74	277	0.27	>.98	<10%	0.96	7160
F032/25W/SS	3	2475	QHE3X32T8/UNV PSH-HT	PROStart	Parallel	85	120	0.72	>.98	<10%	1.15	8540
F032/25W/SS	3	2475	QHE3X32T8/UNV PSH-HT	PROStart	Parallel	84	277	0.31	>.98	<10%	1.15	8540
F032/25W/SS	3	2475	QHE3X32T8/UNV PSX-SC	PROStart	Parallel	56	120	0.47	>.98	<10%	0.71	5270
F032/25W/SS	3	2475	QHE3X32T8/UNV PSX-SC	PROStart	Parallel	55	277	0.20	>.98	<10%	0.71	5270
F032/25W/SS	4	2475	QHE4X32T8/UNV ISL-SC	Instant	Parallel	76	120	0.62	>.98	<10%	0.78	7720
F032/25W/SS	4	2475	QHE4X32T8/UNV ISL-SC	Instant	Parallel	75	277	0.27	>.98	<10%	0.78	7720
F032/25W/SS	4	2475	QHE4X32T8/UNV ISN-SC	Instant	Parallel	85	120	0.71	>.98	<10%	0.88	8710
F032/25W/SS	4	2475	QHE4X32T8/UNV ISN-SC	Instant	Parallel	85	277	0.30	>.98	<10%	0.88	8710
F032/25W/SS	4	2475	QHE4x32T8/UNV ISM-SC	Instant	Parallel	99	120	0.83	>.98	<10%	0.98	9700
F032/25W/SS	4	2475	QHE4x32T8/UNV ISM-SC	Instant	Parallel	98	277	0.36	>.98	<10%	0.98	9700
F032/25W/SS	4	2475	QHE4X32T8/UNV ISH	Instant	Parallel	112	120	0.94	>.98	<10%	1.15	11385
F032/25W/SS	4	2475	QHE4X32T8/UNV ISH	Instant	Parallel	111	277	0.41	>.98	<10%	1.15	11385
F032/25W/SS	4	2475	QTP4X32T8/UNV ISL-SC	Instant	Parallel	77	120	0.63	>.98	<10%	0.78	7720
F032/25W/SS	4	2475	QTP4X32T8/UNV ISL-SC	Instant	Parallel	77	277	0.28	>.97	<10%	0.78	7720
F032/25W/SS	4	2475	QTP4X32T8/UNV ISN-SC	Instant	Parallel	88	120	0.74	>.98	<10%	0.88	8710
F032/25W/SS	4	2475	QTP4X32T8/UNV ISN-SC	Instant	Parallel	88	277	0.31	>.98	<15%	0.88	8710
F032/25W/SS	4	2475	QHE4x32T8/UNV PSN-SC	PROStart	Parallel	91	120	0.77	>.98	<10%	0.88	8710
F032/25W/SS	4	2475	QHE4x32T8/UNV PSN-SC	PROStart	Parallel	89	277	0.33	>.98	<10%	0.88	8710
F032/25W/SS	4	2475	QHE4X32T8/UNV PSH-HT	PROStart	Parallel	112	120	0.95	>.98	<10%	1.15	11385
F032/25W/SS	4	2475	QHE4X32T8/UNV PSH-HT	PROStart	Parallel	110	277	0.41	>.98	<10%	1.15	11385
F032/25W/SS	4	2475	QHE4x32T8/UNV PSX-SC	PROStart	Parallel	73	120	0.61	>.98	<10%	0.71	7030
F032/25W/SS	4	2475	QHE4x32T8/UNV PSX-SC	PROStart	Parallel	71	277	0.26	>.98	<10%	0.71	7030

Note: Data above is listed above for QHE ISL, ISN, & ISH models (for Type CC models add "-1" to the model description). For complete details see product specification pages.

F032XPS

QUICKSYSTEMS

Linear T8 Fluorescent Lamps

As the industry's leading systems company, OSRAM SYLVANIA offers the most comprehensive data on how QUICKTRONIC® electronic ballasts will perform with various combinations of lamps.

System Performance Guide

Lamp Type	# of Lamps	Lamp Lumens	Ballast Description	Start Type	Lamp Circuit	System Watts	Input Volts	Input Amps	Power Factor	THD	Ballast Factor	System Lumens
F032XPS	1	3100	QHE1X32T8/UNV ISL-SC	Instant	Parallel	25	120	0.21	>.98	<10%	0.78	2420
F032XPS	1	3100	QHE1X32T8/UNV ISL-SC	Instant	Parallel	25	277	0.09	>.98	<10%	0.78	2420
F032XPS	1	3100	QHE1X32T8/UNV ISN-SC	Instant	Parallel	28	120	0.25	>.98	<10%	0.88	2730
F032XPS	1	3100	QHE1X32T8/UNV ISN-SC	Instant	Parallel	28	277	0.11	>.98	<10%	0.88	2730
F032XPS	1	3100	QHE1X32T8/UNV ISH-SC	Instant	Parallel	38	120	0.32	>.98	<10%	1.20	3720
F032XPS	1	3100	QHE1X32T8/UNV ISH-SC	Instant	Parallel	38	277	0.14	>.98	<10%	1.20	3720
F032XPS	1	3100	QTP1X32T8/UNV ISN-SC	Instant	Parallel	30	120	0.26	>.98	<10%	0.88	2730
F032XPS	1	3100	QTP1X32T8/UNV ISN-SC	Instant	Parallel	30	277	0.11	>.98	<10%	0.88	2730
F032XPS	1	3100	QHE2X32T8/UNV ISL-SC	Instant	Parallel	31	120	0.27	>.95	<10%	0.95	2945
F032XPS	1	3100	QHE2X32T8/UNV ISL-SC	Instant	Parallel	31	277	0.12	>.95	<10%	0.95	2945
F032XPS	1	3100	QHE2X32T8/UNV ISN-SC	Instant	Parallel	34	120	0.27	>.95	<10%	1.05	3255
F032XPS	1	3100	QHE2X32T8/UNV ISN-SC	Instant	Parallel	34	277	0.11	>.95	<10%	1.05	3255
F032XPS	1	3100	QHE2X32T8/UNV ISM-SC	Instant	Parallel	40	120	0.34	>.98	<10%	1.15	3565
F032XPS	1	3100	QHE2X32T8/UNV ISM-SC	Instant	Parallel	40	277	0.15	>.95	<15%	1.15	3565
F032XPS	1	3100	QTP2X32T8/UNV ISL-SC	Instant	Parallel	32	120	0.30	>.98	<10%	0.90	2790
F032XPS	1	3100	QTP2X32T8/UNV ISL-SC	Instant	Parallel	32	277	0.12	>.97	<10%	0.90	2790
F032XPS	1	3100	QTP2X32T8/UNV ISN-SC	Instant	Parallel	36	120	0.30	>.95	<10%	1.04	3225
F032XPS	1	3100	QTP2X32T8/UNV ISN-SC	Instant	Parallel	36	277	0.14	>.95	<10%	1.04	3225
F032XPS	1	3100	QHE3X32T8/UNV ISL-SC	Instant	Parallel	36	120	0.30	>.98	<15%	1.02	3160
F032XPS	1	3100	QHE3X32T8/UNV ISL-SC	Instant	Parallel	36	277	0.13	>.96	<20%	1.02	3160
F032XPS	1	3100	QHE3X32T8/UNV ISN-SC	Instant	Parallel	40	120	0.34	>.98	<10%	1.20	3720
F032XPS	1	3100	QHE3X32T8/UNV ISN-SC	Instant	Parallel	40	277	0.15	>.92	<15%	1.20	3720
F032XPS	1	3100	QTP3X32T8/UNV ISL-SC	Instant	Parallel	37	120	0.29	>.98	<10%	1.03	3195
F032XPS	1	3100	QTP3X32T8/UNV ISL-SC	Instant	Parallel	37	277	0.13	>.96	<20%	1.03	3195
F032XPS	1	3100	QTP3X32T8/UNV ISN-SC	Instant	Parallel	41	120	0.34	>.95	<15%	1.19	3690
F032XPS	1	3100	QTP3X32T8/UNV ISN-SC	Instant	Parallel	41	277	0.15	>.98	<10%	1.19	3690
F032XPS	1	3100	QHE4X32T8/UNV ISL-SC	Instant	Parallel	39	120	0.33	>.98	<15%	1.17	3625
F032XPS	1	3100	QHE4X32T8/UNV ISL-SC	Instant	Parallel	39	277	0.15	>.93	<20%	1.17	3625
F032XPS	1	3100	QTP4X32T8/UNV ISL-SC	Instant	Parallel	38	120	0.31	>.98	<10%	1.06	3285
F032XPS	1	3100	QTP4X32T8/UNV ISL-SC	Instant	Parallel	38	277	0.15	>.92	<30%	1.06	3285
F032XPS	1	3100	QHE1x32T8/UNV PSN-MC	PROStart®	Parallel	30	120	0.26	>.98	<10%	0.88	2730
F032XPS	1	3100	QHE1x32T8/UNV PSN-MC	PROStart	Parallel	29	277	0.11	>.98	<10%	0.88	2730
F032XPS	1	3100	QHE2x32T8/UNV PSN-MC	PROStart	Parallel	36	120	0.30	>.98	<10%	1.07	3320
F032XPS	1	3100	QHE2x32T8/UNV PSN-MC	PROStart	Parallel	36	277	0.13	>.98	<15%	1.07	3320
F032XPS	1	3100	QHE3x32T8/UNV PSN-SC	PROStart	Parallel	39	120	0.33	>.98	<10%	1.14	3525
F032XPS	1	3100	QHE3x32T8/UNV PSN-SC	PROStart	Parallel	40	277	0.16	>.95	<15%	1.14	3525
F032XPS	1	3100	QHE4x32T8/UNV PSN-SC	PROStart	Parallel	41	120	0.34	>.98	<10%	1.20	3720
F032XPS	1	3100	QHE4x32T8/UNV PSN-SC	PROStart	Parallel	41	277	0.16	>.90	<15%	1.20	3720
F032XPS	1	3100	QHE1X32T8/UNV PSX-MC	PROStart	Parallel	25	120	0.21	>.98	<10%	0.72	2230
F032XPS	1	3100	QHE1X32T8/UNV PSX-MC	PROStart	Parallel	24	277	0.09	>.98	<10%	0.72	2230
F032XPS	2	3100	QHE2X32T8/UNV ISL-SC	Instant	Parallel	48	120	0.41	>.98	<10%	0.78	4835
F032XPS	2	3100	QHE2X32T8/UNV ISL-SC	Instant	Parallel	48	277	0.18	>.98	<10%	0.78	4835
F032XPS	2	3100	QHE2X32T8/UNV ISN-SC	Instant	Parallel	55	120	0.47	>.98	<10%	0.88	5455
F032XPS	2	3100	QHE2X32T8/UNV ISN-SC	Instant	Parallel	55	277	0.20	>.98	<10%	0.88	5455
F032XPS	2	3100	QHE2x32T8/UNV ISM-SC	Instant	Parallel	63	120	0.54	>.98	<10%	1.00	6200
F032XPS	2	3100	QHE2x32T8/UNV ISM-SC	Instant	Parallel	62	277	0.23	>.98	<10%	1.00	6200
F032XPS	2	3100	QHE2X32T8/UNV ISH-SC	Instant	Parallel	74	120	0.65	>.98	<10%	1.20	7440
F032XPS	2	3100	QHE2X32T8/UNV ISH-SC	Instant	Parallel	73	277	0.28	>.98	<10%	1.20	7440
F032XPS	2	3100	QTP2X32T8/UNV ISL-SC	Instant	Parallel	51	120	0.44	>.98	<10%	0.78	4835
F032XPS	2	3100	QTP2X32T8/UNV ISL-SC	Instant	Parallel	51	277	0.19	>.98	<10%	0.78	4835
F032XPS	2	3100	QTP2X32T8/UNV ISN-SC	Instant	Parallel	59	120	0.50	>.98	<10%	0.88	5455
F032XPS	2	3100	QTP2X32T8/UNV ISN-SC	Instant	Parallel	59	277	0.21	>.98	<10%	0.88	5455
F032XPS	2	3100	QTP2X32T8/UNV ISH-SC	Instant	Parallel	78	120	0.65	>.98	<10%	1.20	7440
F032XPS	2	3100	QTP2X32T8/UNV ISH-SC	Instant	Parallel	78	277	0.28	>.98	<10%	1.20	7440
F032XPS	2	3100	QHE3X32T8/UNV ISL-SC	Instant	Parallel	56	120	0.46	>.97	<15%	0.90	5580
F032XPS	2	3100	QHE3X32T8/UNV ISL-SC	Instant	Parallel	56	277	0.20	>.97	<15%	0.90	5580
F032XPS	2	3100	QHE3X32T8/UNV ISN-SC	Instant	Parallel	63	120	0.50	>.97	<15%	0.99	6140
F032XPS	2	3100	QHE3X32T8/UNV ISN-SC	Instant	Parallel	62	277	0.22	>.97	<15%	0.99	6140
F032XPS	2	3100	QHE3X32T8/UNV ISM-SC	Instant	Parallel	69	120	0.60	>.98	<10%	1.08	6695
F032XPS	2	3100	QHE3X32T8/UNV ISM-SC	Instant	Parallel	69	277	0.25	>.98	<10%	1.08	6695
F032XPS	2	3100	QTP3X32T8/UNV ISL-SC	Instant	Parallel	58	120	0.45	>.98	<10%	0.88	5455
F032XPS	2	3100	QTP3X32T8/UNV ISL-SC	Instant	Parallel	58	277	0.20	>.98	<10%	0.88	5455
F032XPS	2	3100	QTP3X32T8/UNV ISN-SC	Instant	Parallel	66	120	0.55	>.97	<15%	1.02	6325
F032XPS	2	3100	QTP3X32T8/UNV ISN-SC	Instant	Parallel	66	277	0.24	>.97	<15%	1.02	6325

Note: Data above is listed above for QHE ISL, ISN, & ISH models (for Type CC models add "-1" to the model description). For complete details see product specification pages.



Lamp Type	# of Lamps	Lamp Lumens	Ballast Description	Start Type	Lamp Circuit	System Watts	Input Volts	Input Amps	Power Factor	THD	Ballast Factor	System Lumens
F032XPS	2	3100	QHE4X32T8/UNV ISL-SC	Instant	Parallel	62	120	0.52	>.98	<10%	0.98	6075
F032XPS	2	3100	QHE4X32T8/UNV ISL-SC	Instant	Parallel	62	277	0.23	>.96	<15%	0.98	6075
F032XPS	2	3100	QHE4X32T8/UNV ISN-SC	Instant	Parallel	69	120	0.60	>.97	<15%	1.08	6695
F032XPS	2	3100	QHE4X32T8/UNV ISN-SC	Instant	Parallel	69	277	0.25	>.98	<15%	1.08	6695
F032XPS	2	3100	QHE4X32T8/UNV ISM-SC	Instant	Parallel	74	120	0.62	>.98	<10%	1.16	7190
F032XPS	2	3100	QHE4X32T8/UNV ISM-SC	Instant	Parallel	74	277	0.27	>.98	<15%	1.16	7190
F032XPS	2	3100	QTP4X32T8/UNV ISL-SC	Instant	Parallel	61	120	0.50	>.98	<10%	0.93	5765
F032XPS	2	3100	QHE4X32T8/UNV ISL-SC	Instant	Parallel	61	277	0.23	>.97	<10%	0.93	5765
F032XPS	2	3100	QTP4X32T8/UNV ISN-SC	Instant	Parallel	69	120	0.59	>.98	<15%	1.07	6635
F032XPS	2	3100	QTP4X32T8/UNV ISN-SC	Instant	Parallel	69	277	0.25	>.98	<15%	1.07	6635
F032XPS	2	3100	QHE2X32T8/UNV PSN-MC	PROStart®	Parallel	57	120	0.48	>.98	<10%	0.88	5455
F032XPS	2	3100	QHE2X32T8/UNV PSN-MC	PROStart	Parallel	55	277	0.21	>.98	<10%	0.88	5455
F032XPS	2	3100	QHE3X32T8/UNV PSN-SC	PROStart	Parallel	65	120	0.54	>.98	<10%	0.98	6080
F032XPS	2	3100	QHE3X32T8/UNV PSN-SC	PROStart	Parallel	64	277	0.24	>.98	<10%	0.98	6080
F032XPS	2	3100	QHE4X32T8/UNV PSN-SC	PROStart	Parallel	68	120	0.57	>.98	<10%	1.06	6570
F032XPS	2	3100	QHE4X32T8/UNV PSN-SC	PROStart	Parallel	67	277	0.25	>.95	<15%	1.06	6570
F032XPS	2	3100	QHE2X32T8/UNV PSH-HT	PROStart	Parallel	72	120	0.60	>.98	<10%	1.15	7130
F032XPS	2	3100	QHE2X32T8/UNV PSH-HT	PROStart	Parallel	70	277	0.27	>.98	<10%	1.15	7130
F032XPS	2	3100	QHE2X32T8/UNV PSX-MC	PROStart	Parallel	48	120	0.40	>.98	<10%	0.72	4465
F032XPS	2	3100	QHE2X32T8/UNV PSX-MC	PROStart	Parallel	47	277	0.17	>.98	<10%	0.72	4465
F032XPS	3	3100	QHE3X32T8/UNV ISL-SC	Instant	Parallel	73	120	0.61	>.98	<10%	0.78	7255
F032XPS	3	3100	QHE3X32T8/UNV ISL-SC	Instant	Parallel	72	277	0.27	>.98	<10%	0.78	7255
F032XPS	3	3100	QHE3X32T8/UNV ISN-SC	Instant	Parallel	83	120	0.69	>.98	<10%	0.88	8185
F032XPS	3	3100	QHE3X32T8/UNV ISN-SC	Instant	Parallel	82	277	0.30	>.98	<10%	0.88	8185
F032XPS	3	3100	QHE3X32T8/UNV ISM-SC	Instant	Parallel	90	120	0.76	>.98	<10%	0.98	9115
F032XPS	3	3100	QHE3X32T8/UNV ISM-SC	Instant	Parallel	89	277	0.40	>.98	<10%	0.98	9115
F032XPS	3	3100	QHE3X32T8/UNV ISH-SC	Instant	Parallel	111	120	0.93	>.98	<10%	1.18	10975
F032XPS	3	3100	QHE3X32T8/UNV ISH-SC	Instant	Parallel	109	277	0.40	>.98	<10%	1.18	10975
F032XPS	3	3100	QTP3X32T8/UNV ISL-SC	Instant	Parallel	75	120	0.65	>.98	<10%	0.78	7255
F032XPS	3	3100	QTP3X32T8/UNV ISL-SC	Instant	Parallel	75	277	0.27	>.98	<10%	0.78	7255
F032XPS	3	3100	QTP3X32T8/UNV ISN-SC	Instant	Parallel	86	120	0.72	>.98	<10%	0.88	8185
F032XPS	3	3100	QTP3X32T8/UNV ISN-SC	Instant	Parallel	86	277	0.31	>.98	<10%	0.88	8185
F032XPS	3	3100	QTP3X32T8/UNV ISH-SC	Instant	Parallel	114	120	0.95	>.98	<10%	1.18	10975
F032XPS	3	3100	QTP3X32T8/UNV ISH-SC	Instant	Parallel	111	277	0.41	>.98	<10%	1.18	10975
F032XPS	3	3100	QHE4X32T8/UNV ISL-SC	Instant	Parallel	80	120	0.68	>.98	<10%	0.85	7905
F032XPS	3	3100	QHE4X32T8/UNV ISL-SC	Instant	Parallel	80	277	0.28	>.98	<10%	0.85	7905
F032XPS	3	3100	QHE4X32T8/UNV ISN-SC	Instant	Parallel	89	120	0.71	>.98	<15%	0.96	8930
F032XPS	3	3100	QHE4X32T8/UNV ISN-SC	Instant	Parallel	89	277	0.31	>.98	<15%	0.96	8930
F032XPS	3	3100	QHE4X32T8/UNV ISM-SC	Instant	Parallel	100	120	0.84	>.98	<10%	1.05	9765
F032XPS	3	3100	QHE4X32T8/UNV ISM-SC	Instant	Parallel	99	277	0.36	>.98	<10%	1.05	9765
F032XPS	3	3100	QTP4X32T8/UNV ISL-SC	Instant	Parallel	80	120	0.66	>.98	<10%	0.84	7810
F032XPS	3	3100	QTP4X32T8/UNV ISL-SC	Instant	Parallel	80	277	0.29	>.97	<10%	0.84	7810
F032XPS	3	3100	QTP4X32T8/UNV ISN-SC	Instant	Parallel	92	120	0.77	>.98	<15%	0.96	8930
F032XPS	3	3100	QTP4X32T8/UNV ISN-SC	Instant	Parallel	92	277	0.33	>.98	<15%	0.96	8930
F032XPS	3	3100	QHE3X32T8/UNV PSN-SC	PROStart	Parallel	83	120	0.69	>.98	<10%	0.88	8185
F032XPS	3	3100	QHE3X32T8/UNV PSN-SC	PROStart	Parallel	82	277	0.29	>.98	<10%	0.88	8185
F032XPS	3	3100	QHE4X32T8/UNV PSN-SC	PROStart	Parallel	91	120	0.77	>.98	<10%	0.96	8930
F032XPS	3	3100	QHE4X32T8/UNV PSN-SC	PROStart	Parallel	89	277	0.33	>.98	<10%	0.96	8930
F032XPS	3	3100	QHE3X32T8/UNV PSH-HT	PROStart	Parallel	110	120	0.94	>.98	<10%	1.15	10695
F032XPS	3	3100	QHE3X32T8/UNV PSH-HT	PROStart	Parallel	108	277	0.40	>.98	<10%	1.15	10695
F032XPS	3	3100	QHE3X32T8/UNV PSX-SC	PROStart	Parallel	69	120	0.58	>.98	<10%	0.71	6605
F032XPS	3	3100	QHE3X32T8/UNV PSX-SC	PROStart	Parallel	67	277	0.25	>.98	<10%	0.71	6605
F032XPS	4	3100	QHE4X32T8/UNV ISL-SC	Instant	Parallel	95	120	0.80	>.98	<10%	0.78	9670
F032XPS	4	3100	QHE4X32T8/UNV ISL-SC	Instant	Parallel	95	277	0.35	>.98	<10%	0.78	9670
F032XPS	4	3100	QHE4X32T8/UNV ISN-SC	Instant	Parallel	108	120	0.91	>.98	<10%	0.88	10910
F032XPS	4	3100	QHE4X32T8/UNV ISN-SC	Instant	Parallel	107	277	0.39	>.98	<10%	0.88	10910
F032XPS	4	3100	QHE4X32T8/UNV ISM-SC	Instant	Parallel	122	120	1.02	>.98	<10%	0.98	12150
F032XPS	4	3100	QHE4X32T8/UNV ISM-SC	Instant	Parallel	120	277	0.44	>.98	<10%	0.98	12150
F032XPS	4	3100	QHE4X32T8/UNV ISH	Instant	Parallel	144	120	1.21	>.98	<10%	1.15	14260
F032XPS	4	3100	QHE4X32T8/UNV ISH	Instant	Parallel	141	277	0.52	>.98	<10%	1.15	14260
F032XPS	4	3100	QTP4X32T8/UNV ISL-SC	Instant	Parallel	98	120	0.80	>.98	<10%	0.78	9670
F032XPS	4	3100	QTP4X32T8/UNV ISL-SC	Instant	Parallel	98	277	0.35	>.98	<10%	0.78	9670
F032XPS	4	3100	QTP4X32T8/UNV ISN-SC	Instant	Parallel	112	120	0.95	>.98	<10%	0.88	10910
F032XPS	4	3100	QTP4X32T8/UNV ISN-SC	Instant	Parallel	112	277	0.40	>.98	<10%	0.88	10910
F032XPS	4	3100	QHE4X32T8/UNV PSN-SC	PROStart	Parallel	111	120	0.93	>.98	<10%	0.88	10910
F032XPS	4	3100	QHE4X32T8/UNV PSN-SC	PROStart	Parallel	108	277	0.39	>.98	<10%	0.88	10910
F032XPS	4	3100	QHE4X32T8/UNV PSH-HT	PROStart	Parallel	143	120	1.22	>.98	<10%	1.15	14260
F032XPS	4	3100	QHE4X32T8/UNV PSH-HT	PROStart	Parallel	141	277	0.53	>.98	<10%	1.15	14260
F032XPS	4	3100	QHE4X32T8/UNV PSX-SC	PROStart	Parallel	90	120	0.76	>.98	<10%	0.71	8805
F032XPS	4	3100	QHE4X32T8/UNV PSX-SC	PROStart	Parallel	89	277	0.32	>.98	<10%	0.71	8805

Note: Data above is listed above for QHE ISL, ISN, & ISH models (for Type CC models add "-1" to the model description). For complete details see product specification pages.

F025XPS

QUICKSYSTEMS

3 Foot Linear T8 Fluorescent Lamps

As the industry's leading systems company, OSRAM SYLVANIA offers the most comprehensive data on how QUICKTRONIC® electronic ballasts will perform with various combinations of lamps.

System Performance Guide

Lamp Type	# of Lamps	Lamp Lumens	Ballast Description	Start Type	Lamp Circuit	System Watts	Input Volts	Input Amps	Power Factor	THD	Ballast Factor	System Lumens
F025XPS	1	2200	QHE1X32T8/UNV ISL-SC	Instant	Parallel	20	120	0.17	>.98	<10%	0.79	1740
F025XPS	1	2200	QHE1X32T8/UNV ISL-SC	Instant	Parallel	20	277	0.08	>.95	<10%	0.79	1740
F025XPS	1	2200	QHE1X32T8/UNV ISN-SC	Instant	Parallel	23	120	0.21	>.98	<10%	0.90	1980
F025XPS	1	2200	QHE1X32T8/UNV ISN-SC	Instant	Parallel	23	277	0.09	>.98	<10%	0.90	1980
F025XPS	1	2200	QTP1X32T8/UNV ISN-SC	Instant	Parallel	24	120	0.23	>.98	<10%	0.90	1980
F025XPS	1	2200	QTP1X32T8/UNV ISN-SC	Instant	Parallel	24	277	0.10	>.98	<10%	0.90	1980
F025XPS	1	2200	QHE2X32T8/UNV ISL-SC	Instant	Parallel	24	120	0.21	>.95	<15%	0.96	2110
F025XPS	1	2200	QHE2X32T8/UNV ISL-SC	Instant	Parallel	24	277	0.10	>.90	<15%	0.96	2110
F025XPS	1	2200	QHE2X32T8/UNV ISN-SC	Instant	Parallel	27	120	0.21	>.95	<15%	1.07	2355
F025XPS	1	2200	QHE2X32T8/UNV ISN-SC	Instant	Parallel	27	277	0.09	>.95	<15%	1.07	2355
F025XPS	1	2200	QHE2X32T8/UNV ISM-SC	Instant	Parallel	31	120	0.26	>.98	<10%	1.18	2595
F025XPS	1	2200	QHE2X32T8/UNV ISM-SC	Instant	Parallel	31	277	0.12	>.95	<15%	1.18	2595
F025XPS	1	2200	QTP2X32T8/UNV ISL-SC	Instant	Parallel	25	120	0.22	>.98	<10%	0.93	2045
F025XPS	1	2200	QTP2X32T8/UNV ISL-SC	Instant	Parallel	25	277	0.10	>.96	<20%	0.93	2045
F025XPS	1	2200	QTP2X32T8/UNV ISN-SC	Instant	Parallel	29	120	0.25	>.95	<15%	1.05	2310
F025XPS	1	2200	QTP2X32T8/UNV ISN-SC	Instant	Parallel	29	277	0.11	>.95	<15%	1.05	2310
F025XPS	1	2200	QHE3X32T8/UNV ISL-SC	Instant	Parallel	28	120	0.24	>.98	<15%	1.05	2310
F025XPS	1	2200	QHE3X32T8/UNV ISL-SC	Instant	Parallel	29	277	0.11	>.95	<20%	1.05	2310
F025XPS	1	2200	QHE3X32T8/UNV ISN-SC	Instant	Parallel	30	120	0.27	>.94	<10%	1.18	2595
F025XPS	1	2200	QHE3X32T8/UNV ISN-SC	Instant	Parallel	31	277	0.13	>.84	<30%	1.18	2595
F025XPS	1	2200	QTP3X32T8/UNV ISL-SC	Instant	Parallel	29	120	0.23	>.98	<20%	1.04	2290
F025XPS	1	2200	QTP3X32T8/UNV ISL-SC	Instant	Parallel	29	277	0.12	>.87	<30%	1.04	2290
F025XPS	1	2200	QHE4X32T8/UNV ISL-SC	Instant	Parallel	32	120	0.27	>.98	<10%	1.18	2595
F025XPS	1	2200	QHE4X32T8/UNV ISL-SC	Instant	Parallel	32	277	0.12	>.92	<20%	1.18	2595
F025XPS	1	2200	QTP4X32T8/UNV ISL-SC	Instant	Parallel	30	120	0.24	>.98	<20%	1.08	2375
F025XPS	1	2200	QTP4X32T8/UNV ISL-SC	Instant	Parallel	30	277	0.12	>.90	<30%	1.08	2375
F025XPS	1	2200	QHE1x32T8/UNV PSN-MC	PROStart®	Parallel	23	120	0.20	>.98	<10%	0.89	1960
F025XPS	1	2200	QHE1x32T8/UNV PSN-MC	PROStart	Parallel	23	277	0.09	>.98	<10%	0.89	1960
F025XPS	1	2200	QHE2x32T8/UNV PSN-MC	PROStart	Parallel	28	120	0.24	>.98	<10%	1.09	2385
F025XPS	1	2200	QHE2x32T8/UNV PSN-MC	PROStart	Parallel	28	277	0.11	>.95	<15%	1.09	2385
F025XPS	1	2200	QHE3x32T8/UNV PSN-SC	PROStart	Parallel	30	120	0.26	>.98	<10%	1.14	2510
F025XPS	1	2200	QHE3x32T8/UNV PSN-SC	PROStart	Parallel	31	277	0.12	>.90	<15%	1.14	2510
F025XPS	1	2200	QHE1X32T8/UNV PSX-MC	PROStart	Parallel	19	120	0.17	>.98	<10%	0.72	1585
F025XPS	1	2200	QHE1X32T8/UNV PSX-MC	PROStart	Parallel	19	277	0.07	>.98	<10%	0.72	1585
F025XPS	2	2200	QHE2X32T8/UNV ISL-SC	Instant	Parallel	38	120	0.33	>.97	<10%	0.80	3520
F025XPS	2	2200	QHE2X32T8/UNV ISL-SC	Instant	Parallel	38	277	0.14	>.97	<10%	0.80	3520
F025XPS	2	2200	QHE2X32T8/UNV ISN-SC	Instant	Parallel	43	120	0.34	>.97	<10%	0.89	3915
F025XPS	2	2200	QHE2X32T8/UNV ISN-SC	Instant	Parallel	43	277	0.15	>.97	<10%	0.89	3915
F025XPS	2	2200	QHE2x32T8/UNV ISM-SC	Instant	Parallel	49	120	0.41	>.98	<10%	1.01	4445
F025XPS	2	2200	QHE2x32T8/UNV ISM-SC	Instant	Parallel	49	277	0.18	>.98	<10%	1.01	4445
F025XPS	2	2200	QTP2X32T8/UNV ISL-SC	Instant	Parallel	40	120	0.34	>.98	<10%	0.80	3520
F025XPS	2	2200	QTP2X32T8/UNV ISL-SC	Instant	Parallel	40	277	0.15	>.98	<10%	0.80	3520
F025XPS	2	2200	QTP2X32T8/UNV ISN-SC	Instant	Parallel	45	120	0.40	>.97	<10%	0.92	4050
F025XPS	2	2200	QTP2X32T8/UNV ISN-SC	Instant	Parallel	45	277	0.17	>.97	<10%	0.92	4050
F025XPS	2	2200	QHE3X32T8/UNV ISL-SC	Instant	Parallel	45	120	0.39	>.95	<20%	0.91	4005
F025XPS	2	2200	QHE3X32T8/UNV ISL-SC	Instant	Parallel	45	277	0.17	>.95	<20%	0.91	4005
F025XPS	2	2200	QHE3X32T8/UNV ISN-SC	Instant	Parallel	49	120	0.41	>.98	<10%	1.01	4445
F025XPS	2	2200	QHE3X32T8/UNV ISN-SC	Instant	Parallel	49	277	0.18	>.97	<10%	1.01	4445
F025XPS	2	2200	QHE3X32T8/UNV ISM-SC	Instant	Parallel	53	120	0.41	>.98	<10%	1.10	4840
F025XPS	2	2200	QHE3X32T8/UNV ISM-SC	Instant	Parallel	53	277	0.18	>.95	<15%	1.10	4840
F025XPS	2	2200	QTP3X32T8/UNV ISL-SC	Instant	Parallel	45	120	0.35	>.98	<10%	0.89	3915
F025XPS	2	2200	QTP3X32T8/UNV ISL-SC	Instant	Parallel	45	277	0.16	>.98	<10%	0.89	3915
F025XPS	2	2200	QTP3X32T8/UNV ISN-SC	Instant	Parallel	52	120	0.46	>.95	<20%	1.02	4490
F025XPS	2	2200	QTP3X32T8/UNV ISN-SC	Instant	Parallel	52	277	0.20	>.95	<20%	1.02	4490
F025XPS	2	2200	QHE4X32T8/UNV ISL-SC	Instant	Parallel	50	120	0.43	>.97	<10%	1.00	4400
F025XPS	2	2200	QHE4X32T8/UNV ISL-SC	Instant	Parallel	50	277	0.19	>.95	<20%	1.00	4400
F025XPS	2	2200	QHE4X32T8/UNV ISN-SC	Instant	Parallel	54	120	0.41	>.97	<20%	1.10	4840
F025XPS	2	2200	QHE4X32T8/UNV ISN-SC	Instant	Parallel	54	277	0.18	>.97	<20%	1.10	4840
F025XPS	2	2200	QHE4X32T8/UNV ISM-SC	Instant	Parallel	57	120	0.49	>.98	<10%	1.17	5150
F025XPS	2	2200	QHE4X32T8/UNV ISM-SC	Instant	Parallel	57	277	0.22	>.95	<15%	1.17	5150
F025XPS	2	2200	QTP4X32T8/UNV ISL-SC	Instant	Parallel	48	120	0.39	>.98	<10%	0.95	4180
F025XPS	2	2200	QTP4X32T8/UNV ISL-SC	Instant	Parallel	48	277	0.18	>.94	<20%	0.95	4180
F025XPS	2	2200	QTP4X32T8/UNV ISN-SC	Instant	Parallel	54	120	0.46	>.97	<20%	1.08	4750
F025XPS	2	2200	QTP4X32T8/UNV ISN-SC	Instant	Parallel	54	277	0.21	>.97	<20%	1.08	4750

Note: Data above is listed above for QHE ISL, ISN, & ISH models (for Type CC models add "-1" to the model description). For complete details see product specification pages.



