

PRODUCT SPECIFICATIONS

LED Light Engine Fixture to fixture color consistency within a 2-step MacAdam ellipse • 2700K, 3000K, 3500K, or 4000K color temperatures are available with 80 CRI minimum • 2700K and 3000K are also available with 90 CRI minimum.

Modular Optics 45° cutoff to source and source image • Available with field interchangeable optics in 15°, 24°, 35°, and 45° distributions • Additional distributions of 20°, 30°, 40°, 50°, 55°, 60°, and 60° x 20° FWHM can be achieved with the use of the diffusing films and spot primary optic.

Adjustability Patented Acu-Aim™ precision geared hot-aiming achieves 365° rotation, 40° tilt with any ceiling thickness from ½" to 1" • Acu-Aim™ translates light engine forward as it is aimed off nadir, ensuring maximum light and low brightness • Black aiming mechanism preserves dark aperture.

Reflector Die cast trim in white or black with black oculus • Black shield eliminates visibility into housing.

Trim Style Self Flanged and Flangeless (drywall ceilings only) styles are available

LED Driver Choice of two drivers to accommodate voltages from 120-277 volts AC at 50/60Hz • Dims as low as 1% with most incandescent and electronic low voltage dimmers or 0-10V dimmers • For a list of compatible dimmers, refer to [ACXL2-DIM](#) • Power Factor > 0.9 • Field replaceable from above or below ceiling.

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

Codes/Labels UL and cUL listed for damp locations • Wet location listed with WET option • ENERGY STAR® Certified with select trim finishes • Union made.

Remodel Installation Fixture installs from below the ceiling and secured to remodel ring.

Wiring Includes (2) ½" knockouts equipped with pryout slots and are compatible with flexible electrical supply only • Supplied with quick connect electrical connectors.

Ceiling Thickness ½" – 1½" ceiling standard.

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

Warranty 5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at www.acuitybrands.com/support/warranty/terms-and-conditions

NOTE: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25°C. Specifications subject to change without notice.

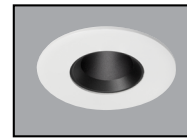
2" LED UNIVERSAL RECESSED
ADJUSTABLE/DOWNLIGHT/WALL WASH

800/1200/1500 LUMEN

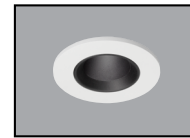
ROUND 1 1/4" ADJUSTABLE PINHOLE

REMODEL

AX2 AR with 2APIN Trim



Self-Flanged



Flangeless



AX2 AR

ORDERING INFORMATION

Example: AX2 AR G2 08LM 30K 80CRI 24D FPC 120 2APIN BD WHSF

Series / Housing Style		Lumens	CCT	CRI	Beam	Driver	Voltage ²	Options
AX2 AR G2 Remodel Universal ADJ/DL/WW	08LM	800 Lumens	27K 2700K	80CRI	15D 15° beam	FPC Phase cut dimming, 1% dim	120	NLIGHT ³ nLight dimming pack controls (must be remote mounted)
	12LM	1200 Lumens	30K 3000K	90CRI ¹	24D 24° beam	ZT 0-10V Dimming, 1% dim	MVOLT	
	15LM	1500 Lumens	35K 3500K		35D 35° beam			
			40K 4000K		45D 45° beam			

Trim Style	Reflector Finish	Flange Style / Finish	Environment	Ceiling Installation
ADJUSTABLE 2APIN Adjustable Pinhole, 1 ¼"	BD Black Diffuse	SELF FLANGED	WET Wet location	SELF-FLANGED Ceiling 0.5" - 1.5"
		WHF White, flanged		
		BLS Black, flanged		
		FLANGELESS ⁴		FLANGELESS, GYPSUM
		WHFM Flangeless, White trim		FMA2R Ceiling 0.5" - 1.5"
		BLFM Flangeless, Black trim		

Ordering Notes

¹ 90CRI available on 27K and 30K only.

⁴ Flangeless trims in drywall ceilings must specify ceiling installation (FMA2R).

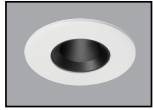
² MVOLT standard on ZT. 120 standard on FPC.

³ NLIGHT compatible with ZT only.

