

PRODUCT SPECIFICATIONS

WarmDim® When commissioned for WarmDim®, the luminaire duplicates halogen, with CCT shifting from 3000K at 100% to 1800K at less than 1%.

• Superb color consistency within 2 SDCM of the Black Body curve over dimming range.

Tunable White Mode When commissioned for Tunable White mode, the user has independent control of intensity and CCT from 4350K to 2000K. • Superb color consistency within 2 SDCM of the Black Body curve over CCT range.

Color Rendering Accurate color rendition with 90 CRI and 70 R9 at 3000K

• Minimum 85 CRI and 50 R9 at all other CCTs.

Control Compatibility Compatible with most 0-10V dimming systems or DMX512/RDM. • Refer to installation instruction [P6160](#) for detailed wiring schematics.

Modular Optics 45° cutoff to source and source image • Field interchangeable optics available with 20° Very Narrow Flood, 26° Narrow Flood, or 35° Flood distributions. • Additional distributions of 30°, 40°, 45°, 55° FWHM can be achieved with the use of diffusing films • Patented (US Patent 8,950,911) auto-adjusting optic holder maximizes luminaire efficiency by maintaining optimal LED optic position relative to trim • Accommodates up to three (3) beam control lenses and/or filters.

Adjustability Acu-Aim™ precision geared hot-aiming achieves 370° rotation, 45° tilt • Optimized center beam optics translates light engine forward as it is aimed off nadir.

Reflector .040" aluminum angle-cut reflector in black specular Alzak finish shields housing interior.

Trims Style Trim Ring, Self Flanged and Flangeless reflectors available

• Trim ring features beveled knife edge for clean ceiling interface • Self Flanged reflectors with polished or optional white painted flange • For flangeless installations in drywall ceilings use the FMA3 flangeless adapter • For flangeless installations in wood, stone, or tile ceilings the SFM3*** must be used (specify ceiling thickness and adapter finish).

Life Rated for 50,000 hrs at 70% lumen maintenance.

Buy American This product is assembled in the USA and meets the Buy America(n) government procurement requirements under FARS, DFARS and DOT. Please refer to www.acuitybrands.com/buy-american for additional information.

Warranty - 5YR 5-year limited warranty. Complete warranty terms located at: http://www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

Codes/Labels UL and cUL listed for through branch wiring, damp locations • Meets energy code Air Leakage requirements per ASTM E283 • Union made.

Mounting Non-IC fixtures feature Patented (US Patent 8,038,113) Pro-VI™ bar hanger system, permitting quick placement of housing with 24" on-center joists or suspended ceilings, and vertically adjustable mounting brackets (butterfly brackets) • ICAT fixtures feature bar hangers only.

Junction Box ICAT housings are rated for 4 No. 12 AWG 90°C through branch circuit conductors • Non-IC housings are rated for 8 No. 12 AWG 90°C through branch circuit conductors • Includes (5) ½", (1) ¾", and (4) Non-metallic sheathed cable knock-outs • Push-in electrical connectors for field connections.

Housing/Mounting Frame Housing painted black for visually dark interior • V-Notch in plaster frame and Patented (US Patent 8,277,090) Tru-Line™ Platform featuring +/- ½" translation aids fixture alignment after installation, prior to drywall.

AX3 WDTW 3AC

WARMDIM® & TUNABLE WHITE

ADJUSTABLE/DOWNLIGHT/WALL WASH

1000 LUMEN LED

3" ANGLE-CUT REFLECTOR

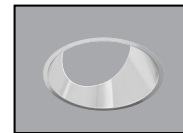
AX3 WDTW with 3AC Trim



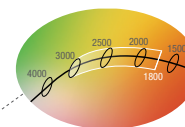
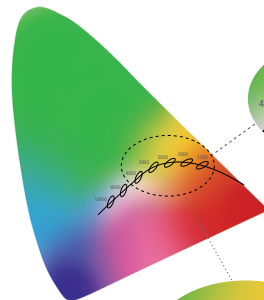
Trim Ring



Self-Flanged



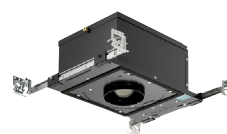
Flangeless

**WarmDim®**

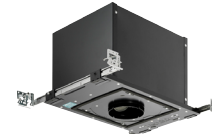
Color temperature warms from 3000K - 1800K when dimmed staying within a 2-step MacAdam ellipse of the Black Body Locus.