3 Foot Linear T8 Fluorescent Lamps

System Performance Guide

Lamp Type	# of Lamps	Lamp Lumens	Ballast Description	Start Type	Lamp Circuit	System Watts	Input Volts	Input Amps	Power Factor	THD	Ballast Factor	System Lumens
F025XPS	2	2200	QHE2x32T8/UNV PSN-MC	PROStart®	Parallel	45	120	0.38	>.98	<10%	0.90	3960
F025XPS	2	2200	QHE2x32T8/UNV PSN-MC	PROStart	Parallel	44	277	0.16	>.98	<10%	0.90	3960
F025XPS	2	2200	QHE3x32T8/UNV PSN-SC	PROStart	Parallel	50	120	0.42	>.98	<10%	0.99	4355
F025XPS	2	2200	QHE3x32T8/UNV PSN-SC	PROStart	Parallel	50	277	0.19	>.95	<10%	0.99	4355
F025XPS	2	2200	QHE4x32T8/UNV PSN-SC	PROStart	Parallel	54	120	0.45	>.98	<10%	1.07	4710
F025XPS	2	2200	QHE4x32T8/UNV PSN-SC	PROStart	Parallel	54	277	0.20	>.95	<15%	1.07	4710
F025XPS	2	2200	QHE2X32T8/UNV PSH-HT	PROStart	Parallel	55	120	0.46	>.95	<10%	1.16	5105
F025XPS	2	2200	QHE2X32T8/UNV PSH-HT	PROStart	Parallel	55	277	0.2	>.95	<10%	1.16	5105
F025XPS	2	2200	QHE2X32T8/UNV PSX-MC	PROStart	Parallel	35	120	0.28	>.98	<10%	0.72	3170
F025XPS	2	2200	QHE2X32T8/UNV PSX-MC	PROStart	Parallel	35	277	0.13	>.98	<10%	0.72	3170
F025XPS	3	2200	QHE3X32T8/UNV ISL-SC	Instant	Parallel	56	120	0.48	>.98	<10%	0.79	5215
F025XPS	3	2200	QHE3X32T8/UNV ISL-SC	Instant	Parallel	56	277	0.21	>.97	<10%	0.79	5215
F025XPS	3	2200	QHE3X32T8/UNV ISN-SC	Instant	Parallel	65	120	0.55	>.97	<15%	0.89	5875
F025XPS	3	2200	QHE3X32T8/UNV ISN-SC	Instant	Parallel	64	277	0.24	>.97	<15%	0.89	5875
F025XPS	3	2200	QHE3x32T8/UNV ISM-SC	Instant	Parallel	69	120	0.59	>.98	<10%	0.99	6535
F025XPS	3	2200	QHE3x32T8/UNV ISM-SC	Instant	Parallel	69	277	0.26	>.98	<10%	0.99	6535
F025XPS	3	2200	QTP3X32T8/UNV ISL-SC	Instant	Parallel	59	120	0.46	>.98	<10%	0.80	5280
F025XPS	3	2200	QTP3X32T8/UNV ISL-SC	Instant	Parallel	59	277	0.21	>.98	<20%	0.80	5280
F025XPS	3	2200	QTP3X32T8/UNV ISN-SC	Instant	Parallel	67	120	0.61	>.97	<15%	0.90	5940
F025XPS	3	2200	QTP3X32T8/UNV ISN-SC	Instant	Parallel	67	277	0.26	>.97	<15%	0.90	5940
F025XPS	3	2200	QHE4X32T8/UNV ISL-SC	Instant	Parallel	64	120	0.54	>.98	<10%	0.87	5740
F025XPS	3	2200	QHE4X32T8/UNV ISL-SC	Instant	Parallel	64	277	0.23	>.98	<15%	0.87	5740
F025XPS	3	2200	QHE4X32T8/UNV ISN-SC	Instant	Parallel	70	120	0.57	>.98	<15%	0.97	6400
F025XPS	3	2200	QHE4X32T8/UNV ISN-SC	Instant	Parallel	70	277	0.25	>.98	<15%	0.97	6400
F025XPS	3	2200	QHE4X32T8/UNV ISM-SC	Instant	Parallel	76	120	0.64	>.98	<10%	1.07	7060
F025XPS	3	2200	QHE4X32T8/UNV ISM-SC	Instant	Parallel	76	277	0.28	>.98	<15%	1.07	7060
F025XPS	3	2200	QTP4X32T8/UNV ISL-SC	Instant	Parallel	62	120	0.51	>.98	<10%	0.86	5675
F025XPS	3	2200	QTP4X32T8/UNV ISL-SC	Instant	Parallel	62	277	0.23	>.96	<20%	0.86	5675
F025XPS	3	2200	QTP4X32T8/UNV ISN-SC	Instant	Parallel	71	120	0.61	>.98	<15%	0.98	6470
F025XPS	3	2200	QTP4X32T8/UNV ISN-SC	Instant	Parallel	71	277	0.27	>.98	<15%	0.98	6470
F025XPS	3	2200	QHE3x32T8/UNV PSN-SC	PROStart	Parallel	65	120	0.55	>.98	<10%	0.89	5875
F025XPS	3	2200	QHE3x32T8/UNV PSN-SC	PROStart	Parallel	65	277	0.24	>.98	<10%	0.89	5875
F025XPS	3	2200	QHE4x32T8/UNV PSN-SC	PROStart	Parallel	71	120	0.60	>.98	<10%	0.97	6400
F025XPS	3	2200	QHE4x32T8/UNV PSN-SC	PROStart	Parallel	70	277	0.26	>.95	<10%	0.97	6400
F025XPS	3	2200	QHE3X32T8/UNV PSH-HT	PROStart	Parallel	83	120	0.70	>.98	<10%	1.17	7720
F025XPS	3	2200	QHE3X32T8/UNV PSH-HT	PROStart	Parallel	82	277	0.30	>.98	<10%	1.17	7720
F025XPS	3	2200	QHE3X32T8/UNV PSX-SC	PROStart	Parallel	56	120	0.45	>.98	<10%	0.72	4750
F025XPS	3	2200	QHE3X32T8/UNV PSX-SC	PROStart	Parallel	55	277	0.19	>.98	<10%	0.72	4750
F025XPS	4	2200	QHE4X32T8/UNV ISL-SC	Instant	Parallel	74	120	0.64	>.97	<10%	0.79	6950
F025XPS	4	2200	QHE4X32T8/UNV ISL-SC	Instant	Parallel	74	277	0.28	>.97	<15%	0.79	6950
F025XPS	4	2200	QHE4X32T8/UNV ISN-SC	Instant	Parallel	84	120	0.68	>.97	<15%	0.89	7830
F025XPS	4	2200	QHE4X32T8/UNV ISN-SC	Instant	Parallel	84	277	0.29	>.97	<15%	0.89	7830
F025XPS	4	2200	QHE4x32T8/UNV ISM-SC	Instant	Parallel	92	120	0.77	>.98	<10%	0.99	8710
F025XPS	4	2200	QHE4x32T8/UNV ISM-SC	Instant	Parallel	91	277	0.34	>.98	<10%	0.99	8710
F025XPS	4	2200	QTP4X32T8/UNV ISL-SC	Instant	Parallel	77	120	0.61	>.98	<10%	0.80	7040
F025XPS	4	2200	QTP4X32T8/UNV ISL-SC	Instant	Parallel	77	277	0.27	>.97	<10%	0.80	7040
F025XPS	4	2200	QTP4X32T8/UNV ISN-SC	Instant	Parallel	88	120	0.74	>.97	<15%	0.90	7920
F025XPS	4	2200	QTP4X32T8/UNV ISN-SC	Instant	Parallel	88	277	0.32	>.97	<15%	0.90	7920
F025XPS	4	2200	QHE4x32T8/UNV PSN-SC	PROStart	Parallel	85	120	0.72	>.98	<10%	0.90	7920
F025XPS	4	2200	QHE4x32T8/UNV PSN-SC	PROStart	Parallel	84	277	0.31	>.98	<10%	0.90	7920
F025XPS	4	2200	QHE4X32T8/UNV PSH-HT	PROStart	Parallel	107	120	0.91	>.98	<10%	1.17	10295
F025XPS	4	2200	QHE4X32T8/UNV PSH-HT	PROStart	Parallel	106	277	0.4	>.98	<10%	1.17	10295
F025XPS	4	2200	QHE4x32T8/UNV PSX-SC	PROStart	Parallel	70	120	0.58	>.98	<10%	0.72	6335
F025XPS	4	2200	QHE4x32T8/UNV PSX-SC	PROStart	Parallel	69	277	0.25	>.98	<10%	0.72	6335

Note: Data above is listed above for QHE ISL, ISN, & ISH models (for Type CC models add "-1" to the model description). For complete details see product specification pages.

F017XPS

QUICKSYSTEMS

2 Foot Linear T8 Fluorescent Lamps

As the industry's leading systems company, OSRAM SYLVANIA offers the most comprehensive data on how QUICKTRONIC® electronic ballasts will perform with various combinations of lamps.

System Performance Guide

Lamp Type	# of Lamps	Lamp Lumens	Ballast Description	Start Type	Lamp Circuit	System Watts	Input Volts	Input Amps	Power Factor	THD	Ballast Factor	System Lumens
F017XPS	1	1400	QHE1X32T8/UNV ISL-SC	Instant	Parallel	14	120	0.12	>.98	<10%	0.80	1120
F017XPS	1	1400	QHE1X32T8/UNV ISL-SC	Instant	Parallel	14	277	0.05	>.95	<15%	0.80	1120
F017XPS	1	1400	QHE1X32T8/UNV ISN-SC	Instant	Parallel	17	120	0.14	>.98	<15%	0.90	1260
F017XPS	1	1400	QHE1X32T8/UNV ISN-SC	Instant	Parallel	17	277	0.06	>.98	<15%	0.90	1260
F017XPS	1	1400	QTP1X32T8/UNV ISN-SC	Instant	Parallel	18	120	0.15	>.98	<15%	0.92	1290
F017XPS	1	1400	QTP1X32T8/UNV ISN-SC	Instant	Parallel	18	277	0.07	>.98	<15%	0.92	1290
F017XPS	1	1400	QHE2X32T8/UNV ISL-SC	Instant	Parallel	17	120	0.16	>.90	<20%	0.98	1370
F017XPS	1	1400	QHE2X32T8/UNV ISL-SC	Instant	Parallel	17	277	0.07	>.90	<20%	0.98	1370
F017XPS	1	1400	QHE2X32T8/UNV ISN-SC	Instant	Parallel	19	120	0.15	>.90	<20%	1.08	1510
F017XPS	1	1400	QHE2X32T8/UNV ISN-SC	Instant	Parallel	19	277	0.06	>.90	<20%	1.08	1510
F017XPS	1	1400	QHE2X32T8/UNV ISM-SC	Instant	Parallel	22	120	0.19	>.92	<15%	1.18	1650
F017XPS	1	1400	QHE2X32T8/UNV ISM-SC	Instant	Parallel	22	277	0.09	>.92	<20%	1.18	1650
F017XPS	1	1400	QTP2X32T8/UNV ISL-SC	Instant	Parallel	19	120	0.20	>.92	<20%	0.94	1315
F017XPS	1	1400	QTP2X32T8/UNV ISL-SC	Instant	Parallel	19	277	0.08	>.92	<20%	0.94	1315
F017XPS	1	1400	QTP2X32T8/UNV ISN-SC	Instant	Parallel	21	277	0.09	>.92	<20%	1.06	1485
F017XPS	1	1400	QHE2X32T8/UNV ISN-SC	Instant	Parallel	21	120	0.19	>.92	<20%	1.06	1485
F017XPS	1	1400	QHE3X32T8/UNV ISL-SC	Instant	Parallel	21	120	0.17	>.92	<15%	1.06	1485
F017XPS	1	1400	QHE3X32T8/UNV ISL-SC	Instant	Parallel	21	277	0.08	>.92	<20%	1.06	1485
F017XPS	1	1400	QTP4X32T8/UNV ISL-SC	Instant	Parallel	22	120	0.18	>.95	<20%	1.09	1525
F017XPS	1	1400	QTP4X32T8/UNV ISL-SC	Instant	Parallel	22	277	0.09	>.95	<30%	1.09	1525
F017XPS	1	1400	QHE1x32T8/UNV PSN-MC	PROStart®	Parallel	16	120	0.14	>.98	<10%	0.91	1275
F017XPS	1	1400	QHE1x32T8/UNV PSN-MC	PROStart	Parallel	17	277	0.06	>.95	<15%	0.91	1275
F017XPS	1	1400	QHE2x32T8/UNV PSN-MC	PROStart	Parallel	20	120	0.17	>.98	<10%	1.10	1535
F017XPS	1	1400	QHE2x32T8/UNV PSN-MC	PROStart	Parallel	20	277	0.08	>.90	<15%	1.10	1535
F017XPS	1	1400	QHE3x32T8/UNV PSN-SC	PROStart	Parallel	23	120	0.20	>.98	<15%	1.17	1640
F017XPS	1	1400	QHE3x32T8/UNV PSN-SC	PROStart	Parallel	23	277	0.10	>.90	<20%	1.17	1640
F017XPS	1	1400	QHE1X32T8/UNV PSX-MC	PROStart	Parallel	14	120	0.11	>.98	<10%	0.72	1010
F017XPS	1	1400	QHE1X32T8/UNV PSX-MC	PROStart	Parallel	14	277	0.05	>.98	<10%	0.72	1010
F017XPS	2	1400	QHE2X32T8/UNV ISL-SC	Instant	Parallel	26	120	0.23	>.95	<15%	0.81	2270
F017XPS	2	1400	QHE2X32T8/UNV ISL-SC	Instant	Parallel	26	277	0.10	>.95	<15%	0.81	2270
F017XPS	2	1400	QHE2X32T8/UNV ISN-SC	Instant	Parallel	29	120	0.24	>.95	<10%	0.90	2520
F017XPS	2	1400	QHE2X32T8/UNV ISN-SC	Instant	Parallel	29	277	0.10	>.95	<10%	0.90	2520
F017XPS	2	1400	QHE2x32T8/UNV ISM-SC	Instant	Parallel	35	120	0.29	>.98	<15%	1.03	2885
F017XPS	2	1400	QHE2x32T8/UNV ISM-SC	Instant	Parallel	35	277	0.13	>.95	<15%	1.03	2885
F017XPS	2	1400	QTP2X32T8/UNV ISL-SC	Instant	Parallel	27	120	0.25	>.98	<10%	0.81	2270
F017XPS	2	1400	QTP2X32T8/UNV ISL-SC	Instant	Parallel	27	277	0.11	>.97	<20%	0.81	2270
F017XPS	2	1400	QTP2X32T8/UNV ISN-SC	Instant	Parallel	32	120	0.27	>.95	<10%	0.93	2605
F017XPS	2	1400	QTP2X32T8/UNV ISN-SC	Instant	Parallel	32	277	0.12	>.95	<10%	0.93	2605
F017XPS	2	1400	QHE3X32T8/UNV ISL-SC	Instant	Parallel	31	120	0.29	>.90	<20%	0.92	2575
F017XPS	2	1400	QHE3X32T8/UNV ISL-SC	Instant	Parallel	31	277	0.12	>.90	<20%	0.92	2575
F017XPS	2	1400	QHE3X32T8/UNV ISN-SC	Instant	Parallel	34	120	0.26	>.90	<20%	1.03	2885
F017XPS	2	1400	QHE3X32T8/UNV ISN-SC	Instant	Parallel	34	277	0.11	>.90	<20%	1.03	2885
F017XPS	2	1400	QHE3X32T8/UNV ISM-SC	Instant	Parallel	37	120	0.29	>.98	<15%	1.08	3025
F017XPS	2	1400	QHE3X32T8/UNV ISM-SC	Instant	Parallel	37	277	0.13	>.95	<15%	1.08	3025
F017XPS	2	1400	QTP3X32T8/UNV ISL-SC	Instant	Parallel	32	120	0.26	>.98	<20%	0.93	2605
F017XPS	2	1400	QTP3X32T8/UNV ISL-SC	Instant	Parallel	32	277	0.12	>.91	<20%	0.93	2605
F017XPS	2	1400	QTP3X32T8/UNV ISN-SC	Instant	Parallel	36	120	0.32	>.90	<20%	1.04	2910
F017XPS	2	1400	QTP3X32T8/UNV ISN-SC	Instant	Parallel	36	277	0.14	>.90	<20%	1.04	2910
F017XPS	2	1400	QHE4X32T8/UNV ISL-SC	Instant	Parallel	34	120	0.30	>.95	<15%	1.00	2800
F017XPS	2	1400	QHE4X32T8/UNV ISL-SC	Instant	Parallel	34	277	0.13	>.95	<20%	1.00	2800
F017XPS	2	1400	QHE4X32T8/UNV ISN-SC	Instant	Parallel	37	120	0.29	>.95	<20%	1.13	3165
F017XPS	2	1400	QHE4X32T8/UNV ISN-SC	Instant	Parallel	37	277	0.13	>.95	<20%	1.13	3165
F017XPS	2	1400	QHE4X32T8/UNV ISM-SC	Instant	Parallel	41	120	0.35	>.98	<15%	1.16	3250
F017XPS	2	1400	QHE4X32T8/UNV ISM-SC	Instant	Parallel	41	277	0.16	>.90	<15%	1.16	3250
F017XPS	2	1400	QTP4X32T8/UNV ISL-SC	Instant	Parallel	33	120	0.30	>.95	<20%	0.96	2690
F017XPS	2	1400	QTP4X32T8/UNV ISL-SC	Instant	Parallel	33	277	0.13	>.91	<20%	0.96	2690

Note: Data above is listed above for QHE ISL, ISN, & ISH models (for Type CC models add "-1" to the model description). For complete details see product specification pages.



2 Foot Linear T8 Fluorescent Lamps

System Performance Guide

Lamp Type	# of Lamps	Lamp Lumens	Ballast Description	Start Type	Lamp Circuit	System Watts	Input Volts	Input Amps	Power Factor	THD	Ballast Factor	System Lumens
F017XPS	2	1400	QTP4X32T8/UNV ISN-SC	Instant	Parallel	37	120	0.33	>.95	<20%	1.10	3080
F017XPS	2	1400	QTP4X32T8/UNV ISN-SC	Instant	Parallel	37	277	0.15	>.95	<20%	1.10	3080
F017XPS	2	1400	QHE2x32T8/UNV PSN-MC	PROStart®	Parallel	30	120	0.25	>.98	<10%	0.91	2560
F017XPS	2	1400	QHE2x32T8/UNV PSN-MC	PROStart	Parallel	30	277	0.11	>.95	<15%	0.91	2560
F017XPS	2	1400	QHE3x32T8/UNV PSN-SC	PROStart	Parallel	35	120	0.30	>.98	<10%	1.00	2800
F017XPS	2	1400	QHE3x32T8/UNV PSN-SC	PROStart	Parallel	35	277	0.14	>.90	<15%	1.00	2800
F017XPS	2	1400	QHE4x32T8/UNV PSN-SC	PROStart	Parallel	38	120	0.32	>.98	<10%	1.08	3025
F017XPS	2	1400	QHE4x32T8/UNV PSN-SC	PROStart	Parallel	38	277	0.15	>.90	<15%	1.08	3025
F017XPS	2	1400	QHE2X32T8/UNV PSH-HT	PROStart	Parallel	38	120	0.32	>.98	<10%	1.17	3275
F017XPS	2	1400	QHE2X32T8/UNV PSH-HT	PROStart	Parallel	38	277	0.14	>.98	<10%	1.17	3275
F017XPS	2	1400	QHE2X32T8/UNV PSX-MC	PROStart	Parallel	24	120	0.21	>.98	<10%	0.72	2015
F017XPS	2	1400	QHE2X32T8/UNV PSX-MC	PROStart	Parallel	24	277	0.09	>.97	<10%	0.72	2015
F017XPS	3	1400	QHE3X32T8/UNV ISL-SC	Instant	Parallel	38	120	0.32	>.98	<10%	0.80	3360
F017XPS	3	1400	QHE3X32T8/UNV ISL-SC	Instant	Parallel	38	277	0.14	>.95	<15%	0.80	3360
F017XPS	3	1400	QHE3X32T8/UNV ISN-SC	Instant	Parallel	44	120	0.36	>.95	<20%	0.90	3780
F017XPS	3	1400	QHE3X32T8/UNV ISN-SC	Instant	Parallel	44	277	0.16	>.95	<20%	0.90	3780
F017XPS	3	1400	QHE3x32T8/UNV ISM-SC	Instant	Parallel	49	120	0.41	>.98	<10%	1.00	4200
F017XPS	3	1400	QHE3x32T8/UNV ISM-SC	Instant	Parallel	49	277	0.18	>.95	<15%	1.00	4200
F017XPS	3	1400	QTP3X32T8/UNV ISL-SC	Instant	Parallel	40	120	0.33	>.98	<10%	0.80	3360
F017XPS	3	1400	QTP3X32T8/UNV ISL-SC	Instant	Parallel	40	277	0.15	>.97	<20%	0.80	3360
F017XPS	3	1400	QTP3X32T8/UNV ISN-SC	Instant	Parallel	46	120	0.40	>.95	<20%	0.93	3905
F017XPS	3	1400	QTP3X32T8/UNV ISN-SC	Instant	Parallel	46	277	0.18	>.95	<20%	0.93	3905
F017XPS	3	1400	QHE4X32T8/UNV ISL-SC	Instant	Parallel	43	120	0.38	>.95	<20%	0.88	3695
F017XPS	3	1400	QHE4X32T8/UNV ISL-SC	Instant	Parallel	43	277	0.16	>.95	<20%	0.88	3695
F017XPS	3	1400	QHE4X32T8/UNV ISN-SC	Instant	Parallel	47	120	0.37	>.95	<20%	0.98	4115
F017XPS	3	1400	QHE4X32T8/UNV ISN-SC	Instant	Parallel	47	277	0.16	>.95	<20%	0.98	4115
F017XPS	3	1400	QHE4X32T8/UNV ISM-SC	Instant	Parallel	53	120	0.45	>.98	<10%	1.07	4495
F017XPS	3	1400	QHE4X32T8/UNV ISM-SC	Instant	Parallel	54	277	0.20	>.95	<15%	1.07	4495
F017XPS	3	1400	QTP4X32T8/UNV ISL-SC	Instant	Parallel	44	120	0.36	>.98	<10%	0.87	3655
F017XPS	3	1400	QTP4X32T8/UNV ISL-SC	Instant	Parallel	44	277	0.17	>.93	<20%	0.87	3655
F017XPS	3	1400	QTP4X32T8/UNV ISN-SC	Instant	Parallel	50	120	0.42	>.95	<20%	0.99	4160
F017XPS	3	1400	QTP4X32T8/UNV ISN-SC	Instant	Parallel	50	277	0.18	>.95	<20%	0.99	4160
F017XPS	3	1400	QHE3x32T8/UNV PSN-SC	PROStart	Parallel	44	120	0.37	>.98	<10%	0.90	3780
F017XPS	3	1400	QHE3x32T8/UNV PSN-SC	PROStart	Parallel	44	277	0.17	>.95	<15%	0.90	3780
F017XPS	3	1400	QHE4x32T8/UNV PSN-SC	PROStart	Parallel	49	120	0.41	>.98	<10%	0.98	4115
F017XPS	3	1400	QHE4x32T8/UNV PSN-SC	PROStart	Parallel	49	277	0.19	>.95	<15%	0.98	4115
F017XPS	3	1400	QHE3X32T8/UNV PSH-HT	PROStart	Parallel	56	120	0.48	>.98	<10%	1.18	4955
F017XPS	3	1400	QHE3X32T8/UNV PSH-HT	PROStart	Parallel	56	277	0.12	>.98	<10%	1.18	4955
F017XPS	3	1400	QHE3X32T8/UNV PSX-SC	PROStart	Parallel	38	120	0.30	>.98	<10%	0.73	3065
F017XPS	3	1400	QHE3X32T8/UNV PSX-SC	PROStart	Parallel	37	277	0.13	>.95	<10%	0.73	3065
F017XPS	4	1400	QHE4X32T8/UNV ISL-SC	Instant	Parallel	50	120	0.44	>.95	<10%	0.81	4535
F017XPS	4	1400	QHE4X32T8/UNV ISL-SC	Instant	Parallel	50	277	0.19	>.95	<20%	0.81	4535
F017XPS	4	1400	QHE4X32T8/UNV ISN-SC	Instant	Parallel	56	120	0.44	>.95	<20%	0.91	5095
F017XPS	4	1400	QHE4X32T8/UNV ISN-SC	Instant	Parallel	56	277	0.19	>.95	<20%	0.91	5095
F017XPS	4	1400	QHE4x32T8/UNV ISM-SC	Instant	Parallel	64	120	0.53	>.98	<10%	1.00	5600
F017XPS	4	1400	QHE4x32T8/UNV ISM-SC	Instant	Parallel	64	277	0.24	>.98	<15%	1.00	5600
F017XPS	4	1400	QTP4X32T8/UNV ISL-SC	Instant	Parallel	52	120	0.42	>.98	<10%	0.81	4535
F017XPS	4	1400	QTP4X32T8/UNV ISL-SC	Instant	Parallel	52	277	0.19	>.95	<20%	0.81	4535
F017XPS	4	1400	QTP4X32T8/UNV ISN-SC	Instant	Parallel	60	120	0.50	>.95	<20%	0.91	5095
F017XPS	4	1400	QTP4X32T8/UNV ISN-SC	Instant	Parallel	60	277	0.22	>.95	<20%	0.91	5095
F017XPS	4	1400	QHE4x32T8/UNV PSN-SC	PROStart	Parallel	59	120	0.50	>.98	<10%	0.91	5095
F017XPS	4	1400	QHE4x32T8/UNV PSN-SC	PROStart	Parallel	59	277	0.22	>.95	<15%	0.91	5095
F017XPS	4	1400	QHE4X32T8/UNV PSH-HT	PROStart	Parallel	73	120	0.63	>.98	<10%	1.18	6610
F017XPS	4	1400	QHE4X32T8/UNV PSH-HT	PROStart	Parallel	73	277	0.28	>.98	<10%	1.18	6610
F017XPS	4	1400	QHE4x32T8/UNV PSX-SC	PROStart	Parallel	50	120	0.41	>.98	<10%	0.73	4090
F017XPS	4	1400	QTP4x32T8/UNV PSX-SC	PROStart	Parallel	49	277	0.18	>.98	<10%	0.73	4090

Note: Data above is listed above for QHE ISL, ISN, & ISH models (for Type CC models add "-1" to the model description). For complete details see product specification pages.

As the industry's leading systems company, OSRAM SYLVANIA offers the most comprehensive data on how QUICKTRONIC® electronic ballasts will perform with various combinations of lamps.

System Performance Guide

Lamp Type	# of Lamps	Lamp Lumens	Ballast Description	Start Type	Lamp Circuit	System Watts	Input Volts	Input Amps	Power Factor	THD	Ballast Factor	System Lumens
F025XP	1	2175	QHE1X32T8/UNV ISL-SC	Instant	Parallel	20	120	0.17	>.98	<10%	0.79	1720
F025XP	1	2175	QHE1X32T8/UNV ISL-SC	Instant	Parallel	20	277	0.08	>.95	<10%	0.79	1720
F025XP	1	2175	QHE1X32T8/UNV ISN-SC	Instant	Parallel	23	120	0.21	>.98	<10%	0.90	1960
F025XP	1	2175	QHE1X32T8/UNV ISN-SC	Instant	Parallel	23	277	0.09	>.98	<10%	0.90	1960
F025XP	1	2175	QTP1X32T8/UNV ISN-SC	Instant	Parallel	24	120	0.23	>.98	<10%	0.90	1960
F025XP	1	2175	QTP1X32T8/UNV ISN-SC	Instant	Parallel	24	277	0.10	>.98	<10%	0.90	1960
F025XP	1	2175	QHE2X32T8/UNV ISL-SC	Instant	Parallel	24	120	0.21	>.95	<15%	0.96	2090
F025XP	1	2175	QHE2X32T8/UNV ISL-SC	Instant	Parallel	24	277	0.10	>.90	<15%	0.96	2090
F025XP	1	2175	QHE2X32T8/UNV ISN-SC	Instant	Parallel	27	120	0.21	>.95	<15%	1.07	2325
F025XP	1	2175	QHE2X32T8/UNV ISN-SC	Instant	Parallel	27	277	0.09	>.95	<15%	1.07	2325
F025XP	1	2175	QHE2X32T8/UNV ISM-SC	Instant	Parallel	31	120	0.26	>.98	<10%	1.18	2565
F025XP	1	2175	QHE2X32T8/UNV ISM-SC	Instant	Parallel	31	277	0.12	>.95	<15%	1.18	2565
F025XP	1	2175	QTP2X32T8/UNV ISL-SC	Instant	Parallel	25	120	0.22	>.98	<10%	0.93	2025
F025XP	1	2175	QTP2X32T8/UNV ISL-SC	Instant	Parallel	25	277	0.10	>.96	<20%	0.93	2025
F025XP	1	2175	QTP2X32T8/UNV ISN-SC	Instant	Parallel	29	120	0.25	>.95	<15%	1.05	2285
F025XP	1	2175	QTP2X32T8/UNV ISN-SC	Instant	Parallel	29	277	0.11	>.95	<15%	1.05	2285
F025XP	1	2175	QHE3X32T8/UNV ISL-SC	Instant	Parallel	28	120	0.24	>.98	<15%	1.05	2285
F025XP	1	2175	QHE3X32T8/UNV ISL-SC	Instant	Parallel	29	277	0.11	>.95	<20%	1.05	2285
F025XP	1	2175	QHE3X32T8/UNV ISN-SC	Instant	Parallel	30	120	0.27	>.94	<10%	1.18	2565
F025XP	1	2175	QHE3X32T8/UNV ISN-SC	Instant	Parallel	31	277	0.13	>.84	<30%	1.18	2565
F025XP	1	2175	QTP3X32T8/UNV ISL-SC	Instant	Parallel	29	120	0.23	>.98	<20%	1.04	2260
F025XP	1	2175	QTP3X32T8/UNV ISL-SC	Instant	Parallel	29	277	0.12	>.87	<30%	1.04	2260
F025XP	1	2175	QHE4X32T8/UNV ISL-SC	Instant	Parallel	32	120	0.27	>.98	<10%	1.18	2565
F025XP	1	2175	QHE4X32T8/UNV ISL-SC	Instant	Parallel	32	277	0.12	>.92	<20%	1.18	2565
F025XP	1	2175	QTP4X32T8/UNV ISL-SC	Instant	Parallel	30	120	0.24	>.98	<20%	1.08	2350
F025XP	1	2175	QTP4X32T8/UNV ISL-SC	Instant	Parallel	30	277	0.12	>.90	<30%	1.08	2350
F025XP	1	2175	QHE1x32T8/UNV PSN-MC	PROStart®	Parallel	23	120	0.20	>.98	<10%	0.89	1940
F025XP	1	2175	QHE1x32T8/UNV PSN-MC	PROStart	Parallel	23	277	0.09	>.98	<10%	0.89	1940
F025XP	1	2175	QHE2x32T8/UNV PSN-MC	PROStart	Parallel	28	120	0.24	>.98	<10%	1.09	2360
F025XP	1	2175	QHE2x32T8/UNV PSN-MC	PROStart	Parallel	28	277	0.11	>.95	<15%	1.09	2360
F025XP	1	2175	QHE3x32T8/UNV PSN-SC	PROStart	Parallel	30	120	0.26	>.98	<10%	1.14	2480
F025XP	1	2175	QHE3x32T8/UNV PSN-SC	PROStart	Parallel	31	277	0.12	>.90	<15%	1.14	2480
F025XP	1	2175	QHE1X32T8/UNV PSX-MC	PROStart	Parallel	19	120	0.17	>.98	<10%	0.72	1565
F025XP	1	2175	QHE1X32T8/UNV PSX-MC	PROStart	Parallel	19	277	0.07	>.98	<10%	0.72	1565
F025XP	2	2175	QHE2X32T8/UNV ISL-SC	Instant	Parallel	38	120	0.33	>.97	<10%	0.80	3480
F025XP	2	2175	QHE2X32T8/UNV ISL-SC	Instant	Parallel	38	277	0.14	>.97	<10%	0.80	3480
F025XP	2	2175	QHE2X32T8/UNV ISN-SC	Instant	Parallel	43	120	0.34	>.97	<10%	0.89	3870
F025XP	2	2175	QHE2X32T8/UNV ISN-SC	Instant	Parallel	43	277	0.15	>.97	<10%	0.89	3870
F025XP	2	2175	QTP2X32T8/UNV ISL-SC	Instant	Parallel	40	120	0.34	>.98	<10%	0.80	3480
F025XP	2	2175	QTP2X32T8/UNV ISL-SC	Instant	Parallel	40	277	0.15	>.98	<10%	0.80	3480
F025XP	2	2175	QTP2X32T8/UNV ISN-SC	Instant	Parallel	45	120	0.40	>.97	<10%	0.92	4000
F025XP	2	2175	QTP2X32T8/UNV ISN-SC	Instant	Parallel	45	277	0.17	>.97	<10%	0.92	4000
F025XP	2	2175	QHE3X32T8/UNV ISL-SC	Instant	Parallel	45	120	0.39	>.95	<20%	0.91	3960
F025XP	2	2175	QHE3X32T8/UNV ISL-SC	Instant	Parallel	45	277	0.17	>.95	<20%	0.91	3960
F025XP	2	2175	QHE3X32T8/UNV ISN-SC	Instant	Parallel	49	120	0.41	>.98	<10%	1.01	4395
F025XP	2	2175	QHE3X32T8/UNV ISN-SC	Instant	Parallel	49	277	0.18	>.97	<10%	1.01	4395
F025XP	2	2175	QHE3X32T8/UNV ISM-SC	Instant	Parallel	53	120	0.41	>.98	<10%	1.10	4785
F025XP	2	2175	QHE3X32T8/UNV ISM-SC	Instant	Parallel	53	277	0.18	>.95	<15%	1.10	4785
F025XP	2	2175	QTP3X32T8/UNV ISL-SC	Instant	Parallel	45	120	0.35	>.98	<10%	0.89	3870
F025XP	2	2175	QTP3X32T8/UNV ISL-SC	Instant	Parallel	45	277	0.16	>.98	<10%	0.89	3870
F025XP	2	2175	QTP3X32T8/UNV ISN-SC	Instant	Parallel	52	120	0.46	>.95	<20%	1.02	4435
F025XP	2	2175	QTP3X32T8/UNV ISN-SC	Instant	Parallel	52	277	0.20	>.95	<20%	1.02	4435

Note: Data above is listed above for QHE ISL, ISN, & ISH models (for Type CC models add "-1" to the model description). For complete details see product specification pages.



3 Foot Linear T8 Fluorescent Lamps

System Performance Guide

Lamp Type	# of Lamps	Lamp Lumens	Ballast Description	Start Type	Lamp Circuit	System Watts	Input Volts	Input Amps	Power Factor	THD	Ballast Factor	System Lumens
F025XP	2	2175	QHE4X32T8/UNV ISL-SC	Instant	Parallel	50	120	0.43	>.97	<10%	1.00	4350
F025XP	2	2175	QHE4X32T8/UNV ISL-SC	Instant	Parallel	50	277	0.19	>.95	<20%	1.00	4350
F025XP	2	2175	QHE4X32T8/UNV ISN-SC	Instant	Parallel	54	120	0.41	>.97	<20%	1.10	4785
F025XP	2	2175	QHE4X32T8/UNV ISN-SC	Instant	Parallel	54	277	0.18	>.97	<20%	1.10	4785
F025XP	2	2175	QHE4X32T8/UNV ISM-SC	Instant	Parallel	57	120	0.49	>.98	<10%	1.17	5090
F025XP	2	2175	QHE4X32T8/UNV ISM-SC	Instant	Parallel	57	277	0.22	>.95	<15%	1.17	5090
F025XP	2	2175	QTP4X32T8/UNV ISL-SC	Instant	Parallel	48	120	0.39	>.98	<10%	0.95	4135
F025XP	2	2175	QTP4X32T8/UNV ISL-SC	Instant	Parallel	48	277	0.18	>.94	<20%	0.95	4135
F025XP	2	2175	QTP4X32T8/UNV ISN-SC	Instant	Parallel	54	120	0.46	>.97	<20%	1.08	4700
F025XP	2	2175	QTP4X32T8/UNV ISN-SC	Instant	Parallel	54	277	0.21	>.97	<20%	1.08	4700
F025XP	2	2175	QHE2x32T8/UNV PSN-MC	PROStart®	Parallel	45	120	0.38	>.98	<10%	0.90	3915
F025XP	2	2175	QHE2x32T8/UNV PSN-MC	PROStart	Parallel	44	277	0.16	>.98	<10%	0.90	3915
F025XP	2	2175	QHE3x32T8/UNV PSN-SC	PROStart	Parallel	50	120	0.42	>.98	<10%	0.99	4305
F025XP	2	2175	QHE3x32T8/UNV PSN-SC	PROStart	Parallel	50	277	0.19	>.95	<10%	0.99	4305
F025XP	2	2175	QHE4x32T8/UNV PSN-SC	PROStart	Parallel	54	120	0.45	>.98	<10%	1.07	4655
F025XP	2	2175	QHE4x32T8/UNV PSN-SC	PROStart	Parallel	54	277	0.20	>.95	<10%	1.07	4655
F025XP	2	2175	QHE2X32T8/UNV PSH-HT	PROStart	Parallel	55	120	0.46	>.95	<10%	1.16	5045
F025XP	2	2175	QHE2X32T8/UNV PSH-HT	PROStart	Parallel	55	277	0.2	>.95	<10%	1.16	5045
F025XP	3	2175	QHE3X32T8/UNV ISL-SC	Instant	Parallel	56	120	0.48	>.98	<10%	0.79	5155
F025XP	3	2175	QHE3X32T8/UNV ISL-SC	Instant	Parallel	56	277	0.21	>.97	<10%	0.79	5155
F025XP	3	2175	QHE3X32T8/UNV ISN-SC	Instant	Parallel	65	120	0.55	>.97	<15%	0.89	5805
F025XP	3	2175	QHE3X32T8/UNV ISN-SC	Instant	Parallel	64	277	0.24	>.97	<15%	0.89	5805
F025XP	3	2175	QTP3X32T8/UNV ISL-SC	Instant	Parallel	59	120	0.46	>.98	<10%	0.80	5220
F025XP	3	2175	QTP3X32T8/UNV ISL-SC	Instant	Parallel	59	277	0.21	>.98	<20%	0.80	5220
F025XP	3	2175	QTP3X32T8/UNV ISN-SC	Instant	Parallel	67	120	0.61	>.97	<15%	0.90	5875
F025XP	3	2175	QTP3X32T8/UNV ISN-SC	Instant	Parallel	67	277	0.26	>.97	<15%	0.90	5875
F025XP	3	2175	QHE4X32T8/UNV ISL-SC	Instant	Parallel	64	120	0.54	>.98	<10%	0.87	5675
F025XP	3	2175	QHE4X32T8/UNV ISL-SC	Instant	Parallel	64	277	0.23	>.98	<15%	0.87	5675
F025XP	3	2175	QHE4X32T8/UNV ISN-SC	Instant	Parallel	70	120	0.57	>.98	<15%	0.97	6330
F025XP	3	2175	QHE4X32T8/UNV ISN-SC	Instant	Parallel	70	277	0.25	>.98	<15%	0.97	6330
F025XP	3	2175	QHE4X32T8/UNV ISM-SC	Instant	Parallel	76	120	0.64	>.98	<10%	1.07	6980
F025XP	3	2175	QHE4X32T8/UNV ISM-SC	Instant	Parallel	76	277	0.28	>.98	<15%	1.07	6980
F025XP	3	2175	QTP4X32T8/UNV ISL-SC	Instant	Parallel	62	120	0.51	>.98	<10%	0.86	5610
F025XP	3	2175	QTP4X32T8/UNV ISL-SC	Instant	Parallel	62	277	0.23	>.96	<20%	0.86	5610
F025XP	3	2175	QTP4X32T8/UNV ISN-SC	Instant	Parallel	71	120	0.61	>.98	<15%	0.98	6395
F025XP	3	2175	QTP4X32T8/UNV ISN-SC	Instant	Parallel	71	277	0.27	>.98	<15%	0.98	6395
F025XP	3	2175	QHE3x32T8/UNV PSN-SC	PROStart	Parallel	65	120	0.55	>.98	<10%	0.89	5805
F025XP	3	2175	QHE3x32T8/UNV PSN-SC	PROStart	Parallel	65	277	0.24	>.98	<10%	0.89	5805
F025XP	3	2175	QHE4x32T8/UNV PSN-SC	PROStart	Parallel	71	120	0.60	>.98	<10%	0.97	6330
F025XP	3	2175	QHE4x32T8/UNV PSN-SC	PROStart	Parallel	70	277	0.26	>.95	<10%	0.97	6330
F025XP	3	2175	QHE3X32T8/UNV PSH-HT	PROStart	Parallel	83	120	0.70	>.98	<10%	1.17	7635
F025XP	3	2175	QHE3X32T8/UNV PSH-HT	PROStart	Parallel	82	277	0.30	>.98	<10%	1.17	7635
F025XP	4	2175	QHE4X32T8/UNV ISL-SC	Instant	Parallel	74	120	0.64	>.97	<10%	0.79	6875
F025XP	4	2175	QHE4X32T8/UNV ISL-SC	Instant	Parallel	74	277	0.28	>.97	<15%	0.79	6875
F025XP	4	2175	QHE4X32T8/UNV ISN-SC	Instant	Parallel	84	120	0.68	>.97	<15%	0.89	7745
F025XP	4	2175	QHE4X32T8/UNV ISN-SC	Instant	Parallel	84	277	0.29	>.97	<15%	0.89	7745
F025XP	4	2175	QTP4X32T8/UNV ISL-SC	Instant	Parallel	77	120	0.61	>.98	<10%	0.80	6960
F025XP	4	2175	QTP4X32T8/UNV ISL-SC	Instant	Parallel	77	277	0.27	>.97	<10%	0.80	6960
F025XP	4	2175	QTP4X32T8/UNV ISN-SC	Instant	Parallel	88	120	0.74	>.97	<15%	0.90	7830
F025XP	4	2175	QTP4X32T8/UNV ISN-SC	Instant	Parallel	88	277	0.32	>.97	<15%	0.90	7830
F025XP	4	2175	QHE4x32T8/UNV PSN-SC	PROStart	Parallel	85	120	0.72	>.98	<10%	0.90	7830
F025XP	4	2175	QHE4x32T8/UNV PSN-SC	PROStart	Parallel	84	277	0.31	>.98	<10%	0.90	7830
F025XP	4	2175	QHE4X32T8/UNV PSH-HT	PROStart	Parallel	107	120	0.91	>.98	<10%	1.17	10180
F025XP	4	2175	QHE4X32T8/UNV PSH-HT	PROStart	Parallel	106	277	0.4	>.98	<10%	1.17	10180

Note: Data above is listed above for QHE ISL, ISN, & ISH models (for Type CC models add "-1" to the model description). For complete details see product specification pages.

