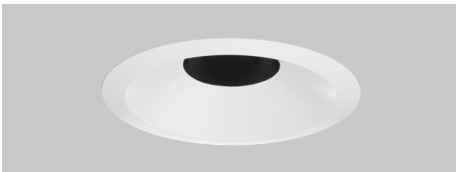


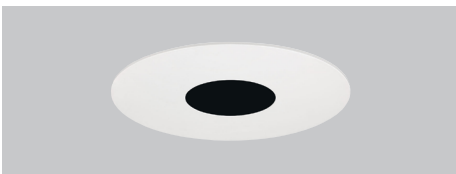
TRIM STYLES



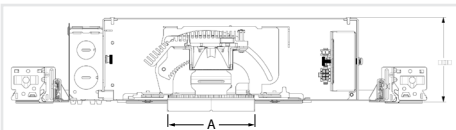
Reflectors



Bevels



Pinholes



A Dimension:
Self Flanged: 4.625"
Flangeless: 3.875"

FEATURES

SPOT ON! OPTICS

- 45° Visual cutoff to source and source image
- Field Interchangeable TIR Optics in 10 distributions
- Patented self-adjusting optic holder accommodates up to 3 beam control lenses or filters (US Patent 8,950,911)

TRU-LINE™ PRECISION INSTALLATION

- Patented aperture translation features +/- 1/2" of translation ensures perfect fixture-to-fixture alignment (US Patent 8,277,090)
- Robust Pro-VI™ bar hangers provide robust, non-binding action. (US Patent 8,038,113)

EXCEPTIONAL PERFORMANCE FROM 3-INCH APERTURE

- Up to 1929 lumens delivered!
- Exceptionally consistent color with < 2SDCM for Static White & Tunable White
- Excellent color rendition with 95+ CRI | 90+ R9 Available
- Tunable White CCT range of 2700K - 5000K

PERFORMANCE

LUMEN PACKAGE	WATTS IN	DELIVERED LUMENS	EFFICACY (LPW)	# DEVICE ADDRESSES
Static White				
08LM	7	749	107	1
12LM	10	1099	110	1
15LM	13	1365	105	1
20LM	19	1929	102	1
Tunable White				DALI8
08LM	11	1018	93	1
12LM	17	1521	89	1
15LM	19	1665	88	1

Performance with 3DP* trim at 30K | 80CRI (Static White) & 50K | 90CRI (Tunable White)



FLANGE STYLES



Self-Flanged



Flangeless (Gypsum)



Flangeless (Wood | Stone | Tile)

ORDERING INFORMATION

EXAMPLE: AX3 D G4 12LM 30K 90CRI 24D DALI 57VDC 3DBV BS WHSF

Housing		Lumens		CCT		CRI		Beam		Control Input		Voltage		Ratings	
AX3 D New Construction Fixed Downlight	G4	Static White		27K 2700K 30K 3000K 35K 3500K 40K 4000K	80CRI 90CRI 95CRI ¹	12D 12° beam 20D 20° beam 24D 24° beam 30D 30° beam 35D 35° beam 40D 40° beam 45D 45° beam 50D 50° beam 60D 60° beam 60D20D 60° x 20°	DALI eldoLED SOLOdrive DALI Logarithmic dimming to <1%	57VDC 57VDC, Class 2 Only	(blank) Non-ICAT CP Chicago Plenum ICAT IC Rated, Air-tight						
		08LM 800 lumens													
		12LM 1200 lumens													
		15LM 1500 lumens													
		20LM 2000 lumens													
		AX3 LPD Low Profile New Construction Fixed Downlight													
		(blank)	Tunable White							TUWH 2700K - 5000K	90CRI	20D 20° beam 24D 24° beam 35D 35° beam 40D 40° beam 50D 50° beam 60D20D 60° x 20°	DALI8 eldoLED DT8 log <1% min		
			08LM 800 lumens												
			12LM 1200 lumens												
			15LM 1500 lumens												