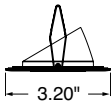
2" LED UNIVERSAL RECESSED ADJUSTABLE/DOWNLIGHT/WALL WASH 800/1200/1500 LUMEN ROUND 1 1/4" ADJUSTABLE PINHOLE REMODEL AX2 AR with 2APIN Trim

TRIM SELECTION

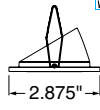
2APIN Adjustable Pinhole, 1 1/4"



Self-Flanged



Flangeless

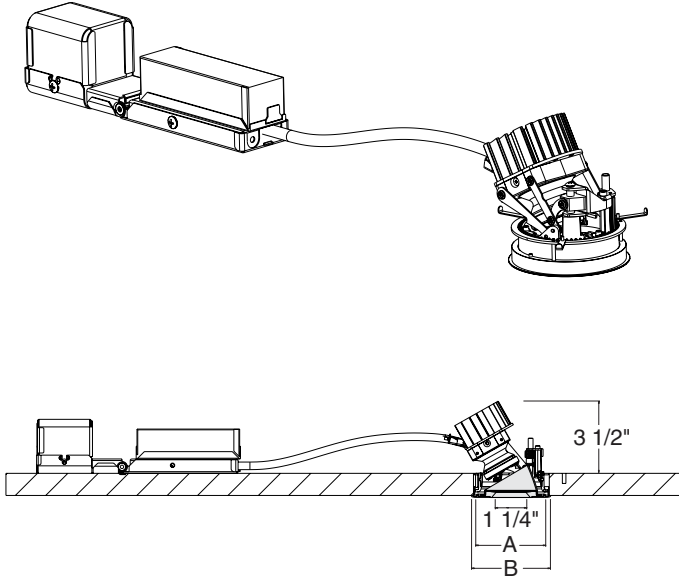


CCT/CRI:	80CRI 27K, 30K, 35K, 40K; 90CRI 27K, 30K
Optic:	15D, 24D, 35D, 45D
Trim Finish:	BD BLFM/BLSF, BD WHFM/WHSF

* With WET option

DIMENSIONS

REMODEL



Trim Style	Cutout Size (A)	Trim O.D. (B)
Self Flanged Trims	2.953" (75mm)	3.20"
Flangeless Trims (Drywall Ceiling)	3"	2.875"

Note: An accurate hole saw is recommended for best results.

ACCESSORIES

Cat. #	Description
2AXG2OPT/15D	15° Spot Optic
2AXG2OPT/24D	24° Narrow Flood Optic
2AXG2OPT/35D	35° Flood Optic
2AXG2OPT/45D	45° Wide Flood Optic
AF2/10	10° Film (Use with 15D Optic)
AF2/20	20° Film (Use with 15D Optic)
AF2/30	30° Film (Use with 15D Optic)
AF2/40	40° Film (Use with 15D Optic)
AF2/50	50° Film (Use with 15D Optic)
AF2/60	60° Film (Use with 15D Optic)
AF2/90x1	90°x1° Film (Use with 15D Optic)
IIS 35 HE	Up to 35W Remote Mount Micro Inverter (AX2SQ 2A G2 15LM and AX2SQ 3A G2 12LM Excluded)
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 accessory from the table below

Desired FWHM	Primary Optic	Film
15°	15D	-
20°	15D	AF2/10
24°	24D	-
30°	15D	AF2/20
35°	35D	-
40°	15D	AF2/30
45°	45D	-
50°	15D	AF2/40
55°	15D	AF2/50
60°	15D	AF2/60
60°x20°	15D	AF2/90x1

Lumen Package	08LM			12LM			15LM		
Driver Option	FPC	ZT		FPC	ZT		FPC	ZT	
Voltage	120	120	277	120	120	277	120	120	277
Input Power	10.0	9.9	10.1	14.7	14.3	14.3	17.3	16.5	16.4
Input Current	0.08	0.08	0.04	0.12	0.12	0.06	0.14	0.14	0.06
Frequency	50/60Hz			50/60Hz			50/60Hz		
Power Factor	0.99	0.99	0.9	0.99	0.99	0.92	0.99	0.99	0.92

