

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 and Flangeless reflectors available • Trim ring features beveled knife edge for clean ceiling interface • 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.

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

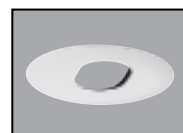
Codes/Labels UL and cUL listed for through branch wiring, damp locations • Meets energy code Air Leakage requirements per ASTM E283 • Union made.

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.

WARMDIM® & TUNABLE WHITE ADJUSTABLE/DOWNLIGHT/WALL WASH 1000 LUMEN LED 3" ADJUSTABLE SLOT PINHOLE AX3 WDTW with 3AOVAL Trim



Trim Ring



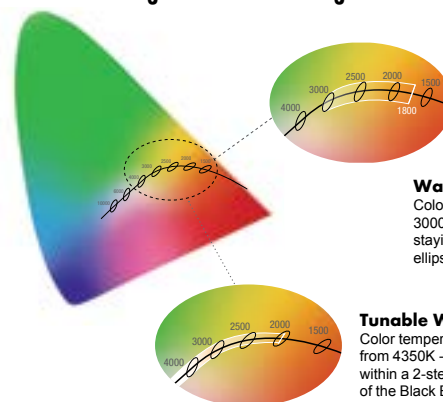
Flangeless



Warm Dimming



Tunable White

**WarmDim®**

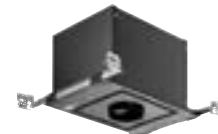
Color temperature warms from 3000K - 1800K when dimmed staying within a 2-step MacAdam ellipse of the Black Body Locus.

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 (7/8"-1 ¼"), CTA3/163 (1 ¼"-1 5/8") or CTA3/200 (1 5/8"- 2") • 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 3AOVAL BS WHSF

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

HOUSING OPTIONS

Square Trim Style	Reflector Finish	Flange Style / Finish	Ceiling Installation
ADJUSTABLE ACCENT	BS Black Specular	SELF FLANGED	SELF-FLANGED FLANGELESS, WOOD/STONE/TILE ²
3AOVAL 3" Adjustable Slot Pinhole		BLSF Self Flanged, Black painted flange WSHF Self Flanged, White painted flange FLANGELESS ³ WHFM Flangeless, White trim BLFM Flangeless, Black trim	Ceiling ≤ .875" SFM3/100 (B,W) Ceiling ≤ 1.00" Ceiling 0.875" - 1.25" SFM3/138 (B,W) Ceiling 1.00" - 1.375" Ceiling 1.25" - 1.625" SFM3/163 (B,W) Ceiling 1.375" - 1.625" FLANGELESS, GYPSUM FMA3/087 Ceiling ≤ .875" FMA3/125 Ceiling 0.875" - 1.25" FMA3/163 Ceiling 1.25" - 1.625"

TRIM OPTIONS

Ordering Notes

¹ MVOLT standard on DMXR

² Specify finish : B=Black, W=White

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

NOTES

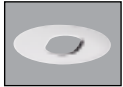
WARMDIM® & TUNABLE WHITE
ADJUSTABLE/DOWNLIGHT/WALL WASH
1000 LUMEN LED

3" ADJUSTABLE SLOT PINHOLE

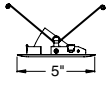
AX3 WDTW with 3AOVAL Trim

TRIM SELECTION

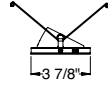
3AOVAL 3" Adjustable Slot Pinhole



Self-Flanged

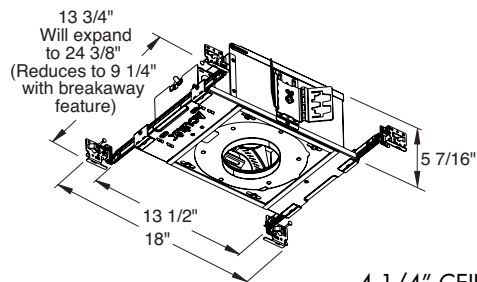


Flangeless



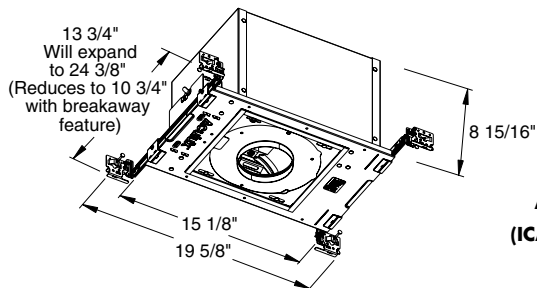
DIMENSIONS

NEW CONSTRUCTION



AX3 A

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



AX3 A
 (ICAT Option)

ACCESSORIES

Cat. #	Description
3AXOPTTW/20D	20° Very Narrow Flood Optic
3AXOPTTW/26D	26° Narrow Flood Optic
3AXOPTTW/35D	35° Flood Optic
AF3/10	10° Film (Use with Spot Optic)
AF3/20	20° Film (Use with Spot Optic)
AF3/30	30° Film (Use with Spot Optic)
AF3/40	40° Film (Use with Spot Optic)
AF3/50	50° Film (Use with Spot Optic)
AF3/60x1	60°x1° Film (Use with Spot Optic)
T7420	Diffuse Spread Lens
T7421	Uniformity Lens
T7422	UV Filter Lens
T7477	Prismatic Lens
T7478	Linear Spread Lens
T7459BL	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 Emergency Lighting Inverter

To order, specify catalog number.