2 Foot Linear T8 Fluorescent Lamps

As the industry's leading systems company, OSRAM SYLVANIA offers the most comprehensive data on how QUICKTRONIC® electronic ballasts will perform with various combinations of lamps.

System Performance Guide

Lamp Type	# of Lamps	Lamp Lumens	Ballast Description	Start Type	Lamp Circuit	System Watts	Input Volts	Input Amps	Power Factor	THD	Ballast Factor	System Lumens
F017XP	1	1375	QHE1X32T8/UNV ISL-SC	Instant	Parallel	14	120	0.12	>.98	<10%	0.80	1100
F017XP	1	1375	QHE1X32T8/UNV ISL-SC	Instant	Parallel	14	277	0.05	>.95	<15%	0.80	1100
F017XP	1	1375	QHE1X32T8/UNV ISN-SC	Instant	Parallel	17	120	0.14	>.98	<15%	0.90	1240
F017XP	1	1375	QHE1X32T8/UNV ISN-SC	Instant	Parallel	17	277	0.06	>.98	<15%	0.90	1240
F017XP	1	1375	QTP1X32T8/UNV ISN-SC	Instant	Parallel	18	120	0.15	>.98	<15%	0.92	1265
F017XP	1	1375	QTP1X32T8/UNV ISN-SC	Instant	Parallel	18	277	0.07	>.98	<15%	0.92	1265
F017XP	1	1375	QHE2X32T8/UNV ISL-SC	Instant	Parallel	17	120	0.16	>.90	<20%	0.98	1350
F017XP	1	1375	QHE2X32T8/UNV ISL-SC	Instant	Parallel	17	277	0.07	>.90	<20%	0.98	1350
F017XP	1	1375	QHE2X32T8/UNV ISN-SC	Instant	Parallel	19	120	0.15	>.90	<20%	1.08	1485
F017XP	1	1375	QHE2X32T8/UNV ISN-SC	Instant	Parallel	19	277	0.06	>.90	<20%	1.08	1485
F017XP	1	1375	QHE2X32T8/UNV ISM-SC	Instant	Parallel	22	120	0.19	>.92	<15%	1.18	1625
F017XP	1	1375	QHE2X32T8/UNV ISM-SC	Instant	Parallel	22	277	0.09	>.92	<20%	1.18	1625
F017XP	1	1375	QTP2X32T8/UNV ISL-SC	Instant	Parallel	19	120	0.20	>.92	<20%	0.94	1295
F017XP	1	1375	QTP2X32T8/UNV ISL-SC	Instant	Parallel	19	277	0.08	>.92	<20%	0.94	1295
F017XP	1	1375	QTP2X32T8/UNV ISN-SC	Instant	Parallel	21	277	0.09	>.92	<20%	1.06	1460
F017XP	1	1375	QHE2X32T8/UNV PSN-SC	Instant	Parallel	21	120	0.19	>.92	<20%	1.06	1460
F017XP	1	1375	QHE3X32T8/UNV ISL-SC	Instant	Parallel	21	120	0.17	>.92	<15%	1.06	1460
F017XP	1	1375	QHE3X32T8/UNV ISL-SC	Instant	Parallel	21	277	0.08	>.92	<20%	1.06	1460
F017XP	1	1375	QTP4X32T8/UNV ISL-SC	Instant	Parallel	22	120	0.18	>.95	<20%	1.09	1500
F017XP	1	1375	QTP4X32T8/UNV ISL-SC	Instant	Parallel	22	277	0.09	>.95	<30%	1.09	1500
F017XP	1	1375	QHE1x32T8/UNV PSN-MC	PROStart®	Parallel	16	120	0.14	>.98	<10%	0.91	1250
F017XP	1	1375	QHE1x32T8/UNV PSN-MC	PROStart	Parallel	17	277	0.06	>.95	<15%	0.91	1250
F017XP	1	1375	QHE2x32T8/UNV PSN-MC	PROStart	Parallel	20	120	0.17	>.98	<10%	1.10	1510
F017XP	1	1375	QHE2x32T8/UNV PSN-MC	PROStart	Parallel	20	277	0.08	>.90	<15%	1.10	1510
F017XP	1	1375	QHE3x32T8/UNV PSN-SC	PROStart	Parallel	23	120	0.20	>.98	<15%	1.17	1610
F017XP	1	1375	QHE3x32T8/UNV PSN-SC	PROStart	Parallel	23	277	0.10	>.90	<20%	1.17	1610
F017XP	1	1375	QHE1X32T8/UNV PSX-MC	PROStart	Parallel	14	120	0.11	>.98	<10%	0.72	990
F017XP	1	1375	QHE1X32T8/UNV PSX-MC	PROStart	Parallel	14	277	0.05	>.98	<10%	0.72	990
F017XP	2	1375	QHE2X32T8/UNV ISL-SC	Instant	Parallel	26	120	0.23	>.95	<15%	0.81	2230
F017XP	2	1375	QHE2X32T8/UNV ISL-SC	Instant	Parallel	26	277	0.10	>.95	<15%	0.81	2230
F017XP	2	1375	QHE2X32T8/UNV ISN-SC	Instant	Parallel	29	120	0.24	>.95	<10%	0.90	2475
F017XP	2	1375	QHE2x32T8/UNV ISN-SC	Instant	Parallel	29	277	0.10	>.95	<10%	0.90	2475
F017XP	2	1375	QHE2x32T8/UNV ISM-SC	Instant	Parallel	35	120	0.29	>.98	<15%	1.03	2835
F017XP	2	1375	QHE2x32T8/UNV ISM-SC	Instant	Parallel	35	277	0.13	>.95	<15%	1.03	2835
F017XP	2	1375	QTP2X32T8/UNV ISL-SC	Instant	Parallel	27	120	0.25	>.98	<10%	0.81	2230
F017XP	2	1375	QTP2X32T8/UNV ISL-SC	Instant	Parallel	27	277	0.11	>.97	<20%	0.81	2230
F017XP	2	1375	QTP2X32T8/UNV ISN-SC	Instant	Parallel	32	120	0.27	>.95	<10%	0.93	2560
F017XP	2	1375	QTP2X32T8/UNV ISN-SC	Instant	Parallel	32	277	0.12	>.95	<10%	0.93	2560
F017XP	2	1375	QHE3X32T8/UNV ISL-SC	Instant	Parallel	31	120	0.29	>.90	<20%	0.92	2530
F017XP	2	1375	QHE3X32T8/UNV ISL-SC	Instant	Parallel	31	277	0.12	>.90	<20%	0.92	2530
F017XP	2	1375	QHE3X32T8/UNV ISN-SC	Instant	Parallel	34	120	0.26	>.90	<20%	1.03	2835
F017XP	2	1375	QHE3X32T8/UNV ISN-SC	Instant	Parallel	34	277	0.11	>.90	<20%	1.03	2835
F017XP	2	1375	QHE3X32T8/UNV ISM-SC	Instant	Parallel	37	120	0.29	>.98	<15%	1.08	2970
F017XP	2	1375	QHE3X32T8/UNV ISM-SC	Instant	Parallel	37	277	0.13	>.95	<15%	1.08	2970
F017XP	2	1375	QTP3X32T8/UNV ISL-SC	Instant	Parallel	32	120	0.26	>.98	<20%	0.93	2560
F017XP	2	1375	QTP3X32T8/UNV ISL-SC	Instant	Parallel	32	277	0.12	>.91	<20%	0.93	2560
F017XP	2	1375	QTP3X32T8/UNV ISN-SC	Instant	Parallel	36	120	0.32	>.90	<20%	1.04	2860
F017XP	2	1375	QTP3X32T8/UNV ISN-SC	Instant	Parallel	36	277	0.14	>.90	<20%	1.04	2860
F017XP	2	1375	QHE4X32T8/UNV ISL-SC	Instant	Parallel	34	120	0.30	>.95	<15%	1.00	2750
F017XP	2	1375	QHE4X32T8/UNV ISL-SC	Instant	Parallel	34	277	0.13	>.95	<20%	1.00	2750
F017XP	2	1375	QHE4X32T8/UNV ISN-SC	Instant	Parallel	37	120	0.29	>.95	<20%	1.13	3110
F017XP	2	1375	QHE4X32T8/UNV ISN-SC	Instant	Parallel	37	277	0.13	>.95	<20%	1.13	3110

Note: Data above is listed above for QHE ISL, ISN, & ISH models (for Type CC models add "-1" to the model description). For complete details see product specification pages.



2 Foot Linear T8 Fluorescent Lamps

System Performance Guide

Lamp Type	# of Lamps	Lamp Lumens	Ballast Description	Start Type	Lamp Circuit	System Watts	Input Volts	Input Amps	Power Factor	THD	Ballast Factor	System Lumens
F017XP	2	1375	QHE4X32T8/UNV ISM-SC	Instant	Parallel	41	120	0.35	>.98	<15%	1.16	3190
F017XP	2	1375	QHE4X32T8/UNV ISM-SC	Instant	Parallel	41	277	0.16	>.90	<15%	1.16	3190
F017XP	2	1375	QTP4X32T8/UNV ISL-SC	Instant	Parallel	33	120	0.30	>.95	<20%	0.96	2640
F017XP	2	1375	QTP4X32T8/UNV ISL-SC	Instant	Parallel	33	277	0.13	>.91	<20%	0.96	2640
F017XP	2	1375	QTP4X32T8/UNV ISN-SC	Instant	Parallel	37	120	0.33	>.95	<20%	1.10	3025
F017XP	2	1375	QTP4X32T8/UNV ISN-SC	Instant	Parallel	37	277	0.15	>.95	<20%	1.10	3025
F017XP	2	1375	QHE2X32T8/UNV PSN-MC	PROStart®	Parallel	30	120	0.25	>.98	<10%	0.91	2515
F017XP	2	1375	QHE2X32T8/UNV PSN-MC	PROStart	Parallel	30	277	0.11	>.95	<15%	0.91	2515
F017XP	2	1375	QHE3X32T8/UNV PSN-SC	PROStart	Parallel	35	120	0.30	>.98	<10%	1.00	2750
F017XP	2	1375	QHE3X32T8/UNV PSN-SC	PROStart	Parallel	35	277	0.14	>.90	<15%	1.00	2750
F017XP	2	1375	QHE4X32T8/UNV PSN-SC	PROStart	Parallel	38	120	0.32	>.98	<10%	1.08	2970
F017XP	2	1375	QHE4X32T8/UNV PSN-SC	PROStart	Parallel	38	277	0.15	>.90	<15%	1.08	2970
F017XP	2	1375	QHE2X32T8/UNV PSX-HT	PROStart	Parallel	38	120	0.32	>.98	<10%	1.17	3220
F017XP	2	1375	QHE2X32T8/UNV PSX-HT	PROStart	Parallel	38	277	0.14	>.98	<10%	1.17	3220
F017XP	2	1375	QHE2X32T8/UNV PSX-MC	PROStart	Parallel	24	120	0.21	>.98	<10%	0.72	1980
F017XP	2	1375	QHE2X32T8/UNV PSX-MC	PROStart	Parallel	24	277	0.09	>.97	<10%	0.72	1980
F017XP	3	1375	QHE3X32T8/UNV ISL-SC	Instant	Parallel	38	120	0.32	>.98	<10%	0.80	3300
F017XP	3	1375	QHE3X32T8/UNV ISL-SC	Instant	Parallel	38	277	0.14	>.95	<15%	0.80	3300
F017XP	3	1375	QHE3X32T8/UNV ISN-SC	Instant	Parallel	44	120	0.36	>.95	<20%	0.90	3715
F017XP	3	1375	QHE3X32T8/UNV ISN-SC	Instant	Parallel	44	277	0.16	>.95	<20%	0.90	3715
F017XP	3	1375	QHE3X32T8/UNV ISM-SC	Instant	Parallel	49	120	0.41	>.98	<10%	1.00	4125
F017XP	3	1375	QHE3X32T8/UNV ISM-SC	Instant	Parallel	49	277	0.18	>.95	<15%	1.00	4125
F017XP	3	1375	QTP3X32T8/UNV ISL-SC	Instant	Parallel	40	120	0.33	>.98	<10%	0.80	3300
F017XP	3	1375	QTP3X32T8/UNV ISL-SC	Instant	Parallel	40	277	0.15	>.97	<20%	0.80	3300
F017XP	3	1375	QTP3X32T8/UNV ISN-SC	Instant	Parallel	46	120	0.40	>.95	<20%	0.93	3835
F017XP	3	1375	QTP3X32T8/UNV ISN-SC	Instant	Parallel	46	277	0.18	>.95	<20%	0.93	3835
F017XP	3	1375	QHE4X32T8/UNV ISL-SC	Instant	Parallel	43	120	0.38	>.95	<20%	0.88	3630
F017XP	3	1375	QHE4X32T8/UNV ISL-SC	Instant	Parallel	43	277	0.16	>.95	<20%	0.88	3630
F017XP	3	1375	QHE4X32T8/UNV ISN-SC	Instant	Parallel	47	120	0.37	>.95	<20%	0.98	4045
F017XP	3	1375	QHE4X32T8/UNV ISN-SC	Instant	Parallel	47	277	0.16	>.95	<20%	0.98	4045
F017XP	3	1375	QHE4X32T8/UNV ISM-SC	Instant	Parallel	53	120	0.45	>.98	<10%	1.07	4415
F017XP	3	1375	QHE4X32T8/UNV ISM-SC	Instant	Parallel	54	277	0.20	>.95	<15%	1.07	4415
F017XP	3	1375	QTP4X32T8/UNV ISL-SC	Instant	Parallel	44	120	0.36	>.98	<10%	0.87	3590
F017XP	3	1375	QTP4X32T8/UNV ISL-SC	Instant	Parallel	44	277	0.17	>.93	<20%	0.87	3590
F017XP	3	1375	QTP4X32T8/UNV ISN-SC	Instant	Parallel	50	120	0.42	>.95	<20%	0.99	4085
F017XP	3	1375	QTP4X32T8/UNV ISN-SC	Instant	Parallel	50	277	0.18	>.95	<20%	0.99	4085
F017XP	3	1375	QHE3X32T8/UNV PSN-SC	PROStart	Parallel	44	120	0.37	>.98	<10%	0.90	3715
F017XP	3	1375	QHE3X32T8/UNV PSN-SC	PROStart	Parallel	44	277	0.17	>.95	<15%	0.90	3715
F017XP	3	1375	QHE4X32T8/UNV PSN-SC	PROStart	Parallel	49	120	0.41	>.98	<10%	0.98	4045
F017XP	3	1375	QHE4X32T8/UNV PSN-SC	PROStart	Parallel	49	277	0.19	>.95	<15%	0.98	4045
F017XP	3	1375	QHE3X32T8/UNV PSX-HT	PROStart	Parallel	56	120	0.48	>.98	<10%	1.18	4870
F017XP	3	1375	QHE3X32T8/UNV PSX-HT	PROStart	Parallel	56	277	0.21	>.98	<10%	1.18	4870
F017XP	3	1375	QHE3X32T8/UNV PSX-SC	PROStart	Parallel	38	120	0.30	>.98	<10%	0.73	3010
F017XP	3	1375	QHE3X32T8/UNV PSX-SC	PROStart	Parallel	37	277	0.13	>.95	<10%	0.73	3010
F017XP	4	1375	QHE4X32T8/UNV ISL-SC	Instant	Parallel	50	120	0.44	>.95	<10%	0.81	4455
F017XP	4	1375	QHE4X32T8/UNV ISL-SC	Instant	Parallel	50	277	0.19	>.95	<20%	0.81	4455
F017XP	4	1375	QHE4X32T8/UNV ISN-SC	Instant	Parallel	56	120	0.44	>.95	<20%	0.91	5005
F017XP	4	1375	QHE4X32T8/UNV ISN-SC	Instant	Parallel	56	277	0.19	>.95	<20%	0.91	5005
F017XP	4	1375	QHE4X32T8/UNV ISM-SC	Instant	Parallel	64	120	0.53	>.98	<10%	1.00	5500
F017XP	4	1375	QHE4X32T8/UNV ISM-SC	Instant	Parallel	64	277	0.24	>.98	<15%	1.00	5500
F017XP	4	1375	QTP4X32T8/UNV ISL-SC	Instant	Parallel	52	120	0.42	>.98	<10%	0.81	4455
F017XP	4	1375	QTP4X32T8/UNV ISL-SC	Instant	Parallel	52	277	0.19	>.95	<20%	0.81	4455
F017XP	4	1375	QTP4X32T8/UNV ISN-SC	Instant	Parallel	60	120	0.50	>.95	<20%	0.91	5005
F017XP	4	1375	QTP4X32T8/UNV ISN-SC	Instant	Parallel	60	277	0.22	>.95	<20%	0.91	5005
F017XP	4	1375	QHE4X32T8/UNV PSN-SC	PROStart	Parallel	59	120	0.50	>.98	<10%	0.91	5005
F017XP	4	1375	QHE4X32T8/UNV PSN-SC	PROStart	Parallel	59	277	0.22	>.95	<15%	0.91	5005
F017XP	4	1375	QHE4X32T8/UNV PSX-HT	PROStart	Parallel	73	120	0.63	>.98	<10%	1.18	6490
F017XP	4	1375	QHE4X32T8/UNV PSX-HT	PROStart	Parallel	73	277	0.28	>.98	<10%	1.18	6490
F017XP	4	1375	QHE4X32T8/UNV PSX-SC	PROStart	Parallel	50	120	0.41	>.98	<10%	0.73	4015
F017XP	4	1375	QTP4X32T8/UNV PSX-SC	PROStart	Parallel	49	277	0.18	>.98	<10%	0.73	4015

Note: Data above is listed above for QHE ISL, ISN, & ISH models (for Type CC models add "-1" to the model description). For complete details see product specification pages.

FB032XP

QUICKSYSTEMS

T8 Dimming U - Shaped CURVALUME®

As the industry's leading systems company, OSRAM SYLVANIA offers the most comprehensive data on how QUICKTRONIC® electronic ballasts will perform with various combinations of lamps.

System Performance Guide

Lamp Type	# of Lamps	Lamp Lumens	Ballast Description	Start Type	Lamp Circuit	System Watts	Input Volts	Input Amps	Power Factor	THD	Ballast Factor	System Lumens
FB032XP	1	2900	QTP1x32T8/UNV DIM-TC(@100%)	PROStart®	Series	30	120	0.27	>.98	<15%	0.88	2550
FB032XP	1	2900	QTP1x32T8/UNV DIM-TC(@5%)	PROStart	Series	8	120	0.06	>.98	<10%	0.05	145
FB032XP	1	2900	QTP1x32T8/UNV DIM-TC(@100%)	PROStart	Series	30	277	0.11	>.98	<10%	0.88	2550
FB032XP	1	2900	QTP1x32T8/UNV DIM-TC(@5%)	PROStart	Series	6	277	0.02	>.98	<20%	0.05	145
FB032XP	2	2900	QTP2x32T8/UNV DIM-TC(@100%)	PROStart	Series	59	120	0.49	>.98	<10%	0.88	5105
FB032XP	2	2900	QTP2x32T8/UNV DIM-TC(@5%)	PROStart	Series	14	120	0.12	>.98	<10%	0.05	290
FB032XP	2	2900	QTP2x32T8/UNV DIM-TC(@100%)	PROStart	Series	57	277	0.21	>.98	<10%	0.88	5105
FB032XP	2	2900	QTP2x32T8/UNV DIM-TC(@5%)	PROStart	Series	14	277	0.05	>.98	<20%	0.05	290
FB032XP	3	2900	QTP3x32T8/UNV DIM-TCL(@100%)	PROStart	Series	87	120	0.73	>.98	<10%	0.88	7655
FB032XP	3	2900	QTP3x32T8/UNV DIM-TCL(@5%)	PROStart	Series	20	120	0.17	>.98	<10%	0.05	435
FB032XP	3	2900	QTP3x32T8/UNV DIM-TCL(@100%)	PROStart	Series	84	277	0.31	>.98	<10%	0.88	7655
FB032XP	3	2900	QTP3x32T8/UNV DIM-TCL(@5%)	PROStart	Series	20	277	0.08	>.97	<25%	0.05	435
FB032XP	4	2900	QTP4x32T8/UNV DIM-TCL(@100%)	PROStart	Series	117	120	0.98	>.98	<10%	0.88	10210
FB032XP	4	2900	QTP4x32T8/UNV DIM-TCL(@5%)	PROStart	Series	27	120	0.23	>.98	<20%	0.05	580
FB032XP	4	2900	QTP4x32T8/UNV DIM-TCL(@100%)	PROStart	Series	112	277	0.41	>.98	<10%	0.88	10210
FB032XP	4	2900	QTP4x32T8/UNV DIM-TCL(@5%)	PROStart	Series	27	277	0.11	>.98	<20%	0.05	580

Note: Data above is listed above for QHE ISL, ISM, & ISH models (for Type CC models add "-1" to the model description). For complete details see product specification pages.



T8 Dimming - Fluorescent Lamps

QUICKSYSTEMS

System Performance Guide

Lamp Type	# of Lamps	Lamp Lumens	Ballast Description	Start Type	Lamp Circuit	System Watts	Input Volts	Input Amps	Power Factor	THD	Ballast Factor	System Lumens
F032XP	1	3000	QTP1x32T8/UNV DIM-TC(@100%)	PROStart®	Series	30	120	0.27	>.98	<10%	0.88	2640
F032XP	1	3000	QTP1x32T8/UNV DIM-TC(@5%)	PROStart	Series	8	120	0.06	>.98	<15%	0.05	150
F032XP	1	3000	QTP1x32T8/UNV DIM-TC(@100%)	PROStart	Series	30	277	0.12	>.98	<10%	0.88	2640
F032XP	1	3000	QTP1x32T8/UNV DIM-TC(@5%)	PROStart	Series	8	277	0.02	>.98	<20%	0.05	150
F032XP	2	3000	QTP2x32T8/UNV DIM-TC(@100%)	PROStart	Series	59	120	0.54	>.98	<10%	0.88	5280
F032XP	2	3000	QTP2x32T8/UNV DIM-TC(@5%)	PROStart	Series	14	120	0.12	>.98	<10%	0.05	300
F032XP	2	3000	QTP2x32T8/UNV DIM-TC(@100%)	PROStart	Series	57	277	0.24	>.98	<10%	0.88	5280
F032XP	2	3000	QTP2x32T8/UNV DIM-TC(@5%)	PROStart	Series	14	277	0.05	>.98	<20%	0.05	300
F032XP	3	3000	QTP3x32T8/UNV DIM-TCL(@100%)	PROStart	Series	87	120	0.73	>.98	<10%	0.88	7920
F032XP	3	3000	QTP3x32T8/UNV DIM-TCL(@5%)	PROStart	Series	20	120	0.17	>.98	<10%	0.05	450
F032XP	3	3000	QTP3x32T8/UNV DIM-TCL(@100%)	PROStart	Series	84	277	0.30	>.98	<10%	0.88	7920
F032XP	3	3000	QTP3x32T8/UNV DIM-TCL(@5%)	PROStart	Series	20	277	0.08	>.97	<25%	0.05	450
F032XP	4	3000	QTP4x32T8/UNV DIM-TCL(@100%)	PROStart	Series	114	120	0.96	>.98	<10%	0.88	10560
F032XP	4	3000	QTP4x32T8/UNV DIM-TCL(@5%)	PROStart	Series	27	120	0.23	>.98	<10%	0.05	600
F032XP	4	3000	QTP4x32T8/UNV DIM-TCL(@100%)	PROStart	Series	110	277	0.40	>.98	<10%	0.88	10560
F032XP	4	3000	QTP4x32T8/UNV DIM-TCL(@5%)	PROStart	Series	27	277	0.11	>.98	<20%	0.05	600
F025XP	1	2175	QTP1x32T8/UNV DIM-TC(@100%)	PROStart	Series	23	120	0.19	>.98	<10%	0.88	1915
F025XP	1	2175	QTP1x32T8/UNV DIM-TC(@5%)	PROStart	Series	7	120	0.06	>.98	<15%	0.05	110
F025XP	1	2175	QTP1x32T8/UNV DIM-TC(@100%)	PROStart	Series	23	277	0.08	>.98	<10%	0.88	1915
F025XP	1	2175	QTP1x32T8/UNV DIM-TC(@5%)	PROStart	Series	6	277	0.02	>.97	<20%	0.05	110
F025XP	2	2175	QTP2x32T8/UNV DIM-TC(@100%)	PROStart	Series	45	120	0.37	>.98	<10%	0.88	3830
F025XP	2	2175	QTP2x32T8/UNV DIM-TC(@5%)	PROStart	Series	12	120	0.10	>.98	<10%	0.05	220
F025XP	2	2175	QTP2x32T8/UNV DIM-TC(@100%)	PROStart	Series	44	277	0.16	>.98	<10%	0.88	3830
F025XP	2	2175	QTP2x32T8/UNV DIM-TC(@5%)	PROStart	Series	13	277	0.05	>.98	<20%	0.05	220
F025XP	3	2175	QTP3x32T8/UNV DIM-TCL(@100%)	PROStart	Series	65	120	0.56	>.98	<10%	0.88	7655
F025XP	3	2175	QTP3x32T8/UNV DIM-TCL(@5%)	PROStart	Series	19	120	0.15	>.98	<10%	0.05	435
F025XP	3	2175	QTP3x32T8/UNV DIM-TCL(@100%)	PROStart	Series	64	277	0.23	>.98	<10%	0.88	7655
F025XP	3	2175	QTP3x32T8/UNV DIM-TCL(@5%)	PROStart	Series	19	277	0.08	>.97	<25%	0.05	435
F025XP	4	2175	QTP4x32T8/UNV DIM-TCL(@100%)	PROStart	Series	92	120	0.75	>.98	<10%	0.88	7655
F025XP	4	2175	QTP4x32T8/UNV DIM-TCL(@5%)	PROStart	Series	25	120	0.21	>.98	<10%	0.05	435
F025XP	4	2175	QTP4x32T8/UNV DIM-TCL(@100%)	PROStart	Series	89	277	0.32	>.98	<10%	0.88	7655
F025XP	4	2175	QTP4x32T8/UNV DIM-TCL(@5%)	PROStart	Series	25	277	0.10	>.97	<20%	0.05	435
F017XP	1	1375	QTP1x32T8/UNV DIM-TC(@100%)	PROStart	Series	16	120	0.14	>.98	<10%	0.88	1210
F017XP	1	1375	QTP1x32T8/UNV DIM-TC(@5%)	PROStart	Series	6	120	0.05	>.98	<15%	0.05	70
F017XP	1	1375	QTP1x32T8/UNV DIM-TC(@100%)	PROStart	Series	16	277	0.06	>.98	<15%	0.88	1210
F017XP	1	1375	QTP1x32T8/UNV DIM-TC(@5%)	PROStart	Series	5	277	0.02	>.97	<25%	0.05	70
F017XP	2	1375	QTP2x32T8/UNV DIM-TC(@100%)	PROStart	Series	32	120	0.26	>.98	<10%	0.88	2420
F017XP	2	1375	QTP2x32T8/UNV DIM-TC(@5%)	PROStart	Series	12	120	0.10	>.98	<10%	0.05	140
F017XP	2	1375	QTP2x32T8/UNV DIM-TC(@100%)	PROStart	Series	32	277	0.11	>.98	<10%	0.88	2420
F017XP	2	1375	QTP2x32T8/UNV DIM-TC(@5%)	PROStart	Series	12	277	0.04	>.98	<20%	0.05	140
F017XP	3	1375	QTP3x32T8/UNV DIM-TCL(@100%)	PROStart	Series	45	120	0.37	>.98	<10%	0.88	3630
F017XP	3	1375	QTP3x32T8/UNV DIM-TCL(@5%)	PROStart	Series	17	120	0.14	>.98	<30%	0.05	205
F017XP	3	1375	QTP3x32T8/UNV DIM-TCL(@100%)	PROStart	Series	44	277	0.16	>.98	<10%	0.88	3630
F017XP	3	1375	QTP3x32T8/UNV DIM-TCL(@5%)	PROStart	Series	17	277	0.07	>.94	<30%	0.05	205
F017XP	4	1375	QTP4x32T8/UNV DIM-TCL(@100%)	PROStart	Series	59	120	0.49	>.98	<10%	0.88	4840
F017XP	4	1375	QTP4x32T8/UNV DIM-TCL(@5%)	PROStart	Series	22	120	0.18	>.98	<10%	0.05	275
F017XP	4	1375	QTP4x32T8/UNV DIM-TCL(@100%)	PROStart	Series	59	277	0.21	>.98	<15%	0.88	4840
F017XP	4	1375	QTP4x32T8/UNV DIM-TCL(@5%)	PROStart	Series	22	277	0.09	>.95	<25%	0.05	275

Note: Data above is listed above for QHE ISL, ISN, & ISH models (for Type CC models add "-1" to the model description). For complete details see product specification pages.

System Performance Guide

Lamp Type	# of Lamps	Lamp Lumens	Ballast Description	Start Type	Lamp Circuit	System Watts	Input Volts	Input Amps	Power Factor	THD	Ballast Factor	System Lumens
F040XP	1	3750	QHE2X32T8/UNV ISL-SC	Instant	Parallel	38	120	0.33	>.97	<10%	0.93	3490
F040XP	1	3750	QHE2X32T8/UNV ISL-SC	Instant	Parallel	38	277	0.14	>.97	<15%	0.93	3490
F040XP	1	3750	QHE2X32T8/UNV ISN-SC	Instant	Parallel	41	120	0.32	>.97	<10%	1.03	3865
F040XP	1	3750	QHE2X32T8/UNV ISN-SC	Instant	Parallel	41	277	0.14	>.97	<10%	1.03	3865
F040XP	1	3750	QHE2X32T8/UNV ISM-SC	Instant	Parallel	50	277	0.18	>.98	<10%	1.19	4465
F040XP	1	3750	QHE2X32T8/UNV ISM-SC	Instant	Parallel	50	120	0.41	>.98	<10%	1.19	4465
F040XP	1	3750	QTP2X32T8/UNV ISL-SC	Instant	Parallel	38	120	0.33	>.98	<10%	0.88	3300
F040XP	1	3750	QHE2X32T8/UNV ISL-SC	Instant	Parallel	38	277	0.14	>.98	<10%	0.88	3300
F040XP	1	3750	QTP2X32T8/UNV ISN-SC	Instant	Parallel	43	120	0.37	>.97	<10%	1.03	3865
F040XP	1	3750	QTP2X32T8/UNV ISN-SC	Instant	Parallel	43	277	0.16	>.97	<10%	1.03	3865
F040XP	1	3750	QHE4X32T8/UNV ISL-SC	Instant	Parallel	49	120	0.40	>.98	<10%	1.16	4350
F040XP	1	3750	QHE4X32T8/UNV ISL-SC	Instant	Parallel	49	277	0.20	>.94	<20%	1.16	4350
F040XP	1	3750	QTP3X32T8/UNV ISN-SC	Instant	Parallel	50	277	0.18	>.98	<10%	1.19	4465
F040XP	1	3750	QTP3X32T8/UNV ISN-SC	Instant	Parallel	50	120	0.41	>.98	<10%	1.19	4465
F040XP	1	3750	QHE2X32T8/UNV PSX-MC	PROStart®	Parallel	36	120	0.30	>.98	<10%	0.86	3225
F040XP	1	3750	QHE2X32T8/UNV PSX-MC	PROStart	Parallel	36	277	0.13	>.98	<10%	0.86	3225
F040XP	1	3750	QHE2X32T8/UNV PSN-MC	PROStart	Parallel	44	120	0.37	>.98	<10%	1.06	3960
F040XP	1	3750	QHE2X32T8/UNV PSN-MC	PROStart	Parallel	43	277	0.16	>.98	<10%	1.06	3960
F040XP	2	3750	QHE3X32T8/UNV ISL-SC	Instant	Parallel	70	120	0.60	>.98	<10%	0.89	6675
F040XP	2	3750	QHE3X32T8/UNV ISL-SC	Instant	Parallel	70	277	0.25	>.98	<10%	0.89	6675
F040XP	2	3750	QHE3X32T8/UNV ISN-SC	Instant	Parallel	77	120	0.61	>.98	<10%	0.99	7425
F040XP	2	3750	QHE3X32T8/UNV ISN-SC	Instant	Parallel	76	277	0.26	>.98	<10%	0.99	7425
F040XP	2	3750	QHE3X32T8/UNV ISM-SC	Instant	Parallel	83	120	0.71	>.98	<10%	1.07	8025
F040XP	2	3750	QHE3X32T8/UNV ISM-SC	Instant	Parallel	83	277	0.31	>.98	<10%	1.07	8025
F040XP	2	3750	QTP3X32T8/UNV ISL-SC	Instant	Parallel	72	120	0.57	>.98	<10%	0.86	6450
F040XP	2	3750	QTP3X32T8/UNV ISL-SC	Instant	Parallel	72	277	0.25	>.98	<10%	0.86	6450
F040XP	2	3750	QTP3X32T8/UNV ISN-SC	Instant	Parallel	81	120	0.67	>.98	<10%	1.00	7500
F040XP	2	3750	QHE3X32T8/UNV ISN-SC	Instant	Parallel	81	277	0.29	>.98	<10%	1.00	7500
F040XP	2	3750	QHE4X32T8/UNV ISL-SC	Instant	Parallel	73	120	0.63	>.98	<10%	0.97	7275
F040XP	2	3750	QHE4X32T8/UNV ISL-SC	Instant	Parallel	73	277	0.27	>.97	<15%	0.97	7275
F040XP	2	3750	QHE3X32T8/UNV PSX-SC	PROStart	Parallel	64	120	0.54	>.98	<10%	0.80	6000
F040XP	2	3750	QHE3X32T8/UNV PSX-SC	PROStart	Parallel	63	277	0.23	>.98	<10%	0.80	6000
F040XP	2	3750	QHE3X32T8/UNV PSN-SC	PROStart	Parallel	78	120	0.65	>.98	<10%	0.97	7275
F040XP	2	3750	QHE3X32T8/UNV PSN-SC	PROStart	Parallel	76	277	0.28	>.98	<10%	0.97	7275
F040XP	3	3750	QHE4X32T8/UNV ISL-SC	Instant	Parallel	98	120	0.83	>.98	<10%	0.84	9450
F040XP	3	3750	QHE4X32T8/UNV ISL-SC	Instant	Parallel	98	277	0.35	>.98	<10%	0.84	9450
F040XP	3	3750	QHE4X32T8/UNV ISN-SC	Instant	Parallel	107	120	0.88	>.98	<10%	0.95	10690
F040XP	3	3750	QHE4X32T8/UNV ISN-SC	Instant	Parallel	107	277	0.38	>.98	<10%	0.95	10690
F040XP	3	3750	QHE4X32T8/UNV ISM-SC	Instant	Parallel	123	120	1.03	>.98	<10%	1.00	11250
F040XP	3	3750	QHE4X32T8/UNV ISM-SC	Instant	Parallel	121	277	0.44	>.98	<10%	1.00	11250
F040XP	3	3750	QTP4X32T8/UNV ISL-SC	Instant	Parallel	98	120	0.80	>.98	<10%	0.82	9225
F040XP	3	3750	QTP4X32T8/UNV ISL-SC	Instant	Parallel	98	277	0.35	>.98	<10%	0.82	9225
F040XP	3	3750	QTP4X32T8/UNV ISN-SC	Instant	Parallel	113	120	0.95	>.98	<10%	0.94	10575
F040XP	3	3750	QTP4X32T8/UNV ISN-SC	Instant	Parallel	113	277	0.40	>.98	<10%	0.94	10575
F040XP	3	3750	QHE4X32T8/UNV PSX-SC	PROStart	Parallel	93	120	0.77	>.98	<10%	0.78	8775
F040XP	3	3750	QHE4X32T8/UNV PSX-SC	PROStart	Parallel	90	277	0.33	>.98	<10%	0.78	8775
F040XP	3	3750	QHE4X32T8/UNV PSN-SC	PROStart	Parallel	112	120	0.94	>.98	<10%	0.94	10575
F040XP	3	3750	QHE4X32T8/UNV PSN-SC	PROStart	Parallel	108	277	0.40	>.98	<10%	0.94	10575

Note: Data above is listed above for QHE ISL, ISN, & ISH models (for Type CC models add "-1" to the model description). For complete details see product specification pages.



