

**PRODUCT SPECIFICATIONS**

**LED Light Engine** 2 step MacAdam ellipse binning • 2700K, 3000K, 3500K, or 4000K CCTs available with 80 CRI minimum • 2700K and 3000K also available with 90 CRI and 95 CRI minimum (R9>90).

**Quiet, Glare-free Ceiling** 45° visual cutoff to source and source image.

**Modular Optics** Available with 12°, 24°, 35° and 50° field interchangeable optics • 20°, 30°, 40°, 45° and 60° FWHM can be achieved with diffusing films and 12° optic • Patented (US Patent 8,950,911) auto-adjusting optic holder maximizes efficiency by maintaining optimal LED optic position • AX3 A/AX3 D accommodates three (3) beam control lenses and/or filters • AX3 LPA/AX3 LPD accepts two (2) beam control lenses and/or filters.

**Reflector** .040" aluminum parabolic reflector in black specular Alzak finish shields housing interior.

**Trims Styles** Self Flanged and Flangeless trims styles available • Must specify FMA3 (gypsum) or SFM3 (wood/stone/tile) option for flangeless installations.

**LED Driver** Accommodates 120-277V input and multiple control protocols • For a list of compatible dimmers, refer to [ACLXLED3-DIM](#) • Power Factor > 0.9 • Field replaceable from below ceiling.

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

**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](http://www.acuitybrands.com/buy-american) for additional information.

**Warranty - 5YR** 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](http://www.acuitybrands.com/support/warranty/terms-and-conditions)

**Codes/Labels** UL and cUL listed for through branch wiring, damp locations • Meets energy code Air Leakage requirements per ASTM E283 • ENERGY STAR® certified with select trims and housings • Can be used to comply with Title 24, Part 6 with select trims and housings • ICAT housings are rated for direct contact with insulation • AX3 08LM/12LM/15LM (ICAT option) are compatible with spray foam insulation with an R-Value of 3.7 per inch or less • Union made.

**New Construction Mounting** Features patented (US Patent 8,038,113) Pro-VI™ bar hanger system • All fixtures except for 25LM ICAT also feature vertically adjustable mounting brackets (butterfly brackets) • Centerline indicators on plaster frame and patented (US Patent 8,277,090) Tru-Line™ Platform featuring +/- 1/2" translation aids fixture alignment after installation, prior to drywall.

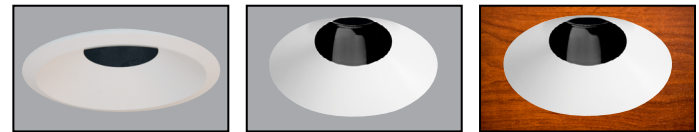


A+ Capable options indicated by this color background.

**3" LED RECESSED DOWNLIGHT**  
**NEW CONSTRUCTION**



**BEVEL**  
**AX3/3DBV**  
**800 - 3000 LUMEN**



Self Flanged

Flangeless (Gypsum)

Flangeless (Wood/Stone/Tile)

**Housing Styles** Fixed Downlight and Universal New Construction housings are available • Fixed downlight housings are compatible with downlight trims • Universal housings are compatible with downlight, adjustable, and wall wash trims.

**Junction Box** Rated for 4 No. 12 AWG 90° C through branch circuit conductors and includes (6) 1/2", (1) 3/4", and (4) Non-metallic sheathed cable knock-outs • Push-in electrical connectors for field connections.