Tunable White

Color temperature can be tuned from 4350K - 2000K while staying within a 2-step MacAdam ellipse of the Black Body Locus.



AX3 A



AX3 A (ICAT Option)

Ceiling Thickness ½" - 7/8" ceiling standard. • For thicker ceilings, order CTA3/125 (1/8"-1 ¼") or CTA3/163 (1 ¼"-1 5/8") • CTA3 not required for wood, stone, or tile flangeless applications.

Specifications subject to change without notice.

ORDERING INFORMATION

Example: AX3 A 10LM WDTW 90CRI 26D ZT 120 3AC BS WHR

Series / Housing Style	Lumens	Dynamic Feature	CRI	Beam	Control	Voltage ¹	Options
AX3 A New Const. Universal ADJ/DL/WW	10LM 1000 Lumens	WDTW WarmDim® (1800K-3000K) Tunable White (2000K-4350K)	90CRI	20D 20° beam 26D 26° beam 35D 35° beam	DMXR DMX, RDM Driver, 1% dim ZT 0-10V Dimming	120 277 MVOLT (120-277)	CP Chicago Plenum ICAT IC, Air-Tight

Trim Style	Reflector Finish	Flange Style / Finish	Environment	Ceiling Installation
ADJUSTABLE ACCENT	BS Black Specular	SELF-FLANGED	WET Wet location	SELF-FLANGED FLANGELESS, WOOD/STONE/TILE ²
3AC 3" Angle-Cut Reflector	CD Clear Diffuse	SF Self Flanged (same finish as reflector)		Ceiling ≤ .875" SFM3/087 (B,W) Ceiling ≤ .875"
	CS Clear Specular	WHR White Trim Ring		CTA3/125 Ceiling 0.875" - 1.25" SFM3/125 (B,W) Ceiling 0.875" - 1.25"
	W White Paint	WHFS Self Flanged, White painted flange		CTA3/163 Ceiling 1.25" - 1.625" SFM3/163 (B,W) Ceiling 1.25" - 1.625"
	WTD Wheat Diffuse	FLANGELESS ³		FLANGELESS, GYPSUM
		FM Flangeless		FMA3/087 Ceiling ≤ .875"
				FMA3/125 Ceiling 0.875" - 1.25"
				FMA3/163 Ceiling 1.25" - 1.625"

Ordering Notes

¹ Specify MVOLT for ICAT fixtures. For non-ICAT, specify 120 or 277

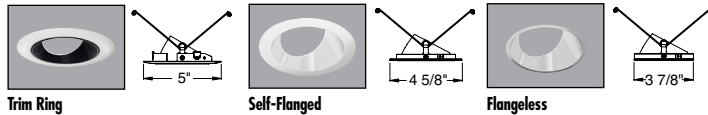
² Specify finish: B=Black, W=White

³ Flangeless trims must be used with Flangeless Adapter, ordered separately

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ADJUSTABLE/DOWNLIGHT/WALL WASH
1000 LUMEN LED
3" ANGLE-CUT REFLECTOR
AX3 WDTW with 3AC Trim

TRIM SELECTION

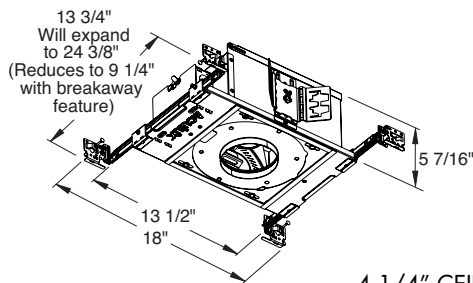
3AC 3" Angle-Cut Reflector



* With WET option

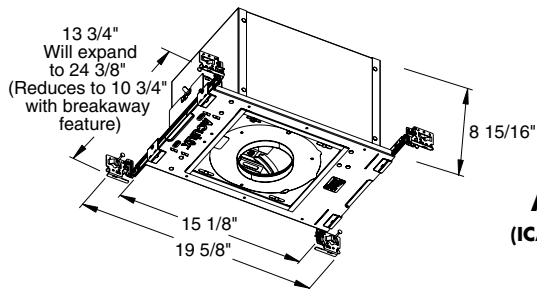
DIMENSIONS

NEW CONSTRUCTION



AX3 A

4 1/4" CEILING CUTOUT
 (REFER TO INSTRUCTION SHEET FOR
 FLANGELESS CEILING CUTOUT)



AX3 A
(ICAT Option)