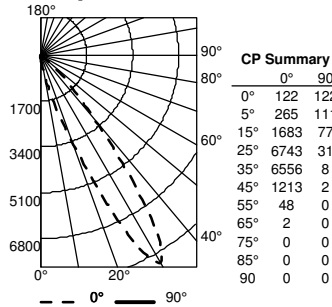
2" LED UNIVERSAL RECESSED ADJUSTABLE/DOWNLIGHT/WALL WASH 800/1200/1500 LUMEN ROUND 1 1/4" ADJUSTABLE PINHOLE REMODEL AX2 AR with 2APIN Trim

PHOTOMETRICS

AX2 AR G2 15LM 30K 80CRI 15D FPC 120 2APIN BD

3000K LEDs, input watts: 17.3,
delivered lumens: 1157, LM/W = 67,
test no. PT07172704,
tested in accordance to IESNA LM-79

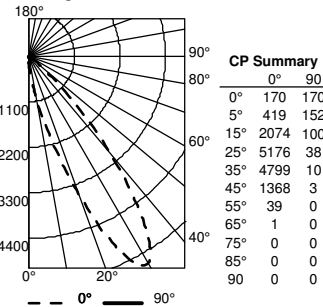
Beam Spread: 15D



AX2 AR G2 15LM 30K 80CRI 24D FPC 120 2APIN BD

3000K LEDs, input watts: 17.3,
delivered lumens: 1116, LM/W = 65,
test no. PT07172712,
tested in accordance to IESNA LM-79

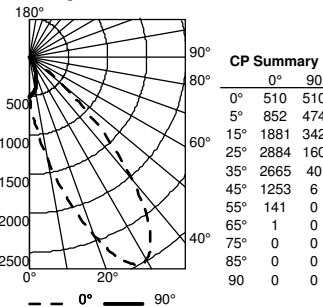
Beam Spread: 24D



AX2 AR G2 15LM 30K 80CRI 35D FPC 120 2APIN BD

3000K LEDs, input watts: 17.3,
delivered lumens: 1074, LM/W = 62,
test no. PT07172720R,
tested in accordance to IESNA LM-79

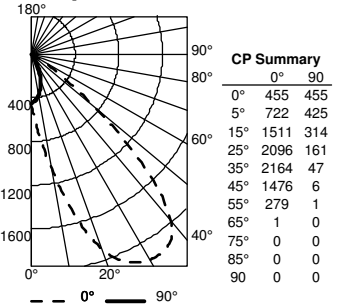
Beam Spread: 35D



AX2 AR G2 15LM 30K 80CRI 45D FPC 120 2APIN BD

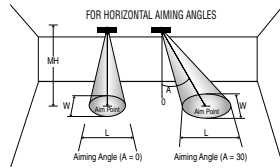
3000K LEDs, input watts: 17.3,
delivered lumens: 1037, LM/W = 60,
test no. PT07172728R,
tested in accordance to IESNA LM-79

Beam Spread: 45D

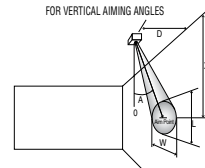


CBCP • Centerbeam candlepower
FC • Footcandles at beam center (aim point)