**Ceiling Thickness** 1/2" - 1 5/8" ceiling

**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.

**ORDERING INFORMATION**

Example: AX3 LPD G4 12LM 30K 80CRI 24D FPC 120 ICAT 3DBV BS WHSF

Housing Style	Lumens	CCT	CRI	Beam	Driver	Voltage <sup>3</sup>	Options
<b>Downlight Housings</b>	<b>08LM</b> 800 Lumens	<b>27K</b> 2700K	<b>80CRI</b>	<b>12D</b> 12° beam	<b>GZ1</b> 0-10V, 1% dim	<b>120</b>	<b>CP<sup>4</sup></b> Chicago Plenum
<b>AX3 D G4</b> New Construction Fixed Downlight	<b>12LM</b> 1200 Lumens	<b>30K</b> 3000K	<b>90CRI<sup>2</sup></b>	<b>24D</b> 24° beam	<b>EZ1</b> eldoLED 0-10V, 1% dim	<b>277</b>	<b>ICAT<sup>5</sup></b> IC, Air-Tight
<b>AX3 LPD G4</b> Low Profile Fixed Downlight	<b>15LM</b> 1500 Lumens	<b>35K</b> 3500K	<b>95CRI<sup>2</sup></b>	<b>35D</b> 35° beam	<b>EZB</b> eldoLED 0-10V, <1% dim	<b>MVOLT (120-277)</b>	<b>NLIGHT<sup>6</sup></b> nLight dimming pack controls
	<b>20LM</b> 2000 Lumens	<b>40K</b> 4000K		<b>50D</b> 50° beam	<b>FPC</b> Phase cut dimming, 5% dim		
<b>Universal ADJ/DL/WW Housings</b>	<b>25LM</b> 2500 Lumens				<b>ECOS2</b> Lutron Hi-Lume 2-wire forward phase, 1% dim		
<b>AX3 A G4</b> New Construction Universal ADJ/DL/WW	<b>30LM<sup>1</sup></b> 3000 Lumens				<b>ECOD</b> Lutron Hi-Lume EcoSystem, 1% dim		
<b>AX3 LPA G4</b> Low Profile Universal ADJ/DL/WW					<b>EDXB</b> eldoLED DMX, <1% min		
					<b>EDAB</b> eldoLED DALI, 1% min		

Trim Style	Reflector Finish	Flange Style / Finish	Environment	Ceiling Installation
<b>3DBV</b> Bevel	<b>BS</b> Black Specular	<b>FLANGED</b> <b>BLSF</b> Black painted Trim <b>WHSF</b> White painted Trim <b>FLANGELESS<sup>7</sup></b> <b>BLFM</b> Black Flangeless <b>WHFM</b> White Flangeless	<b>WET</b> Wet location (Solite Lens)	<b>FLANGED</b> Ceiling ≤ .875" <b>CTA3/125</b> Ceiling 0.875" - 1.25" <b>CTA3/163</b> Ceiling 1.25" - 1.625" <b>FLANGELESS, GYPSUM</b> <b>FMA3/087</b> Ceiling ≤ .875" <b>FMA3/125</b> Ceiling 0.875" - 1.25" <b>FMA3/163</b> Ceiling 1.25" - 1.625" <b>FLANGELESS, WOOD/STONE/TILE<sup>8</sup></b> <b>SFM3/087 (B,W)</b> Ceiling ≤ 0.875" <b>SFM3/125 (B,W)</b> Ceiling 0.875" - 1.25" <b>SFM3/163 (B,W)</b> Ceiling 1.25" - 1.625"

**Ordering Notes**

<sup>1</sup> 30LM not available with LPD or LPA.      <sup>4</sup> CP available up to 20LM for LPD and LPA; available up to 25LM for D and A.      <sup>7</sup> Must specify FMA3 or SFM3 option.  
<sup>2</sup> 90CRI and 95CRI available on 27K and 30K only.      <sup>5</sup> ICAT not available with LPD or LPA at 25LM; not available with D or A at 30LM.      <sup>8</sup> Specify finish: B = Black, W = White.  
<sup>3</sup> MVOLT standard on GZ1, EZ1, EZB, ECOD, EDXB, EDAB unless NLIGHT specified. Must be 120 for FPC or ECOS2.      <sup>6</sup> Must specify 120 or 277 volts. NLIGHT only available with EZ1 or EZB.