4ft/5ft/6ft/8ft T8/T8HO

4, 5, 6 & 8 Foot Linear T8 Fluorescent Lamps

QUICKSYSTEMS

System Performance Guide

Lamp Type	# of Lamps	Lamp Lumens	Ballast Description	Start Type	Lamp Circuit	System Watts	Input Volts	Input Amps	Power Factor	THD	Ballast Factor	System Lumens
F096T8XP	2	6100	QHE2X59T8/UNV ISL-SC	Instant	Parallel	95	120	0.80	>.98	<10%	0.77	9395
F096T8XP	2	6100	QHE2X59T8/UNV ISL-SC	Instant	Parallel	94	277	0.34	>.98	<10%	0.77	9395
F096T8XP	1	6100	QHE2X59T8/UNV ISL-SC	Instant	Parallel	57	120	0.47	>.98	<10%	0.88	5370
F096T8XP	1	6100	QHE2X59T8/UNV ISL-SC	Instant	Parallel	57	277	0.21	>.98	<10%	0.88	5370
F096T8XP	2	6100	QHE2X59T8/UNV ISN-SC	Instant	Parallel	109	120	0.92	>.98	<10%	0.88	10735
F096T8XP	2	6100	QHE2X59T8/UNV ISN-SC	Instant	Parallel	107	277	0.40	>.98	<10%	0.88	10735
F096T8XP	1	6100	QHE2X59T8/UNV ISN-SC	Instant	Parallel	66	120	0.55	>.98	<10%	1.02	6220
F096T8XP	1	6100	QHE2X59T8/UNV ISN-SC	Instant	Parallel	66	277	0.25	>.98	<10%	1.02	6220
F096T8XP	2	6100	QHE2X59T8/UNV ISH-SC	Instant	Parallel	144	120	1.20	>.98	<10%	1.15	14030
F096T8XP	2	6100	QHE2X59T8/UNV ISH-SC	Instant	Parallel	141	277	0.52	>.98	<10%	1.15	14030
F096T8XPSS(54W)	2	5700	QHE2X59T8/UNV ISL-SC	Instant	Parallel	87	120	0.73	>.98	<10%	0.77	8780
F096T8XPSS(54W)	2	5700	QHE2X59T8/UNV ISL-SC	Instant	Parallel	85	277	0.31	>.98	<10%	0.77	8780
F096T8XPSS(54W)	1	5700	QHE2X59T8/UNV ISL-SC	Instant	Parallel	54	120	0.45	>.98	<10%	0.93	5300
F096T8XPSS(54W)	1	5700	QHE2X59T8/UNV ISL-SC	Instant	Parallel	54	277	0.20	>.96	<15%	0.93	5300
F096T8XPSS(54W)	2	5700	QHE2X59T8/UNV ISN-SC	Instant	Parallel	99	120	0.84	>.98	<10%	0.88	10030
F096T8XPSS(54W)	2	5700	QHE2X59T8/UNV ISN-SC	Instant	Parallel	98	277	0.36	>.98	<10%	0.88	10030
F096T8XPSS(54W)	1	5700	QHE2X59T8/UNV ISN-SC	Instant	Parallel	61	120	0.51	>.98	<10%	1.02	5815
F096T8XPSS(54W)	1	5700	QHE2X59T8/UNV ISN-SC	Instant	Parallel	61	277	0.23	>.98	<10%	1.02	5815
F096T8XPSS(54W)	2	5700	QHE2X59T8/UNV ISH-SC	Instant	Parallel	131	120	1.10	>.98	<10%	1.15	13110
F096T8XPSS(54W)	2	5700	QHE2X59T8/UNV ISH-SC	Instant	Parallel	130	277	0.47	>.98	<10%	1.15	13110
F096T8/50W/XP/SS	2	5400	QHE2X59T8/UNV ISL-SC	Instant	Parallel	79	120	0.67	>.98	<10%	0.75	8100
F096T8/50W/XP/SS	2	5400	QHE2X59T8/UNV ISL-SC	Instant	Parallel	78	277	0.29	>.98	<10%	0.75	8100
F096T8/50W/XP/SS	2	5400	QHE2X59T8/UNV ISN-SC	Instant	Parallel	90	120	0.76	>.98	<10%	0.85	9180
F096T8/50W/XP/SS	2	5400	QHE2X59T8/UNV ISN-SC	Instant	Parallel	89	277	0.32	>.98	<10%	0.85	9180
F096T8/50W/XP/SS	2	5400	QHE2X59T8/UNV ISH-SC	Instant	Parallel	119	120	1.01	>.98	<10%	1.1	11880
F096T8/50W/XP/SS	2	5400	QHE2X59T8/UNV ISH-SC	Instant	Parallel	118	277	0.43	>.98	<10%	1.10	11880
F096T8/50W/XP/SS	1	5400	QHE2X59T8/UNV ISL-SC	Instant	Parallel	47	120	0.39	>.97	<15%	0.90	4860
F096T8/50W/XP/SS	1	5400	QHE2X59T8/UNV ISL-SC	Instant	Parallel	47	277	0.18	>.97	<15%	0.90	4860
F096T8/50W/XP/SS	1	5400	QHE2X59T8/UNV ISN-SC	Instant	Parallel	54	120	0.45	>.97	<15%	1.00	5400
F096T8/50W/XP/SS	1	5400	QHE2X59T8/UNV ISN-SC	Instant	Parallel	54	277	0.21	>.97	<15%	1.00	5400
F096T8XP	2	6100	QTP2X59T8/UNV ISN-SC	Instant	Parallel	112	120	0.93	>.98	<10%	0.88	10735
F096T8XP	2	6100	QTP2X59T8/UNV ISN-SC	Instant	Parallel	110	277	0.4	>.98	<10%	0.88	10735
F096T8XP	1	6100	QTP2X59T8/UNV ISN-SC	Instant	Parallel	67	120	0.56	>.98	<10%	1.02	6220
F096T8XP	1	6100	QTP2X59T8/UNV ISN-SC	Instant	Parallel	67	277	0.25	>.97	<15%	1.02	6220
F096T8XPSS(54W)	2	5700	QTP2X59T8/UNV ISN-SC	Instant	Parallel	104	120	0.85	>.98	<10%	0.88	10030
F096T8XPSS(54W)	2	5700	QTP2X59T8/UNV ISN-SC	Instant	Parallel	102	277	0.36	>.98	<10%	0.88	10030
F096T8XPSS(54W)	1	5700	QTP2X59T8/UNV ISN-SC	Instant	Parallel	62	120	0.51	>.98	<10%	1.02	5815
F096T8XPSS(54W)	1	5700	QTP2X59T8/UNV ISN-SC	Instant	Parallel	62	277	0.22	>.97	<15%	1.02	5815
F96T8HO (86W)	2	8200	QHE2x86T8HO/ UNV-PSN-HT	PROStart®	Series	182	120	1.54	>.98	<10%	0.95	15580
F96T8HO (86W)	2	8200	QHE2x86T8HO/ UNV-PSN-HT	PROStart	Series	178	277	0.67	>.98	<10%	0.95	15580
F72T8HO (65W)	2	6100	QHE2x86T8HO/ UNV-PSN-HT	PROStart	Series	136	120	1.13	>.98	<10%	0.96	11710
F72T8HO (65W)	2	6100	QHE2x86T8HO/ UNV-PSN-HT	PROStart	Series	133	277	0.50	>.98	<10%	0.96	11710
F60T8HO (55W)	2	5050	QHE2x86T8HO/ UNV-PSN-HT	PROStart	Series	115	120	0.97	>.98	<10%	0.96	9695
F60T8HO (55W)	2	5050	QHE2x86T8HO/ UNV-PSN-HT	PROStart	Series	115	277	0.44	>.98	<10%	0.96	9695
F48T8HO (44W)	2	4000	QHE2x86T8HO/ UNV-PSN-HT	PROStart	Series	86	120	0.72	>.98	<10%	0.96	7680
F48T8HO (44W)	2	4000	QHE2x86T8HO/ UNV-PSN-HT	PROStart	Series	85	277	0.34	>.98	<10%	0.96	7680
F96T8HO (86W)	1	8200	QHE2x86T8HO/ UNV-PSN-HT	PROStart	Series	95	120	0.78	>.97	<15%	0.96	7870
F96T8HO (86W)	1	8200	QHE2x86T8HO/ UNV-PSN-HT	PROStart	Series	95	277	0.36	>.97	<15%	0.96	7870
F72T8HO (65W)	1	6100	QHE2x86T8HO/ UNV-PSN-HT	PROStart	Series	73	120	0.62	>.98	<10%	0.96	5855
F72T8HO (65W)	1	6100	QHE2x86T8HO/ UNV-PSN-HT	PROStart	Series	73	277	0.30	>.98	<10%	0.96	5855
F60T8HO (55W)	1	5050	QHE2x86T8HO/ UNV-PSN-HT	PROStart	Series	60	120	0.50	>.98	<10%	0.96	4850
F60T8HO (55W)	1	5050	QHE2x86T8HO/ UNV-PSN-HT	PROStart	Series	60	277	0.26	>.98	<10%	0.96	4850
F48T8HO (44W)	1	4000	QHE2x86T8HO/ UNV-PSN-HT	PROStart	Series	51	120	0.43	>.98	<10%	0.96	3840
F48T8HO (44W)	1	4000	QHE2x86T8HO/ UNV-PSN-HT	PROStart	Series	51	277	0.24	>.98	<10%	0.96	3840

Note: Data above is listed above for QHE ISL, ISN, & ISH models (for Type CC models add "-1" to the model description). For complete details see product specification pages.

As the industry's leading systems company, OSRAM SYLVANIA offers the most comprehensive data on how QUICKTRONIC® electronic ballasts will perform with various combinations of lamps.

System Performance Guide

Lamp Type	# of Lamps	Lamp Lumens	Ballast Description	Start Type	Lamp Circuit	System Watts	Input Volts	Input Amps	Power Factor	THD	Ballast Factor	System Lumens
FB032XP	1	2900	QHE1X32T8/UNV ISL-SC	Instant	Parallel	25	120	0.21	>.98	<10%	0.78	2260
FB032XP	1	2900	QHE1X32T8/UNV ISL-SC	Instant	Parallel	25	277	0.09	>.98	<10%	0.78	2260
FB032XP	1	2900	QHE1X32T8/UNV ISN-SC	Instant	Parallel	28	120	0.25	>.98	<10%	0.88	2550
FB032XP	1	2900	QHE1X32T8/UNV ISN-SC	Instant	Parallel	28	277	0.11	>.98	<10%	0.88	2550
FB032XP	1	2900	QHE1X32T8/UNV ISH-SC	Instant	Parallel	38	120	0.32	>.98	<10%	1.20	3480
FB032XP	1	2900	QHE1X32T8/UNV ISH-SC	Instant	Parallel	38	277	0.14	>.98	<10%	1.20	3480
FB032XP	1	2900	QTP1X32T8/UNV ISL-SC	Instant	Parallel	28	120	0.22	>.98	<10%	0.78	2260
FB032XP	1	2900	QTP1X32T8/UNV ISL-SC	Instant	Parallel	26	277	0.10	>.98	<10%	0.78	2260
FB032XP	1	2900	QTP1X32T8/UNV ISN-SC	Instant	Parallel	30	120	0.26	>.98	<10%	0.88	2550
FB032XP	1	2900	QTP1X32T8/UNV ISN-SC	Instant	Parallel	30	277	0.11	>.98	<10%	0.88	2550
FB032XP	1	2900	QTP1X32T8/UNV ISH-SC	Instant	Parallel	41	120	0.33	>.98	<10%	1.20	3480
FB032XP	1	2900	QTP1X32T8/UNV ISH-SC	Instant	Parallel	41	277	0.15	>.98	<10%	1.20	3480
FB032XP	1	2900	QHE2X32T8/UNV ISL-SC	Instant	Parallel	31	120	0.27	>.95	<10%	0.95	2755
FB032XP	1	2900	QHE2X32T8/UNV ISL-SC	Instant	Parallel	31	277	0.12	>.95	<10%	0.95	2755
FB032XP	1	2900	QHE2X32T8/UNV ISN-SC	Instant	Parallel	34	120	0.27	>.95	<10%	1.05	3045
FB032XP	1	2900	QHE2X32T8/UNV ISN-SC	Instant	Parallel	34	277	0.11	>.95	<10%	1.05	3045
FB032XP	1	2900	QHE2X32T8/UNV ISM-SC	Instant	Parallel	40	120	0.34	>.98	<10%	1.15	3335
FB032XP	1	2900	QHE2X32T8/UNV ISM-SC	Instant	Parallel	40	277	0.15	>.95	<15%	1.15	3335
FB032XP	1	2900	QTP2X32T8/UNV ISL-SC	Instant	Parallel	32	120	0.30	>.98	<10%	0.90	2610
FB032XP	1	2900	QTP2X32T8/UNV ISL-SC	Instant	Parallel	32	277	0.12	>.97	<10%	0.90	2610
FB032XP	1	2900	QTP2X32T8/UNV ISN-SC	Instant	Parallel	36	120	0.30	>.95	<10%	1.04	3015
FB032XP	1	2900	QTP2X32T8/UNV ISN-SC	Instant	Parallel	36	277	0.14	>.95	<10%	1.04	3015
FB032XP	1	2900	QHE3X32T8/UNV ISL-SC	Instant	Parallel	36	120	0.30	>.98	<15%	1.02	2960
FB032XP	1	2900	QHE3X32T8/UNV ISL-SC	Instant	Parallel	36	277	0.13	>.96	<20%	1.02	2960
FB032XP	1	2900	QHE3X32T8/UNV ISN-SC	Instant	Parallel	40	120	0.34	>.98	<10%	1.20	3480
FB032XP	1	2900	QHE3X32T8/UNV ISN-SC	Instant	Parallel	40	277	0.15	>.92	<15%	1.20	3480
FB032XP	1	2900	QTP3X32T8/UNV ISL-SC	Instant	Parallel	37	120	0.29	>.98	<10%	1.03	2985
FB032XP	1	2900	QTP3X32T8/UNV ISL-SC	Instant	Parallel	37	277	0.13	>.96	<20%	1.03	2985
FB032XP	1	2900	QTP3X32T8/UNV ISN-SC	Instant	Parallel	41	120	0.34	>.95	<15%	1.19	3450
FB032XP	1	2900	QTP3X32T8/UNV ISN-SC	Instant	Parallel	41	277	0.15	>.98	<10%	1.19	3450
FB032XP	1	2900	QHE4X32T8/UNV ISL-SC	Instant	Parallel	39	120	0.33	>.98	<15%	1.17	3395
FB032XP	1	2900	QHE4X32T8/UNV ISL-SC	Instant	Parallel	39	277	0.15	>.93	<20%	1.17	3395
FB032XP	1	2900	QTP4X32T8/UNV ISL-SC	Instant	Parallel	38	120	0.31	>.98	<10%	1.06	3075
FB032XP	1	2900	QTP4X32T8/UNV ISL-SC	Instant	Parallel	38	277	0.15	>.92	<30%	1.06	3075
FB032XP	1	2900	QHE1x32T8/UNV PSN-MC	PROStart®	Parallel	30	120	0.26	>.98	<10%	0.88	2550
FB032XP	1	2900	QHE1x32T8/UNV PSN-MC	PROStart	Parallel	29	277	0.11	>.98	<10%	0.88	2550
FB032XP	1	2900	QHE2x32T8/UNV PSN-MC	PROStart	Parallel	36	120	0.30	>.98	<10%	1.07	3105
FB032XP	1	2900	QHE2x32T8/UNV PSN-MC	PROStart	Parallel	36	277	0.13	>.98	<15%	1.07	3105
FB032XP	1	2900	QHE3x32T8/UNV PSN-SC	PROStart	Parallel	39	120	0.33	>.98	<10%	1.14	3295
FB032XP	1	2900	QHE3x32T8/UNV PSN-SC	PROStart	Parallel	40	277	0.16	>.95	<15%	1.14	3295
FB032XP	1	2900	QHE4x32T8/UNV PSN-SC	PROStart	Parallel	41	120	0.34	>.98	<10%	1.20	3480
FB032XP	1	2900	QHE4x32T8/UNV PSN-SC	PROStart	Parallel	41	277	0.16	>.90	<15%	1.20	3480
FB032XP	1	2900	QHE1X32T8/UNV PSX-MC	PROStart	Parallel	25	120	0.21	>.98	<10%	0.72	2090
FB032XP	1	2900	QHE1X32T8/UNV PSX-MC	PROStart	Parallel	24	277	0.09	>.98	<10%	0.72	2090
FB032XP	2	2900	QHE2X32T8/UNV ISL-SC	Instant	Parallel	48	120	0.41	>.98	<10%	0.78	4525
FB032XP	2	2900	QHE2X32T8/UNV ISL-SC	Instant	Parallel	48	277	0.18	>.98	<10%	0.78	4525
FB032XP	2	2900	QHE2X32T8/UNV ISN-SC	Instant	Parallel	55	120	0.47	>.98	<10%	0.88	5105
FB032XP	2	2900	QHE2X32T8/UNV ISN-SC	Instant	Parallel	55	277	0.20	>.98	<10%	0.88	5105
FB032XP	2	2900	QHE2x32T8/UNV ISM-SC	Instant	Parallel	63	120	0.54	>.98	<10%	1.00	5800
FB032XP	2	2900	QHE2x32T8/UNV ISM-SC	Instant	Parallel	62	277	0.23	>.98	<10%	1.00	5800
FB032XP	2	2900	QHE2X32T8/UNV ISH-SC	Instant	Parallel	74	120	0.65	>.98	<10%	1.20	6960
FB032XP	2	2900	QHE2X32T8/UNV ISH-SC	Instant	Parallel	73	277	0.28	>.98	<10%	1.20	6960
FB032XP	2	2900	QTP2X32T8/UNV ISL-SC	Instant	Parallel	51	120	0.44	>.98	<10%	0.78	4525
FB032XP	2	2900	QTP2X32T8/UNV ISL-SC	Instant	Parallel	51	277	0.19	>.98	<10%	0.78	4525
FB032XP	2	2900	QTP2X32T8/UNV ISN-SC	Instant	Parallel	59	120	0.50	>.98	<10%	0.88	5105
FB032XP	2	2900	QTP2X32T8/UNV ISN-SC	Instant	Parallel	59	277	0.21	>.98	<10%	0.88	5105
FB032XP	2	2900	QTP2X32T8/UNV ISH-SC	Instant	Parallel	78	120	0.65	>.98	<10%	1.20	6960
FB032XP	2	2900	QTP2X32T8/UNV ISH-SC	Instant	Parallel	78	277	0.28	>.98	<10%	1.20	6960
FB032XP	2	2900	QHE3X32T8/UNV ISL-SC	Instant	Parallel	56	120	0.46	>.97	<15%	0.90	5220
FB032XP	2	2900	QHE3X32T8/UNV ISL-SC	Instant	Parallel	56	277	0.20	>.97	<15%	0.90	5220
FB032XP	2	2900	QHE3X32T8/UNV ISN-SC	Instant	Parallel	63	120	0.50	>.97	<15%	0.99	5740
FB032XP	2	2900	QHE3X32T8/UNV ISN-SC	Instant	Parallel	62	277	0.22	>.97	<15%	0.99	5740
FB032XP	2	2900	QHE3X32T8/UNV ISM-SC	Instant	Parallel	69	120	0.60	>.98	<10%	1.08	6265
FB032XP	2	2900	QHE3X32T8/UNV ISM-SC	Instant	Parallel	69	277	0.25	>.98	<10%	1.08	6265
FB032XP	2	2900	QTP3X32T8/UNV ISL-SC	Instant	Parallel	58	120	0.45	>.98	<10%	0.88	5105
FB032XP	2	2900	QTP3X32T8/UNV ISL-SC	Instant	Parallel	58	277	0.20	>.98	<10%	0.88	5105
FB032XP	2	2900	QTP3X32T8/UNV ISN-SC	Instant	Parallel	66	120	0.55	>.97	<15%	1.02	5915
FB032XP	2	2900	QTP3X32T8/UNV ISN-SC	Instant	Parallel	66	277	0.24	>.97	<15%	1.02	5915

Note: Data above is listed above for QHE ISL, ISN, & ISH models (for Type CC models add "-1" to the model description). For complete details see product specification pages.



Lamp Type	# of Lamps	Lamp Lumens	Ballast Description	Start Type	Lamp Circuit	System Watts	Input Volts	Input Amps	Power Factor	THD	Ballast Factor	System Lumens
FB032XP	2	2900	QHE4X32T8/UNV ISL-SC	Instant	Parallel	62	120	0.52	>.98	<10%	0.98	5685
FB032XP	2	2900	QHE4X32T8/UNV ISL-SC	Instant	Parallel	62	277	0.23	>.96	<15%	0.98	5685
FB032XP	2	2900	QHE4X32T8/UNV ISN-SC	Instant	Parallel	69	120	0.60	>.97	<15%	1.08	6265
FB032XP	2	2900	QHE4X32T8/UNV ISN-SC	Instant	Parallel	69	277	0.25	>.98	<15%	1.08	6265
FB032XP	2	2900	QHE4X32T8/UNV ISM-SC	Instant	Parallel	74	120	0.62	>.98	<10%	1.16	6730
FB032XP	2	2900	QHE4X32T8/UNV ISM-SC	Instant	Parallel	74	277	0.27	>.98	<15%	1.16	6730
FB032XP	2	2900	QTP4X32T8/UNV ISL-SC	Instant	Parallel	61	120	0.50	>.98	<10%	0.93	5395
FB032XP	2	2900	QTP4X32T8/UNV ISL-SC	Instant	Parallel	61	277	0.23	>.97	<10%	0.93	5395
FB032XP	2	2900	QTP4X32T8/UNV ISN-SC	Instant	Parallel	69	120	0.59	>.98	<15%	1.07	6205
FB032XP	2	2900	QTP4X32T8/UNV ISN-SC	Instant	Parallel	69	277	0.25	>.98	<15%	1.07	6205
FB032XP	2	2900	QHE2X32T8/UNV PSN-MC	PROStart®	Parallel	57	120	0.48	>.98	<10%	0.88	5105
FB032XP	2	2900	QHE2X32T8/UNV PSN-MC	PROStart	Parallel	55	277	0.21	>.98	<10%	0.88	5105
FB032XP	2	2900	QHE3X32T8/UNV PSN-SC	PROStart	Parallel	65	120	0.54	>.98	<10%	0.98	5685
FB032XP	2	2900	QHE3X32T8/UNV PSN-SC	PROStart	Parallel	64	277	0.24	>.98	<10%	0.98	5685
FB032XP	2	2900	QHE4X32T8/UNV PSN-SC	PROStart	Parallel	68	120	0.57	>.98	<10%	1.06	6150
FB032XP	2	2900	QHE4X32T8/UNV PSN-SC	PROStart	Parallel	67	277	0.25	>.95	<15%	1.06	6150
FB032XP	2	2900	QHE2X32T8/UNV PSH-HT	PROStart	Parallel	72	120	0.60	>.98	<10%	1.15	6670
FB032XP	2	2900	QHE2X32T8/UNV PSH-HT	PROStart	Parallel	70	277	0.27	>.98	<10%	1.15	6670
FB032XP	2	2900	QHE2X32T8/UNV PSX-MC	PROStart	Parallel	48	120	0.40	>.98	<10%	0.72	4175
FB032XP	2	2900	QHE2X32T8/UNV PSX-MC	PROStart	Parallel	47	277	0.17	>.98	<10%	0.72	4175
FB032XP	3	2900	QHE3X32T8/UNV ISL-SC	Instant	Parallel	73	120	0.61	>.98	<10%	0.78	6785
FB032XP	3	2900	QHE3X32T8/UNV ISL-SC	Instant	Parallel	72	277	0.27	>.98	<10%	0.78	6785
FB032XP	3	2900	QHE3X32T8/UNV ISN-SC	Instant	Parallel	83	120	0.69	>.98	<10%	0.88	7655
FB032XP	3	2900	QHE3X32T8/UNV ISN-SC	Instant	Parallel	82	277	0.30	>.98	<10%	0.88	7655
FB032XP	3	2900	QHE3X32T8/UNV ISM-SC	Instant	Parallel	90	120	0.76	>.98	<10%	0.98	8525
FB032XP	3	2900	QHE3X32T8/UNV ISM-SC	Instant	Parallel	89	277	0.40	>.98	<10%	0.98	8525
FB032XP	3	2900	QHE3X32T8/UNV ISH-SC	Instant	Parallel	111	120	0.93	>.98	<10%	1.18	10265
FB032XP	3	2900	QHE3X32T8/UNV ISH-SC	Instant	Parallel	109	277	0.40	>.98	<10%	1.18	10265
FB032XP	3	2900	QTP3X32T8/UNV ISL-SC	Instant	Parallel	75	120	0.65	>.98	<10%	0.78	6785
FB032XP	3	2900	QTP3X32T8/UNV ISL-SC	Instant	Parallel	75	277	0.27	>.98	<10%	0.78	6785
FB032XP	3	2900	QTP3X32T8/UNV ISN-SC	Instant	Parallel	86	120	0.72	>.98	<10%	0.88	7655
FB032XP	3	2900	QTP3X32T8/UNV ISN-SC	Instant	Parallel	86	277	0.31	>.98	<10%	0.88	7655
FB032XP	3	2900	QTP3X32T8/UNV ISH-SC	Instant	Parallel	114	120	0.95	>.98	<10%	1.18	10265
FB032XP	3	2900	QTP3X32T8/UNV ISH-SC	Instant	Parallel	111	277	0.41	>.98	<10%	1.18	10265
FB032XP	3	2900	QHE4X32T8/UNV ISL-SC	Instant	Parallel	80	120	0.68	>.98	<10%	0.85	7395
FB032XP	3	2900	QHE4X32T8/UNV ISL-SC	Instant	Parallel	80	277	0.28	>.98	<10%	0.85	7395
FB032XP	3	2900	QHE4X32T8/UNV ISN-SC	Instant	Parallel	89	120	0.71	>.98	<15%	0.96	8350
FB032XP	3	2900	QHE4X32T8/UNV ISN-SC	Instant	Parallel	89	277	0.31	>.98	<15%	0.96	8350
FB032XP	3	2900	QHE4X32T8/UNV ISM-SC	Instant	Parallel	100	120	0.84	>.98	<10%	1.05	9135
FB032XP	3	2900	QHE4X32T8/UNV ISM-SC	Instant	Parallel	99	277	0.36	>.98	<10%	1.05	9135
FB032XP	3	2900	QTP4X32T8/UNV ISL-SC	Instant	Parallel	80	120	0.66	>.98	<10%	0.84	7310
FB032XP	3	2900	QTP4X32T8/UNV ISL-SC	Instant	Parallel	80	277	0.29	>.97	<10%	0.84	7310
FB032XP	3	2900	QTP4X32T8/UNV ISN-SC	Instant	Parallel	92	120	0.77	>.98	<15%	0.96	8350
FB032XP	3	2900	QTP4X32T8/UNV ISN-SC	Instant	Parallel	92	277	0.33	>.98	<15%	0.96	8350
FB032XP	3	2900	QHE3X32T8/UNV PSN-SC	PROStart	Parallel	83	120	0.69	>.98	<10%	0.88	7655
FB032XP	3	2900	QHE3X32T8/UNV PSN-SC	PROStart	Parallel	82	277	0.29	>.98	<10%	0.88	7655
FB032XP	3	2900	QHE4X32T8/UNV PSN-SC	PROStart	Parallel	91	120	0.77	>.98	<10%	0.96	8350
FB032XP	3	2900	QHE4X32T8/UNV PSN-SC	PROStart	Parallel	89	277	0.33	>.98	<10%	0.96	8350
FB032XP	3	2900	QHE3X32T8/UNV PSH-HT	PROStart	Parallel	110	120	0.94	>.98	<10%	1.15	10005
FB032XP	3	2900	QHE3X32T8/UNV PSH-HT	PROStart	Parallel	108	277	0.40	>.98	<10%	1.15	10005
FB032XP	3	2900	QHE3X32T8/UNV PSX-SC	PROStart	Parallel	69	120	0.58	>.98	<10%	0.71	6175
FB032XP	3	2900	QHE3X32T8/UNV PSX-SC	PROStart	Parallel	67	277	0.25	>.98	<10%	0.71	6175
FB032XP	4	2900	QHE4X32T8/UNV ISL-SC	Instant	Parallel	95	120	0.80	>.98	<10%	0.78	9050
FB032XP	4	2900	QHE4X32T8/UNV ISL-SC	Instant	Parallel	95	277	0.35	>.98	<10%	0.78	9050
FB032XP	4	2900	QHE4X32T8/UNV ISN-SC	Instant	Parallel	108	120	0.91	>.98	<10%	0.88	10210
FB032XP	4	2900	QHE4X32T8/UNV ISN-SC	Instant	Parallel	107	277	0.39	>.98	<10%	0.88	10210
FB032XP	4	2900	QHE4X32T8/UNV ISM-SC	Instant	Parallel	122	120	1.02	>.98	<10%	0.98	11370
FB032XP	4	2900	QHE4X32T8/UNV ISM-SC	Instant	Parallel	120	277	0.44	>.98	<10%	0.98	11370
FB032XP	4	2900	QHE4X32T8/UNV ISH	Instant	Parallel	144	120	1.21	>.98	<10%	1.15	13340
FB032XP	4	2900	QHE4X32T8/UNV ISH	Instant	Parallel	141	277	0.52	>.98	<10%	1.15	13340
FB032XP	4	2900	QTP4X32T8/UNV ISL-SC	Instant	Parallel	98	120	0.80	>.98	<10%	0.78	9050
FB032XP	4	2900	QTP4X32T8/UNV ISL-SC	Instant	Parallel	98	277	0.35	>.98	<10%	0.78	9050
FB032XP	4	2900	QTP4X32T8/UNV ISN-SC	Instant	Parallel	112	120	0.95	>.98	<10%	0.88	10210
FB032XP	4	2900	QTP4X32T8/UNV ISN-SC	Instant	Parallel	112	277	0.40	>.98	<10%	0.88	10210
FB032XP	4	2900	QHE4X32T8/UNV PSN-SC	PROStart	Parallel	111	120	0.93	>.98	<10%	0.88	10210
FB032XP	4	2900	QHE4X32T8/UNV PSN-SC	PROStart	Parallel	108	277	0.39	>.98	<10%	0.88	10210
FB032XP	4	2900	QHE4X32T8/UNV PSH-HT	PROStart	Parallel	143	120	1.22	>.98	<10%	1.15	13340
FB032XP	4	2900	QHE4X32T8/UNV PSH-HT	PROStart	Parallel	141	277	0.53	>.98	<10%	1.15	13340
FB032XP	4	2900	QHE4X32T8/UNV PSX-SC	PROStart	Parallel	90	120	0.76	>.98	<10%	0.71	8235
FB032XP	4	2900	QHE4X32T8/UNV PSX-SC	PROStart	Parallel	89	277	0.32	>.98	<10%	0.71	8235

Note: Data above is listed above for QHE ISL, ISN, & ISH models (for Type CC models add "-1" to the model description). For complete details see product specification pages.

FBO30/XP/SS

QUICKSYSTEMS

U-Shaped CURVALUME® T8 Fluorescent Lamps

As the industry's leading systems company, OSRAM SYLVANIA offers the most comprehensive data on how QUICKTRONIC® electronic ballasts will perform with various combinations of lamps.

