

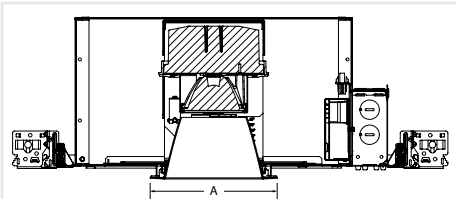
TRIM STYLES



Reflector



Bevel



A Dimension:
Self Flanged: 5.7"
Flangeless: 4.9"

FEATURES

SPOT ON! OPTICS

- 45° Visual cutoff to source and source image
- Field Interchangeable TIR Optics in 11 distributions including a Wide Batwing distribution for general illumination
- Accommodates up to 2 beam control lenses or filters

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 4-INCH APERTURE

- Up to 3258 lumens delivered!
- Exceptionally consistent color with < 2SDCM for Static White & Tunable White; <1SDCM for WarmDim
- Excellent color rendition with 95+ CRI | 90+ R9 Available
- WarmDim® option mimics halogen dimming (3000K-1800K)
- Tunable White CCT range of 5000K –2700K

PERFORMANCE

LUMEN PACKAGE	WATTS IN	DELIVERED LUMENS	EFFICACY (LPW)
Static White*			
12LM	9	1271	141
15LM	13	1629	125
22LM	19	2216	116
27LM	25	2737	109
32LM	33	3258	98
WarmDim®			
08LM	16	743	46
12LM	26	1209	47
15LM	29	1475	51
17LM	33	1636	50
Tunable White			
12LM	19	1346	71
17LM	28	1972	70
22LM	38	2514	66

*Performance with 4DP trim at 30K | 80CRI (Static White), 30K | 90CRI (WarmDim) & 50K | 90CRI (Tunable White)

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



FLANGE STYLES



Self-Flanged



Flangeless (Gypsum)



Flangeless (Wood | Stone | Tile)



ORDERING INFORMATION

EXAMPLE: AX4 D 27LM 30K 95CRI 24D FPC 120 ICAT 4DBV BD WHSF

Housing Style	Lumens	CCT	CRI	Beam	Driver	Voltage ⁴	Ratings	Options
AX4 D New Construction Fixed Downlight	Static White							
	12LM 1200 lumens	27K 2700K	80CRI	12D 12° beam	GZ1 0-10V 1% min	120	(blank) Non-ICAT	NLIGHT ⁶ nLight Dimming pack controls (Static White and WarmDim only) E6WT20R ⁷ Emergency 6W battery pack with remote test switch, T20 compliant
	17LM 1700 lumens	30K 3000K	90CRI	20D 20° beam	EZ1 0-10V eldoLED linear 1% min	277	CP ⁵ Chicago Plenum	
	22LM 2200 lumens	35K ² 3500K	95CRI	24D 24° beam	EZB 0-10V eldoLED log <1% min	MVOLT (120-277)	ICAT ⁵ IC Rated, Air-tight	
	27LM 2700 lumens	40K ² 4000K		35D 35° beam	EDXB eldoLED DMX square <1% min			
	32LM ¹ 3200 lumens			40D 40° beam	EDAB eldoLED DALI 6 log <1% min			
				45D 45° beam	FPC Phase Cut Dimming 1% min			
				50D 50° beam	ECOD Lutron EcoSystem 1% min			
				55D 55° beam				
				50D20D 50°x 20°				
				WD Wide (1.1 S/MH)				
	WarmDim®							
	08LM 800 lumens	WDIM HALR 3000K - 1800K	90CRI	10D ³ 10° beam	GZ1 0-10V 1% min			
	12LM 1200 lumens			15D ³ 15° beam	FPC Phase Cut Dimming 1% min			
	15LM 1500 lumens			20D 20° beam				
	17LM 1700 lumens			24D 24° beam				
				35D 35° beam				
				45D 45° beam				
				55D 55° beam				
				50D20D 50°x 20°				
				WD Wide (1.1 S/MH)				
	Tunable White							
	12LM 1200 lumens	TUWH 5000K - 2700K	90CRI	15D 15° beam	GZ1 0-10V 1% min			
	17LM 1700 lumens			20D 20° beam	EZ1 eldoLED 0-10V linear 1% min			
	22LM 2200 lumens			24D 24° beam	EZB eldoLED 0-10V log <1% min			
				35D 35° beam	NLT ⁶ nLight nTune interface			
				45D 45° beam	EDAB eldoLED DALI 6 log <1% min			
				55D 55° beam	EDABT8 eldoLED DALI 8 log <1% min			
				50D20D 50°x 20°				
				WD Wide (1.1 S/MH)				

Trim	Reflector Finish	Flange Style	Trim Lens Environment	Ceiling Installation
Downlight Reflector 4DP Deep Downlight Cone 	W White Paint CD Clear Diffuse CS Clear Specular BS Black Specular WTD Wheat Diffuse	Flanged SF Self Flanged WHSF Self Flanged, White Painted Flange (not available with W finish) Flangeless⁸ FM Flangeless	(blank) Open Damp Location WET Solite Wet Location	Flanged (blank) Ceiling Thickness < 0.875" CTA4/125 Ceiling Thickness 0.875" - 1.25" CTA4/163 Ceiling Thickness 1.25" - 1.625" CTA4/200 Ceiling Thickness 1.625" - 2" Flangeless (Gypsum) FMA4/087 Ceiling Thickness < 0.875" FMA4/125 Ceiling Thickness 0.875" - 1.25" FMA4/163 Ceiling Thickness 1.25" - 1.625" FMA4/200 Ceiling Thickness 1.625" - 2" Flangeless (Wood Stone Tile)⁹ SFM4/087 (B,W) Ceiling Thickness < 0.875" SFM4/125 (B,W) Ceiling Thickness 0.875" - 1.25" SFM4/163 (B,W) Ceiling Thickness 1.25" - 1.625"
Bevel 4DBV BD Downlight Bevel 	Bevel Finish & Flange Style		(blank) Open Damp WET Solite Wet Location	
	Flanged WHSF White, Flanged BLSF Black, Flanged Flangeless⁸ WHFM White, Flangeless BLFM Black, Flangeless			