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
	15° 8889	4	556	1.2	1.2	361	1.6	1.4	2	278	3.5	2.5	1.2	590	2.4	1.5	0.9
		6	247	1.8	1.8	160	2.4	2.1	3	123	5.2	3.8	1.8	262	3.6	2.2	1.4
		8	139	2.4	2.4	90	3.2	2.7	4	69	6.9	5.1	2.4	148	4.8	3.0	1.8
		10	89	3.0	3.0	58	4.0	3.4	5	44	8.7	6.4	3.0	94	6.0	3.7	2.3
		12	62	3.6	3.6	40	4.8	4.1	6	31	10.4	7.6	3.6	66	7.2	4.5	2.8
	24° 5774	4	361	1.8	1.8	234	2.4	2.0	2	180	3.5	4.2	1.8	383	2.4	2.3	1.4
		6	160	2.7	2.7	104	3.6	3.1	3	80	5.2	6.2	2.7	170	3.6	3.5	2.1
		8	90	3.5	3.5	59	4.8	4.1	4	45	6.9	8.3	3.5	96	4.8	4.6	2.8
		10	58	4.4	4.4	38	6.0	5.1	5	29	8.7	10.4	4.4	61	6.0	5.8	3.4
		12	40	5.3	5.3	26	7.2	6.1	6	20	10.4	12.5	5.3	43	7.2	6.9	4.1
	35° 2992	4	187	2.5	2.5	121	3.5	2.9	2	94	3.5	7.1	2.5	199	2.4	3.5	2.0
		6	83	3.8	3.8	54	5.2	4.4	3	42	5.2	10.7	3.8	88	3.6	5.3	2.9
		8	47	5.0	5.0	30	6.9	5.8	4	23	6.9	14.3	5.0	50	4.8	7.1	3.9
		10	30	6.3	6.3	19	8.7	7.3	5	15	8.7	17.9	6.3	32	6.0	8.8	4.9
		12	21	7.5	7.5	13	10.4	8.7	6	10	10.4	21.4	7.5	22	7.2	10.6	5.9
	45° 2171	4	136	3.1	3.1	88	4.4	3.6	2	68	3.5	11.5	3.1	144	2.4	4.8	2.4
		6	60	4.7	4.7	39	6.6	5.4	3	30	5.2	17.2	4.7	64	3.6	7.2	3.6
		8	34	6.2	6.2	22	8.8	7.2	4	17	6.9	22.9	6.2	36	4.8	9.6	4.9
		10	22	7.8	7.8	14	11.0	9.0	5	11	8.7	28.7	7.8	23	6.0	12.0	6.1
		12	15	9.4	9.4	10	13.1	10.8	6	8	10.4	34.4	9.4	16	7.2	14.4	7.3

LUMEN OUTPUT MULTIPLIERS

Color Temperature	CRI	Multiplier
2700K	80	0.95
3000K	80	1.00
3500K	80	1.05
4000K	80	1.10

Color Temperature	CRI	Multiplier
2700K	90	0.83
3000K	90	0.87

Lumen Package	Multiplier
800	0.58
1200	0.86
1500	1.00

2" LED UNIVERSAL RECESSED ADJUSTABLE/DOWNLIGHT/WALL WASH

800/1200/1500 LUMEN

ROUND 1 1/4" ADJUSTABLE PINHOLE REMODEL

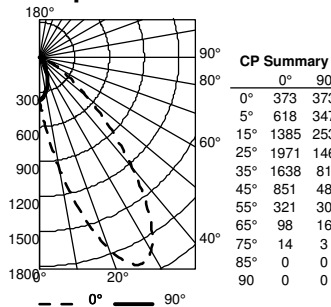
AX2 AR with 2APIN Trim with WET option

PHOTOMETRICS

AX2 AR G2 15LM 30K 80CRI 15D FPC 120 2APIN BD WET

3000K LEDs, input watts: 17.3,
delivered lumens: 837, LM/W = 50,
test no. PT07172708,
tested in accordance to IESNA LM-79

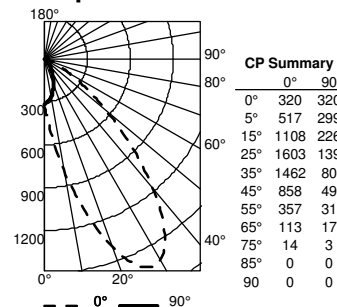
Beam Spread: 15D



AX2 AR G2 15LM 30K 80CRI 24D FPC 120 2APIN BD WET

3000K LEDs, input watts: 17.3,
delivered lumens: 814, LM/W = 47,
test no. PT07172716,
tested in accordance to IESNA LM-79

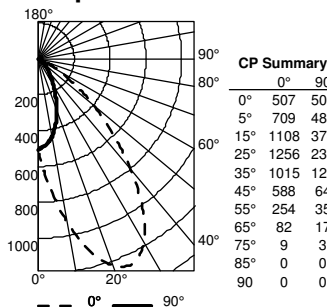
Beam Spread: 24D



AX2 AR G2 15LM 30K 80CRI 35D FPC 120 2APIN BD WET

3000K LEDs, input watts: 17.3,
delivered lumens: 805, LM/W = 47,
test no. PT07172724R,
tested in accordance to IESNA LM-79