System Performance Guide

Lamp Type	# of Lamps	Lamp Lumens	Ballast Description	Start Type	Lamp Circuit	System Watts	Input Volts	Input Amps	Power Factor	THD	Ballast Factor	System Lumens
FBO30/XP/SS	1	2800	QHE1X32T8/UNV ISL-SC	Instant	Parallel	24	120	0.20	>.98	<10%	0.78	2185
FBO30/XP/SS	1	2800	QHE1X32T8/UNV ISL-SC	Instant	Parallel	24	277	0.09	>.98	<10%	0.78	2185
FBO30/XP/SS	1	2800	QHE1X32T8/UNV ISN-SC	Instant	Parallel	26	120	0.22	>.98	<10%	0.88	2465
FBO30/XP/SS	1	2800	QHE1X32T8/UNV ISN-SC	Instant	Parallel	26	277	0.09	>.98	<10%	0.88	2465
FBO30/XP/SS	1	2800	QHE1X32T8/UNV ISH-SC	Instant	Parallel	36	120	0.30	>.98	<10%	1.20	3360
FBO30/XP/SS	1	2800	QHE1X32T8/UNV ISH-SC	Instant	Parallel	36	277	0.13	>.96	<15%	1.20	3360
FBO30/XP/SS	1	2800	QTP1X32T8/UNV ISL-SC	Instant	Parallel	26	120	0.22	>.98	<10%	0.78	2185
FBO30/XP/SS	1	2800	QTP1X32T8/UNV ISL-SC	Instant	Parallel	24	277	0.09	>.98	<10%	0.78	2185
FBO30/XP/SS	1	2800	QTP1X32T8/UNV ISN-SC	Instant	Parallel	28	120	0.25	>.98	<10%	0.88	2465
FBO30/XP/SS	1	2800	QTP1X32T8/UNV ISN-SC	Instant	Parallel	28	277	0.11	>.98	<10%	0.88	2465
FBO30/XP/SS	1	2800	QTP1X32T8/UNV ISH-SC	Instant	Parallel	39	120	0.31	>.98	<10%	1.20	3360
FBO30/XP/SS	1	2800	QTP1X32T8/UNV ISH-SC	Instant	Parallel	39	277	0.14	>.98	<10%	1.20	3360
FBO30/XP/SS	1	2800	QHE2X32T8/UNV ISL-SC	Instant	Parallel	29	120	0.25	>.98	<10%	0.95	2660
FBO30/XP/SS	1	2800	QHE2X32T8/UNV ISL-SC	Instant	Parallel	29	277	0.10	>.98	<15%	0.95	2660
FBO30/XP/SS	1	2800	QHE2X32T8/UNV ISN-SC	Instant	Parallel	32	120	0.26	>.98	<10%	1.05	2940
FBO30/XP/SS	1	2800	QHE2X32T8/UNV ISN-SC	Instant	Parallel	32	277	0.11	>.98	<15%	1.05	2940
FBO30/XP/SS	1	2800	QHE2X32T8/UNV ISM-SC	Instant	Parallel	37	120	0.31	>.95	<10%	1.15	3220
FBO30/XP/SS	1	2800	QHE2X32T8/UNV ISM-SC	Instant	Parallel	37	277	0.15	>.85	<15%	1.15	3220
FBO30/XP/SS	1	2800	QTP2X32T8/UNV ISL-SC	Instant	Parallel	31	120	0.26	>.98	<10%	0.90	2520
FBO30/XP/SS	1	2800	QTP2X32T8/UNV ISL-SC	Instant	Parallel	31	277	0.12	>.96	<15%	0.90	2520
FBO30/XP/SS	1	2800	QTP2X32T8/UNV ISN-SC	Instant	Parallel	34	120	0.28	>.98	<10%	1.04	2910
FBO30/XP/SS	1	2800	QTP2X32T8/UNV ISN-SC	Instant	Parallel	34	277	0.13	>.98	<15%	1.04	2910
FBO30/XP/SS	1	2800	QHE3X32T8/UNV ISL-SC	Instant	Parallel	33	120	0.28	>.98	<15%	1.02	2855
FBO30/XP/SS	1	2800	QHE3X32T8/UNV ISL-SC	Instant	Parallel	34	277	0.13	>.95	<20%	1.02	2855
FBO30/XP/SS	1	2800	QHE3X32T8/UNV ISN-SC	Instant	Parallel	37	120	0.31	>.95	<10%	1.20	3360
FBO30/XP/SS	1	2800	QHE3X32T8/UNV ISN-SC	Instant	Parallel	37	277	0.15	>.86	<15%	1.20	3360
FBO30/XP/SS	1	2800	QTP3X32T8/UNV ISL-SC	Instant	Parallel	35	120	0.27	>.98	<10%	1.03	2885
FBO30/XP/SS	1	2800	QTP3X32T8/UNV ISL-SC	Instant	Parallel	35	277	0.13	>.92	<25%	1.03	2885
FBO30/XP/SS	1	2800	QTP3X32T8/UNV ISN-SC	Instant	Parallel	38	120	0.31	>.98	<10%	1.19	3330
FBO30/XP/SS	1	2800	QTP3X32T8/UNV ISN-SC	Instant	Parallel	38	277	0.14	>.96	<15%	1.19	3330
FBO30/XP/SS	1	2800	QHE4X32T8/UNV ISL-SC	Instant	Parallel	35	120	0.29	>.98	<15%	1.17	3275
FBO30/XP/SS	1	2800	QHE4X32T8/UNV ISL-SC	Instant	Parallel	36	277	0.14	>.93	<20%	1.17	3275
FBO30/XP/SS	1	2800	QTP4X32T8/UNV ISL-SC	Instant	Parallel	35	120	0.29	>.98	<10%	1.06	2970
FBO30/XP/SS	1	2800	QTP4X32T8/UNV ISL-SC	Instant	Parallel	35	277	0.14	>.91	<25%	1.06	2970
FBO30/XP/SS	1	2800	QHE1x32T8/UNV PSN-MC	PROStart®	Parallel	28	120	0.24	>.98	<10%	0.88	2465
FBO30/XP/SS	1	2800	QHE1x32T8/UNV PSN-MC	PROStart	Parallel	26	277	0.10	>.98	<10%	0.88	2465
FBO30/XP/SS	1	2800	QHE2x32T8/UNV PSN-MC	PROStart	Parallel	34	120	0.29	>.98	<10%	1.07	3005
FBO30/XP/SS	1	2800	QHE2x32T8/UNV PSN-MC	PROStart	Parallel	34	277	0.13	>.98	<15%	1.07	3005
FBO30/XP/SS	1	2800	QHE3x32T8/UNV PSN-SC	PROStart	Parallel	38	120	0.32	>.98	<10%	1.13	3175
FBO30/XP/SS	1	2800	QHE3x32T8/UNV PSN-SC	PROStart	Parallel	38	277	0.15	>.95	<15%	1.13	3175
FBO30/XP/SS	1	2800	QHE1X32T8/UNV PSX-MC	PROStart	Parallel	23	120	0.21	>.98	<10%	0.72	2015
FBO30/XP/SS	1	2800	QHE1X32T8/UNV PSX-MC	PROStart	Parallel	23	277	0.09	>.98	<10%	0.72	2015
FBO30/XP/SS	2	2800	QHE2X32T8/UNV ISL-SC	Instant	Parallel	45	120	0.38	>.98	<10%	0.78	4370
FBO30/XP/SS	2	2800	QHE2X32T8/UNV ISL-SC	Instant	Parallel	45	277	0.16	>.98	<10%	0.78	4370
FBO30/XP/SS	2	2800	QHE2X32T8/UNV ISN-SC	Instant	Parallel	52	120	0.44	>.98	<10%	0.88	4930
FBO30/XP/SS	2	2800	QHE2X32T8/UNV ISN-SC	Instant	Parallel	52	277	0.19	>.98	<10%	0.88	4930
FBO30/XP/SS	2	2800	QHE2x32T8/UNV ISM-SC	Instant	Parallel	58	120	0.49	>.98	<10%	1.00	5600
FBO30/XP/SS	2	2800	QHE2x32T8/UNV ISM-SC	Instant	Parallel	58	277	0.21	>.98	<10%	1.00	5600
FBO30/XP/SS	2	2800	QHE2X32T8/UNV ISH-SC	Instant	Parallel	70	120	0.59	>.98	<10%	1.20	6720
FBO30/XP/SS	2	2800	QHE2X32T8/UNV ISH-SC	Instant	Parallel	69	277	0.25	>.98	<15%	1.20	6720
FBO30/XP/SS	2	2800	QTP2X32T8/UNV ISL-SC	Instant	Parallel	48	120	0.41	>.98	<10%	0.78	4370
FBO30/XP/SS	2	2800	QTP2X32T8/UNV ISL-SC	Instant	Parallel	48	277	0.18	>.98	<10%	0.78	4370
FBO30/XP/SS	2	2800	QTP2X32T8/UNV ISN-SC	Instant	Parallel	55	120	0.46	>.98	<10%	0.88	4930
FBO30/XP/SS	2	2800	QTP2X32T8/UNV ISN-SC	Instant	Parallel	55	277	0.20	>.98	<10%	0.88	4930
FBO30/XP/SS	2	2800	QTP2X32T8/UNV ISH-SC	Instant	Parallel	73	120	0.61	>.98	<10%	1.20	6720
FBO30/XP/SS	2	2800	QTP2X32T8/UNV ISH-SC	Instant	Parallel	73	277	0.26	>.98	<10%	1.20	6720
FBO30/XP/SS	2	2800	QHE3X32T8/UNV ISL-SC	Instant	Parallel	53	120	0.43	>.98	<10%	0.90	5040
FBO30/XP/SS	2	2800	QHE3X32T8/UNV ISL-SC	Instant	Parallel	53	277	0.19	>.97	<15%	0.90	5040
FBO30/XP/SS	2	2800	QHE3X32T8/UNV ISN-SC	Instant	Parallel	60	120	0.47	>.98	<10%	0.99	5545
FBO30/XP/SS	2	2800	QHE3X32T8/UNV ISN-SC	Instant	Parallel	59	277	0.20	>.98	<15%	0.99	5545
FBO30/XP/SS	2	2800	QHE3X32T8/UNV ISM-SC	Instant	Parallel	65	120	0.54	>.98	<10%	1.08	6050
FBO30/XP/SS	2	2800	QHE3X32T8/UNV ISM-SC	Instant	Parallel	65	277	0.24	>.98	<15%	1.08	6050
FBO30/XP/SS	2	2800	QTP3X32T8/UNV ISL-SC	Instant	Parallel	55	120	0.43	>.98	<10%	0.88	4930
FBO30/XP/SS	2	2800	QTP3X32T8/UNV ISL-SC	Instant	Parallel	55	277	0.19	>.98	<10%	0.88	4930
FBO30/XP/SS	2	2800	QTP3X32T8/UNV ISN-SC	Instant	Parallel	62	120	0.52	>.98	<10%	0.99	5545
FBO30/XP/SS	2	2800	QTP3X32T8/UNV ISN-SC	Instant	Parallel	62	277	0.23	>.97	<15%	0.99	5545

Note: Data above is listed above for QHE ISL, ISN, & ISH models (for Type CC models add "-1" to the model description). For complete details see product specification pages.



U-Shaped CURVALUME® T8 Fluorescent Lamps

QUICKSYSTEMS

System Performance Guide

Lamp Type	# of Lamps	Lamp Lumens	Ballast Description	Start Type	Lamp Circuit	System Watts	Input Volts	Input Amps	Power Factor	THD	Ballast Factor	System Lumens
FB030T8SSXP	2	2800	QHE4X32T8/UNV ISL-SC	Instant	Parallel	57	120	0.47	>.98	<10%	0.98	5490
FB030/XP/SS	2	2800	QHE4X32T8/UNV ISL-SC	Instant	Parallel	57	277	0.21	>.95	<20%	0.98	5490
FB030/XP/SS	2	2800	QHE4X32T8/UNV ISN-SC	Instant	Parallel	65	120	0.54	>.98	<10%	1.08	6050
FB030/XP/SS	2	2800	QHE4X32T8/UNV ISN-SC	Instant	Parallel	65	277	0.24	>.96	<15%	1.08	6050
FB030/XP/SS	2	2800	QHE4X32T8/UNV ISM-SC	Instant	Parallel	69	120	0.58	>.98	<10%	1.13	6330
FB030/XP/SS	2	2800	QHE4X32T8/UNV ISM-SC	Instant	Parallel	70	277	0.26	>.95	<15%	1.13	6330
FB030/XP/SS	2	2800	QTP4X32T8/UNV ISL-SC	Instant	Parallel	57	120	0.47	>.98	<10%	0.93	5210
FB030/XP/SS	2	2800	QTP4X32T8/UNV ISL-SC	Instant	Parallel	57	277	0.21	>.96	<15%	0.93	5210
FB030/XP/SS	2	2800	QTP4X32T8/UNV ISN-SC	Instant	Parallel	65	120	0.59	>.98	<15%	1.07	5990
FB030/XP/SS	2	2800	QTP4X32T8/UNV ISN-SC	Instant	Parallel	65	277	0.25	>.98	<15%	1.07	5990
FB030/XP/SS	2	2800	QHE2x32T8/UNV PSN-MC	PROStart®	Parallel	55	120	0.46	>.98	<10%	0.88	4930
FB030/XP/SS	2	2800	QHE2x32T8/UNV PSN-MC	PROStart	Parallel	53	277	0.20	>.98	<10%	0.88	4930
FB030/XP/SS	2	2800	QHE3x32T8/UNV PSN-SC	PROStart	Parallel	61	120	0.51	>.98	<10%	0.98	5500
FB030/XP/SS	2	2800	QHE3x32T8/UNV PSN-SC	PROStart	Parallel	60	277	0.22	>.98	<10%	0.98	5500
FB030/XP/SS	2	2800	QHE4x32T8/UNV PSN-SC	PROStart	Parallel	65	120	0.54	>.98	<10%	1.06	5940
FB030/XP/SS	2	2800	QHE4x32T8/UNV PSN-SC	PROStart	Parallel	65	277	0.24	>.95	<15%	1.06	5940
FB030/XP/SS	2	2800	QHE2X32T8/UNV PSH-HT	PROStart	Parallel	69	120	0.57	>.98	<10%	1.15	6440
FB030/XP/SS	2	2800	QHE2X32T8/UNV PSH-HT	PROStart	Parallel	67	277	0.25	>.98	<10%	1.15	6440
FB030/XP/SS	2	2800	QHE2X32T8/UNV PSX-MC	PROStart	Parallel	45	120	0.40	>.98	<10%	0.72	4030
FB030/XP/SS	2	2800	QHE2X32T8/UNV PSX-MC	PROStart	Parallel	43	277	0.17	>.98	<10%	0.72	4030
FB030/XP/SS	3	2800	QHE3X32T8/UNV ISL-SC	Instant	Parallel	68	120	0.58	>.98	<10%	0.78	6550
FB030/XP/SS	3	2800	QHE3X32T8/UNV ISL-SC	Instant	Parallel	68	277	0.25	>.98	<10%	0.78	6550
FB030/XP/SS	3	2800	QHE3X32T8/UNV ISN-SC	Instant	Parallel	78	120	0.66	>.98	<10%	0.88	7390
FB030/XP/SS	3	2800	QHE3X32T8/UNV ISN-SC	Instant	Parallel	77	277	0.28	>.98	<10%	0.88	7390
FB030/XP/SS	3	2800	QHE3x32T8/UNV ISM-SC	Instant	Parallel	83	120	0.67	>.98	<10%	0.98	8230
FB030/XP/SS	3	2800	QHE3x32T8/UNV ISM-SC	Instant	Parallel	83	277	0.30	>.98	<10%	0.98	8230
FB030/XP/SS	3	2800	QHE3X32T8/UNV ISH-SC	Instant	Parallel	104	120	0.87	>.98	<10%	1.18	9910
FB030/XP/SS	3	2800	QHE3X32T8/UNV ISH-SC	Instant	Parallel	103	277	0.38	>.98	<10%	1.18	9910
FB030/XP/SS	3	2800	QTP3X32T8/UNV ISL-SC	Instant	Parallel	71	120	0.60	>.98	<10%	0.78	6550
FB030/XP/SS	3	2800	QTP3X32T8/UNV ISL-SC	Instant	Parallel	71	277	0.26	>.98	<10%	0.78	6550
FB030/XP/SS	3	2800	QTP3X32T8/UNV ISN-SC	Instant	Parallel	81	120	0.69	>.98	<10%	0.88	7390
FB030/XP/SS	3	2800	QTP3X32T8/UNV ISN-SC	Instant	Parallel	81	277	0.30	>.98	<10%	0.88	7390
FB030/XP/SS	3	2800	QTP3X32T8/UNV ISH-SC	Instant	Parallel	107	120	0.89	>.98	<10%	1.18	9910
FB030/XP/SS	3	2800	QTP3X32T8/UNV ISH-SC	Instant	Parallel	104	277	0.39	>.98	<10%	1.18	9910
FB030/XP/SS	3	2800	QHE4X32T8/UNV ISL-SC	Instant	Parallel	75	120	0.64	>.98	<10%	0.85	7140
FB030/XP/SS	3	2800	QHE4X32T8/UNV ISL-SC	Instant	Parallel	74	277	0.26	>.98	<15%	0.85	7140
FB030/XP/SS	3	2800	QHE4X32T8/UNV ISN-SC	Instant	Parallel	85	120	0.67	>.98	<10%	0.96	8065
FB030/XP/SS	3	2800	QHE4X32T8/UNV ISN-SC	Instant	Parallel	84	277	0.29	>.98	<15%	0.96	8065
FB030/XP/SS	3	2800	QHE4X32T8/UNV ISM-SC	Instant	Parallel	93	120	0.78	>.98	<10%	1.04	8735
FB030/XP/SS	3	2800	QHE4X32T8/UNV ISM-SC	Instant	Parallel	93	277	0.34	>.98	<10%	1.04	8735
FB030/XP/SS	3	2800	QTP4X32T8/UNV ISL-SC	Instant	Parallel	75	120	0.62	>.98	<10%	0.84	7055
FB030/XP/SS	3	2800	QTP4X32T8/UNV ISL-SC	Instant	Parallel	75	277	0.27	>.97	<10%	0.84	7055
FB030/XP/SS	3	2800	QTP4X32T8/UNV ISN-SC	Instant	Parallel	86	120	0.74	>.98	<10%	0.96	8065
FB030/XP/SS	3	2800	QTP4X32T8/UNV ISN-SC	Instant	Parallel	86	277	0.32	>.98	<15%	0.96	8065
FB030/XP/SS	3	2800	QHE3x32T8/UNV PSN-SC	PROStart	Parallel	80	120	0.68	>.98	<10%	0.88	7390
FB030/XP/SS	3	2800	QHE3x32T8/UNV PSN-SC	PROStart	Parallel	78	277	0.28	>.98	<10%	0.88	7390
FB030/XP/SS	3	2800	QHE4x32T8/UNV PSN-SC	PROStart	Parallel	87	120	0.73	>.98	<15%	0.96	8085
FB030/XP/SS	3	2800	QHE4x32T8/UNV PSN-SC	PROStart	Parallel	85	277	0.31	>.98	<10%	0.96	8085
FB030/XP/SS	3	2800	QHE3X32T8/UNV PSH-HT	PROStart	Parallel	104	120	0.88	>.98	<10%	1.15	9660
FB030/XP/SS	3	2800	QHE3X32T8/UNV PSH-HT	PROStart	Parallel	101	277	0.37	>.98	<10%	1.15	9660
FB030/XP/SS	3	2800	QHE3X32T8/UNV PSX-SC	PROStart	Parallel	65	120	0.54	>.98	<10%	0.71	5965
FB030/XP/SS	3	2800	QHE3X32T8/UNV PSX-SC	PROStart	Parallel	63	277	0.23	>.98	<10%	0.71	5965
FB030/XP/SS	4	2800	QHE4X32T8/UNV ISL-SC	Instant	Parallel	89	120	0.75	>.98	<10%	0.78	8735
FB030/XP/SS	4	2800	QHE4X32T8/UNV ISL-SC	Instant	Parallel	89	277	0.32	>.98	<10%	0.78	8735
FB030/XP/SS	4	2800	QHE4X32T8/UNV ISN-SC	Instant	Parallel	102	120	0.86	>.98	<10%	0.88	9855
FB030/XP/SS	4	2800	QHE4X32T8/UNV ISN-SC	Instant	Parallel	101	277	0.37	>.98	<10%	0.88	9855
FB030/XP/SS	4	2800	QHE4x32T8/UNV ISM-SC	Instant	Parallel	114	120	0.95	>.98	<10%	0.98	10975
FB030/XP/SS	4	2800	QHE4x32T8/UNV ISM-SC	Instant	Parallel	112	277	0.41	>.98	<10%	0.98	10975
FB030/XP/SS	4	2800	QHE4X32T8/UNV ISH	Instant	Parallel	135	120	1.13	>.98	<10%	1.15	12880
FB030/XP/SS	4	2800	QHE4X32T8/UNV ISH	Instant	Parallel	133	277	0.49	>.98	<10%	1.15	12880
FB030/XP/SS	4	2800	QTP4X32T8/UNV ISL-SC	Instant	Parallel	92	120	0.78	>.98	<10%	0.78	8735
FB030/XP/SS	4	2800	QTP4X32T8/UNV ISL-SC	Instant	Parallel	92	277	0.34	>.98	<10%	0.78	8735
FB030/XP/SS	4	2800	QTP4X32T8/UNV ISN-SC	Instant	Parallel	105	120	0.91	>.98	<10%	0.88	9855
FB030/XP/SS	4	2800	QTP4X32T8/UNV ISN-SC	Instant	Parallel	105	277	0.39	>.98	<10%	0.88	9855
FB030/XP/SS	4	2800	QHE4x32T8/UNV PSN-SC	PROStart	Parallel	105	120	0.89	>.98	<10%	0.88	9855
FB030/XP/SS	4	2800	QHE4x32T8/UNV PSN-SC	PROStart	Parallel	103	277	0.38	>.98	<10%	0.88	9855
FB030/XP/SS	4	2800	QHE4X32T8/UNV PSH-HT	PROStart	Parallel	132	120	1.13	>.98	<10%	1.15	12880
FB030/XP/SS	4	2800	QHE4X32T8/UNV PSH-HT	PROStart	Parallel	130	277	0.49	>.98	<10%	1.15	12880
FB030/XP/SS	4	2800	QHE4x32T8/UNV PSX-SC	PROStart	Parallel	86	120	0.72	>.98	<10%	0.71	7950
FB030/XP/SS	4	2800	QHE4x32T8/UNV PSX-SC	PROStart	Parallel	84	277	0.32	>.98	<10%	0.71	7950

Note: Data above is listed above for QHE ISL, ISN, & ISH models (for Type CC models add "-1" to the model description). For complete details see product specification pages.

System Performance Guide

Lamp Type	# of Lamps	Lamp Lumens	Ballast Description	Start Type	Lamp Circuit	System Watts	Input Volts	Input Amps	Power Factor	THD	Ballast Factor	System Lumens
FB031XP	1	2775	QHE1X32T8/UNV ISL-SC	Instant	Parallel	24	120	0.20	>.98	<10%	0.78	2165
FB031XP	1	2775	QHE1X32T8/UNV ISL-SC	Instant	Parallel	24	277	0.08	>.98	<10%	0.78	2165
FB031XP	1	2775	QHE1X32T8/UNV ISN-SC	Instant	Parallel	28	120	0.23	>.98	<10%	0.88	2440
FB031XP	1	2775	QHE1X32T8/UNV ISN-SC	Instant	Parallel	28	277	0.10	>.98	<10%	0.88	2440
FB031XP	1	2775	QHE1X32T8/UNV ISH-SC	Instant	Parallel	37	120	0.31	>.98	<10%	1.20	3330
FB031XP	1	2775	QHE1X32T8/UNV ISH-SC	Instant	Parallel	37	277	0.13	>.98	<10%	1.20	3330
FB031XP	1	2775	QTP1X32T8/UNV ISL-SC	Instant	Parallel	27	120	0.21	>.98	<10%	0.79	2190
FB031XP	1	2775	QTP1X32T8/UNV ISL-SC	Instant	Parallel	27	277	0.09	>.98	<10%	0.79	2190
FB031XP	1	2775	QTP1X32T8/UNV ISN-SC	Instant	Parallel	30	120	0.25	>.98	<10%	0.89	2470
FB031XP	1	2775	QTP1X32T8/UNV ISN-SC	Instant	Parallel	30	277	0.11	>.98	<10%	0.89	2470
FB031XP	1	2775	QTP1X32T8/UNV ISH-SC	Instant	Parallel	40	277	0.14	>.98	<10%	1.20	3330
FB031XP	1	2775	QTP1X32T8/UNV ISH-SC	Instant	Parallel	40	120	0.32	>.98	<10%	1.20	3330
FB031XP	1	2775	QHE2X32T8/UNV ISL-SC	Instant	Parallel	30	120	0.26	>.95	<10%	0.95	2635
FB031XP	1	2775	QHE2X32T8/UNV ISL-SC	Instant	Parallel	30	277	0.11	>.95	<15%	0.95	2635
FB031XP	1	2775	QHE2X32T8/UNV ISN-SC	Instant	Parallel	33	120	0.26	>.95	<15%	1.05	2915
FB031XP	1	2775	QHE2X32T8/UNV ISN-SC	Instant	Parallel	33	277	0.11	>.95	<15%	1.05	2915
FB031XP	1	2775	QHE2X32T8/UNV ISM-SC	Instant	Parallel	38	120	0.33	>.95	<10%	1.17	3245
FB031XP	1	2775	QHE2X32T8/UNV ISM-SC	Instant	Parallel	38	277	0.16	>.87	<15%	1.17	3245
FB031XP	1	2775	QTP2X32T8/UNV ISL-SC	Instant	Parallel	31	120	0.26	>.98	<10%	0.91	2525
FB031XP	1	2775	QTP2X32T8/UNV ISL-SC	Instant	Parallel	31	277	0.12	>.97	<10%	0.91	2525
FB031XP	1	2775	QTP2X32T8/UNV ISN-SC	Instant	Parallel	35	120	0.29	>.95	<15%	1.04	2885
FB031XP	1	2775	QTP2X32T8/UNV ISN-SC	Instant	Parallel	35	277	0.13	>.95	<15%	1.04	2885
FB031XP	1	2775	QHE3X32T8/UNV ISL-SC	Instant	Parallel	33	120	0.28	>.98	<15%	1.02	2830
FB031XP	1	2775	QHE3X32T8/UNV ISL-SC	Instant	Parallel	34	277	0.13	>.95	<20%	1.02	2830
FB031XP	1	2775	QHE3X32T8/UNV ISN-SC	Instant	Parallel	38	120	0.33	>.95	<10%	1.17	3245
FB031XP	1	2775	QHE3X32T8/UNV ISN-SC	Instant	Parallel	38	277	0.16	>.87	<15%	1.17	3245
FB031XP	1	2775	QTP3X32T8/UNV ISL-SC	Instant	Parallel	36	120	0.27	>.98	<10%	1.03	2860
FB031XP	1	2775	QTP3X32T8/UNV ISL-SC	Instant	Parallel	36	277	0.13	>.96	<20%	1.03	2860
FB031XP	1	2775	QTP3X32T8/UNV ISN-SC	Instant	Parallel	40	277	0.15	>.95	<15%	1.20	3330
FB031XP	1	2775	QTP3X32T8/UNV ISN-SC	Instant	Parallel	40	120	0.33	>.98	<10%	1.20	3330
FB031XP	1	2775	QHE4X32T8/UNV ISL-SC	Instant	Parallel	38	120	0.33	>.98	<15%	1.18	3275
FB031XP	1	2775	QHE4X32T8/UNV ISL-SC	Instant	Parallel	38	277	0.15	>.91	<20%	1.18	3275
FB031XP	1	2775	QTP4X32T8/UNV ISL-SC	Instant	Parallel	36	120	0.29	>.98	<10%	1.07	2970
FB031XP	1	2775	QTP4X32T8/UNV ISL-SC	Instant	Parallel	36	277	0.14	>.91	<30%	1.07	2970
FB031XP	1	2775	QHE1X32T8/UNV PSN-MC	PROStart®	Parallel	29	120	0.25	>.98	<10%	0.89	2470
FB031XP	1	2775	QHE1X32T8/UNV PSN-MC	PROStart	Parallel	28	277	0.11	>.98	<10%	0.89	2470
FB031XP	1	2775	QHE2X32T8/UNV PSN-MC	PROStart	Parallel	34	120	0.29	>.98	<10%	1.08	3000
FB031XP	1	2775	QHE2X32T8/UNV PSN-MC	PROStart	Parallel	34	277	0.13	>.98	<15%	1.08	3000
FB031XP	1	2775	QHE3X32T8/UNV PSN-SC	PROStart	Parallel	39	120	0.33	>.98	<10%	1.14	3165
FB031XP	1	2775	QHE3X32T8/UNV PSN-SC	PROStart	Parallel	39	277	0.15	>.95	<15%	1.14	3165
FB031XP	1	2775	QHE4X32T8/UNV PSN-SC	PROStart	Parallel	42	120	0.35	>.98	<10%	1.19	3300
FB031XP	1	2775	QHE4X32T8/UNV PSN-SC	PROStart	Parallel	42	277	0.16	>.90	<15%	1.19	3300
FB031XP	1	2775	QHE1X32T8/UNV PSX-MC	PROStart	Parallel	24	120	0.21	>.98	<10%	0.71	1970
FB031XP	1	2775	QHE1X32T8/UNV PSX-MC	PROStart	Parallel	23	277	0.09	>.98	<10%	0.71	1970
FB031XP	2	2775	QHE2X32T8/UNV ISL-SC	Instant	Parallel	47	120	0.40	>.98	<10%	0.79	4385
FB031XP	2	2775	QHE2X32T8/UNV ISL-SC	Instant	Parallel	47	277	0.17	>.98	<10%	0.79	4385
FB031XP	2	2775	QHE2X32T8/UNV ISN-SC	Instant	Parallel	53	120	0.43	>.98	<10%	0.88	4885
FB031XP	2	2775	QHE2X32T8/UNV ISN-SC	Instant	Parallel	53	277	0.18	>.98	<10%	0.88	4885
FB031XP	2	2775	QHE2X32T8/UNV ISM-SC	Instant	Parallel	62	120	0.52	>.98	<10%	1.00	5550
FB031XP	2	2775	QHE2X32T8/UNV ISM-SC	Instant	Parallel	61	277	0.23	>.98	<10%	1.00	5550
FB031XP	2	2775	QHE2X32T8/UNV ISH-SC	Instant	Parallel	72	120	0.64	>.98	<10%	1.20	6660
FB031XP	2	2775	QHE2X32T8/UNV ISH-SC	Instant	Parallel	71	277	0.27	>.98	<10%	1.20	6660
FB031XP	2	2775	QTP2X32T8/UNV ISL-SC	Instant	Parallel	49	120	0.43	>.98	<10%	0.79	4385
FB031XP	2	2775	QTP2X32T8/UNV ISL-SC	Instant	Parallel	49	277	0.20	>.98	<10%	0.79	4385
FB031XP	2	2775	QTP2X32T8/UNV ISN-SC	Instant	Parallel	56	120	0.47	>.98	<10%	0.89	4940
FB031XP	2	2775	QTP2X32T8/UNV ISN-SC	Instant	Parallel	56	277	0.20	>.98	<10%	0.89	4940
FB031XP	2	2775	QTP2X32T8/UNV ISH-SC	Instant	Parallel	76	120	0.64	>.98	<10%	1.20	6660
FB031XP	2	2775	QTP2X32T8/UNV ISH-SC	Instant	Parallel	75	277	0.30	>.98	<10%	1.20	6660
FB031XP	2	2775	QHE3X32T8/UNV ISL-SC	Instant	Parallel	54	120	0.47	>.95	<15%	0.90	4995
FB031XP	2	2775	QHE3X32T8/UNV ISL-SC	Instant	Parallel	54	277	0.21	>.95	<15%	0.90	4995
FB031XP	2	2775	QHE3X32T8/UNV ISN-SC	Instant	Parallel	62	120	0.48	>.95	<15%	0.99	5495
FB031XP	2	2775	QHE3X32T8/UNV ISN-SC	Instant	Parallel	61	277	0.21	>.95	<15%	0.99	5495
FB031XP	2	2775	QHE3X32T8/UNV ISM-SC	Instant	Parallel	66	120	0.55	>.98	<10%	1.08	5995
FB031XP	2	2775	QHE3X32T8/UNV ISM-SC	Instant	Parallel	66	277	0.24	>.98	<15%	1.08	5995
FB031XP	2	2775	QTP3X32T8/UNV ISL-SC	Instant	Parallel	57	120	0.44	>.98	<10%	0.88	4885
FB031XP	2	2775	QTP3X32T8/UNV ISL-SC	Instant	Parallel	57	277	0.20	>.98	<10%	0.88	4885

Note: Data above is listed above for QHE ISL, ISN, & ISH models (for Type CC models add "-1" to the model description). For complete details see product specification pages.



Lamp Type	# of Lamps	Lamp Lumens	Ballast Description	Start Type	Lamp Circuit	System Watts	Input Volts	Input Amps	Power Factor	THD	Ballast Factor	System Lumens
FB031XP	2	2775	QTP3X32T8/UNV ISN-SC	Instant	Parallel	63	120	0.54	>.95	<15%	1.01	5605
FB031XP	2	2775	QTP3X32T8/UNV ISN-SC	Instant	Parallel	63	277	0.24	>.95	<15%	1.01	5605
FB031XP	2	2775	QHE4X32T8/UNV ISL-SC	Instant	Parallel	59	120	0.50	>.98	<10%	0.98	5440
FB031XP	2	2775	QHE4X32T8/UNV ISL-SC	Instant	Parallel	59	277	0.22	>.96	<15%	0.98	5440
FB031XP	2	2775	QHE4X32T8/UNV ISN-SC	Instant	Parallel	66	120	0.55	>.98	<10%	1.09	6050
FB031XP	2	2775	QHE4X32T8/UNV ISN-SC	Instant	Parallel	66	277	0.24	>.97	<15%	1.09	6050
FB031XP	2	2775	QHE4X32T8/UNV ISM-SC	Instant	Parallel	71	120	0.60	>.98	<10%	1.14	6325
FB031XP	2	2775	QHE4X32T8/UNV ISM-SC	Instant	Parallel	71	277	0.26	>.95	<15%	1.14	6325
FB031XP	2	2775	QTP4X32T8/UNV ISL-SC	Instant	Parallel	58	120	0.47	>.98	<10%	0.94	5215
FB031XP	2	2775	QTP4X32T8/UNV ISL-SC	Instant	Parallel	58	277	0.21	>.96	<20%	0.94	5215
FB031XP	2	2775	QTP4X32T8/UNV ISN-SC	Instant	Parallel	65	120	0.54	>.98	<10%	1.07	5940
FB031XP	2	2775	QTP4X32T8/UNV ISN-SC	Instant	Parallel	65	277	0.23	>.98	<10%	1.07	5940
FB031XP	2	2775	QHE2X32T8/UNV PSN-MC	PROStart®	Parallel	56	120	0.47	>.98	<10%	0.89	4915
FB031XP	2	2775	QHE2X32T8/UNV PSN-MC	PROStart	Parallel	54	277	0.20	>.98	<10%	0.89	4915
FB031XP	2	2775	QHE3X32T8/UNV PSN-SC	PROStart	Parallel	63	120	0.53	>.98	<10%	0.98	5440
FB031XP	2	2775	QHE3X32T8/UNV PSN-SC	PROStart	Parallel	62	277	0.23	>.98	<10%	0.98	5440
FB031XP	2	2775	QHE4X32T8/UNV PSN-SC	PROStart	Parallel	68	120	0.57	>.98	<10%	1.05	5830
FB031XP	2	2775	QHE4X32T8/UNV PSN-SC	PROStart	Parallel	67	277	0.25	>.95	<15%	1.05	5830
FB031XP	2	2775	QHE2X32T8/UNV PSH-HT	PROStart	Parallel	67	120	0.55	>.98	<10%	1.15	6385
FB031XP	2	2775	QHE2X32T8/UNV PSH-HT	PROStart	Parallel	66	277	0.24	>.98	<10%	1.15	6385
FB031XP	2	2775	QHE2X32T8/UNV PSX-MC	PROStart	Parallel	46	120	0.39	>.98	<10%	0.71	3940
FB031XP	2	2775	QHE2X32T8/UNV PSX-MC	PROStart	Parallel	45	277	0.17	>.98	<10%	0.71	3940
FB031XP	3	2775	QHE3X32T8/UNV ISL-SC	Instant	Parallel	69	120	0.60	>.98	<10%	0.77	6410
FB031XP	3	2775	QHE3X32T8/UNV ISL-SC	Instant	Parallel	69	277	0.25	>.98	<10%	0.77	6410
FB031XP	3	2775	QHE3X32T8/UNV ISN-SC	Instant	Parallel	80	120	0.65	>.98	<15%	0.88	7325
FB031XP	3	2775	QHE3X32T8/UNV ISN-SC	Instant	Parallel	79	277	0.28	>.98	<15%	0.88	7325
FB031XP	3	2775	QHE3X32T8/UNV ISM-SC	Instant	Parallel	85	120	0.67	>.98	<10%	0.98	8160
FB031XP	3	2775	QHE3X32T8/UNV ISM-SC	Instant	Parallel	85	277	0.29	>.98	<10%	0.98	8160
FB031XP	3	2775	QHE3X32T8/UNV ISH-SC	Instant	Parallel	108	120	0.91	>.98	<10%	1.18	9825
FB031XP	3	2775	QHE3X32T8/UNV ISH-SC	Instant	Parallel	106	277	0.39	>.98	<10%	1.18	9825
FB031XP	3	2775	QTP3X32T8/UNV ISL-SC	Instant	Parallel	73	120	0.58	>.98	<10%	0.79	6575
FB031XP	3	2775	QTP3X32T8/UNV ISL-SC	Instant	Parallel	73	277	0.25	>.98	<10%	0.79	6575
FB031XP	3	2775	QTP3X32T8/UNV ISN-SC	Instant	Parallel	83	120	0.71	>.98	<15%	0.89	7410
FB031XP	3	2775	QTP3X32T8/UNV ISN-SC	Instant	Parallel	83	277	0.31	>.98	<15%	0.89	7410
FB031XP	3	2775	QTP3X32T8/UNV ISH-SC	Instant	Parallel	113	120	0.90	>.98	<10%	1.18	9825
FB031XP	3	2775	QTP3X32T8/UNV ISH-SC	Instant	Parallel	110	277	0.41	>.98	<10%	1.18	9825
FB031XP	3	2775	QHE4X32T8/UNV ISL-SC	Instant	Parallel	77	120	0.68	>.95	<10%	0.86	7160
FB031XP	3	2775	QHE4X32T8/UNV ISL-SC	Instant	Parallel	77	277	0.29	>.95	<15%	0.86	7160
FB031XP	3	2775	QHE4X32T8/UNV ISN-SC	Instant	Parallel	85	120	0.67	>.95	<15%	0.96	7990
FB031XP	3	2775	QHE4X32T8/UNV ISN-SC	Instant	Parallel	85	277	0.29	>.95	<15%	0.96	7990
FB031XP	3	2775	QHE4X32T8/UNV ISM-SC	Instant	Parallel	96	120	0.80	>.98	<10%	1.05	8740
FB031XP	3	2775	QHE4X32T8/UNV ISM-SC	Instant	Parallel	96	277	0.35	>.98	<10%	1.05	8740
FB031XP	3	2775	QTP4X32T8/UNV ISL-SC	Instant	Parallel	76	120	0.62	>.98	<10%	0.84	6995
FB031XP	3	2775	QTP4X32T8/UNV ISL-SC	Instant	Parallel	76	277	0.27	>.97	<10%	0.84	6995
FB031XP	3	2775	QTP4X32T8/UNV ISN-SC	Instant	Parallel	87	120	0.74	>.95	<15%	0.96	7990
FB031XP	3	2775	QTP4X32T8/UNV ISN-SC	Instant	Parallel	87	277	0.32	>.95	<15%	0.96	7990
FB031XP	3	2775	QHE3X32T8/UNV PSN-SC	PROStart	Parallel	82	120	0.69	>.98	<10%	0.87	7245
FB031XP	3	2775	QHE3X32T8/UNV PSN-SC	PROStart	Parallel	80	277	0.30	>.98	<10%	0.87	7245
FB031XP	3	2775	QHE4X32T8/UNV PSN-SC	PROStart	Parallel	91	120	0.77	>.98	<10%	0.96	7990
FB031XP	3	2775	QHE4X32T8/UNV PSN-SC	PROStart	Parallel	89	277	0.33	>.98	<10%	0.96	7990
FB031XP	3	2775	QHE3X32T8/UNV PSH-HT	PROStart	Parallel	108	120	0.92	>.98	<10%	1.15	9575
FB031XP	3	2775	QHE3X32T8/UNV PSH-HT	PROStart	Parallel	107	277	0.39	>.98	<10%	1.15	9575
FB031XP	3	2775	QHE3X32T8/UNV PSX-SC	PROStart	Parallel	72	120	0.60	>.98	<10%	0.71	5910
FB031XP	3	2775	QHE3X32T8/UNV PSX-SC	PROStart	Parallel	70	277	0.25	>.98	<10%	0.71	5910
FB031XP	4	2775	QHE4X32T8/UNV ISL-SC	Instant	Parallel	92	120	0.78	>.98	<10%	0.77	8545
FB031XP	4	2775	QHE4X32T8/UNV ISL-SC	Instant	Parallel	92	277	0.33	>.98	<10%	0.77	8545
FB031XP	4	2775	QHE4X32T8/UNV ISN-SC	Instant	Parallel	103	120	0.84	>.98	<15%	0.88	9770
FB031XP	4	2775	QHE4X32T8/UNV ISN-SC	Instant	Parallel	103	277	0.36	>.98	<15%	0.88	9770
FB031XP	4	2775	QHE4X32T8/UNV ISM-SC	Instant	Parallel	118	120	0.99	>.98	<10%	0.98	10880
FB031XP	4	2775	QHE4X32T8/UNV ISM-SC	Instant	Parallel	116	277	0.42	>.98	<10%	0.98	10880
FB031XP	4	2775	QHE4X32T8/UNV ISH	Instant	Parallel	140	120	1.16	>.98	<10%	1.15	12765
FB031XP	4	2775	QHE4X32T8/UNV ISH	Instant	Parallel	137	277	0.50	>.98	<10%	1.15	12765
FB031XP	4	2775	QTP4X32T8/UNV ISL-SC	Instant	Parallel	95	120	0.76	>.98	<10%	0.79	8770
FB031XP	4	2775	QTP4X32T8/UNV ISL-SC	Instant	Parallel	95	277	0.33	>.98	<10%	0.79	8770
FB031XP	4	2775	QTP4X32T8/UNV ISN-SC	Instant	Parallel	109	120	0.91	>.98	<15%	0.89	9880
FB031XP	4	2775	QTP4X32T8/UNV ISN-SC	Instant	Parallel	109	277	0.39	>.98	<15%	0.89	9880
FB031XP	4	2775	QHE4X32T8/UNV PSN-SC	PROStart	Parallel	110	120	0.93	>.98	<10%	0.88	9770
FB031XP	4	2775	QHE4X32T8/UNV PSN-SC	PROStart	Parallel	107	277	0.39	>.98	<10%	0.88	9770
FB031XP	4	2775	QHE4X32T8/UNV PSH-HT	PROStart	Parallel	141	120	1.20	>.98	<10%	1.15	12765
FB031XP	4	2775	QHE4X32T8/UNV PSH-HT	PROStart	Parallel	139	277	0.51	>.98	<10%	1.15	12765
FB031XP	4	2775	QHE4X32T8/UNV PSX-SC	PROStart	Parallel	90	120	0.75	>.98	<10%	0.70	7770
FB031XP	4	2775	QHE4X32T8/UNV PSX-SC	PROStart	Parallel	88	277	0.32	>.98	<10%	0.70	7770

Note: Data above is listed above for QHE ISL, ISN, & ISH models (for Type CC models add "-1" to the model description). For complete details see product specification pages.