# 3" LED RECESSED DOWNLIGHT NEW CONSTRUCTION BEVEL AX3/3DBV 800 - 3000 LUMEN

## ACCESSORIES

Accessories			
<b>3AXOPT/12D</b>	12° Optic	<b>DCCF 200 HL4250</b>	Daylight Blue Correction Lens
<b>3AXOPT/24D</b>	24° Optic	<b>DIFF 200</b>	Diffuse Spread Lens
<b>3AXOPT/35D</b>	35° Optic	<b>SOLITE 200</b>	Uniformity Lens
<b>3AXOPT/50D</b>	50° Optic	<b>UVF 200</b>	UV Filter Lens
<b>AF3/10</b>	10° Diffusing Film	<b>PRISM 200</b>	Prismatic Lens
<b>AF3/20</b>	20° Diffusing Film	<b>LSPREAD 200</b>	Linear Spread Lens
<b>AF3/30</b>	30° Diffusing Film	<b>HCLBL 200</b>	Hexcell Louver
<b>AF3/40</b>	40° Diffusing Film		
<b>AF3/50</b>	50° Diffusing Film		
<b>AF3/60x1</b>	60°x1° Diffusing Film		
<b>HB1</b>	Real Nail 3 Bar Hangers		
<b>HB26</b>	26" C-Channel Bar Hangers		
<b>HB50</b>	50" C-Channel Bar Hangers		
<b>LB27</b>	27" Linear Bar Hangers		
<b>IIS 35 HE</b>	Up to 35W Remote Mount Micro Inverter (30LM Excluded)		

## DIFFUSING FILMS

Desired FWHM	Primary Optic	Film
12°	12D	-
20°	12D	<b>AF3/10</b>
24°	24D	-
30°	12D	<b>AF3/20</b>
35°	35D	-
40°	12D	<b>AF3/30</b>
45°	12D	<b>AF3/40</b>
50°	50D	-
60°	12D	<b>AF3/50</b>
20°x60°	12D	<b>AF3/60x1</b>

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

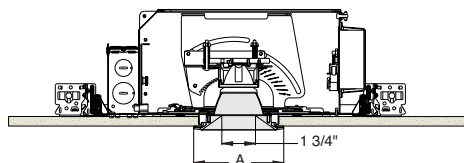
## ELECTRICAL DATA

Lumen Package	08LM		12LM		15LM		20LM		25LM		30LM	
Voltage	120	277	120	277	120	277	120	277	120	277	120	277
Input Power	7.0	7.6	11.0	12.0	13.8	14.6	19.7	20.2	25.8	26.3	32.9	33.3
Input Current	0.03	0.06	0.09	0.05	0.12	0.06	0.17	0.08	0.22	0.1	0.28	0.13
Frequency	50/60Hz		50/60Hz		50/60Hz		50/60Hz		50/60Hz		50/60Hz	
Power Factor	>0.9	>0.9	>0.9	>0.9	>0.9	>0.9	>0.9	>0.9	>0.9	>0.9	>0.9	>0.9

	<b>CCT/CRI:</b>	80CRI 27K, 30K, 35K, 40K	90CRI 27K, 30K
	<b>Optic:</b>	12D, 24D, 35D	
	<b>Reflector Finish:</b>	BS	

	<b>Construction:</b>	ICAT
	<b>CCT/CRI:</b>	90CRI 27K, 30K
	<b>Optic:</b>	12D, 24D, 35D, 50D
	<b>Reflector Finish:</b>	BS

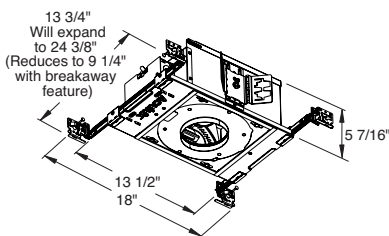
## DIMENSIONS



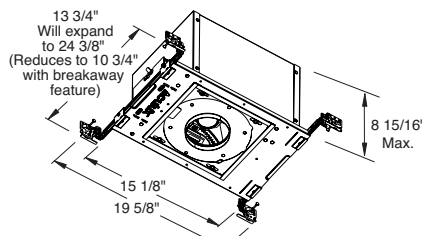
	A
Self Flanged	4 5/8"
Flangeless	3 7/8"