Downlight Trim		Reflector Finish	Flange Style	Trim Lens Environment	
Reflectors					
3DP²	Deep Downlight Reflector (For Static White) 	W White Paint CD Clear Diffuse CS Clear Specular BS Black Specular WTD Wheat Diffuse	Flanged SF Self Flanged (same finish as reflector) WHSF Self Flanged, White Painted Flange (not available with W finish) Flangeless³ FM Flangeless	(blank) Open Damp Location WET⁴ Solite Wet Location	
3DPD²	Deep Downlight Reflector (For Tunable White) 				
3DH	Hyperbolic Reflector 				
Bevels		Upper Reflector (Shield) Finish	Trim Finish & Flange Style		
3DBV	Downlight Bevel 	BS Black Specular BD Black Diffuse	Flanged WHSF White, Flanged BLSF Black, Flanged Flangeless³ WHFM White, Flangeless BLFM Black, Flangeless	(blank) Open Damp Location WET Solite Wet Location	
3SHDBV	Dead Front, Non Conductive Shower Downlight Bevel 				
Pinholes					
3DPIN	1 1/4" Downlight Pinhole 				
3DPINLG	1 3/4" Downlight Pinhole 				

Ceiling Installation	
Flanged	
(blank)	Ceiling Thickness < 0.875"
CTA3/125	Ceiling Thickness 0.875" - 1.25"
CTA3/163	Ceiling Thickness 1.25" - 1.625"
Flangeless (Gypsum)	
FMA3/087	Ceiling Thickness < 0.875"
FMA3/125	Ceiling Thickness 0.875" - 1.25"
FMA3/163	Ceiling Thickness 1.25" - 1.625"
Flangeless (Wood Stone Tile)⁵	
SFM3/087 (B,W)	Ceiling Thickness < 0.875"
SFM3/125 (B,W)	Ceiling Thickness 0.875" - 1.25"
SFM3/163 (B,W)	Ceiling Thickness 1.25" - 1.625"

ORDERING NOTES

1. 95CRI available on 27K and 30K only. Contact factory for other CCT/CRI combinations.
2. 3DP not available with TUWH. 3DPD not available with Static White
3. Must specify FMA3 or SFM3 option.
3. 3DH not available with WET.
5. Specify finish: B = Black, W = White.

REFLECTOR FINISHES

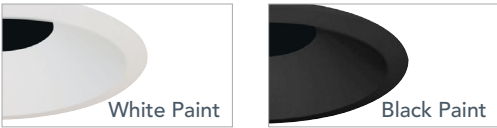


BEVEL & PINHOLE FINISHES

Upper Reflector Finish



Trim Finish



ACCESSORIES

Beam Control Lenses & Filters		Replacement Optics		Optional Installation Accessories	
DIFF 200	Diffuse Spread lens	Static White Optics		Bar Hangers	
SOLITE 200	Solite Uniformity Lens	3AXOPT/12D	12° Beam	HB1	Juno Real Nail® 3 Bar Hangers
PRISM 200	Prismatic Lens	3AXOPT/20D	20° Beam	HB26	26" C-Channel Bar Hangers
LSPREAD 200	Linear Spread Lens	3AXOPT/24D	24° Beam	HB50	50" C-Channel Bar Hangers
HCLBL 200	Hexcell Louver	3AXOPT/30D	30° Beam	LB27	27" Linear Bar Hangers
UVF 200	UV Filter Lens	3AXOPT/35D	35° Beam	Note: Fixture supplied with Pro-VI™ Bar Hangers	
DCCF 200 HAL4250	Daylight Blue Correction	3AXOPT/40D	40° Beam		
		3AXOPT/45D	45° Beam		
		3AXOPT/50D	50° Beam		
		3AXOPT/60D	60° Beam		
		3AXOPT/60D20D	60°x20° Beam		
		Tunable White Optics			
		3AXTWOPT/20D	20° Beam		
		3AXTWOPT/24D	24° Beam		
		3AXTWOPT/35D	35° Beam		
		3AXTWOPT/40D	40° Beam		
		3AXTWOPT/50D	50° Beam		
		3AXTWOPT/60D20D	60°x20° Beam		



PRODUCT SPECIFICATIONS

FIELD INTERCHANGEABLE LED LIGHT ENGINE

- Future proof and easy to maintain-serviceable from below the ceiling

Static White:

- <2SDCMBinning
- 2700K|3000K|3500K|4000KCCT
- 80+CRI available for all CCTs
- 90+CRI available for 2700K,3000K
- 95+ CRI (>90 R9) available for 2700K, 3000K