System Performance Guide

Lamp Type	# of Lamps	Lamp Lumens	Ballast Description	Start Type	Lamp Circuit	System Watts	Input Volts	Input Amps	Power Factor	THD	Ballast Factor	System Lumens
FB024	1	1925	QHE1X32T8/UNV ISL-SC	Instant	Parallel	19	120	0.16	>.97	<10%	0.79	1520
FB024	1	1925	QHE1X32T8/UNV ISL-SC	Instant	Parallel	19	277	0.08	>.90	<15%	0.79	1520
FB024	1	1925	QHE1X32T8/UNV ISN-SC	Instant	Parallel	21	120	0.17	>.97	<15%	0.90	1735
FB024	1	1925	QHE1X32T8/UNV ISN-SC	Instant	Parallel	21	277	0.07	>.97	<15%	0.90	1735
FB024	1	1925	QTP1X32T8/UNV ISL-SC	Instant	Parallel	21	120	0.16	>.98	<10%	0.80	1540
FB024	1	1925	QTP1X32T8/UNV ISL-SC	Instant	Parallel	21	277	0.07	>.98	<10%	0.80	1540
FB024	1	1925	QTP1X32T8/UNV ISN-SC	Instant	Parallel	23	120	0.19	>.97	<15%	0.90	1735
FB024	1	1925	QTP1X32T8/UNV ISN-SC	Instant	Parallel	23	277	0.08	>.97	<15%	0.90	1735
FB024	1	1925	QHE2X32T8/UNV ISL-SC	Instant	Parallel	23	120	0.20	>.95	<10%	0.97	1865
FB024	1	1925	QHE2X32T8/UNV ISL-SC	Instant	Parallel	23	277	0.09	>.90	<15%	0.97	1865
FB024	1	1925	QHE2X32T8/UNV ISN-SC	Instant	Parallel	25	120	0.21	>.95	<15%	1.07	2060
FB024	1	1925	QHE2X32T8/UNV ISN-SC	Instant	Parallel	25	277	0.09	>.95	<15%	1.07	2060
FB024	1	1925	QHE2X32T8/UNV ISM-SC	Instant	Parallel	28	120	0.25	>.98	<10%	1.19	2290
FB024	1	1925	QHE2X32T8/UNV ISM-SC	Instant	Parallel	29	277	0.13	>.82	<30%	1.19	2290
FB024	1	1925	QTP2X32T8/UNV ISL-SC	Instant	Parallel	24	120	0.21	>.98	<10%	0.93	1790
FB024	1	1925	QTP2X32T8/UNV ISL-SC	Instant	Parallel	24	277	0.09	>.96	<20%	0.93	1790
FB024	1	1925	QTP2X32T8/UNV ISN-SC	Instant	Parallel	28	120	0.23	>.95	<15%	1.06	2040
FB024	1	1925	QTP2X32T8/UNV ISN-SC	Instant	Parallel	28	277	0.11	>.95	<15%	1.06	2040
FB024	1	1925	QHE3X32T8/UNV ISL-SC	Instant	Parallel	26	120	0.22	>.98	<15%	1.05	2020
FB024	1	1925	QHE3X32T8/UNV ISL-SC	Instant	Parallel	27	277	0.10	>.94	<20%	1.05	2020
FB024	1	1925	QHE3X32T8/UNV ISN-SC	Instant	Parallel	28	120	0.25	>.98	<10%	1.19	2290
FB024	1	1925	QHE3X32T8/UNV ISN-SC	Instant	Parallel	29	277	0.13	>.82	<30%	1.19	2290
FB024	1	1925	QTP3X32T8/UNV ISL-SC	Instant	Parallel	28	120	0.22	>.98	<20%	1.04	2000
FB024	1	1925	QTP3X32T8/UNV ISL-SC	Instant	Parallel	28	277	0.11	>.85	<30%	1.04	2000
FB024	1	1925	QTP3X32T8/UNV ISN-SC	Instant	Parallel	31	277	0.12	>.92	<20%	1.19	2290
FB024	1	1925	QTP3X32T8/UNV ISN-SC	Instant	Parallel	31	120	0.26	>.98	<10%	1.19	2290
FB024	1	1925	QHE4X32T8/UNV ISL-SC	Instant	Parallel	30	120	0.25	>.97	<15%	1.17	2250
FB024	1	1925	QHE4X32T8/UNV ISL-SC	Instant	Parallel	30	277	0.12	>.88	<25%	1.17	2250
FB024	1	1925	QTP4X32T8/UNV ISL-SC	Instant	Parallel	28	120	0.23	>.98	<20%	1.08	2080
FB024	1	1925	QTP4X32T8/UNV ISL-SC	Instant	Parallel	28	277	0.12	>.90	<30%	1.08	2080
FB024	1	1925	QHE1X32T8/UNV PSN-MC	PROStart®	Parallel	22	120	0.18	>.98	<10%	0.90	1735
FB024	1	1925	QHE1X32T8/UNV PSN-MC	PROStart	Parallel	22	277	0.08	>.98	<15%	0.90	1735
FB024	1	1925	QHE2X32T8/UNV PSN-MC	PROStart	Parallel	27	120	0.23	>.98	<10%	1.09	2100
FB024	1	1925	QHE2X32T8/UNV PSN-MC	PROStart	Parallel	27	277	0.10	>.95	<15%	1.09	2100
FB024	1	1925	QHE3X32T8/UNV PSN-SC	PROStart	Parallel	30	120	0.25	>.98	<10%	1.15	2215
FB024	1	1925	QHE3X32T8/UNV PSN-SC	PROStart	Parallel	30	277	0.12	>.90	<15%	1.15	2215
FB024	1	1925	QHE4X32T8/UNV PSN-SC	PROStart	Parallel	33	120	0.28	>.98	<15%	1.20	2310
FB024	1	1925	QHE4X32T8/UNV PSN-SC	PROStart	Parallel	33	277	0.13	>.90	<20%	1.20	2310
FB024	1	1925	QHE1X32T8/UNV PSX-MC	PROStart	Parallel	18	120	0.15	>.98	<10%	0.71	1365
FB024	1	1925	QHE1X32T8/UNV PSX-MC	PROStart	Parallel	18	277	0.07	>.97	<10%	0.71	1365
FB024	2	1925	QHE2X32T8/UNV ISL-SC	Instant	Parallel	36	120	0.31	>.98	<10%	0.80	3080
FB024	2	1925	QHE2X32T8/UNV ISL-SC	Instant	Parallel	36	277	0.13	>.98	<15%	0.80	3080
FB024	2	1925	QHE2X32T8/UNV ISN-SC	Instant	Parallel	41	120	0.33	>.98	<15%	0.89	3425
FB024	2	1925	QHE2X32T8/UNV ISN-SC	Instant	Parallel	41	277	0.14	>.98	<15%	0.89	3425
FB024	2	1925	QHE2X32T8/UNV ISM-SC	Instant	Parallel	48	120	0.40	>.98	<10%	1.01	3890
FB024	2	1925	QHE2X32T8/UNV ISM-SC	Instant	Parallel	48	277	0.18	>.95	<15%	1.01	3890
FB024	2	1925	QTP2X32T8/UNV ISL-SC	Instant	Parallel	38	120	0.32	>.98	<10%	0.80	3080
FB024	2	1925	QTP2X32T8/UNV ISL-SC	Instant	Parallel	38	277	0.14	>.98	<10%	0.80	3080
FB024	2	1925	QTP2X32T8/UNV ISN-SC	Instant	Parallel	43	120	0.36	>.98	<15%	0.92	3540
FB024	2	1925	QTP2X32T8/UNV ISN-SC	Instant	Parallel	43	277	0.16	>.98	<15%	0.92	3540
FB024	2	1925	QHE3X32T8/UNV ISL-SC	Instant	Parallel	42	120	0.37	>.95	<20%	0.92	3540
FB024	2	1925	QHE3X32T8/UNV ISL-SC	Instant	Parallel	42	277	0.16	>.95	<20%	0.92	3540
FB024	2	1925	QHE3X32T8/UNV ISN-SC	Instant	Parallel	45	120	0.36	>.95	<20%	1.00	3850
FB024	2	1925	QHE3X32T8/UNV ISN-SC	Instant	Parallel	45	277	0.16	>.95	<20%	1.00	3850
FB024	2	1925	QHE3X32T8/UNV ISM-SC	Instant	Parallel	52	120	0.44	>.98	<10%	1.10	4235
FB024	2	1925	QHE3X32T8/UNV ISM-SC	Instant	Parallel	52	277	0.19	>.95	<15%	1.10	4235
FB024	2	1925	QTP3X32T8/UNV ISL-SC	Instant	Parallel	44	120	0.34	>.98	<10%	0.89	3425
FB024	2	1925	QTP3X32T8/UNV ISL-SC	Instant	Parallel	44	277	0.15	>.97	<10%	0.89	3425
FB024	2	1925	QTP3X32T8/UNV ISN-SC	Instant	Parallel	49	120	0.41	>.95	<20%	1.03	3965
FB024	2	1925	QTP3X32T8/UNV ISN-SC	Instant	Parallel	49	277	0.18	>.95	<20%	1.03	3965

Note: Data above is listed above for QHE ISL, ISN, & ISH models (for Type CC models add "-1" to the model description). For complete details see product specification pages.



U-Shaped CURVALUME® T8 Fluorescent Lamps

QUICKSYSTEMS

System Performance Guide

Lamp Type	# of Lamps	Lamp Lumens	Ballast Description	Start Type	Lamp Circuit	System Watts	Input Volts	Input Amps	Power Factor	THD	Ballast Factor	System Lumens
FB024	2	1925	QHE4X32T8/UNV ISL-SC	Instant	Parallel	45	120	0.37	>.98	<10%	1.00	3850
FB024	2	1925	QHE4X32T8/UNV ISL-SC	Instant	Parallel	45	277	0.17	>.94	<20%	1.00	3850
FB024	2	1925	QHE4X32T8/UNV ISN-SC	Instant	Parallel	52	120	0.43	>.98	<10%	1.10	4235
FB024	2	1925	QHE4X32T8/UNV ISN-SC	Instant	Parallel	52	277	0.19	>.95	<20%	1.10	4235
FB024	2	1925	QHE4X32T8/UNV ISM-SC	Instant	Parallel	54	120	0.45	>.98	<10%	1.14	4390
FB024	2	1925	QHE4X32T8/UNV ISM-SC	Instant	Parallel	54	277	0.20	>.95	<15%	1.14	4390
FB024	2	1925	QTP4X32T8/UNV ISL-SC	Instant	Parallel	44	120	0.38	>.98	<10%	0.95	3660
FB024	2	1925	QTP4X32T8/UNV ISL-SC	Instant	Parallel	44	277	0.17	>.94	<20%	0.95	3660
FB024	2	1925	QTP4X32T8/UNV ISN-SC	Instant	Parallel	50	120	0.42	>.98	<10%	1.08	4160
FB024	2	1925	QTP4X32T8/UNV ISN-SC	Instant	Parallel	50	277	0.18	>.97	<15%	1.08	4160
FB024	2	1925	QHE2X32T8/UNV PSN-MC	PROStart®	Parallel	41	120	0.35	>.98	<10%	0.90	3475
FB024	2	1925	QHE2X32T8/UNV PSN-MC	PROStart	Parallel	41	277	0.15	>.98	<10%	0.90	3475
FB024	2	1925	QHE3X32T8/UNV PSN-SC	PROStart	Parallel	47	120	0.40	>.98	<10%	1.00	3850
FB024	2	1925	QHE3X32T8/UNV PSN-SC	PROStart	Parallel	47	277	0.18	>.95	<10%	1.00	3850
FB024	2	1925	QHE4X32T8/UNV PSN-SC	PROStart	Parallel	51	120	0.43	>.98	<10%	1.06	4080
FB024	2	1925	QHE4X32T8/UNV PSN-SC	PROStart	Parallel	52	277	0.19	>.95	<15%	1.06	4080
FB024	2	1925	QHE2X32T8/UNV PSH-HT	PROStart	Parallel	55	120	0.46	>.95	<10%	1.16	4465
FB024	2	1925	QHE2X32T8/UNV PSH-HT	PROStart	Parallel	55	277	0.2	>.95	<10%	1.16	4465
FB024	2	1925	QHE2X32T8/UNV PSX-MC	PROStart	Parallel	33	120	0.28	>.98	<10%	0.71	2735
FB024	2	1925	QHE2X32T8/UNV PSX-MC	PROStart	Parallel	33	277	0.12	>.98	<10%	0.71	2735
FB024	3	1925	QHE3X32T8/UNV ISL-SC	Instant	Parallel	54	120	0.46	>.98	<10%	0.79	4560
FB024	3	1925	QHE3X32T8/UNV ISL-SC	Instant	Parallel	54	277	0.20	>.96	<10%	0.79	4560
FB024	3	1925	QHE3X32T8/UNV ISN-SC	Instant	Parallel	62	120	0.48	>.96	<15%	0.89	5140
FB024	3	1925	QHE3X32T8/UNV ISN-SC	Instant	Parallel	62	277	0.21	>.96	<15%	0.89	5140
FB024	3	1925	QHE3X32T8/UNV ISM-SC	Instant	Parallel	67	120	0.56	>.98	<10%	0.98	5660
FB024	3	1925	QHE3X32T8/UNV ISM-SC	Instant	Parallel	67	277	0.25	>.98	<15%	0.98	5660
FB024	3	1925	QTP3X32T8/UNV ISL-SC	Instant	Parallel	57	120	0.44	>.98	<10%	0.80	4620
FB024	3	1925	QTP3X32T8/UNV ISL-SC	Instant	Parallel	57	277	0.20	>.98	<10%	0.80	4620
FB024	3	1925	QTP3X32T8/UNV ISN-SC	Instant	Parallel	65	120	0.53	>.96	<15%	0.91	5255
FB024	3	1925	QTP3X32T8/UNV ISN-SC	Instant	Parallel	65	277	0.23	>.96	<15%	0.91	5255
FB024	3	1925	QHE4X32T8/UNV ISL-SC	Instant	Parallel	58	120	0.51	>.95	<10%	0.88	5080
FB024	3	1925	QHE4X32T8/UNV ISL-SC	Instant	Parallel	58	277	0.22	>.95	<15%	0.88	5080
FB024	3	1925	QHE4X32T8/UNV ISN-SC	Instant	Parallel	67	120	0.50	>.95	<15%	0.97	5600
FB024	3	1925	QHE4X32T8/UNV ISN-SC	Instant	Parallel	67	277	0.22	>.95	<15%	0.97	5600
FB024	3	1925	QHE4X32T8/UNV ISM-SC	Instant	Parallel	72	120	0.60	>.98	<10%	1.05	6065
FB024	3	1925	QHE4X32T8/UNV ISM-SC	Instant	Parallel	72	277	0.27	>.95	<15%	1.05	6065
FB024	3	1925	QTP4X32T8/UNV ISL-SC	Instant	Parallel	58	120	0.46	>.98	<10%	0.86	4965
FB024	3	1925	QTP4X32T8/UNV ISL-SC	Instant	Parallel	58	277	0.21	>.96	<20%	0.86	4965
FB024	3	1925	QTP4X32T8/UNV ISN-SC	Instant	Parallel	67	120	0.55	>.95	<15%	0.98	5660
FB024	3	1925	QTP4X32T8/UNV ISN-SC	Instant	Parallel	67	277	0.25	>.95	<15%	0.98	5660
FB024	3	1925	QHE3X32T8/UNV PSN-SC	PROStart	Parallel	61	120	0.52	>.98	<10%	0.89	5140
FB024	3	1925	QHE3X32T8/UNV PSN-SC	PROStart	Parallel	60	277	0.23	>.98	<10%	0.89	5140
FB024	3	1925	QHE4X32T8/UNV PSN-SC	PROStart	Parallel	68	120	0.57	>.98	<10%	0.97	5600
FB024	3	1925	QHE4X32T8/UNV PSN-SC	PROStart	Parallel	67	277	0.25	>.95	<15%	0.97	5600
FB024	3	1925	QHE3X32T8/UNV PSH-HT	PROStart	Parallel	83	120	0.70	>.98	<10%	1.17	6755
FB024	3	1925	QHE3X32T8/UNV PSH-HT	PROStart	Parallel	82	277	0.30	>.98	<10%	1.17	6755
FB024	3	1925	QTP3X32T8/UNV PSX-SC	PROStart	Series	54	120	0.45	>.98	<10%	0.71	4100
FB024	3	1925	QTP3X32T8/UNV PSX-SC	PROStart	Series	53	277	0.20	>.98	<10%	0.71	4100
FB024	4	1925	QHE4X32T8/UNV ISL-SC	Instant	Parallel	71	120	0.61	>.97	<15%	0.79	6085
FB024	4	1925	QHE4X32T8/UNV ISL-SC	Instant	Parallel	71	277	0.26	>.97	<15%	0.79	6085
FB024	4	1925	QHE4X32T8/UNV ISN-SC	Instant	Parallel	81	120	0.61	>.97	<15%	0.87	6700
FB024	4	1925	QHE4X32T8/UNV ISN-SC	Instant	Parallel	81	277	0.27	>.97	<15%	0.87	6700
FB024	4	1925	QHE4X32T8/UNV ISM-SC	Instant	Parallel	88	120	0.74	>.98	<10%	0.97	7470
FB024	4	1925	QHE4X32T8/UNV ISM-SC	Instant	Parallel	88	277	0.32	>.98	<10%	0.97	7470
FB024	4	1925	QTP4X32T8/UNV ISL-SC	Instant	Parallel	74	120	0.56	>.98	<10%	0.80	6160
FB024	4	1925	QTP4X32T8/UNV ISL-SC	Instant	Parallel	74	277	0.25	>.97	<20%	0.80	6160
FB024	4	1925	QTP4X32T8/UNV ISN-SC	Instant	Parallel	84	120	0.67	>.97	<15%	0.90	6930
FB024	4	1925	QTP4X32T8/UNV ISN-SC	Instant	Parallel	84	277	0.29	>.97	<15%	0.90	6930
FB024	4	1925	QHE4X32T8/UNV PSN-SC	PROStart	Parallel	82	120	0.69	>.98	<10%	0.90	6930
FB024	4	1925	QHE4X32T8/UNV PSN-SC	PROStart	Parallel	80	277	0.30	>.98	<10%	0.90	6930
FB024	4	1925	QHE4X32T8/UNV PSH-HT	PROStart	Parallel	107	120	0.91	>.98	<10%	1.17	9010
FB024	4	1925	QHE4X32T8/UNV PSH-HT	PROStart	Parallel	106	277	0.4	>.98	<10%	1.17	9010
FB024	4	1925	QHE4X32T8/UNV PSX-SC	PROStart	Parallel	68	120	0.56	>.98	<10%	0.70	5390
FB024	4	1925	QHE4X32T8/UNV PSX-SC	PROStart	Parallel	67	277	0.25	>.98	<10%	0.70	5390

Note: Data above is listed above for QHE ISL, ISN, & ISH models (for Type CC models add "-1" to the model description). For complete details see product specification pages.

System Performance Guide

Lamp Type	# of Lamps	Lamp Lumens	Ballast Description	Start Type	Lamp Circuit	System Watts	Input Volts	Input Amps	Power Factor	THD	Ballast Factor	System Lumens
FB016	1	1125	QHE1X32T8/UNV ISL-SC	Instant	Parallel	13	120	0.11	>.97	<10%	0.80	900
FB016	1	1125	QHE1X32T8/UNV ISL-SC	Instant	Parallel	13	277	0.05	>.88	<15%	0.80	900
FB016	1	1125	QHE1X32T8/UNV ISN-SC	Instant	Parallel	16	120	0.13	>.97	<15%	0.90	1015
FB016	1	1125	QHE1X32T8/UNV ISN-SC	Instant	Parallel	16	277	0.06	>.97	<15%	0.90	1015
FB016	1	1125	QTP1X32T8/UNV ISL-SC	Instant	Parallel	14	120	0.11	>.98	<10%	0.81	910
FB016	1	1125	QTP1X32T8/UNV ISL-SC	Instant	Parallel	14	277	0.05	>.97	<20%	0.81	910
FB016	1	1125	QTP1X32T8/UNV ISN-SC	Instant	Parallel	17	120	0.14	>.97	<15%	0.92	1035
FB016	1	1125	QTP1X32T8/UNV ISN-SC	Instant	Parallel	17	277	0.07	>.97	<15%	0.92	1035
FB016	1	1125	QHE2X32T8/UNV ISL-SC	Instant	Parallel	16	120	0.14	>.98	<20%	0.98	1105
FB016	1	1125	QHE2X32T8/UNV ISL-SC	Instant	Parallel	16	277	0.07	>.88	<20%	0.98	1105
FB016	1	1125	QHE2X32T8/UNV ISN-SC	Instant	Parallel	18	120	0.16	>.98	<10%	1.08	1215
FB016	1	1125	QHE2X32T8/UNV ISN-SC	Instant	Parallel	18	277	0.08	>.87	<20%	1.08	1215
FB016	1	1125	QHE2X32T8/UNV ISM-SC	Instant	Parallel	21	120	0.18	>.98	<15%	1.20	1350
FB016	1	1125	QHE2X32T8/UNV ISM-SC	Instant	Parallel	22	277	0.09	>.90	<20%	1.20	1350
FB016	1	1125	QTP2X32T8/UNV ISL-SC	Instant	Parallel	18	120	0.15	>.98	<20%	0.94	1060
FB016	1	1125	QTP2X32T8/UNV ISL-SC	Instant	Parallel	18	277	0.07	>.94	<20%	0.94	1060
FB016	1	1125	QTP2X32T8/UNV ISN-SC	Instant	Parallel	18	120	0.15	>.98	<15%	1.06	1195
FB016	1	1125	QTP2X32T8/UNV ISN-SC	Instant	Parallel	18	277	0.08	>.82	<30%	1.06	1195
FB016	1	1125	QHE3X32T8/UNV ISL-SC	Instant	Parallel	19	120	0.16	>.98	<20%	1.06	1195
FB016	1	1125	QHE3X32T8/UNV ISL-SC	Instant	Parallel	19	277	0.08	>.90	<20%	1.06	1195
FB016	1	1125	QHE3X32T8/UNV ISN-SC	Instant	Parallel	20	120	0.19	>.89	<10%	1.20	1350
FB016	1	1125	QHE3X32T8/UNV ISN-SC	Instant	Parallel	21	277	0.10	>.74	<35%	1.20	1350
FB016	1	1125	QTP3X32T8/UNV ISL-SC	Instant	Parallel	20	120	0.16	>.98	<20%	1.05	1180
FB016	1	1125	QTP3X32T8/UNV ISL-SC	Instant	Parallel	20	277	0.09	>.73	<55%	1.05	1180
FB016	1	1125	QTP3X32T8/UNV ISN-SC	Instant	Parallel	22	277	0.09	>.87	<30%	1.20	1350
FB016	1	1125	QTP3X32T8/UNV ISN-SC	Instant	Parallel	22	120	0.18	>.98	<15%	1.20	1350
FB016	1	1125	QHE4X32T8/UNV ISL-SC	Instant	Parallel	21	120	0.18	>.98	<20%	1.19	1340
FB016	1	1125	QHE4X32T8/UNV ISL-SC	Instant	Parallel	21	277	0.09	>.83	<40%	1.19	1340
FB016	1	1125	QTP4X32T8/UNV ISL-SC	Instant	Parallel	21	120	0.17	>.98	<20%	1.09	1225
FB016	1	1125	QTP4X32T8/UNV ISL-SC	Instant	Parallel	21	277	0.09	>.82	<40%	1.09	1225
FB016	1	1125	QHE1X32T8/UNV PSN-MC	PROStart®	Parallel	15	120	0.13	>.98	<10%	0.91	1025
FB016	1	1125	QHE1X32T8/UNV PSN-MC	PROStart	Parallel	15	277	0.06	>.95	<15%	0.91	1025
FB016	1	1125	QHE2X32T8/UNV PSN-MC	PROStart	Parallel	19	120	0.16	>.98	<15%	1.10	1240
FB016	1	1125	QHE2X32T8/UNV PSN-MC	PROStart	Parallel	19	277	0.08	>.90	<15%	1.10	1240
FB016	1	1125	QHE3X32T8/UNV PSN-SC	PROStart	Parallel	21	120	0.18	>.98	<15%	1.16	1305
FB016	1	1125	QHE3X32T8/UNV PSN-SC	PROStart	Parallel	22	277	0.10	>.85	<20%	1.16	1305
FB016	1	1125	QHE1X32T8/UNV PSX-MC	PROStart	Parallel	12	120	0.10	>.98	<10%	0.70	790
FB016	1	1125	QHE1X32T8/UNV PSX-MC	PROStart	Parallel	12	277	0.05	>.94	<10%	0.70	790
FB016	2	1125	QHE2X32T8/UNV ISL-SC	Instant	Parallel	24	120	0.21	>.95	<10%	0.81	1825
FB016	2	1125	QHE2X32T8/UNV ISL-SC	Instant	Parallel	24	277	0.09	>.95	<15%	0.81	1825
FB016	2	1125	QHE2X32T8/UNV ISN-SC	Instant	Parallel	28	120	0.23	>.95	<15%	0.90	2025
FB016	2	1125	QHE2X32T8/UNV ISN-SC	Instant	Parallel	28	277	0.10	>.95	<15%	0.90	2025
FB016	2	1125	QHE2X32T8/UNV ISM-SC	Instant	Parallel	33	120	0.28	>.98	<10%	1.03	2320
FB016	2	1125	QHE2X32T8/UNV ISM-SC	Instant	Parallel	33	277	0.13	>.95	<15%	1.03	2320
FB016	2	1125	QTP2X32T8/UNV ISL-SC	Instant	Parallel	25	120	0.23	>.98	<10%	0.81	1825
FB016	2	1125	QTP2X32T8/UNV ISL-SC	Instant	Parallel	25	277	0.10	>.96	<20%	0.81	1825
FB016	2	1125	QTP2X32T8/UNV ISN-SC	Instant	Parallel	31	120	0.26	>.95	<15%	0.93	2095
FB016	2	1125	QTP2X32T8/UNV ISN-SC	Instant	Parallel	31	277	0.12	>.95	<15%	0.93	2095
FB016	2	1125	QHE3X32T8/UNV ISL-SC	Instant	Parallel	28	120	0.23	>.98	<15%	0.90	2025
FB016	2	1125	QHE3X32T8/UNV ISL-SC	Instant	Parallel	28	277	0.11	>.94	<20%	0.90	2025
FB016	2	1125	QHE3X32T8/UNV ISN-SC	Instant	Parallel	32	120	0.27	>.98	<10%	1.01	2275
FB016	2	1125	QHE3X32T8/UNV ISN-SC	Instant	Parallel	32	277	0.12	>.93	<25%	1.01	2275
FB016	2	1125	QHE3X32T8/UNV ISM-SC	Instant	Parallel	34	120	0.30	>.98	<15%	1.08	2430
FB016	2	1125	QHE3X32T8/UNV ISM-SC	Instant	Parallel	34	277	0.14	>.95	<15%	1.08	2430
FB016	2	1125	QTP3X32T8/UNV ISL-SC	Instant	Parallel	30	120	0.23	>.98	<20%	0.93	2095
FB016	2	1125	QTP3X32T8/UNV ISL-SC	Instant	Parallel	30	277	0.12	>.89	<30%	0.93	2095
FB016	2	1125	QTP3X32T8/UNV ISN-SC	Instant	Parallel	33	120	0.27	>.98	<10%	1.02	2295
FB016	2	1125	QTP3X32T8/UNV ISN-SC	Instant	Parallel	33	277	0.13	>.93	<15%	1.02	2295
FB016	2	1125	QHE4X32T8/UNV ISL-SC	Instant	Parallel	32	120	0.27	>.98	<15%	1.00	2250
FB016	2	1125	QHE4X32T8/UNV ISL-SC	Instant	Parallel	32	277	0.13	>.90	<20%	1.00	2250
FB016	2	1125	QHE4X32T8/UNV ISN-SC	Instant	Parallel	34	120	0.30	>.98	<20%	1.13	2545
FB016	2	1125	QHE4X32T8/UNV ISN-SC	Instant	Parallel	34	277	0.14	>.93	<20%	1.13	2545

Note: Data above is listed above for QHE ISL, ISN, & ISH models (for Type CC models add "-1" to the model description). For complete details see product specification pages.



U-Shaped CURVALUME® T8 Fluorescent Lamps

System Performance Guide

Lamp Type	# of Lamps	Lamp Lumens	Ballast Description	Start Type	Lamp Circuit	System Watts	Input Volts	Input Amps	Power Factor	THD	Ballast Factor	System Lumens
FB016	2	1125	QHE4X32T8/UNV ISM-SC	Instant	Parallel	37	120	0.31	>.98	<15%	1.13	2545
FB016	2	1125	QHE4X32T8/UNV ISM-SC	Instant	Parallel	38	277	0.15	>.90	<15%	1.13	2545
FB016	2	1125	QTP4X32T8/UNV ISL-SC	Instant	Parallel	31	120	0.26	>.98	<10%	0.96	2160
FB016	2	1125	QTP4X32T8/UNV ISL-SC	Instant	Parallel	31	277	0.11	>.92	<30%	0.96	2160
FB016	2	1125	QTP4X32T8/UNV ISN-SC	Instant	Parallel	34	120	0.28	>.98	<15%	1.10	2475
FB016	2	1125	QTP4X32T8/UNV ISN-SC	Instant	Parallel	34	277	0.13	>.95	<20%	1.10	2475
FB016	2	1125	QHE2X32T8/UNV PSN-MC	PROStart®	Parallel	28	120	0.24	>.98	<10%	0.91	2055
FB016	2	1125	QHE2X32T8/UNV PSN-MC	PROStart	Parallel	28	277	0.11	>.95	<15%	0.91	2055
FB016	2	1125	QHE3X32T8/UNV PSN-SC	PROStart	Parallel	32	120	0.27	>.98	<10%	1.01	2275
FB016	2	1125	QHE3X32T8/UNV PSN-SC	PROStart	Parallel	32	277	0.13	>.90	<15%	1.01	2275
FB016	2	1125	QHE4X32T8/UNV PSN-SC	PROStart	Parallel	35	120	0.30	>.98	<15%	1.08	2430
FB016	2	1125	QHE4X32T8/UNV PSN-SC	PROStart	Parallel	36	277	0.14	>.90	<15%	1.08	2430
FB016	2	1125	QHE2X32T8/UNV PSX-HT	PROStart	Parallel	38	120	0.32	>.98	<10%	1.17	2635
FB016	2	1125	QHE2X32T8/UNV PSX-HT	PROStart	Parallel	38	277	0.14	>.98	<10%	1.17	2635
FB016	2	1125	QHE2X32T8/UNV PSX-MC	PROStart	Parallel	22	120	0.18	>.98	<10%	0.70	1575
FB016	2	1125	QHE2X32T8/UNV PSX-MC	PROStart	Parallel	22	277	0.08	>.95	<15%	0.70	1575
FB016	3	1125	QHE3X32T8/UNV ISL-SC	Instant	Parallel	36	120	0.31	>.98	<10%	0.80	2700
FB016	3	1125	QHE3X32T8/UNV ISL-SC	Instant	Parallel	36	277	0.14	>.95	<15%	0.80	2700
FB016	3	1125	QHE3X32T8/UNV ISN-SC	Instant	Parallel	42	120	0.33	>.94	<20%	0.90	3040
FB016	3	1125	QHE3X32T8/UNV ISN-SC	Instant	Parallel	41	277	0.15	>.94	<20%	0.90	3040
FB016	3	1125	QHE3X32T8/UNV ISM-SC	Instant	Parallel	45	120	0.38	>.98	<15%	0.98	3310
FB016	3	1125	QHE3X32T8/UNV ISM-SC	Instant	Parallel	45	277	0.17	>.95	<15%	0.98	3310
FB016	3	1125	QTP3X32T8/UNV ISL-SC	Instant	Parallel	38	120	0.30	>.98	<10%	0.81	2735
FB016	3	1125	QTP3X32T8/UNV ISL-SC	Instant	Parallel	38	277	0.14	>.96	<20%	0.81	2735
FB016	3	1125	QTP3X32T8/UNV ISN-SC	Instant	Parallel	43	120	0.38	>.94	<20%	0.93	3140
FB016	3	1125	QTP3X32T8/UNV ISN-SC	Instant	Parallel	43	277	0.17	>.94	<20%	0.93	3140
FB016	3	1125	QHE4X32T8/UNV ISL-SC	Instant	Parallel	40	120	0.34	>.98	<15%	0.88	2970
FB016	3	1125	QHE4X32T8/UNV ISL-SC	Instant	Parallel	40	277	0.16	>.90	<20%	0.88	2970
FB016	3	1125	QHE4X32T8/UNV ISN-SC	Instant	Parallel	45	120	0.35	>.95	<20%	0.98	3310
FB016	3	1125	QHE4X32T8/UNV ISN-SC	Instant	Parallel	45	277	0.15	>.95	<20%	0.98	3310
FB016	3	1125	QHE4X32T8/UNV ISM-SC	Instant	Parallel	49	120	0.41	>.98	<10%	1.04	3510
FB016	3	1125	QHE4X32T8/UNV ISM-SC	Instant	Parallel	49	277	0.18	>.95	<15%	1.04	3510
FB016	3	1125	QTP4X32T8/UNV ISL-SC	Instant	Parallel	41	120	0.33	>.98	<10%	0.87	2935
FB016	3	1125	QTP4X32T8/UNV ISL-SC	Instant	Parallel	41	277	0.16	>.92	<30%	0.87	2935
FB016	3	1125	QTP4X32T8/UNV ISN-SC	Instant	Parallel	45	120	0.40	>.95	<20%	0.99	3340
FB016	3	1125	QTP4X32T8/UNV ISN-SC	Instant	Parallel	45	277	0.18	>.95	<20%	0.99	3340
FB016	3	1125	QHE3X32T8/UNV PSN-SC	PROStart	Parallel	41	120	0.35	>.98	<10%	0.90	3040
FB016	3	1125	QHE3X32T8/UNV PSN-SC	PROStart	Parallel	41	277	0.16	>.95	<15%	0.90	3040
FB016	3	1125	QHE4X32T8/UNV PSN-SC	PROStart	Parallel	46	120	0.39	>.98	<10%	0.98	3310
FB016	3	1125	QHE4X32T8/UNV PSN-SC	PROStart	Parallel	46	277	0.17	>.95	<15%	0.98	3310
FB016	3	1125	QHE3X32T8/UNV PSX-HT	PROStart	Parallel	56	120	0.48	>.98	<10%	1.18	3985
FB016	3	1125	QHE3X32T8/UNV PSX-HT	PROStart	Parallel	56	277	0.21	>.98	<10%	1.18	3985
FB016	3	1125	QHE3X32T8/UNV PSX-SC	PROStart	Parallel	35	120	0.29	>.98	<10%	0.70	2365
FB016	3	1125	QHE3X32T8/UNV PSX-SC	PROStart	Parallel	35	277	0.13	>.95	<10%	0.70	2365
FB016	4	1125	QHE4X32T8/UNV ISL-SC	Instant	Parallel	48	120	0.42	>.95	<20%	0.81	3645
FB016	4	1125	QHE4X32T8/UNV ISL-SC	Instant	Parallel	48	277	0.18	>.95	<20%	0.81	3645
FB016	4	1125	QHE4X32T8/UNV ISN-SC	Instant	Parallel	54	120	0.43	>.95	<20%	0.90	4050
FB016	4	1125	QHE4X32T8/UNV ISN-SC	Instant	Parallel	54	277	0.19	>.95	<20%	0.90	4050
FB016	4	1125	QHE4X32T8/UNV ISM-SC	Instant	Parallel	58	120	0.49	>.98	<10%	0.96	4320
FB016	4	1125	QHE4X32T8/UNV ISM-SC	Instant	Parallel	59	277	0.22	>.98	<15%	0.96	4320
FB016	4	1125	QTP4X32T8/UNV ISL-SC	Instant	Parallel	49	120	0.41	>.98	<10%	0.81	3645
FB016	4	1125	QTP4X32T8/UNV ISL-SC	Instant	Parallel	49	277	0.19	>.95	<20%	0.81	3645
FB016	4	1125	QTP4X32T8/UNV ISN-SC	Instant	Parallel	56	120	0.48	>.95	<20%	0.91	4095
FB016	4	1125	QTP4X32T8/UNV ISN-SC	Instant	Parallel	56	277	0.21	>.95	<20%	0.91	4095
FB016	4	1125	QHE4X32T8/UNV PSN-SC	PROStart	Parallel	54	120	0.46	>.98	<10%	0.91	4095
FB016	4	1125	QHE4X32T8/UNV PSN-SC	PROStart	Parallel	54	277	0.20	>.95	<15%	0.91	4095
FB016	4	1125	QHE4X32T8/UNV PSX-HT	PROStart	Parallel	73	120	0.63	>.98	<10%	1.18	5310
FB016	4	1125	QHE4X32T8/UNV PSX-HT	PROStart	Parallel	73	277	0.28	>.98	<10%	1.18	5310
FB016	4	1125	QHE4X32T8/UNV PSX-SC	PROStart	Parallel	43	120	0.36	>.98	<10%	0.70	3150
FB016	4	1125	QHE4X32T8/UNV PSX-SC	PROStart	Parallel	43	277	0.16	>.97	<10%	0.70	3150

Note: Data above is listed above for QHE ISL, ISN, & ISH models (for Type CC models add "-1" to the model description). For complete details see product specification pages.