ELECTRICAL DATA

Housing	AX3 A 10LM WDTW (ICAT option)		AX3 A 10LM WDTW	
Voltage	120	277	120	277
Input Power	18.9W	19.4W	20.9W	21.4W
Input Current	0.16	0.08	0.16	0.08
Frequency	50/60Hz		50/60Hz	
Power Factor	0.99	0.92	0.99	0.92

ACCESSORIES

Cat. #	Description
3AXOPTW/20D	20° Very Narrow Flood Optic
3AXOPTW/26D	26° Narrow Flood Optic
3AXOPTW/35D	35° Flood Optic
AF3/10	10° Film (Use with 26D Optic)
AF3/20	20° Film (Use with 26D Optic)
AF3/30	30° Film (Use with 26D Optic)
AF3/40	40° Film (Use with 26D Optic)
AF3/50	50° Film (Use with 26D Optic)
AF3/60x1	60°x1° Film (Use with 26D Optic)
DIFF 200	Diffuse Spread Lens
SOLITE 200	Uniformity Lens
UVF 200	UV Filter Lens
PRISM 200	Prismatic Lens
LSPREAD 200	Linear Spread Lens
HCLBL 200	Hexcell Louver
HB1	(2) Real Nail 3 Bar Hangers
HB26	(2) 26" C-Channel Bar Hangers
HB50	(2) 50" C-Channel Bar Hangers
LB27	(2) 27" Linear Bar Hangers
EMI20	20W Remote Mount Emergency Inverter
<i>To order, specify catalog number.</i>	

DIFFUSING FILMS

To achieve the desired beam angle (FWHM), specify the following primary LED optic on the luminaire and order the diffusing film from the table below

Desired FWHM	Primary Optic	Film
20°	20D	-
26°	26D	-
30°	26D	AF3/10
35°	35D	-
40°	26D	AF3/30
45°	26D	AF3/40
55°	26D	AF3/50
55°x20°	26D	AF3/60x1

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3" ANGLE-CUT REFLECTOR

PHOTOMETRICS

FLOOD

PHOTOMETRIC REPORT

Test Report: PT10131808R

Catalog No: AX3 A 10LM WDTW
 90CRI 35D ZT MVOLT
 3AC CS WHR
 (Aim at 30°)

Watts: 18.9

Lumens: 931

Luminaire LPW: 49

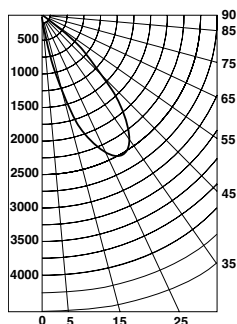
Candlepower

Distribution

(Candelas)

Degrees

Vertical	Candela
0°	382
5°	510
10°	826
15°	1327
20°	1879
25°	2325
30°	2502
35°	2399
40°	2043
45°	1450
50°	821
55°	191
60°	41
65°	6
70°	0
75°	0
80°	0
85°	0
90°	0



NARROW FLOOD

PHOTOMETRIC REPORT

Test Report: PT10131814R

Catalog No: AX3 A 10LM WDTW
 90CRI 26D ZT MVOLT
 3AC CS WHR
 (Aim at 30°)

Watts: 18.9

Lumens: 1002

Luminaire LPW: 53

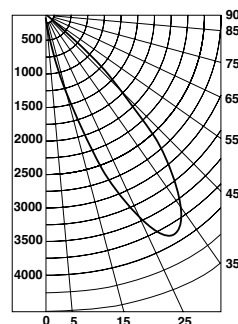
Candlepower

Distribution

(Candelas)

Degrees

Vertical	Candela
0°	287
5°	403
10°	719
15°	1396
20°	2553
25°	3481
30°	3890
35°	3691
40°	2938
45°	1671
50°	606
55°	76
60°	15
65°	3
70°	0
75°	0
80°	0
85°	0
90°	0



VERY NARROW FLOOD

PHOTOMETRIC REPORT

Test Report: PT10131811R

Catalog No: AX3 A 10LM WDTW
 90CRI 20D ZT MVOLT
 3AC CS WHR
 (Aim at 30°)

Watts: 18.9

Lumens: 743

Luminaire LPW: 39

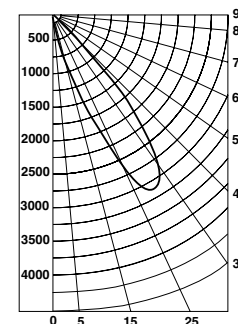
Candlepower

Distribution

(Candelas)