Tunable White:

- Tunable CCT range 2700K - 5000K
- <2 SDCM Binning, 90+ CRI

SPOT-ON! PRECISION OPTICS

- Field Interchangeable TIR Optics from 12° FWHM to 60° FWHM provide smooth, striation-free beams
- Patented auto-adjusting optic holder (US Patent 8,950,911). Static White fixtures accommodate up to three (3) beam control lenses and/or filters for AX3 D and up to two (2) for AX3 LPD. Tunable White fixtures accommodate up to two (2) beam control lenses and/or filters.
- UGR is zero for fixtures aimed at nadir with a cut-off equal to or less than 60°, per CIE 117-1996 Discomfort Glare in Interior Lighting. [UGR FAQs](#)

HIGH QUALITY TRIMS

- Available with die cast bevels and pinholes, and spun, aluminum reflectors.
- Non-corrosive, polycarbonate bevel option for shower applications
- Available in Self Flanged and Flangeless
- Must specify FMA3 for gypsum flangeless installation
- Must specify SMF3 for wood, stone, tile flangeless installation

FIELD REPLACEABLE DRIVER

- Accommodates 52.3VDC - 57.0 VDC input and multiple control protocols
- Dims without perceived flicker to <1% depending on driver specified
- Field replaceable without tools from below the ceiling
- >0.9 Power Factor

GOVERNMENT PROCUREMENT

- BAA – Buy American Act: This product is available in a version that qualifies as a domestic end product under the Buy American Act as implemented in the FAR and DFARS.
- BABA – Build America Buy America: This product is available in a version that qualifies as produced in the United States under the definitions of the Build America, Buy America Act, as implemented by 2 C.F.R. Part 184 and other agency implementing regulations, including Department of Transportation regulations.
- Please refer to www.acuitybrands.com/resources/buy-american for additional information.

WARRANTY & RATED LIFE

- LED is rated for >50,000 hours at 70% lumen maintenance
- 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

NEW CONSTRUCTION MOUNTING

- Features patented (US Patent 8,038,113) Pro-VI™ bar hanger system compatible with wood stud and T-bar
- Includes vertically adjustable mounting brackets (butterfly brackets) *Excluding 25LM ICAT housings
- 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 finishing the ceiling.

JUNCTION BOX

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

CODES & LABELS

- UL & cUL listed for through branch wiring, damp location
- 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. Reference T24 JA-8 database for list of compliant housings and trims.
- Static White ICAT housings* are rated for direct contact with insulation, including open and closed cell spray foam with a maximum R-value of 7.2R/in. This allows use in ceiling cavities insulated up to R60. TUWH ICAT housings* are rated for direct contact with insulation, including open cell spray foam with a maximum R-value of 3.8R/in. They are not suitable for use with closed cell spray foam. *Note: Options: "25LM ICAT", "15LM TUWH ICAT" are excluded and not suitable for use with spray foam insulation.
- 3SHDBV option can be used to comply with dead front and/or non-conductive lighting electrical code requirements. Flanged (SF) version is certified to IP65
- Union made

CEILING THICKNESS

- Accommodates 1/2" to 1.625" ceiling thickness

A+ CAPABLE LUMINAIRE

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning, when used with Acuity Brands controls products.

- All configurations of this luminaire are calibrated and tested to meet the Acuity Brand's specification for chromatic consistency - including color rendering, color fidelity and color temperature tolerance around standard CIE chromaticity coordinates.

To learn more about Acuity A+ standards, specifications and testing, visit www.acuitybrands.com/aplus.

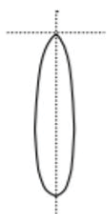
NOTE

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.

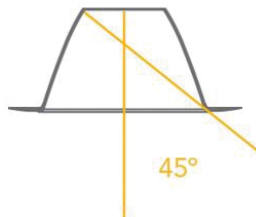
The product images shown are for illustration purposes only and may not be an exact representation of the product.