2ft/3ft/4ft/5ft T5

QUICKSYSTEMS

T5 Linear Fluorescent Lamps

As the industry's leading systems company, OSRAM SYLVANIA offers the most comprehensive data on how QUICKTRONIC® electronic ballasts will perform with various combinations of lamps.

System Performance Guide

Lamp Type	# of Lamps	Lamp Lumens	Ballast Description	Start Type	Lamp Circuit	System Watts	Input Volts	Input Amps	Power Factor	THD	Ballast Factor	System Lumens
FP35T5	1	3650	QTP2X28T5/UNV PSN	PROStart®	Series	38	120	0.32	>.98	<10%	0.97	3540
FP35T5	1	3650	QTP2X28T5/UNV PSN	PROStart	Series	38	277	0.14	>.97	<10%	0.97	3540
FP35T5	2	3650	QTP2X28T5/UNV PSN	PROStart	Series	80	120	0.67	>.98	<10%	1.00	7300
FP35T5	2	3650	QTP2X28T5/UNV PSN	PROStart	Series	78	277	0.28	>.98	<10%	1.00	7300
FP28T5	1	2900	QTP2X28T5/UNV PSN	PROStart	Series	32	120	0.27	>.98	<10%	1.00	2900
FP28T5	1	2900	QTP2X28T5/UNV PSN	PROStart	Series	32	277	0.12	>.96	<15%	1.00	2900
FP28T5	2	2900	QTP2X28T5/UNV PSN	PROStart	Series	65	120	0.55	>.98	<10%	1.00	5800
FP28T5	2	2900	QTP2X28T5/UNV PSN	PROStart	Series	63	277	0.23	>.98	<10%	1.00	5800
FP21T5	1	2100	QTP2X28T5/UNV PSN	PROStart	Series	23	120	0.23	>.98	<10%	0.99	2080
FP21T5	1	2100	QTP2X28T5/UNV PSN	PROStart	Series	24	277	0.09	>.93	<20%	0.99	2080
FP21T5	2	2100	QTP2X28T5/UNV PSN	PROStart	Series	47	120	0.40	>.98	<10%	1.00	4200
FP21T5	2	2100	QTP2X28T5/UNV PSN	PROStart	Series	47	277	0.17	>.98	<10%	1.00	4200
FP14T5	1	1350	QTP2X28T5/UNV PSN	PROStart	Series	16	120	0.14	>.98	<10%	0.99	1335
FP14T5	1	1350	QTP2X28T5/UNV PSN	PROStart	Series	17	277	0.06	>.95	<20%	0.99	1335
FP14T5	2	1350	QTP2X28T5/UNV PSN	PROStart	Series	32	120	0.27	>.98	<10%	1.00	2700
FP14T5	2	1350	QTP2X28T5/UNV PSN	PROStart	Series	32	277	0.12	>.96	<15%	1.00	2700

Customers should always consider upgrading to our **High Efficiency Systems** to maximize energy savings.
Our **QHE T5** and **T5HO Systems** can be found on pages 62-77 of this Specification Guide.



T5HO Linear Fluorescent Lamps

QUICKSYSTEMS

System Performance Guide

Lamp Type	# of Lamps	Lamp Lumens	Ballast Description	Start Type	Lamp Circuit	System Watts	Input Volts	Input Amps	Power Factor	THD	Ballast Factor	System Lumens
FP80T5HO	1	7000	QTP1X80T5HO/UNV PSN	PROStart®	Series	90	120	0.74	>.98	<10%	1.00	7000
FP80T5HO	1	7000	QTP1X80T5HO/UNV PSN	PROStart	Series	90	277	0.32	>.98	<10%	1.00	7000
FP54T5HO	1	5000	QTP1X54T5HO/UNV PSN	PROStart	Series	62	120	0.51	>.98	<10%	1.00	5000
FP54T5HO	1	5000	QTP1X54T5HO/UNV PSN	PROStart	Series	60	277	0.21	>.97	<10%	1.00	5000
FP54T5HO	1	5000	QTP2X54T5HO/UNV PSN	PROStart	Series	61	120	0.50	>.98	<10%	1.00	5000
FP54T5HO	1	5000	QTP2X54T5HO/UNV PSN	PROStart	Series	61	277	0.24	>.90	<15%	1.00	5000
FP54T5HO	1	5000	QT1x54/120 PHO-DIM(@100%)	PROStart	Series	62	120	0.54	>.98	<10%	1.00	5000
FP54T5HO	1	5000	QT1x54/120 PHO-DIM(@1%)	PROStart	Series	8	—	—	—	—	0.01	50
FP54T5HO	1	5000	QT1x54/277 PHO-DIM(@100%)	PROStart	Series	61	277	0.23	>.98	<10%	1.00	5000
FP54T5HO	1	5000	QT1x54/277 PHO-DIM(@1%)	PROStart	Series	8	—	—	—	—	0.01	50
FP54T5HO	1	5000	QTP2X54T5HO/UNV PSN HT	PROStart	Series	61	120	0.50	>.98	<10%	1.00	5000
FP54T5HO	1	5000	QTP2X54T5HO/UNV PSN HT	PROStart	Series	61	277	0.24	>.90	<15%	1.00	5000
FP54T5HO	1	5000	QTP4X54T5HO/UNV PSN HTW	PROStart	Series	61	120	0.50	>.98	<10%	1.00	5000
FP54T5HO	1	5000	QTP4X54T5HO/UNV PSN HTW	PROStart	Series	61	277	0.24	>.90	<15%	1.00	5000
FP54T5HO	1	5000	QTP2X54T5HO/347-480 PSN HT	PROStart	Series	61	347	0.17	>.95	<15%	1.00	5000
FP54T5HO	1	5000	QTP2X54T5HO/347-480 PSN HT	PROStart	Series	61	480	0.12	>.97	<15%	1.00	5000
FP54T5HO	2	5000	QTP2X54T5HO/UNV PSN	PROStart	Series	121	120	1.00	>.98	<10%	1.00	10000
FP54T5HO	2	5000	QTP2X54T5HO/UNV PSN	PROStart	Series	118	277	0.43	>.97	<10%	1.00	10000
FP54T5HO	2	5000	QT2x54/120 PHO-DIM(@100%)	PROStart	Series	120	120	1.07	>.98	<10%	1.00	10000
FP54T5HO	2	5000	QT2x54/120 PHO-DIM(@1%)	PROStart	Series	18	—	—	—	—	0.01	100
FP54T5HO	2	5000	QT2x54/277 PHO-DIM(@100%)	PROStart	Series	117	277	0.45	>.98	<10%	1.00	10000
FP54T5HO	2	5000	QT2x54/277 PHO-DIM(@1%)	PROStart	Series	18	—	—	—	—	0.01	100
FP54T5HO	2	5000	QTP2X54T5HO/UNV PSN HT	PROStart	Series	121	120	1.00	>.98	<10%	1.00	10000
FP54T5HO	2	5000	QTP2X54T5HO/UNV PSN HT	PROStart	Series	118	277	0.43	>.97	<10%	1.00	10000
FP54T5HO	2	5000	QTP4X54T5HO/UNV PSN HTW	PROStart	Series	121	120	1.00	>.98	<10%	1.00	10000
FP54T5HO	2	5000	QTP4X54T5HO/UNV PSN HTW	PROStart	Series	118	277	0.43	>.97	<10%	1.00	10000
FP54T5HO	2	5000	QTP2X54T5HO/347-480 PSN HT	PROStart	Series	121	347	0.35	>.98	<10%	1.00	10000
FP54T5HO	2	5000	QTP2X54T5HO/347-480 PSN HT	PROStart	Series	120	480	0.25	>.98	<10%	1.00	10000
FP54T5HO	3	5000	QTP4X54T5HO/UNV PSN HTW	PROStart	Series	182	120	1.49	>.97	<10%	1.00	15000
FP54T5HO	3	5000	QTP4X54T5HO/UNV PSN HTW	PROStart	Series	178	277	0.63	>.97	<10%	1.00	15000
FP54T5HO	4	5000	QTP4X54T5HO/UNV PSN HTW	PROStart	Series	241	120	2.00	>.98	<10%	1.00	20000
FP54T5HO	4	5000	QTP4X54T5HO/UNV PSN HTW	PROStart	Series	236	277	0.90	>.96	<10%	1.00	20000

Customers should always consider upgrading to our **High Efficiency Systems** to maximize energy savings.

Our **QHE T5** and **T5HO Systems** can be found on pages 62-77 of this Specification Guide.

TT5/T5/T5HO CIRCLINE

QUICKSYSTEMS

TT5/T5/T5HO FPC Circline

As the industry's leading systems company, OSRAM SYLVANIA offers the most comprehensive data on how QUICKTRONIC® electronic ballasts will perform with various combinations of lamps.

System Performance Guide

Lamp Type	# of Lamps	Lamp Lumens	Ballast Description	Start Type	Lamp Circuit	System Watts	Input Volts	Input Amps	Power Factor	THD	Ballast Factor	System Lumens
FT24DF	1	1700	QTP2X26CF/UNV DM	PROStart®	Series	26	120	0.22	>.98	<10%	0.92	1565
FT24DF	1	1700	QTP2X26CF/UNV DM	PROStart	Series	26	277	0.09	>.98	<10%	0.92	1565
FT24DL	1	1800	QTP2X26CF/UNV DM	PROStart	Series	26	120	0.22	>.98	<10%	0.92	1655
FT24DL	1	1800	QTP2X26CF/UNV DM	PROStart	Series	25	277	0.09	>.98	<15%	0.92	1655
FT24DF	2	1700	QTP2X26CF/UNV DM	PROStart	Series	50	120	0.42	>.98	<10%	0.91	3095
FT24DF	2	1700	QTP2X26CF/UNV DM	PROStart	Series	47	277	0.17	>.98	<10%	0.91	3095
FT24DL	2	1800	QTP2X26CF/UNV DM	PROStart	Series	50	120	0.42	>.98	<10%	0.91	3275
FT24DL	2	1800	QTP2X26CF/UNV DM	PROStart	Series	47	277	0.17	>.98	<10%	0.91	3275
FT18DF	2	1250	QTP2X26CF/UNV DM	PROStart	Series	35	120	0.29	>.98	<10%	0.86	2150
FT18DF	2	1250	QTP2X26CF/UNV DM	PROStart	Series	34	277	0.12	>.98	<15%	0.86	2150
FT18DL	2	1250	QTP2X26CF/UNV DM	PROStart	Series	35	120	0.29	>.98	<10%	0.86	2150
FT18DL	2	1250	QTP2X26CF/UNV DM	PROStart	Series	34	277	0.12	>.98	<15%	0.86	2150
FPC55HO	1	4000	QT1x54/120 PHO-DIM(@100%)	PROStart	Series	62	120	0.52	>.98	<10%	0.98	3920
FPC55HO	1	4000	QT1x54/120 PHO-DIM(@1%)	PROStart	Series	8	—	—	—	—	0.01	40
FPC55HO	1	4000	QT1x54/277 PHO-DIM(@100%)	PROStart	Series	61	277	0.22	>.98	<10%	0.98	3920
FPC55HO	1	4000	QT1x54/277 PHO-DIM(@1%)	PROStart	Series	8	—	—	—	—	0.01	40
FPC55HO	1	4000	QTP1X54T5HO/UNV PSN	PROStart	Series	61	120	0.52	>.98	<10%	1.00	4000
FPC55HO	1	4000	QTP1X54T5HO/UNV PSN	PROStart	Series	58	277	0.22	>.97	<10%	1.00	4000
FPC55HO	1	4000	QTP2X54T5HO/UNV PSN	PROStart	Series	57	120	0.48	>.98	<10%	0.89	3560
FPC55HO	1	4000	QTP2X54T5HO/UNV PSN	PROStart	Series	57	277	0.23	>.85	<15%	0.89	3560
FPC55HO	1	4000	QTP2X54T5HO/UNV PSN HT	PROStart	Series	57	120	0.48	>.98	<10%	0.89	3560
FPC55HO	1	4000	QTP2X54T5HO/UNV PSN HT	PROStart	Series	57	277	0.23	>.85	<15%	0.89	3560
FPC55HO	1	4000	QTP4X54T5HO/UNV PSN HTW	PROStart	Series	57	120	0.48	>.98	<10%	0.89	3560
FPC55HO	1	4000	QTP4X54T5HO/UNV PSN HTW	PROStart	Series	57	277	0.23	>.85	<15%	0.89	3560
FPC55HO	2	4000	QTP2X54T5HO/UNV PSN	PROStart	Series	111	120	0.93	>.98	<10%	0.89	7120
FPC55HO	2	4000	QTP2X54T5HO/UNV PSN	PROStart	Series	108	277	0.40	>.97	<10%	0.89	7120
FPC55HO	2	4000	QTP2X54T5HO/UNV PSN HT	PROStart	Series	111	120	0.93	>.98	<10%	0.89	7120
FPC55HO	2	4000	QTP2X54T5HO/UNV PSN HT	PROStart	Series	108	277	0.40	>.97	<10%	0.89	7120
FPC55HO	2	4000	QTP4X54T5HO/UNV PSN HTW	PROStart	Series	111	120	0.93	>.98	<10%	0.89	7120
FPC55HO	2	4000	QTP4X54T5HO/UNV PSN HTW	PROStart	Series	108	277	0.40	>.97	<10%	0.89	7120
FPC55HO	2	4000	QT2x54/120 PHO-DIM(@100%)	PROStart	Series	120	120	1.00	>.98	<10%	0.98	7840
FPC55HO	2	4000	QT2x54/120 PHO-DIM(@1%)	PROStart	Series	18	—	—	—	—	0.01	80
FPC55HO	2	4000	QT2x54/277 PHO-DIM(@100%)	PROStart	Series	117	277	0.45	>.98	<10%	0.98	7840
FPC55HO	2	4000	QT2x54/277 PHO-DIM(@1%)	PROStart	Series	18	—	—	—	—	0.01	80
FPC55HO	3	4000	QTP4X54T5HO/UNV PSN HTW	PROStart	Series	169	120	1.38	>.97	<10%	0.89	10680
FPC55HO	3	4000	QTP4X54T5HO/UNV PSN HTW	PROStart	Series	166	277	0.59	>.97	<15%	0.89	10680
FPC55HO	4	4000	QTP4X54T5HO/UNV PSN HTW	PROStart	Series	224	120	1.83	>.97	<10%	0.89	14240
FPC55HO	4	4000	QTP4X54T5HO/UNV PSN HTW	PROStart	Series	219	277	0.77	>.97	<15%	0.89	14240
FPC40	1	3200	QTP2X26CF/UNV DM	PROStart	Series	35	120	0.29	>.98	<10%	0.87	2785
FPC40	1	3200	QTP2X26CF/UNV DM	PROStart	Series	34	277	0.12	>.98	<15%	0.87	2785
FPC40	2	3200	QTP2X26/32/42CF/UNV DM	PROStart	Series	72	277	0.26	>.98	<10%	0.88	5630
FPC40	2	3200	QTP2X26/32/42CF/UNV DM	PROStart	Series	74	120	0.62	>.98	<10%	0.88	5630

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TT5 DULUX® L Fluorescent Lamps

QUICKSYSTEMS

System Performance Guide

Lamp Type	# of Lamps	Lamp Lumens	Ballast Description	Start Type	Lamp Circuit	System Watts	Input Volts	Input Amps	Power Factor	THD	Ballast Factor	System Lumens
FT80DL	1	6000	QTP1X80T5HO/UNV PSN	PROStart®	Series	90	120	0.75	>.98	<10%	1.00	6000
FT80DL	1	6000	QTP1X80T5HO/UNV PSN	PROStart	Series	90	277	0.33	>.98	<10%	1.00	6000
FT55DL	1	4800	QTP1X54T5HO/UNV PSN	PROStart	Series	62	120	0.52	>.98	<10%	1.00	4800
FT55DL	1	4800	QTP1X54T5HO/UNV PSN	PROStart	Series	59	277	0.22	>.97	<10%	1.00	4800
FT55DL	1	4800	QTP2X54T5HO/UNV PSN	PROStart	Series	59	120	0.49	>.98	<10%	0.94	4510
FT55DL	1	4800	QTP2X54T5HO/UNV PSN	PROStart	Series	58	277	0.24	>.90	<15%	0.94	4510
FT55DL	1	4800	QT1x54/120 PHO-DIM(@100%)	PROStart	Series	62	120	0.52	>.98	<10%	0.98	4705
FT55DL	1	4800	QT1x54/120 PHO-DIM(@1%)	PROStart	Series	8	—	—	—	—	0.01	50
FT55DL	1	4800	QT1x54/277 PHO-DIM(@100%)	PROStart	Series	61	277	0.22	>.98	<10%	0.98	4705
FT55DL	1	4800	QT1x54/277 PHO-DIM(@1%)	PROStart	Series	8	—	—	—	—	0.01	50
FT55DL	1	4800	QTP2X54T5HO/UNV PSN HT	PROStart	Series	59	120	0.49	>.98	<10%	0.94	4510
FT55DL	1	4800	QTP2X54T5HO/UNV PSN HT	PROStart	Series	58	277	0.24	>.90	<15%	0.94	4510
FT55DL	1	4800	QTP4X54T5HO/UNV PSN HTW	PROStart	Series	59	120	0.49	>.98	<10%	0.94	4510
FT55DL	1	4800	QTP4X54T5HO/UNV PSN HTW	PROStart	Series	58	277	0.24	>.90	<15%	0.94	4510
FT55DL	2	4800	QTP2X54T5HO/UNV PSN	PROStart	Series	116	120	0.98	>.98	<10%	0.95	9120
FT55DL	2	4800	QTP2X54T5HO/UNV PSN	PROStart	Series	112	277	0.42	>.97	<10%	0.94	9025
FT55DL	2	4800	QT2x54/120 PHO-DIM(@100%)	PROStart	Series	120	120	1.00	>.98	<10%	0.98	9410
FT55DL	2	4800	QT2x54/120 PHO-DIM(@1%)	PROStart	Series	18	—	—	—	—	0.01	95
FT55DL	2	4800	QT2x54/277 PHO-DIM(@100%)	PROStart	Series	117	277	0.45	>.98	<10%	0.98	9410
FT55DL	2	4800	QT2x54/277 PHO-DIM(@1%)	PROStart	Series	18	—	—	—	—	0.01	95
FT55DL	2	4800	QTP2X54T5HO/UNV PSN HT	PROStart	Series	116	120	0.98	>.98	<10%	0.95	9120
FT55DL	2	4800	QTP2X54T5HO/UNV PSN HT	PROStart	Series	112	277	0.42	>.97	<10%	0.94	9025
FT55DL	2	4800	QTP4X54T5HO/UNV PSN HTW	PROStart	Series	116	120	0.98	>.98	<10%	0.95	9120
FT55DL	2	4800	QTP4X54T5HO/UNV PSN HTW	PROStart	Series	112	277	0.42	>.97	<10%	0.94	9025
FT55DL	3	4800	QTP4X54T5HO/UNV PSN HTW	PROStart	Series	175	120	1.43	>.98	<10%	0.94	13535
FT55DL	3	4800	QTP4X54T5HO/UNV PSN HTW	PROStart	Series	170	277	0.60	>.97	<15%	0.94	13535
FT55DL	4	4800	QTP4X54T5HO/UNV PSN HTW	PROStart	Series	232	120	1.89	>.98	<10%	0.94	18050
FT55DL	4	4800	QTP4X54T5HO/UNV PSN HTW	PROStart	Series	224	277	0.79	>.97	<15%	0.94	18050
FT40DL	1	3150	QHE1x40DL/UNV ISN-SC	Instant	Parallel	35	120	0.30	>.98	<10%	0.90	2835
FT40DL	1	3150	QHE1x40DL/UNV ISN-SC	Instant	Parallel	35	277	0.13	>.98	<10%	0.90	2835
FT40DL	1	3150	QTP1x40TT5/120 PSN-F	PROStart	Series	38	120	0.32	>.98	<10%	0.88	2770
FT40DL	1	3150	QTP1x40TT5/277 PSN-F	PROStart	Series	37	277	0.13	>.98	<10%	0.88	2770
FT40DL	1	3150	QTP2X26CF/UNV DM	PROStart	Series	44	120	0.37	>.98	<10%	1.10	3465
FT40DL	1	3150	QTP2X26CF/UNV DM	PROStart	Series	42	277	0.16	>.98	<10%	1.10	3465
FT40DL	2	3150	QHE2x40DL/UNV ISN-SC	Instant	Parallel	68	120	0.56	>.98	<10%	0.90	5670
FT40DL	2	3150	QHE2x40DL/UNV ISN-SC	Instant	Parallel	67	277	0.26	>.98	<10%	0.90	5670
FT40DL	2	3150	QTP2x40TT5/120 PSN-F	PROStart	Series	76	120	0.63	>.98	<10%	0.88	5545
FT40DL	2	3150	QTP2x40TT5/277 PSN-F	PROStart	Series	73	277	0.27	>.98	<10%	0.88	5545
FT40DL	2	3150	QTP2X26/32/42CF/UNV DM	PROStart	Series	88	120	0.74	>.98	<10%	1.10	6930
FT40DL	2	3150	QTP2X26/32/42CF/UNV DM	PROStart	Series	86	277	0.31	>.98	<10%	1.10	6930
FT40DL	3	3150	QHE3x40DL/UNV ISN-SC	Instant	Parallel	100	120	0.84	>.98	<10%	0.90	9070
FT40DL	3	3150	QHE3x40DL/UNV ISN-SC	Instant	Parallel	99	277	0.36	>.98	<10%	0.90	9070
FT40DL	3	3150	QTP3x40TT5/277 PSN-B	PROStart	Series	108	277	0.39	>.98	<10%	0.88	8315
FT40DL	3	3150	QTP3x40TT5/120 PSN-B	PROStart	Series	110	120	0.92	>.98	<10%	0.88	8315
FT40/28WSS	1	2800	QHE1x40DL/UNV ISN-SC	Instant	Parallel	32	277	0.12	>.98	<10%	1.07	2995
FT40/28WSS	1	2800	QHE1x40DL/UNV ISN-SC	Instant	Parallel	32	120	0.27	>.98	<10%	1.07	2995
FT40/28WSS	2	2800	QHE2x40DL/UNV ISN-SC	Instant	Parallel	64	120	0.54	>.98	<10%	1.07	5990
FT40/28WSS	2	2800	QHE2x40DL/UNV ISN-SC	Instant	Parallel	63	277	0.24	>.98	<10%	1.07	5990
FT40/28WSS	3	2800	QHE3x40DL/UNV ISN-SC	Instant	Parallel	95	120	0.79	>.98	<10%	1.07	8990
FT40/28WSS	3	2800	QHE3x40DL/UNV ISN-SC	Instant	Parallel	94	277	0.35	>.98	<10%	1.07	8990
FT36DL	2	2900	QTP2X26/32/42CF/UNV DM	PROStart	Series	64	120	0.53	>.98	<10%	0.80	4640
FT36DL	2	2900	QTP2X26/32/42CF/UNV DM	PROStart	Series	62	277	0.22	>.98	<10%	0.80	4640

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As the industry's leading systems company, OSRAM SYLVANIA offers the most comprehensive data on how QUICKTRONIC® electronic ballasts will perform with various combinations of lamps.

System Performance Guide

Lamp Type	# of Lamps	Lamp Lumens	Ballast Description	Start Type	Lamp Circuit	System Watts	Input Volts	Input Amps	Power Factor	THD	Ballast Factor	System Lumens
CF26DT/E, TE	1	1800	QTP2X26CF/UNV DM	PROStart®	Series	28	120	0.24	>.98	<10%	1.00	1800
CF26DT/E, TE	1	1800	QTP2X26CF/UNV DM	PROStart	Series	28	277	0.10	>.98	<10%	1.00	1800
CF26DD/E, TE	2	1800	QTP2X26CF/UNV DM	PROStart	Series	54	120	0.50	>.98	<10%	1.00	3600
CF26DD/E, TE	2	1800	QTP2X26CF/UNV DM	PROStart	Series	54	277	0.22	>.98	<10%	1.00	3600
CF26DD/E, TE	2	1800	QTP2X26/32/42CF/UNV DM	PROStart	Series	54	120	0.46	>.98	<10%	1.02	3670
CF26DD/E, TE	2	1800	QTP2X26/32/42CF/UNV DM	PROStart	Series	54	277	0.20	>.98	<10%	1.02	3670
CF18WDD/E, T/E	1	1200	QTP1/2X18CF/UNV DM	PROStart	Series	20	120	0.17	>.98	<10%	1.00	1200
CF18WDD/E, T/E	1	1200	QTP1/2X18CF/UNV DM	PROStart	Series	20	277	0.07	>.98	<10%	1.00	1200
CF18WDD/E, T/E	2	1200	QTP1/2X18CF/UNV DM	PROStart	Series	38	120	0.32	>.98	<10%	1.00	2400
CF18WDD/E, T/E	2	1200	QTP1/2X18CF/UNV DM	PROStart	Series	38	277	0.14	>.98	<10%	1.00	2400
CF13DD/E, T/E	1	900	QTP1/2X13CF/UNV DM	PROStart	Series	16	120	0.14	>.98	<10%	1.00	900
CF13DD/E, T/E	1	900	QTP1/2X13CF/UNV DM	PROStart	Series	16	277	0.07	>.97	<15%	1.00	900
CF13DD/E, T/E	2	900	QTP1/2X13CF/UNV DM	PROStart	Series	29	120	0.25	>.98	<10%	1.00	1800
CF13DD/E, T/E	2	900	QTP1/2X13CF/UNV DM	PROStart	Series	29	277	0.11	>.98	<10%	1.00	1800
CF13DSE	2	820	QTP2X26CF/UNV DM	PROStart	Series	30	120	0.25	>.98	<10%	1.05	1720
CF13DSE	2	820	QTP2X26CF/UNV DM	PROStart	Series	29	277	0.11	>.98	<10%	1.05	1720



DULUX CF & FPC Circline

DULUX® Compact and FPC Circline T5 Fluorescent Lamps

QUICKSYSTEMS

System Performance Guide

Lamp Type	# of Lamps	Lamp Lumens	Ballast Description	Start Type	Lamp Circuit	System Watts	Input Volts	Input Amps	Power Factor	THD	Ballast Factor	System Lumens
CF70WDT/E	1	5200	QTP2X26/32/42CF/UNV DM	PROStart®	Series	71	120	0.57	>.98	<10%	0.92	4785
CF70WDT/E	1	5200	QTP2X26/32/42CF/UNV DM	PROStart	Series	71	277	0.25	>.98	<10%	0.92	4785
CF57WDT/E	1	4300	QTP2X26/32/42CF/UNV DM	PROStart	Series	62	120	0.53	>.98	<10%	1.00	4300
CF57WDT/E	1	4300	QTP2X26/32/42CF/UNV DM	PROStart	Series	62	277	0.23	>.98	<10%	1.00	4300
CF42DT/E	1	3200	QTP2X26CF/UNV DM	PROStart	Series	45	120	0.38	>.98	<10%	1.00	3200
CF42DT/E	1	3200	QTP2X26CF/UNV DM	PROStart	Series	45	277	0.17	>.98	<10%	1.00	3200
CF42DT/E	2	3200	QTP2X26/32/42CF/UNV DM	PROStart	Series	94	120	0.80	>.98	<10%	0.95	6080
CF42DT/E	2	3200	QTP2X26/32/42CF/UNV DM	PROStart	Series	94	277	0.35	>.98	<10%	0.95	6080
CF42DT/E	2	3200	QTP2X26/32/42CF/UNV DM	PROStart	Series	94	120	0.90	>.98	<10%	0.95	6080
CF42DT/E	2	3200	QTP2X26/32/42CF/UNV DM	PROStart	Series	94	277	0.40	>.98	<10%	0.95	6080
CF32DT/E	1	2400	QTP2X26CF/UNV DM	PROStart	Series	35	120	0.30	>.98	<10%	0.98	2350
CF32DT/E	1	2400	QTP2X26CF/UNV DM	PROStart	Series	35	277	0.13	>.98	<10%	0.98	2350
CF32DT/E	2	2400	QTP2X26/32/42CF/UNV DM	PROStart	Series	69	120	0.59	>.98	<10%	0.96	4610
CF32DT/E	2	2400	QTP2X26/32/42CF/UNV DM	PROStart	Series	69	277	0.25	>.98	<10%	0.96	4610
FPC Circline T5 Fluorescent Lamps												
FPC22	1	1800	QTP2X39-24T5H0/UNV PSN	PROStart	Series	26	120	0.22	>.98	<10%	1.03	1855
FPC22	1	1800	QTP2X39-24T5H0/UNV PSN	PROStart	Series	26	277	0.11	>.85	<15%	1.03	1855
FPC22	1	1800	QTP2X26CF/UNV DM	PROStart	Series	26	120	0.21	>.98	<10%	0.97	1745
FPC22	1	1800	QTP2X26CF/UNV DM	PROStart	Series	25	277	0.09	>.97	<15%	0.97	1745
FPC22	2	1800	QTP2X39-24T5H0/UNV PSN	PROStart	Series	50	120	0.42	>.98	<10%	1.04	3745
FPC22	2	1800	QTP2X39-24T5H0/UNV PSN	PROStart	Series	50	277	0.19	>.96	<10%	1.04	3745
FPC22	2	1800	QTP2X26CF/UNV DM	PROStart	Series	48	120	0.40	>.98	<10%	0.96	3455
FPC22	2	1800	QTP2X26CF/UNV DM	PROStart	Series	46	277	0.17	>.98	<10%	0.96	3455

Data for all CFL ballasts above is the same for the equivalent models with PEM studs (-PEM) where applicable.

F032XV

QUICKSYSTEMS

Approved Delamped T8 Linear Fluorescent PROStart® PSX & PSN Systems

As the industry's leading systems company, OSRAM SYLVANIA offers the most comprehensive data on how QUICKTRONIC® electronic ballasts will perform with various combinations of lamps.

System Performance Guide

Lamp Type	# of Lamps	Lamp Lumens	Ballast Description	Start Type	Lamp Circuit	System Watts	Input Volts	Input Amps	Power Factor	THD	Ballast Factor	System Lumens
F032XV	1	2900	QHE1x32T8/UNV PSN-MC	PROStart®	Parallel	30	120	0.26	>.98	<10%	0.88	2550
F032XV	1	2900	QHE1x32T8/UNV PSN-MC	PROStart	Parallel	29	277	0.11	>.98	<10%	0.88	2550
F032XV	1	2900	QHE2x32T8/UNV PSN-MC	PROStart	Parallel	36	120	0.30	>.98	<10%	1.07	3105
F032XV	1	2900	QHE2x32T8/UNV PSN-MC	PROStart	Parallel	36	277	0.13	>.98	<15%	1.07	3105
F032XV	1	2900	QHE3x32T8/UNV PSN-SC	PROStart	Parallel	39	120	0.33	>.98	<10%	1.14	3295
F032XV	1	2900	QHE3x32T8/UNV PSN-SC	PROStart	Parallel	40	277	0.16	>.95	<15%	1.14	3295
F032XV	1	2900	QHE4x32T8/UNV PSN-SC	PROStart	Parallel	41	120	0.34	>.98	<10%	1.20	3480
F032XV	1	2900	QHE4x32T8/UNV PSN-SC	PROStart	Parallel	41	277	0.16	>.90	<15%	1.20	3480
F032XV	1	2900	QHE1X32T8/UNV PSX-MC	PROStart	Parallel	25	120	0.21	>.98	<10%	0.72	2090
F032XV	1	2900	QHE1X32T8/UNV PSX-MC	PROStart	Parallel	24	277	0.09	>.98	<10%	0.72	2090
F032XV	1	2900	QHE2x32T8/UNV PSX-MC	PROStart	Parallel	30	120	0.25	>.98	<10%	0.88	2550
F032XV	1	2900	QHE2x32T8/UNV PSX-MC	PROStart	Parallel	30	277	0.11	>.97	<15%	0.88	2550
F032XV	1	2900	QHE3x32T8/UNV PSX-SC	PROStart	Parallel	33	120	0.28	>.98	<10%	0.92	2670
F032XV	1	2900	QHE3x32T8/UNV PSX-SC	PROStart	Parallel	33	277	0.13	>.95	<15%	0.92	2670
F032XV	1	2900	QHE4x32T8/UNV PSX-SC	PROStart	Parallel	37	120	0.30	>.98	<10%	0.98	2840
F032XV	1	2900	QHE4x32T8/UNV PSX-SC	PROStart	Parallel	37	277	0.14	>.95	<15%	0.98	2840
F032XV	2	2900	QHE2x32T8/UNV PSN-MC	PROStart	Parallel	57	120	0.48	>.98	<10%	0.88	5105
F032XV	2	2900	QHE2x32T8/UNV PSN-MC	PROStart	Parallel	55	277	0.21	>.98	<10%	0.88	5105
F032XV	2	2900	QHE3x32T8/UNV PSN-SC	PROStart	Parallel	65	120	0.54	>.98	<10%	0.98	5685
F032XV	2	2900	QHE3x32T8/UNV PSN-SC	PROStart	Parallel	64	277	0.24	>.98	<10%	0.98	5685
F032XV	2	2900	QHE4x32T8/UNV PSN-SC	PROStart	Parallel	68	120	0.57	>.98	<10%	1.06	6150
F032XV	2	2900	QHE4x32T8/UNV PSN-SC	PROStart	Parallel	67	277	0.25	>.95	<15%	1.06	6150
F032XV	2	2900	QHE2X32T8/UNV PSX-MC	PROStart	Parallel	48	120	0.40	>.98	<10%	0.72	4175
F032XV	2	2900	QHE2X32T8/UNV PSX-MC	PROStart	Parallel	47	277	0.17	>.98	<10%	0.72	4175
F032XV	2	2900	QHE3x32T8/UNV PSX-SC	PROStart	Parallel	53	120	0.44	>.98	<10%	0.80	4640
F032XV	2	2900	QHE3x32T8/UNV PSX-SC	PROStart	Parallel	52	277	0.19	>.98	<10%	0.80	4640
F032XV	2	2900	QHE4x32T8/UNV PSX-SC	PROStart	Parallel	57	120	0.48	>.98	<10%	0.86	4990
F032XV	2	2900	QHE4x32T8/UNV PSX-SC	PROStart	Parallel	57	277	0.21	>.95	<15%	0.86	4990
F032XV	3	2900	QHE3x32T8/UNV PSN-SC	PROStart	Parallel	83	120	0.69	>.98	<10%	0.88	7655
F032XV	3	2900	QHE3x32T8/UNV PSN-SC	PROStart	Parallel	82	277	0.29	>.98	<10%	0.88	7655
F032XV	3	2900	QHE4x32T8/UNV PSN-SC	PROStart	Parallel	91	120	0.77	>.98	<10%	0.96	8350
F032XV	3	2900	QHE4x32T8/UNV PSN-SC	PROStart	Parallel	89	277	0.33	>.98	<10%	0.96	8350
F032XV	3	2900	QHE3X32T8/UNV PSX-SC	PROStart	Parallel	69	120	0.58	>.98	<10%	0.71	6175
F032XV	3	2900	QHE3X32T8/UNV PSX-SC	PROStart	Parallel	67	277	0.25	>.98	<10%	0.71	6175
F032XV	3	2900	QHE4x32T8/UNV PSX-SC	PROStart	Parallel	76	120	0.64	>.98	<10%	0.77	6700
F032XV	3	2900	QHE4x32T8/UNV PSX-SC	PROStart	Parallel	75	277	0.27	>.98	<10%	0.77	6700
F032XV	4	2900	QHE4x32T8/UNV PSN-SC	PROStart	Parallel	111	120	0.93	>.98	<10%	0.88	10210
F032XV	4	2900	QHE4x32T8/UNV PSN-SC	PROStart	Parallel	108	277	0.39	>.98	<10%	0.88	10210
F032XV	4	2900	QHE4x32T8/UNV PSX-SC	PROStart	Parallel	90	120	0.76	>.98	<10%	0.71	8235
F032XV	4	2900	QHE4x32T8/UNV PSX-SC	PROStart	Parallel	89	277	0.32	>.98	<10%	0.71	8235

Schematics/wiring configurations for delamped combinations, see pages 192 &193.