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

## NEW CONSTRUCTION (AX3 D/AX3 A)

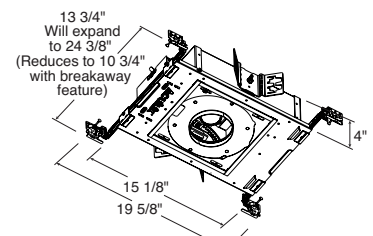


**ICAT: 20LM & Less**  
**Non-ICAT: 25LM & 30LM**



**ICAT: 25LM**

## LOW PROFILE (AX3 LPD/AX3 LPA)

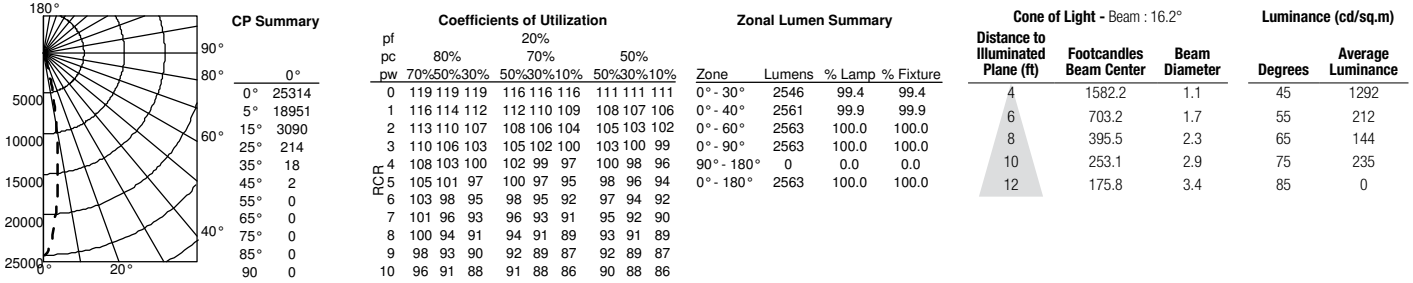


**ICAT: 20LM & Less**  
**Non-ICAT: 25LM**

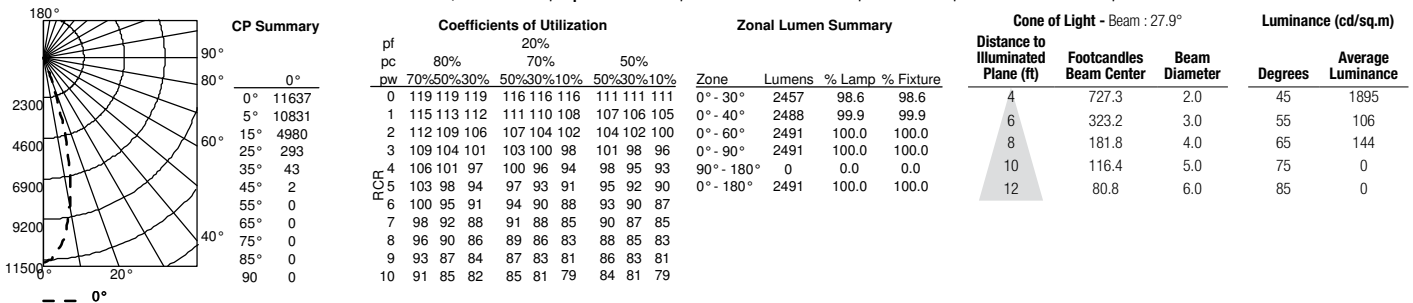
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## PHOTOMETRICS