Spot On! Precision Optics



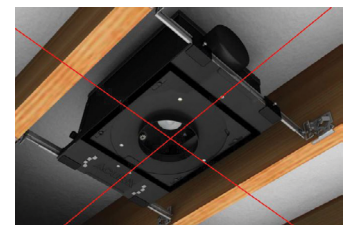
Smooth striation-free beam with high centerbeam distribution

Exceptional Brightness and Glare Control



45° visual cutoff to source and source image

Tru-Line™ Precision Installation



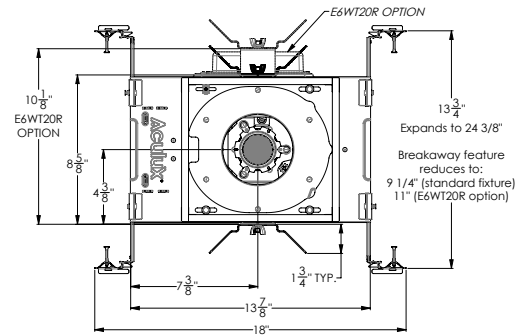
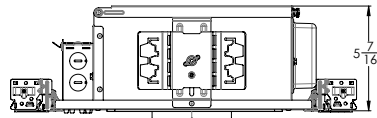
Pro-VI™ bar hangers, coupled with +/-1/2" aperture translation makes perfect installation achievable

DIMENSIONS

New Construction Downlight (AX3 D)

Ceiling Cutout: 4-1/4" (Refer to installation instructions for flangeless ceiling cutout)

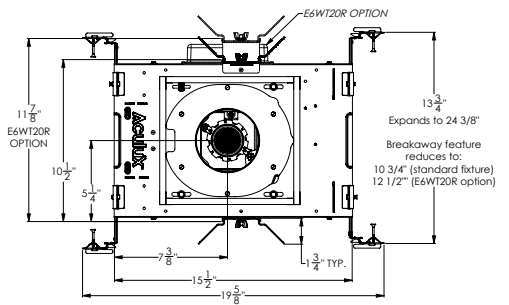
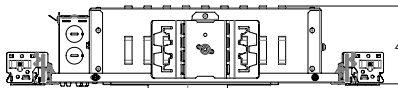
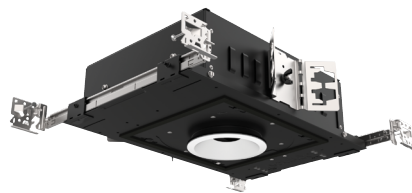
ICAT/Non-ICAT: 08LM | 12LM | 15LM | 20LM



Low Profile New Construction Downlight (AX3 LPD)

Ceiling Cutout: 4-1/4" (Refer to installation instructions for flangeless ceiling cutout)

ICAT/Non-ICAT: 08LM | 12LM | 15LM | 20LM



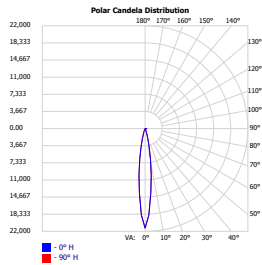


PHOTOMETRICS - 3DP

Tested in accordance to IESNA LM79

12 Degree Beam

AX3 D G4 20LM 30K 80CRI 12D 3DP CS Wattage: 18.32, Lumens: 1929, LPW: 105, S/MH: .24, Test No: PT03181641P28



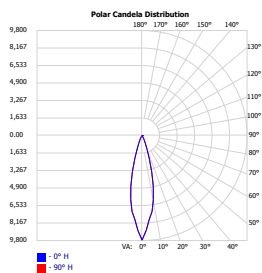
CANDELA SUMMARY	
0°	21324
10°	6591
20°	669
30°	79
40°	5
50°	1
60°	0
70°	0
80°	0
90°	0

ZONAL LUMEN SUMMARY		
Zone	Lumens	%
0-30	1907	98.8%
0-40	1927.6	99.9%
0-60	1929.2	100.0%
60-90	0.1	0.0%
0-90	1929.3	100.0%

CONE OF LIGHT			
Mounting Height	Initial Center Beam	Beam Diameter	
		Horizontal	Vertical
8'	333.19	2	2
10'	213.24	2.5	2.5
12'	148.08	3	3
14'	108.8	3.5	3.5
16'	83.3	4	4

24 Degree Beam

AX3 D G4 20LM 30K 80CRI 24D 3DP CS Wattage: 18.32, Lumens: 1938, LPW: 106, S/MH: .42, Test No: PT03181643P28