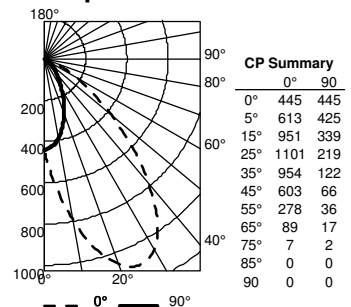
Beam Spread: 35D



AX2 AR G2 15LM 30K 80CRI 45D FPC 120 2APIN BD WET

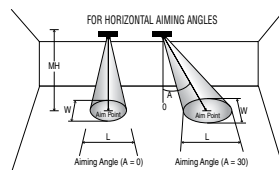
3000K LEDs, input watts: 17.3,
delivered lumens: 770, LM/W = 45,
test no. PT07172732R,
tested in accordance to IESNA LM-79

Beam Spread: 45D

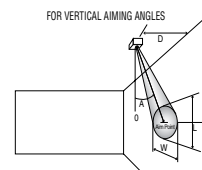


CBCP • Centerbeam candlepower
FC • Footcandles at beam center (aim point)

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
15° 	1921	4	120	2.4	2.4	78	3.3	2.7	2	60	3.5	6.5	2.4	128	2.4	3.3	1.8
		6	53	3.6	3.6	35	4.9	4.1	3	27	5.2	9.7	3.6	57	3.6	4.9	2.8
		8	30	4.8	4.8	19	6.5	5.5	4	15	6.9	12.9	4.8	32	4.8	6.6	3.7
		10	19	5.9	5.9	12	8.2	6.9	5	10	8.7	16.2	5.9	20	6.0	8.2	4.6
		12	13	7.1	7.1	9	9.8	8.2	6	7	10.4	19.4	7.1	14	7.2	9.9	5.5
24° 	1623	4	101	2.6	2.6	66	3.5	2.9	2	51	3.5	7.4	2.6	108	2.4	3.6	2.0
		6	45	3.8	3.8	29	5.3	4.4	3	23	5.2	11.0	3.8	48	3.6	5.4	3.0
		8	25	5.1	5.1	16	7.0	5.9	4	13	6.9	14.7	5.1	27	4.8	7.2	4.0
		10	16	6.4	6.4	11	8.8	7.4	5	8	8.7	18.4	6.4	17	6.0	9.0	5.0
		12	11	7.7	7.7	7	10.6	8.8	6	6	10.4	22.1	7.7	12	7.2	10.8	6.0
35° 	1179	4	74	3.0	3.0	48	4.2	3.5	2	37	3.5	10.4	3.0	78	2.4	4.5	2.3
		6	33	4.5	4.5	21	6.3	5.2	3	16	5.2	15.6	4.5	35	3.6	6.8	3.5
		8	18	6.0	6.0	12	8.4	6.9	4	9	6.9	20.7	6.0	20	4.8	9.1	4.7
		10	12	7.5	7.5	8	10.5	8.7	5	6	8.7	25.9	7.5	13	6.0	11.3	5.8
		12	8	9.0	9.0	5	12.6	10.4	6	4	10.4	31.1	9.0	9	7.2	13.6	7.0
45° 	1065	4	67	3.3	3.3	43	4.7	3.8	2	33	3.5	13.9	3.3	71	2.4	5.3	2.6
		6	30	5.0	5.0	19	7.1	5.8	3	15	5.2	20.8	5.0	31	3.6	8.0	3.9
		8	17	6.7	6.7	11	9.4	7.7	4	8	6.9	27.7	6.7	18	4.8	10.7	5.2
		10	11	8.3	8.3	7	11.8	9.6	5	5	8.7	34.7	8.3	11	6.0	13.4	6.5
		12	7	10.0	10.0	5	14.1	11.5	6	4	10.4	41.6	10.0	8	7.2	16.0	7.8

LUMEN OUTPUT MULTIPLIERS

Color Temperature	CRI	Multiplier
2700K	80	0.95
3000K	80	1.00
3500K	80	1.05
4000K	80	1.10

Color Temperature	CRI	Multiplier
2700K	90	0.83
3000K	90	0.87

Lumen Package	Multiplier
800	0.58
1200	0.86
1500	1.00