Degrees

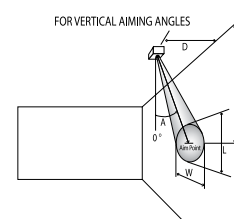
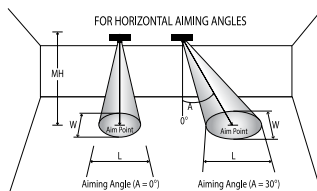
Vertical	Candela
0°	450
5°	434
10°	550
15°	953
20°	1682
25°	2661
30°	3170
35°	2838
40°	1885
45°	692
50°	287
55°	54
60°	19
65°	5
70°	0
75°	0
80°	0
85°	0
90°	0



CBCP • Centerbeam candlepower

FC • Footcandles at beam center (aim point)

In vertical aiming applications, aim point (X) is determined by dividing distance from the wall (D) by the tangent of the desired aim angle (A) (0.5774 for 30°, 1.0 for 45°).



Horizontal Aiming Angles



Vertical Aiming Angles



Beam Spread CBCP		0°				30°			30°					40°			
		MH	FC	L	W	FC	L	W	D	FC	X	L	W	FC	X	L	W
 20°	3170	4	198	1.6	1.6	129	2.1	1.8	2	99	3.5	3.5	1.6	210	2.4	2.0	1.2
		6	88	2.3	2.3	57	3.1	2.7	3	44	5.2	5.3	2.3	94	3.6	3.0	1.8
		8	50	3.1	3.1	32	4.2	3.6	4	25	6.9	7.0	3.1	53	4.8	4.0	2.4
		10	32	3.9	3.9	21	5.2	4.5	5	16	8.7	8.8	3.9	34	6.0	5.0	3.0
		12	22	4.7	4.7	14	6.3	5.4	6	11	10.4	10.5	4.7	23	7.2	6.0	3.6
 26°	3890	4	243	1.9	1.9	158	2.6	2.2	2	122	3.5	4.7	1.9	258	2.4	2.5	1.5
		6	108	2.9	2.9	70	3.9	3.3	3	54	5.2	7.0	2.9	115	3.6	3.8	2.2
		8	61	3.9	3.9	39	5.2	4.5	4	30	6.9	9.3	3.9	65	4.8	5.1	3.0
		10	39	4.8	4.8	25	6.6	5.6	5	19	8.7	11.7	4.8	41	6.0	6.4	3.7
		12	27	5.8	5.8	18	7.9	6.7	6	14	10.4	14.0	5.8	29	7.2	7.6	4.5
 35°	2502	4	156	2.4	2.4	102	3.2	2.7	2	78	3.5	6.4	2.4	166	2.4	3.2	1.8
		6	70	3.5	3.5	45	4.8	4.1	3	35	5.2	9.5	3.5	74	3.6	4.9	2.7
		8	39	4.7	4.7	25	6.5	5.4	4	20	6.9	12.7	4.7	42	4.8	6.5	3.7
		10	25	5.9	5.9	16	8.1	6.8	5	13	8.7	15.9	5.9	27	6.0	8.1	4.6
		12	17	7.1	7.1	11	9.7	8.2	6	9	10.4	19.1	7.1	18	7.2	9.7	5.5

Photometry is at 3000K CCT

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3" ANGLE-CUT REFLECTOR

PHOTOMETRICS

FLOOD

PHOTOMETRIC REPORT

Test Report: PT10131809R

Catalog No: AX3 A 10LM WDTW
 90CRI 35D ZT MVOLT
 3AC CS WHR WET
 (Aim at 30°)

Watts: 19.8

Lumens: 858

Luminaire LPW: 43

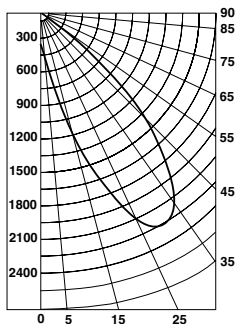
Candlepower

Distribution

(Candelas)

Degrees

Vertical	Candela
0°	369
5°	490
10°	779
15°	1222
20°	1720
25°	2103
30°	2264
35°	2164
40°	1840
45°	1297
50°	722
55°	172
60°	39
65°	7
70°	0
75°	0
80°	0
85°	0
90°	0



NARROW FLOOD

PHOTOMETRIC REPORT

Test Report: PT10131815R

Catalog No: AX3 A 10LM WDTW
 90CRI 26D ZT MVOLT
 3AC CS WHR WET
 (Aim at 30°)