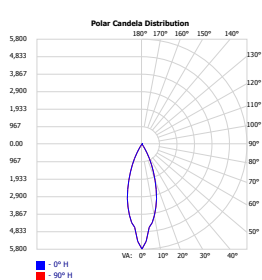
CANDELA SUMMARY	
0°	9762
10°	6077
20°	1337
30°	177
40°	11
50°	1
60°	0
70°	0
80°	0
90°	0

ZONAL LUMEN SUMMARY		
Zone	Lumens	%
0-30	1897.1	97.9%
0-40	1935.2	99.9%
0-60	1938	100.0%
60-90	0.1	0.0%
0-90	1938.1	100.0%

CONE OF LIGHT			
Mounting Height	Initial Center Beam	Beam Diameter	
		Horizontal	Vertical
8'	152.53	3.5	3.5
10'	97.62	4.4	4.4
12'	67.79	5.3	5.3
14'	49.8	6.2	6.2
16'	38.13	7	7

35 Degree Beam

AX3 D G4 20LM 30K 80CRI 35D 3DP CS Wattage: 18.32, Lumens: 1971, LPW: 108, S/MH: .52, Test No: PT03181645P28



CANDELA SUMMARY	
0°	5789
10°	3979
20°	2119
30°	547
40°	34
50°	1
60°	0
70°	0
80°	0
90°	0

ZONAL LUMEN SUMMARY		
Zone	Lumens	%
0-30	1843	93.5%
0-40	1964	99.7%
0-60	1970.4	100.0%
60-90	0.1	0.0%
0-90	1970.5	100.0%

CONE OF LIGHT			
Mounting Height	Initial Center Beam	Beam Diameter	
		Horizontal	Vertical
8'	90.46	4.6	4.6
10'	57.89	5.8	5.8
12'	40.2	6.9	6.9
14'	29.54	8.1	8.1
16'	22.61	9.2	9.2

LUMEN | CBCP MULTIPLIERS

CCT	80+ CRI	90+ CRI	95+ CRI
2700K	1.00	0.86	0.65
3000K	1.00	0.88	0.69
3500K	1.05	-	-
4000K	1.07	-	-

08LM	12LM	15LM	20LM
0.38	0.57	0.71	1.0

*Refer to website for additional photometry (alternate trims, CCT/CRI, lumen packages)

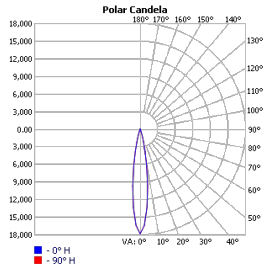


PHOTOMETRICS - 3DBV

Tested in accordance to IESNA LM79

12 Degree Beam

AX3 D G4 20LM 30K 80CRI 12D 3DBV BS Wattage: 19.7, Lumens: 1803.4, LPW: 91.54, S/MH: .28, Test No: PT03181641P28



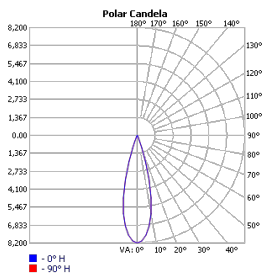
CANDELA SUMMARY	
0°	17809
10°	6392
20°	597
30°	46
40°	4
50°	0
60°	0
70°	0
80°	0
90°	0

ZONAL LUMEN SUMMARY		
Zone	Lumens	%
0-30	1,791.7	99.4%
0-40	1,802.0	99.9%
0-60	1,803.3	100.0%
60-90	0.1	0.0%
0-90	1,803.4	100.0%

CONE OF LIGHT			
Mounting Height	Initial Center Beam	Beam Diameter	
		Horizontal	Vertical
8'	278.27	2.3	2.3
10'	178.09	2.9	2.9
12'	123.67	3.4	3.4
14'	90.86	4	4
16'	69.57	4.6	4.6

24 Degree Beam

AX3 D G4 20LM 30K 80CRI 24D 3DBV BS Wattage: 19.7, Lumens: 1752.4, LPW: 88.96, S/MH: .47, Test No: PT03181643P28