For equivalent lamp types, all electrical values above can be used.

To calculate system lumens, substitute appropriate lumen value.

Ex: F032XP: 4 (lamps) X 3000 (lumens) X 0.71 (BF)= 8520 Lumens



Approved Delampd T8 Linear Fluorescent PROStart® PSX & PSN Systems

System Performance Guide

Lamp Type	# of Lamps	Lamp Lumens	Ballast Description	Start Type	Lamp Circuit	System Watts	Input Volts	Input Amps	Power Factor	THD	Ballast Factor	System Lumens
F030/XV/SS	1	2750	QHE1x32T8/UNV PSN-MC	PROStart®	Parallel	28	120	0.24	>.98	<10%	0.88	2420
F030/XV/SS	1	2750	QHE1x32T8/UNV PSN-MC	PROStart	Parallel	26	277	0.10	>.98	<10%	0.88	2420
F030/XV/SS	1	2750	QHE2x32T8/UNV PSN-MC	PROStart	Parallel	34	120	0.29	>.98	<10%	1.07	2955
F030/XV/SS	1	2750	QHE2x32T8/UNV PSN-MC	PROStart	Parallel	34	277	0.13	>.98	<15%	1.07	2955
F030/XV/SS	1	2750	QHE3x32T8/UNV PSN-SC	PROStart	Parallel	38	120	0.32	>.98	<10%	1.13	3115
F030/XV/SS	1	2750	QHE3x32T8/UNV PSN-SC	PROStart	Parallel	38	277	0.15	>.95	<15%	1.13	3115
F030/XV/SS	1	2750	QHE1X32T8/UNV PSX-MC	PROStart	Parallel	23	120	0.21	>.98	<10%	0.72	1980
F030/XV/SS	1	2750	QHE1X32T8/UNV PSX-MC	PROStart	Parallel	23	277	0.09	>.98	<10%	0.72	1980
F030/XV/SS	1	2750	QHE2x32T8/UNV PSX-MC	PROStart	Parallel	28	120	0.23	>.98	<10%	0.86	2365
F030/XV/SS	1	2750	QHE2x32T8/UNV PSX-MC	PROStart	Parallel	28	277	0.10	>.95	<15%	0.86	2365
F030/XV/SS	1	2750	QHE3x32T8/UNV PSX-SC	PROStart	Parallel	31	120	0.26	>.98	<10%	0.93	2560
F030/XV/SS	1	2750	QHE3x32T8/UNV PSX-SC	PROStart	Parallel	31	277	0.12	>.95	<15%	0.93	2560
F030/XV/SS	1	2750	QHE4x32T8/UNV PSX-SC	PROStart	Parallel	35	120	0.29	>.98	<10%	1.00	2750
F030/XV/SS	1	2750	QHE4x32T8/UNV PSX-SC	PROStart	Parallel	35	277	0.13	>.95	<15%	1.00	2750
F030/XV/SS	2	2750	QHE2x32T8/UNV PSN-MC	PROStart	Parallel	55	120	0.46	>.98	<10%	0.88	4840
F030/XV/SS	2	2750	QHE2x32T8/UNV PSN-MC	PROStart	Parallel	53	277	0.20	>.98	<10%	0.88	4840
F030/XV/SS	2	2750	QHE3x32T8/UNV PSN-SC	PROStart	Parallel	61	120	0.51	>.98	<10%	0.98	5405
F030/XV/SS	2	2750	QHE3x32T8/UNV PSN-SC	PROStart	Parallel	60	277	0.22	>.98	<10%	0.98	5405
F030/XV/SS	2	2750	QHE4x32T8/UNV PSN-SC	PROStart	Parallel	65	120	0.54	>.98	<10%	1.06	5835
F030/XV/SS	2	2750	QHE4x32T8/UNV PSN-SC	PROStart	Parallel	65	277	0.24	>.95	<15%	1.06	5835
F030/XV/SS	2	2750	QHE2X32T8/UNV PSX-MC	PROStart	Parallel	45	120	0.40	>.98	<10%	0.72	3960
F030/XV/SS	2	2750	QHE2x32T8/UNV PSX-MC	PROStart	Parallel	43	277	0.17	>.98	<10%	0.72	3960
F030/XV/SS	2	2750	QHE3x32T8/UNV PSX-SC	PROStart	Parallel	50	120	0.41	>.98	<10%	0.81	4455
F030/XV/SS	2	2750	QHE3x32T8/UNV PSX-SC	PROStart	Parallel	49	277	0.18	>.95	<15%	0.81	4455
F030/XV/SS	2	2750	QHE4x32T8/UNV PSX-SC	PROStart	Parallel	55	120	0.46	>.98	<10%	0.87	4785
F030/XV/SS	2	2750	QHE4x32T8/UNV PSX-SC	PROStart	Parallel	55	277	0.20	>.95	<15%	0.87	4785
F030/XV/SS	3	2750	QHE3x32T8/UNV PSN-SC	PROStart	Parallel	83	120	0.69	>.98	<10%	0.88	7260
F030/XV/SS	3	2750	QHE3x32T8/UNV PSN-SC	PROStart	Parallel	82	277	0.29	>.98	<10%	0.88	7260
F030/XV/SS	3	2750	QHE4x32T8/UNV PSN-SC	PROStart	Parallel	91	120	0.77	>.98	<10%	0.96	7920
F030/XV/SS	3	2750	QHE4x32T8/UNV PSN-SC	PROStart	Parallel	89	277	0.33	>.98	<10%	0.96	7920
F030/XV/SS	3	2750	QHE3x32T8/UNV PSN-SC	PROStart	Parallel	80	120	0.68	>.98	<10%	0.88	7260
F030/XV/SS	3	2750	QHE3x32T8/UNV PSN-SC	PROStart	Parallel	78	277	0.28	>.98	<10%	0.88	7260
F030/XV/SS	3	2750	QHE4x32T8/UNV PSN-SC	PROStart	Parallel	87	120	0.73	>.98	<15%	0.96	7940
F030/XV/SS	3	2750	QHE4x32T8/UNV PSN-SC	PROStart	Parallel	85	277	0.31	>.98	<10%	0.96	7940
F030/XV/SS	3	2750	QHE3X32T8/UNV PSX-SC	PROStart	Parallel	65	120	0.54	>.98	<10%	0.71	5860
F030/XV/SS	3	2750	QHE3X32T8/UNV PSX-SC	PROStart	Parallel	63	277	0.23	>.98	<10%	0.71	5860
F030/XV/SS	3	2750	QHE4x32T8/UNV PSX-SC	PROStart	Parallel	72	120	0.60	>.98	<10%	0.78	6435
F030/XV/SS	3	2750	QHE4x32T8/UNV PSX-SC	PROStart	Parallel	71	277	0.26	>.98	<10%	0.78	6435
F030/XV/SS	4	2750	QHE4x32T8/UNV PSN-SC	PROStart	Parallel	105	120	0.89	>.98	<10%	0.88	9680
F030/XV/SS	4	2750	QHE4x32T8/UNV PSN-SC	PROStart	Parallel	103	277	0.38	>.98	<10%	0.88	9680
F030/XV/SS	4	2750	QHE4x32T8/UNV PSX-SC	PROStart	Parallel	86	120	0.72	>.98	<10%	0.71	7810
F030/XV/SS	4	2750	QHE4x32T8/UNV PSX-SC	PROStart	Parallel	84	277	0.32	>.98	<10%	0.71	7810

Schematics/wiring configurations for delampd combinations, see pages 192 & 193.

For equivalent lamp types, all electrical values above can be used.

To calculate system lumens, substitute appropriate lumen value.

Ex: F030XP/SS: 4 (lamps) X 2850 (lumens) X 0.71 (BF)= 8095 Lumens

F028/XV/SS

QUICKSYSTEMS

Approved Delamped T8 Linear Fluorescent PROstart® PSX & PSN Systems

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System Performance Guide

Lamp Type	# of Lamps	Lamp Lumens	Ballast Description	Start Type	Lamp Circuit	System Watts	Input Volts	Input Amps	Power Factor	THD	Ballast Factor	System Lumens
F028/XV/SS	1	2600	QHE1X32T8/UNV PSN-MC	PROStart®	Parallel	26	120	0.22	>.98	<10%	0.88	2290
F028/XV/SS	1	2600	QHE1X32T8/UNV PSN-MC	PROStart	Parallel	25	277	0.10	>.98	<10%	0.88	2290
F028/XV/SS	1	2600	QHE2X32T8/UNV PSN-MC	PROStart	Parallel	33	120	0.27	>.98	<10%	1.08	2810
F028/XV/SS	1	2600	QHE2X32T8/UNV PSN-MC	PROStart	Parallel	32	277	0.12	>.98	<10%	1.08	2810
F028/XV/SS	1	2600	QHE3X32T8/UNV PSN-SC	PROStart	Parallel	35	120	0.30	>.98	<10%	1.14	2955
F028/XV/SS	1	2600	QHE3X32T8/UNV PSN-SC	PROStart	Parallel	35	277	0.14	>.95	<15%	1.14	2955
F028/XV/SS	1	2600	QHE1X32T8/UNV PSX-MC	PROStart	Parallel	21	120	0.18	>.98	<10%	0.72	1870
F028/XV/SS	1	2600	QHE1X32T8/UNV PSX-MC	PROStart	Parallel	21	277	0.08	>.98	<10%	0.72	1870
F028/XV/SS	1	2600	QHE2X32T8/UNV PSX-MC	PROStart	Parallel	25	120	0.21	>.98	<10%	0.85	2210
F028/XV/SS	1	2600	QHE2X32T8/UNV PSX-MC	PROStart	Parallel	25	277	0.10	>.95	<15%	0.85	2210
F028/XV/SS	1	2600	QHE3X32T8/UNV PSX-SC	PROStart	Parallel	26	120	0.22	>.98	<10%	0.93	2420
F028/XV/SS	1	2600	QHE3X32T8/UNV PSX-SC	PROStart	Parallel	26	277	0.10	>.96	<17%	0.93	2420
F028/XV/SS	1	2600	QHE4X32T8/UNV PSX-SC	PROStart	Parallel	33	120	0.27	>.98	<10%	1.00	2600
F028/XV/SS	1	2600	QHE4X32T8/UNV PSX-SC	PROStart	Parallel	33	277	0.13	>.95	<15%	1.00	2600
F028/XV/SS	2	2600	QHE2X32T8/UNV PSN-MC	PROStart	Parallel	51	120	0.43	>.98	<10%	0.88	4575
F028/XV/SS	2	2600	QHE2X32T8/UNV PSN-MC	PROStart	Parallel	50	277	0.18	>.98	<10%	0.88	4575
F028/XV/SS	2	2600	QHE3X32T8/UNV PSN-SC	PROStart	Parallel	56	120	0.48	>.98	<10%	0.98	5100
F028/XV/SS	2	2600	QHE3X32T8/UNV PSN-SC	PROStart	Parallel	56	277	0.21	>.98	<10%	0.98	5100
F028/XV/SS	2	2600	QHE4X32T8/UNV PSN-SC	PROStart	Parallel	61	120	0.51	>.98	<10%	1.06	5510
F028/XV/SS	2	2600	QHE4X32T8/UNV PSN-SC	PROStart	Parallel	60	277	0.23	>.98	<10%	1.06	5510
F028/XV/SS	2	2600	QHE2X32T8/UNV PSX-MC	PROStart	Parallel	41	120	0.34	>.98	<10%	0.72	3745
F028/XV/SS	2	2600	QHE2X32T8/UNV PSX-MC	PROStart	Parallel	40	277	0.15	>.98	<10%	0.72	3745
F028/XV/SS	2	2600	QHE3X32T8/UNV PSX-SC	PROStart	Parallel	42	120	0.35	>.98	<10%	0.81	4210
F028/XV/SS	2	2600	QHE3X32T8/UNV PSX-SC	PROStart	Parallel	41	277	0.16	>.95	<15%	0.81	4210
F028/XV/SS	2	2600	QHE4X32T8/UNV PSX-SC	PROStart	Parallel	51	120	0.42	>.98	<10%	0.87	4525
F028/XV/SS	2	2600	QHE4X32T8/UNV PSX-SC	PROStart	Parallel	51	277	0.18	>.98	<10%	0.87	4525
F028/XV/SS	3	2600	QHE3X32T8/UNV PSN-SC	PROStart	Parallel	73	120	0.62	>.98	<10%	0.88	6865
F028/XV/SS	3	2600	QHE3X32T8/UNV PSN-SC	PROStart	Parallel	72	277	0.27	>.98	<10%	0.88	6865
F028/XV/SS	3	2600	QHE4X32T8/UNV PSN-SC	PROStart	Parallel	81	120	0.68	>.98	<10%	0.96	7490
F028/XV/SS	3	2600	QHE4X32T8/UNV PSN-SC	PROStart	Parallel	79	277	0.29	>.98	<10%	0.96	7490
F028/XV/SS	3	2600	QHE3X32T8/UNV PSX-SC	PROStart	Parallel	60	120	0.50	>.98	<10%	0.71	5540
F028/XV/SS	3	2600	QHE3X32T8/UNV PSX-SC	PROStart	Parallel	59	277	0.22	>.98	<10%	0.71	5540
F028/XV/SS	3	2600	QHE4X32T8/UNV PSX-SC	PROStart	Parallel	67	120	0.56	>.98	<10%	0.78	6085
F028/XV/SS	3	2600	QHE4X32T8/UNV PSX-SC	PROStart	Parallel	66	277	0.24	>.98	<10%	0.78	6085
F028/XV/SS	4	2600	QHE4X32T8/UNV PSN-SC	PROStart	Parallel	98	120	0.83	>.98	<10%	0.88	9150
F028/XV/SS	4	2600	QHE4X32T8/UNV PSN-SC	PROStart	Parallel	95	277	0.35	>.98	<10%	0.88	9150
F028/XV/SS	4	2600	QHE4X32T8/UNV PSX-SC	PROStart	Parallel	79	120	0.66	>.98	<10%	0.71	7385
F028/XV/SS	4	2600	QTP4X32T8/UNV PSX-SC	PROStart	Parallel	77	277	0.28	>.98	<10%	0.71	7385

Schematics/wiring configurations for delamped combinations, see pages 192 &193.

For equivalent lamp types, all electrical values above can be used.

To calculate system lumens, substitute appropriate lumen value.

Ex: F028XP/SS: 4 (lamps) X 2725 (lumens) X 0.71 (BF)= 7740 Lumens



Approved Delamped T8 Linear Fluorescent PROStart® PSX & PSN Systems

QUICKSYSTEMS

System Performance Guide

Lamp Type	# of Lamps	Lamp Lumens	Ballast Description	Start Type	Lamp Circuit	System Watts	Input Volts	Input Amps	Power Factor	THD	Ballast Factor	System Lumens
F032/25W/XV/SS	1	2400	QHE1x32T8/UNV PSN-MC	PROStart®	Parallel	23	120	0.20	>.98	<10%	0.88	2110
F032/25W/XV/SS	1	2400	QHE1x32T8/UNV PSN-MC	PROStart	Parallel	23	277	0.09	>.98	<10%	0.88	2110
F032/25W/XV/SS	1	2400	QHE2x32T8/UNV PSN-MC	PROStart	Parallel	30	120	0.25	>.98	<10%	1.08	2590
F032/25W/XV/SS	1	2400	QHE2x32T8/UNV PSN-MC	PROStart	Parallel	30	277	0.11	>.98	<10%	1.08	2590
F032/25W/XV/SS	1	2400	QHE3x32T8/UNV PSN-SC	PROStart	Parallel	33	120	0.27	>.98	<10%	1.14	2730
F032/25W/XV/SS	1	2400	QHE3x32T8/UNV PSN-SC	PROStart	Parallel	33	277	0.13	>.95	<15%	1.14	2730
F032/25W/XV/SS	1	2400	QHE1X32T8/UNV PSX-MC	PROStart	Parallel	20	120	0.16	>.98	<10%	0.72	1730
F032/25W/XV/SS	1	2400	QHE1X32T8/UNV PSX-MC	PROStart	Parallel	19	277	0.07	>.98	<10%	0.72	1730
F032/25W/XV/SS	1	2400	QHE2x32T8/UNV PSX-MC	PROStart	Parallel	23	120	0.19	>.98	<10%	0.88	2110
F032/25W/XV/SS	1	2400	QHE2x32T8/UNV PSX-MC	PROStart	Parallel	23	277	0.09	>.95	<15%	0.88	2110
F032/25W/XV/SS	1	2400	QHE3x32T8/UNV PSX-SC	PROStart	Parallel	28	120	0.23	>.98	<10%	0.93	2230
F032/25W/XV/SS	1	2400	QHE3x32T8/UNV PSX-SC	PROStart	Parallel	28	277	0.11	>.95	<17%	0.93	2230
F032/25W/XV/SS	1	2400	QHE4x32T8/UNV PSX-SC	PROStart	Parallel	30	120	0.25	>.98	<12%	1.01	2425
F032/25W/XV/SS	1	2400	QHE4x32T8/UNV PSX-SC	PROStart	Parallel	30	277	0.12	>.95	<17%	1.01	2425
F032/25W/XV/SS	2	2400	QHE2x32T8/UNV PSN-MC	PROStart	Parallel	45	120	0.38	>.98	<10%	0.88	4225
F032/25W/XV/SS	2	2400	QHE2x32T8/UNV PSN-MC	PROStart	Parallel	44	277	0.16	>.98	<10%	0.88	4225
F032/25W/XV/SS	2	2400	QHE3x32T8/UNV PSN-SC	PROStart	Parallel	52	120	0.43	>.98	<10%	0.98	4705
F032/25W/XV/SS	2	2400	QHE3x32T8/UNV PSN-SC	PROStart	Parallel	51	277	0.19	>.98	<10%	0.98	4705
F032/25W/XV/SS	2	2400	QHE4x32T8/UNV PSN-SC	PROStart	Parallel	55	120	0.46	>.98	<10%	1.06	5090
F032/25W/XV/SS	2	2400	QHE4x32T8/UNV PSN-SC	PROStart	Parallel	55	277	0.21	>.95	<15%	1.06	5090
F032/25W/XV/SS	2	2400	QHE2X32T8/UNV PSX-MC	PROStart	Parallel	38	120	0.31	>.98	<10%	0.72	3455
F032/25W/XV/SS	2	2400	QHE2X32T8/UNV PSX-MC	PROStart	Parallel	37	277	0.14	>.98	<10%	0.72	3455
F032/25W/XV/SS	2	2400	QHE3x32T8/UNV PSX-SC	PROStart	Parallel	44	120	0.36	>.98	<10%	0.81	3890
F032/25W/XV/SS	2	2400	QHE3x32T8/UNV PSX-SC	PROStart	Parallel	43	277	0.16	>.95	<15%	0.81	3890
F032/25W/XV/SS	2	2400	QHE4x32T8/UNV PSX-SC	PROStart	Parallel	48	120	0.40	>.98	<10%	0.87	4175
F032/25W/XV/SS	2	2400	QHE4x32T8/UNV PSX-SC	PROStart	Parallel	48	277	0.18	>.95	<15%	0.87	4175
F032/25W/XV/SS	3	2400	QHE3x32T8/UNV PSN-SC	PROStart	Parallel	67	120	0.56	>.98	<10%	0.88	6335
F032/25W/XV/SS	3	2400	QHE3x32T8/UNV PSN-SC	PROStart	Parallel	66	277	0.24	>.98	<10%	0.88	6335
F032/25W/XV/SS	3	2400	QHE4x32T8/UNV PSN-SC	PROStart	Parallel	75	120	0.63	>.98	<10%	0.96	6910
F032/25W/XV/SS	3	2400	QHE4x32T8/UNV PSN-SC	PROStart	Parallel	74	277	0.27	>.95	<15%	0.96	6910
F032/25W/XV/SS	3	2400	QHE3X32T8/UNV PSX-SC	PROStart	Parallel	56	120	0.47	>.98	<10%	0.71	5110
F032/25W/XV/SS	3	2400	QHE3X32T8/UNV PSX-SC	PROStart	Parallel	55	277	0.20	>.98	<10%	0.71	5110
F032/25W/XV/SS	3	2400	QHE4x32T8/UNV PSX-SC	PROStart	Parallel	62	120	0.52	>.98	<10%	0.79	5690
F032/25W/XV/SS	3	2400	QHE4x32T8/UNV PSX-SC	PROStart	Parallel	62	277	0.23	>.98	<10%	0.79	5690
F032/25W/XV/SS	4	2400	QHE4x32T8/UNV PSN-SC	PROStart	Parallel	91	120	0.77	>.98	<10%	0.88	8450
F032/25W/XV/SS	4	2400	QHE4x32T8/UNV PSN-SC	PROStart	Parallel	89	277	0.33	>.98	<10%	0.88	8450
F032/25W/XV/SS	4	2400	QHE4x32T8/UNV PSX-SC	PROStart	Parallel	73	120	0.61	>.98	<10%	0.71	6815
F032/25W/XV/SS	4	2400	QHE4x32T8/UNV PSX-SC	PROStart	Parallel	71	277	0.26	>.98	<10%	0.71	6815

Schematics/wiring configurations for delamped combinations, see pages 192 & 193.

For equivalent lamp types, all electrical values above can be used.

To calculate system lumens, substitute appropriate lumen value.

Ex: F025XP/SS: 4 (lamps) X 2500 (lumens) X 0.71 (BF)= 7100 Lumens

System Performance Guide

Lamp Type	# of Lamps	Lamp Lumens	Ballast Description	Start Type	Lamp Circuit	System Watts	Input Volts	Input Amps	Power Factor	THD	Ballast Factor	System Lumens
F025XP	1	2175	QHE1x32T8/UNV PSN-MC	PROStart®	Parallel	23.2	120	0.20	>.98	<10%	0.891	1940
F025XP	1	2175	QHE1x32T8/UNV PSN-MC	PROStart	Parallel	23.1	277	0.09	>.98	<10%	0.891	1940
F025XP	1	2175	QHE2x32T8/UNV PSN-MC	PROStart	Parallel	28.3	120	0.24	>.98	<10%	1.085	2360
F025XP	1	2175	QHE2x32T8/UNV PSN-MC	PROStart	Parallel	28.2	277	0.11	>.95	<15%	1.085	2360
F025XP	1	2175	QHE3x32T8/UNV PSN-SC	PROStart	Parallel	30.36	120	0.26	>.98	<10%	1.14	2480
F025XP	1	2175	QHE3x32T8/UNV PSN-SC	PROStart	Parallel	30.85	277	0.12	>.90	<15%	1.14	2480
F025XP	1	2175	QHE1X32T8/UNV PSX-MC	PROStart	Parallel	19	120	0.17	>.98	<10%	0.72	1565
F025XP	1	2175	QHE1X32T8/UNV PSX-MC	PROStart	Parallel	19	277	0.07	>.98	<10%	0.72	1565
F025XP	1	2175	QHE2x32T8/UNV PSX-MC	PROStart	Parallel	24	120	0.20	>.98	<10%	0.87	1890
F025XP	1	2175	QHE2x32T8/UNV PSX-MC	PROStart	Parallel	24	277	0.09	>.95	<15%	0.87	1890
F025XP	1	2175	QHE3x32T8/UNV PSX-SC	PROStart	Parallel	27	120	0.23	>.98	<10%	0.93	2025
F025XP	1	2175	QHE3x32T8/UNV PSX-SC	PROStart	Parallel	27	277	0.11	>.95	<17%	0.93	2025
F025XP	1	2175	QHE4x32T8/UNV PSX-SC	PROStart	Parallel	30	120	0.25	>.95	<15%	1.02	2220
F025XP	1	2175	QHE4x32T8/UNV PSX-SC	PROStart	Parallel	30	277	0.12	>.95	<17%	1.02	2220
F025XP	2	2175	QHE2x32T8/UNV PSN-MC	PROStart	Parallel	44.7	120	0.38	>.98	<10%	0.9	3915
F025XP	2	2175	QHE2x32T8/UNV PSN-MC	PROStart	Parallel	43.9	277	0.16	>.98	<10%	0.9	3915
F025XP	2	2175	QHE3x32T8/UNV PSN-SC	PROStart	Parallel	49.68	120	0.42	>.98	<10%	0.99	4305
F025XP	2	2175	QHE3x32T8/UNV PSN-SC	PROStart	Parallel	49.53	277	0.19	>.95	<10%	0.99	4305
F025XP	2	2175	QHE4x32T8/UNV PSN-SC	PROStart	Parallel	53.8	120	0.45	>.98	<10%	1.07	4655
F025XP	2	2175	QHE4x32T8/UNV PSN-SC	PROStart	Parallel	53.8	277	0.20	>.95	<15%	1.07	4655
F025XP	2	2175	QHE2X32T8/UNV PSX-MC	PROStart	Parallel	37	120	0.31	>.98	<10%	0.73	3175
F025XP	2	2175	QHE2X32T8/UNV PSX-MC	PROStart	Parallel	37	277	0.13	>.98	<10%	0.73	3175
F025XP	2	2175	QHE3x32T8/UNV PSX-SC	PROStart	Parallel	43	120	0.35	>.98	<10%	0.81	3525
F025XP	2	2175	QHE3x32T8/UNV PSX-SC	PROStart	Parallel	43	277	0.15	>.95	<15%	0.81	3525
F025XP	2	2175	QHE4x32T8/UNV PSX-SC	PROStart	Parallel	46	120	0.39	>.98	<10%	0.89	3870
F025XP	2	2175	QHE4x32T8/UNV PSX-SC	PROStart	Parallel	46	277	0.17	>.95	<15%	0.89	3870
F025XP	3	2175	QHE3x32T8/UNV PSN-SC	PROStart	Parallel	65.06	120	0.55	>.98	<10%	0.89	5805
F025XP	3	2175	QHE3x32T8/UNV PSN-SC	PROStart	Parallel	64.52	277	0.24	>.98	<10%	0.89	5805
F025XP	3	2175	QHE4x32T8/UNV PSN-SC	PROStart	Parallel	71.1	120	0.60	>.98	<10%	0.97	6330
F025XP	3	2175	QHE4x32T8/UNV PSN-SC	PROStart	Parallel	70.2	277	0.26	>.95	<10%	0.97	6330
F025XP	3	2175	QHE3X32T8/UNV PSX-SC	PROStart	Parallel	53	120	0.44	>.98	<10%	0.72	4700
F025XP	3	2175	QHE3X32T8/UNV PSX-SC	PROStart	Parallel	52	277	0.19	>.98	<10%	0.72	4700
F025XP	3	2175	QHE4x32T8/UNV PSX-SC	PROStart	Parallel	59	120	0.49	>.98	<10%	0.8	5220
F025XP	3	2175	QHE4x32T8/UNV PSX-SC	PROStart	Parallel	59	277	0.22	>.95	<15%	0.8	5220
F025XP	4	2175	QHE4x32T8/UNV PSN-SC	PROStart	Parallel	84.9	120	0.72	>.98	<10%	0.9	7830
F025XP	4	2175	QHE4x32T8/UNV PSN-SC	PROStart	Parallel	83.8	277	0.31	>.98	<10%	0.9	7830
F025XP	4	2175	QHE4x32T8/UNV PSX-SC	PROStart	Parallel	70	120	0.59	>.98	<10%	0.72	6265
F025XP	4	2175	QHE4x32T8/UNV PSX-SC	PROStart	Parallel	69	277	0.25	>.98	<10%	0.72	6265

Schematics/wiring configurations for delamped combinations, see pages 192 &193.

For equivalent lamp types, all electrical values above can be used.

To calculate system lumens, substitute appropriate lumen value.

Ex: F025XPS: 4 (lamps) X 2200 (lumens) X 0.72 (BF)= 6335 Lumens



Approved Delamped 2 Foot T8 Linear Fluorescent PROStart® PSX & PSN Systems

QUICKSYSTEMS

System Performance Guide

Lamp Type	# of Lamps	Lamp Lumens	Ballast Description	Start Type	Lamp Circuit	System Watts	Input Volts	Input Amps	Power Factor	THD	Ballast Factor	System Lumens
F017XP	1	1375	QHE1x32T8/UNV PSN-MC	PROStart®	Parallel	16	120	0.14	>.98	<10%	0.91	1250
F017XP	1	1375	QHE1x32T8/UNV PSN-MC	PROStart	Parallel	17	277	0.06	>.95	<15%	0.91	1250
F017XP	1	1375	QHE2x32T8/UNV PSN-MC	PROStart	Parallel	20	120	0.17	>.98	<10%	1.10	1510
F017XP	1	1375	QHE2x32T8/UNV PSN-MC	PROStart	Parallel	20	277	0.08	>.90	<15%	1.10	1510
F017XP	1	1375	QHE3x32T8/UNV PSN-SC	PROStart	Parallel	23	120	0.20	>.98	<15%	1.17	1610
F017XP	1	1375	QHE3x32T8/UNV PSN-SC	PROStart	Parallel	23	277	0.10	>.90	<20%	1.17	1610
F017XP	1	1375	QHE1X32T8/UNV PSX-MC	PROStart	Parallel	14	120	0.11	>.98	<10%	0.72	990
F017XP	1	1375	QHE2x32T8/UNV PSX-MC	PROStart	Parallel	14	277	0.05	>.98	<10%	0.72	990
F017XP	1	1375	QHE2x32T8/UNV PSX-MC	PROStart	Parallel	17	120	0.14	>.95	<15%	0.88	1210
F017XP	1	1375	QHE2x32T8/UNV PSX-MC	PROStart	Parallel	17	277	0.07	>.95	<15%	0.88	1210
F017XP	1	1375	QHE3x32T8/UNV PSX-SC	PROStart	Parallel	19	120	0.16	>.95	<15%	0.94	1295
F017XP	1	1375	QHE3x32T8/UNV PSX-SC	PROStart	Parallel	19	277	0.08	>.92	<20%	0.94	1295
F017XP	1	1375	QHE4x32T8/UNV PSX-SC	PROStart	Parallel	23	120	0.19	>.95	<15%	1.02	1405
F017XP	1	1375	QHE4x32T8/UNV PSX-SC	PROStart	Parallel	23	277	0.09	>.90	<19%	1.02	1405
F017XP	2	1375	QHE2x32T8/UNV PSN-MC	PROStart	Parallel	30	120	0.25	>.98	<10%	0.91	2515
F017XP	2	1375	QHE2x32T8/UNV PSN-MC	PROStart	Parallel	30	277	0.11	>.95	<15%	0.91	2515
F017XP	2	1375	QHE3x32T8/UNV PSN-SC	PROStart	Parallel	35	120	0.30	>.98	<10%	1.00	2750
F017XP	2	1375	QHE3x32T8/UNV PSN-SC	PROStart	Parallel	35	277	0.14	>.90	<15%	1.00	2750
F017XP	2	1375	QHE4x32T8/UNV PSN-SC	PROStart	Parallel	38	120	0.32	>.98	<10%	1.08	2970
F017XP	2	1375	QHE4x32T8/UNV PSN-SC	PROStart	Parallel	38	277	0.15	>.90	<15%	1.08	2970
F017XP	2	1375	QHE2X32T8/UNV PSX-MC	PROStart	Parallel	24	120	0.21	>.98	<10%	0.72	1980
F017XP	2	1375	QHE2x32T8/UNV PSX-MC	PROStart	Parallel	24	277	0.09	>.97	<10%	0.72	1980
F017XP	2	1375	QHE3x32T8/UNV PSX-SC	PROStart	Parallel	29	120	0.24	>.98	<10%	0.82	2255
F017XP	2	1375	QHE3x32T8/UNV PSX-SC	PROStart	Parallel	29	277	0.11	>.95	<16%	0.82	2255
F017XP	2	1375	QHE4x32T8/UNV PSX-SC	PROStart	Parallel	34	120	0.28	>.98	<10%	0.89	2450
F017XP	2	1375	QHE4x32T8/UNV PSX-SC	PROStart	Parallel	34	277	0.13	>.95	<15%	0.89	2450
F017XP	3	1375	QHE3x32T8/UNV PSN-SC	PROStart	Parallel	44	120	0.37	>.98	<10%	0.90	3715
F017XP	3	1375	QHE3x32T8/UNV PSN-SC	PROStart	Parallel	44	277	0.17	>.95	<15%	0.90	3715
F017XP	3	1375	QHE4x32T8/UNV PSN-SC	PROStart	Parallel	49	120	0.41	>.98	<10%	0.98	4045
F017XP	3	1375	QHE4x32T8/UNV PSN-SC	PROStart	Parallel	49	277	0.19	>.95	<15%	0.98	4045
F017XP	3	1375	QHE3X32T8/UNV PSX-SC	PROStart	Parallel	38	120	0.30	>.98	<10%	0.73	3010
F017XP	3	1375	QHE3X32T8/UNV PSX-SC	PROStart	Parallel	37	277	0.13	>.95	<10%	0.73	3010
F017XP	3	1375	QHE4x32T8/UNV PSX-SC	PROStart	Parallel	43	120	0.36	>.98	<10%	0.80	3300
F017XP	3	1375	QHE4x32T8/UNV PSX-SC	PROStart	Parallel	43	277	0.16	>.95	<15%	0.80	3300
F017XP	4	1375	QHE4x32T8/UNV PSN-SC	PROStart	Parallel	59	120	0.50	>.98	<10%	0.91	5005
F017XP	4	1375	QHE4x32T8/UNV PSN-SC	PROStart	Parallel	59	277	0.22	>.95	<15%	0.91	5005
F017XP	4	1375	QHE4x32T8/UNV PSX-SC	PROStart	Parallel	50	120	0.41	>.98	<10%	0.73	4015
F017XP	4	1375	QTP4x32T8/UNV PSX-SC	PROStart	Parallel	49	277	0.18	>.98	<10%	0.73	4015

Schematics/wiring configurations for delamped combinations, see pages 192 & 193.

For equivalent lamp types, all electrical values above can be used.

To calculate system lumens, substitute appropriate lumen value.

Ex: F017XPS: 4 (lamps) X 1400 (lumens) X 0.73 (BF)= 4890 Lumens

Building Upon Our Commitment to Sustainability and Environmental Responsibility.

OSRAM SYLVANIA is committed to using fewer natural resources, saving energy for our customers, reducing our carbon footprint, and facilitating the recycling of lamps and other materials to avoid millions of pounds of waste in landfills. It's part of our Global Care commitment to social and environmental responsibility. For example, we've eliminated the use of lead in many of our manufacturing processes, while continuing a commitment to maintaining production in the US.



Lead-Free Manufacturing

• Fluorescent manufacturing in Versailles, Kentucky

- Lead-free glass
- Lead-free solder
- Lead-free lamps
 - OCTRON® T8
 - T12 ECOLOGIC®
 - PENTRON® T5*

• HID manufacturing in Manchester, New Hampshire

- Lead-free glass
- Lead-free solder
- Lead-free lamps
 - METALARC® POWERBALL® Ceramic ECOLOGIC
 - METALARC and METALARC Pulse Start ECOLOGIC**
 - LUMALUX® and LUMALUX PLUS® ECOLOGIC

• Electronic ballast manufacturing

- RoHS Compliant***
- Lead-free solder
- Lead-free printed circuit boards

Made in the USA

• OSRAM SYLVANIA operates 12 manufacturing facilities in the USA

* Trace amount of lead exists in the pins

** 175W has trace amount of lead

*** Meets European Union Reduction of Hazardous Substances Directive (Directive 2002/95/EC)



We wrote the books on innovative lighting solutions.

Our four Product Catalogs provide specifications on more than 3000 SYLVANIA and OSRAM branded products. All are designed and manufactured to the highest possible standards to best suit your lighting applications. And all are backed by OSRAM SYLVANIA, the industry leader in lighting solutions for over a century.