Watts: 19.8

Lumens: 933

Luminaire LPW: 47

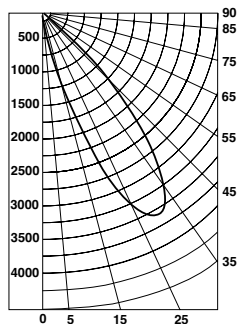
Candlepower

Distribution

(Candelas)

Degrees

Vertical	Candela
0°	309
5°	416
10°	691
15°	1295
20°	2324
25°	3169
30°	3538
35°	3360
40°	2681
45°	1518
50°	556
55°	75
60°	19
65°	4
70°	0
75°	0
80°	0
85°	0
90°	0



VERY NARROW FLOOD

PHOTOMETRIC REPORT

Test Report: PT10131812R

Catalog No: AX3 A 10LM WDTW
 90CRI 20D ZT MVOLT
 3AC CS WHR WET
 (Aim at 30°)

Watts: 19.8

Lumens: 686

Luminaire LPW: 35

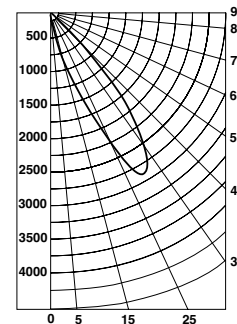
Candlepower

Distribution

(Candelas)

Degrees

Vertical	Candela
0°	406
5°	417
10°	514
15°	870
20°	1524
25°	2414
30°	2865
35°	2575
40°	1739
45°	665
50°	275
55°	56
60°	21
65°	6
70°	0
75°	0
80°	0
85°	0
90°	0

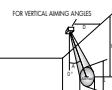
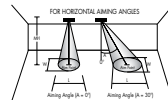


CBCP • Centerbeam candlepower

FC • Footcandles at beam center (aim point)

In vertical aiming applications, aim point (X) is determined by dividing distance from the wall (D) by the tangent of the desired aim angle (A) (0.5774 for 30°, 1.0 for 45°).

Diagram illustrating beam spread and aiming angles.



Beam Spread	CBCP	0°						30°						40°					
		MH	FC	L	W	FC	L	W	D	FC	X	L	W	FC	X	L	W	FC	X
20°	2865	4	179	1.6	1.6	116	2.1	1.8	2	90	3.5	3.5	1.6	190	2.4	2.0	1.2		
		6	80	2.3	2.3	52	3.1	2.7	3	40	5.2	5.3	2.3	85	3.6	3.0	1.8		
		8	45	3.1	3.1	29	4.2	3.6	4	22	6.9	7.0	3.1	48	4.8	4.0	2.4		
		10	29	3.9	3.9	19	5.2	4.5	5	14	8.7	8.8	3.9	30	6.0	5.0	3.0		
		12	20	4.7	4.7	13	6.3	5.4	6	10	10.4	10.5	4.7	21	7.2	6.0	3.6		
26°	3538	4	221	1.9	1.9	144	2.6	2.2	2	111	3.5	4.7	1.9	235	2.4	2.5	1.5		
		6	98	2.9	2.9	64	3.9	3.3	3	49	5.2	7.0	2.9	104	3.6	3.8	2.2		
		8	55	3.9	3.9	36	5.2	4.5	4	28	6.9	9.3	3.9	59	4.8	5.1	3.0		
		10	35	4.8	4.8	23	6.6	5.6	5	18	8.7	11.7	4.8	38	6.0	6.4	3.7		
		12	25	5.8	5.8	16	7.9	6.7	6	12	10.4	14.0	5.8	26	7.2	7.6	4.5		
35°	2264	4	142	2.4	2.4	92	3.2	2.7	2	71	3.5	6.4	2.4	150	2.4	3.2	1.8		
		6	63	3.5	3.5	41	4.8	4.1	3	31	5.2	9.5	3.5	67	3.6	4.9	2.7		
		8	35	4.7	4.7	23	6.5	5.4	4	18	6.9	12.7	4.7	38	4.8	6.5	3.7		
		10	23	5.9	5.9	15	8.1	6.8	5	11	8.7	15.9	5.9	24	6.0	8.1	4.6		
		12	16	7.1	7.1	10	9.7	8.2	6	8	10.4	19.1	7.1	17	7.2	9.7	5.5		

Photometry is at 3000K CCT