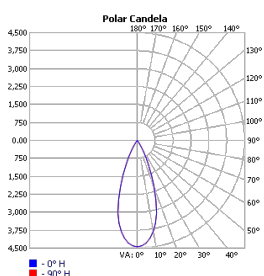
CANDELA SUMMARY	
0°	8187
10°	6050
20°	1023
30°	87
40°	9
50°	0
60°	0
70°	0
80°	0
90°	0

ZONAL LUMEN SUMMARY		
Zone	Lumens	%
0-30	1,728.4	98.6%
0-40	1,750.4	99.9%
0-60	1,752.4	100.0%
60-90	0.1	0.0%
0-90	1,752.4	100.0%

CONE OF LIGHT			
Mounting Height	Initial Center Beam	Beam Diameter	
		Horizontal	Vertical
8'	127.92	4	4
10'	81.87	5	5
12'	56.85	6	6
14'	41.77	6.9	6.9
16'	31.98	7.9	7.9

35 Degree Beam

AX3 D G4 20LM 30K 80CRI 35D 3DBV BS Wattage: 19.7, Lumens: 1867.8, LPW: 94.81, S/MH: .64, Test No: PT03181645P28



CANDELA SUMMARY	
0°	4440
10°	3853
20°	2054
30°	501
40°	25
50°	0
60°	0
70°	0
80°	0
90°	0

ZONAL LUMEN SUMMARY		
Zone	Lumens	%
0-30	1,752.5	93.8%
0-40	1,862.8	99.7%
0-60	1,867.7	100.0%
60-90	0.1	0.0%
0-90	1,867.8	100.0%

CONE OF LIGHT			
Mounting Height	Initial Center Beam	Beam Diameter	
		Horizontal	Vertical
8'	90.46	4.6	4.6
10'	57.89	5.8	5.8
12'	40.2	6.9	6.9
14'	29.54	8.1	8.1
16'	22.61	9.2	9.2

LUMEN | CBCP MULTIPLIERS

CCT	80+ CRI	90+ CRI	95+ CRI
2700K	1.00	0.86	0.65
3000K	1.00	0.88	0.69
3500K	1.05	-	-
4000K	1.07	-	-

08LM	12LM	15LM	20LM
0.38	0.57	0.71	1.0

*Refer to website for additional photometry (alternate trims, CCT/CRI, lumen packages)

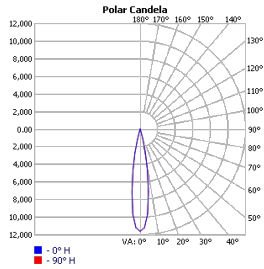


PHOTOMETRICS - 3DPIN

Tested in accordance to IESNA LM79

12 Degree Beam

AX3 D G4 20LM 30K 80CRI 12D 3DPIN BS Wattage: 19.7, Lumens: 1194.7, LPW: 60.65, S/MH: .31, Test No: PT03181641P28



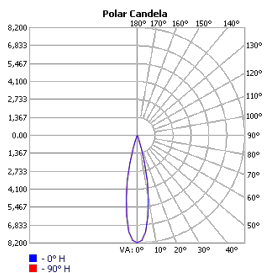
CANDELA SUMMARY	
0°	11586
10°	4730
20°	162
30°	7
40°	0
50°	0
60°	0
70°	0
80°	0
90°	0

ZONAL LUMEN SUMMARY		
Zone	Lumens	%
0-30	1,193.2	99.9%
0-40	1,194.4	100.0%
0-60	1,194.6	100.0%
60-90	0.2	0.0%
0-90	1,194.7	100.0%

CONE OF LIGHT			
Mounting Height	Initial Center Beam	Beam Diameter	
		Horizontal	Vertical
8'	181.03	2.5	2.5
10'	115.86	3.1	3.1
12'	80.46	3.8	3.8
14'	59.11	4.4	4.4
16'	45.26	5	5

24 Degree Beam

AX3 D G4 20LM 30K 80CRI 24D 3DPIN BS Wattage: 19.7, Lumens: 1254, LPW: 63.66, S/MH: .39, Test No: PT03181643P28