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°	24D	-
30°	24D	AF3/10
35°	35D	-
40°	24D	AF3/30
45°	24D	AF3/40
55°	24D	AF3/50
55°x20°	24D	AF3/60x1

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

WARMDIM® & TUNABLE WHITE
ADJUSTABLE/DOWNLIGHT/WALL WASH
1000 LUMEN LED

3" ADJUSTABLE SLOT PINHOLE

AX3 WDTW with 3AOVAL Trim

PHOTOMETRICS

FLOOD

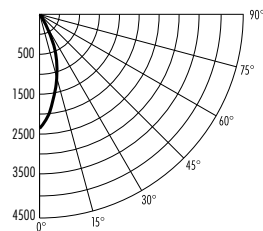
PHOTOMETRIC REPORT

Test Report #: PT10131804R
 Catalog No: AX3 A 10LM WDTW
 90CRI 35D ZT MVOLT
 3AOVAL BS WHSF
 (Aim at 0°)

Watts: 19.8

Lumens: 674

Luminaire LPW: 34



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	2408
5	2227
15	1175
25	259
35	24
45	5
55	0
65	0
75	0
85	0
90	0

NARROW FLOOD

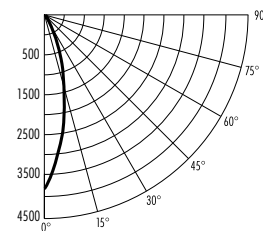
PHOTOMETRIC REPORT

Test Report #: PT10131711R
 Catalog No: AX3 A 10LM WDTW
 90CRI 26D ZT MVOLT
 3AOVAL BS WHSF
 (Aim at 0°)

Watts: 19.8

Lumens: 752

Luminaire LPW: 38



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	3818
5	3464
15	1265
25	136
35	16
45	3
55	0
65	0
75	0
85	0
90	0

VERY NARROW FLOOD

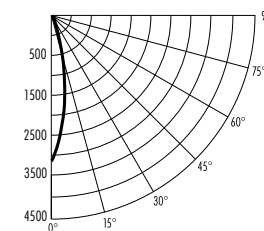
PHOTOMETRIC REPORT

Test Report #: PT10131704R
 Catalog No: AX3 A 10LM WDTW
 90CRI 20D ZT MVOLT
 3AOVAL BS WHSF
 (Aim at 0°)

Watts: 19.8

Lumens: 427

Luminaire LPW: 22



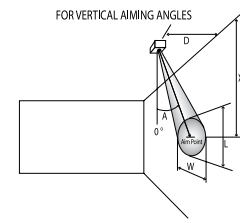
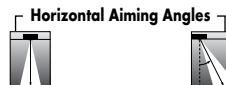
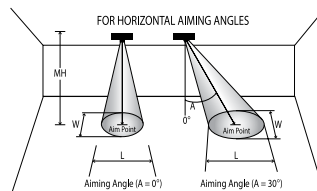
CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	3105
5	2476
15	504
25	119
35	22
45	6
55	6
65	0
75	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°).



Beam Type	Beam Spread	CBCP	0°			30°			30°			40°		
			MH	FC	L	W	FC	L	W	D	FC	X	L	W
VNFL	20°	3105	4	194	1.2	1.2	126	1.7	1.4	2	97	3.5	2.7	1.2
			6	86	1.8	1.8	56	2.5	2.1	3	43	5.2	4.0	1.8
			8	49	2.5	2.5	32	3.3	2.8	4	24	6.9	5.3	2.5
			10	31	3.1	3.1	20	4.1	3.6	5	16	8.7	6.6	3.1
			12	22	3.7	3.7	14	5.0	4.3	6	11	10.4	8.0	3.7
NFL	26°	3818	4	239	1.7	1.7	155	2.3	2.0	2	119	3.5	4.0	1.7
			6	106	2.6	2.6	69	3.5	3.0	3	53	5.2	6.0	2.6
			8	60	3.5	3.5	39	4.7	4.0	4	30	6.9	8.0	3.5
			10	38	4.3	4.3	25	5.9	5.0	5	19	8.7	10.1	4.3
			12	27	5.2	5.2	17	7.0	6.0	6	13	10.4	12.1	5.2
FL	35°	2408	4	151	2.1	2.1	98	2.9	2.4	2	75	3.5	5.3	2.1
			6	67	3.2	3.2	43	4.3	3.6	3	33	5.2	8.0	3.2
			8	38	4.2	4.2	24	5.7	4.9	4	19	6.9	10.6	4.2
			10	24	5.3	5.3	16	7.2	6.1	5	12	8.7	13.3	5.3
			12	17	6.3	6.3	11	8.6	7.3	6	8	10.4	16.0	6.3
			4	151	2.1	2.1	98	2.9	2.4	2	75	3.5	5.3	2.1
			6	67	3.2	3.2	43	4.3	3.6	3	33	5.2	8.0	3.2
			8	38	4.2	4.2	24	5.7	4.9	4	19	6.9	10.6	4.2
			10	24	5.3	5.3	16	7.2	6.1	5	12	8.7	13.3	5.3
			12	17	6.3	6.3	11	8.6	7.3	6	8	10.4	16.0	6.3

Photometry is at 3000K CCT