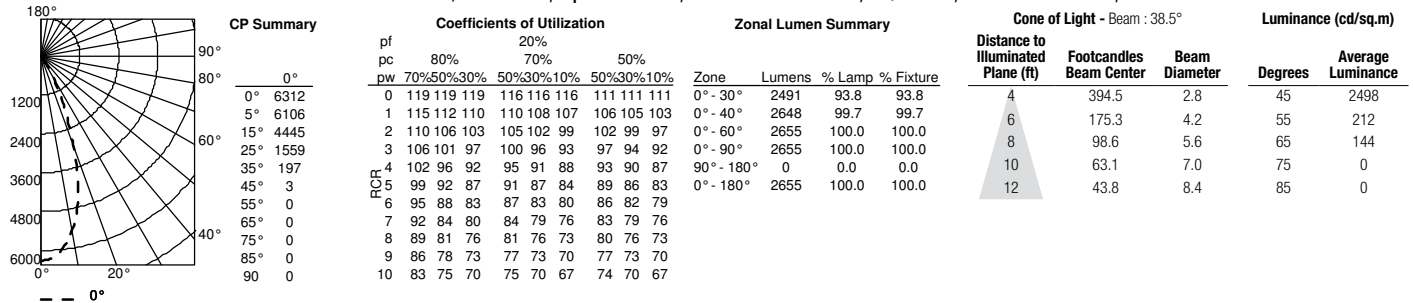
**AX3 G4 30LM 30K 80CRI 12D EZI MVOLT + 3DBV BS, 3000K LEDs, input watts: 32.7, delivered lumens: 2563, LM/W = 78, test no. PT02182604, tested in accordance to IESNA LM-79**



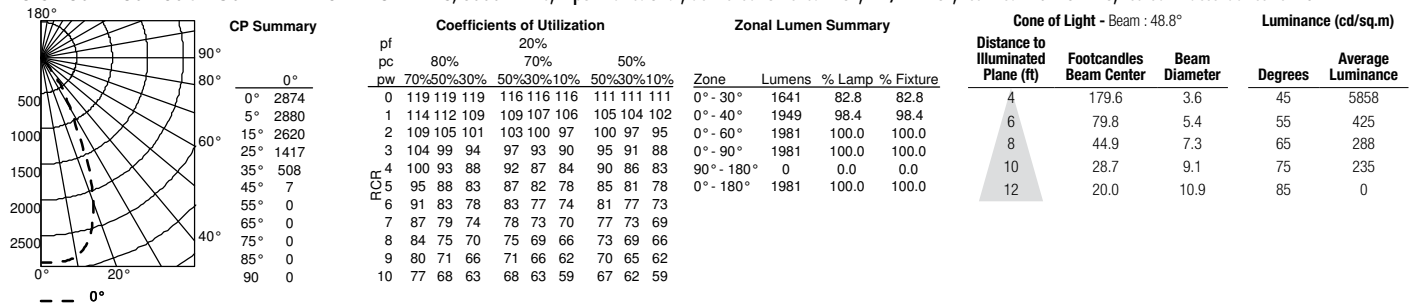
**AX3 G4 30LM 30K 80CRI 24D EZI MVOLT + 3DBV BS, 3000K LEDs, input watts: 32.7, delivered lumens: 2491, LM/W = 76, test no. PT02182612, tested in accordance to IESNA LM-79**



**AX3 G4 30LM 30K 80CRI 35D EZI MVOLT + 3DBV BS, 3000K LEDs, input watts: 32.7, delivered lumens: 2655, LM/W = 81, test no. PT02182720, tested in accordance to IESNA LM-79**



**AX3 G4 30LM 30K 80CRI 50D EZI MVOLT + 3DBV BS, 3000K LEDs, input watts: 32.7, delivered lumens: 1981, LM/W = 61, test no. PT02182728, tested in accordance to IESNA LM-79**



## LUMEN OUTPUT MULTIPLIERS

CCT/CRI	Multiplier		
	80CRI	90CRI	95CRI
2700K	100%	86%	65%
3000K	100%	88%	69%
3500K	105%		
4000K	107%		

Lumens	Multiplier
30LM	100%
25LM	87%
20LM	70%
15LM	50%
12LM	40%
08LM	27%