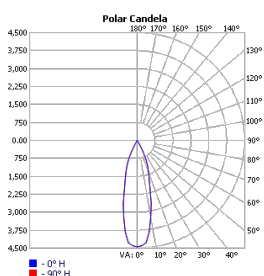
CANDELA SUMMARY	
0°	8162
10°	4800
20°	449
30°	11
40°	0
50°	0
60°	0
70°	0
80°	0
90°	0

ZONAL LUMEN SUMMARY		
Zone	Lumens	%
0-30	1,252.5	99.9%
0-40	1,253.9	100.0%
0-60	1,254.0	100.0%
60-90	0	0.0%
0-90	1,254.0	100.0%

CONE OF LIGHT			
Mounting Height	Initial Center Beam	Beam Diameter	
		Horizontal	Vertical
8'	127.53	3.2	3.2
10'	81.62	4	4
12'	56.68	4.9	4.9
14'	41.64	5.7	5.7
16'	31.88	6.5	6.5

35 Degree Beam

AX3 D G4 20LM 30K 80CRI 35D 3DPIN BS Wattage: 19.7, Lumens: 1343.7, LPW: 68.21, S/MH: .48, Test No: PT03181645P28



CANDELA SUMMARY	
0°	4443
10°	3250
20°	1365
30°	226
40°	1
50°	0
60°	0
70°	0
80°	0
90°	0

ZONAL LUMEN SUMMARY		
Zone	Lumens	%
0-30	1,319.9	98.2%
0-40	1,343.3	100.0%
0-60	1,343.6	100.0%
60-90	0.1	0.0%
0-90	1,343.7	100.0%

CONE OF LIGHT			
Mounting Height	Initial Center Beam	Beam Diameter	
		Horizontal	Vertical
8'	69.42	4.1	4.1
10'	44.43	5.1	5.1
12'	30.86	6.1	6.1
14'	22.67	7.2	7.2
16'	17.36	8.2	8.2

LUMEN | CBCP MULTIPLIERS

CCT	80+ CRI	90+ CRI	95+ CRI
2700K	1.00	0.86	0.65
3000K	1.00	0.88	0.69
3500K	1.05	-	-
4000K	1.07	-	-

08LM	12LM	15LM	20LM
0.38	0.57	0.71	1.0

*Refer to website for additional photometry (alternate trims, CCT/CRI, lumen packages)



DC-POWERED LIGHTING, DC2DC ARCHITECTURE

Acuity Brands' DC2DC architecture provides for distributed low-voltage DC power and digital controls for a range of LED luminaires, including the Aculux series LED recessed downlights.

The DC2DC architecture enhances an LED lighting system's efficiency by eliminating the need and cost to convert AC to DC power at the luminaire and facilitating the installation and commissioning of lighting controls. Intrinsically more efficient by design, our DC-powered lighting architecture also delivers savings at design and installation, facilitates maintenance, and empowers lighting design focused on sustainable and well-being applications.

Components include:

- DCHUB (ordered separately), distributes DC power up to 1080 VA of DC-powered LED luminaires including support for emergency lighting.
- 57VDC powered LED luminaires, with Static CCT or Tunable White, based on control options.
- nLight® lighting control
 - Integral or offboard wired networked lighting control, with nLight control devices (ordered separately).
 - Embedded nLight AIR wireless devices in 57VDC powered Static CCT LED luminaires.
- Class 2 power and control cables.
- The number of luminaires that can be supported by a single DCHUB port is a function of luminaire wattage and conductor losses. Please refer to the fixture wattages listed and the DCHUB spec sheet for additional details. Alternatively, the LED luminaires can be supplied by an approved, UL Listed, Class 2 power source supplying between 52.3 and 57.0 VDC at the input to the luminaire.

Note:

All luminaires require 57VDC option along with the corresponding Control Input option for either DALI or DALI8 external for nPS80 DALI 57VDC wired nLight control or NLTAIR2 or NLTAIREM2 embedded wireless lighting control.

When using external wired nLight control, nPS80 DALI 57VDC is mounted locally with the controlled luminaires. Only 2 #16 AWG (min.) conductors are necessary between the DC power source and the nPS80 DALI controller, and 4 conductors are required between the controller and the luminaires.

When using nLight embedded wireless controls only 2 #16 AWG (min.) conductors are necessary between the DC power source and the luminaire runs.

Click [DC2DC](#) for more information.