REFLECTOR FINISHES



BEVEL FINISHES



ORDERING NOTES

- 32LM not available with ICAT and CP.
- 35K available in 80CRI and 90CRI only. 40K available in 80CRI only. Contact factory for other CCT/CRI combinations.
- For WDIM, 10D only available with 08LM and 12LM; 15D only available with 15LM and 17LM.
- MVOLT standard on GZ1, EZ1, EZB, ECOD, EDXB, EDAB, EDABT8, NLT (unless NLIGHT). Must be 120 for FPC.
- CP or ICAT not available with 17LM WDIM or 22LM TUWH.
- Must specify 120 or 277 volts for NLIGHT; MVOLT for NLT. NLIGHT only available with EZ1, EZB (for static white) or GZ1 (for warmDim). NLT not available with CP.
- E6WT20R not available with WDIM, TUWH, EDXB, CP, ICAT, or NLIGHT.
- Must specify FMA4 or SFM4 option.
- Specify finish: B = Black, W = White.

ACCESSORIES

Beam Control Lenses & Filters		Replacement Optics		Optional Installation Accessories
DIFF 300	Diffuse Spread lens	Static White Optics		Bar Hangers
SOLITE 300	Solite Uniformity Lens	4AXOPT/12D	12° Beam	HB1 Juno Real Nail® 3 Bar Hangers
PRISM 300	Prismatic Lens	4AXOPT/20D	20° Beam	HB26 26" C-Channel Bar Hangers
LSPREAD 300	Linear Spread Lens	4AXOPT/24D	24° Beam	HB50 50" C-Channel Bar Hangers
HCLBL 300	Hexcell Louver	4AXOPT/30D	30° Beam	LB27 27" Linear Bar Hangers
UVF 300	UV Filter Lens	4AXOPT/35D	35° Beam	Note: Fixture supplied with Pro-VI™ Bar Hangers
DCCF 300 HAL4250	Daylight Blue Correction	4AXOPT/40D	40° Beam	Emergency Inverter
		4AXOPT/45D	45° Beam	IIS 35 HE Up to 35W Remote Mount Micro Inverter (30LM Excluded)
		4AXOPT/50D	50° Beam	
		4AXOPT/55D	55° Beam	
		4AXOPT/50D20D	50°x20° Beam	
		4AXOPT/WD	Wide (1.1 S/MH)	
		WarmDim Optics		
		4AXWDOPT/10D	10° Beam	
		4AXWDOPT/15D	15° Beam	
		4AXWDOPT/20D	20° Beam	
		4AXWDOPT/24D	24° Beam	
		4AXWDOPT/35D	35° Beam	
		4AXWDOPT/45D	45° Beam	
		4AXWDOPT/55D	55° Beam	
		4AXWDOPT/50D20D	50°x20° Beam	
		4AXWDOPT/WD	Wide (1.1 S/MH)	
		Tunable White Optics		
		4AXTWOPT/15D	15° Beam	
		4AXTWOPT/20D	20° Beam	
		4AXTWOPT/24D	24° Beam	
		4AXTWOPT/35D	35° Beam	
		4AXTWOPT/45D	45° Beam	
		4AXTWOPT/55D	55° Beam	
		4AXTWOPT/50D20D	50°x20° Beam	
		4AXTWOPT/WD	Wide (1.1 S/MH)	



PRODUCT SPECIFICATIONS

FIELD INTERCHANGEABLE LED LIGHT ENGINE

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

Static White:

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

WarmDim:

- Proprietary WarmDim technology mimics halogen,with CCT shifting from 3000K to 1800K when dimmed.
- <1SDCM Binning, 90+CRI

Tunable White:

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

SPOT-ON! PRECISION OPTICS

- 45° Visual cutoff to source and source image
- Field Interchangeable TIR Optics delivering high centerbeam downlighting in 12° FWHM to 55° FWHM.
- Available with a wide batwing distribution for general illumination with up to 1.1 S/MH ratio.
- Patented self-adjusting optic holder accommodates up to 2 beam control lenses or filters (US Patent 8,950,911).
- 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 spun aluminum reflectors.
- Available in Self Flanged and Flangeless
- Must Specify FMA4 for gypsum flangeless installation
- Must specify SFM4 for wood, stone, tile flangeless installation

FIELD REPLACEABLE DRIVER

- Accommodates 120-277V input and multiple control protocols down
- Dims without perceived flicker to <1% depending on driver specified
- Field replaceable without tools from below the ceiling
- >0.9 Power Factor

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/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

EMERGENCY BATTERY

- Provides a minimum of 700 lumens (4DP, 3000K, 80CRI) for minimum duration of 90 minutes.
- Accessible below ceiling for simple service; Self-Testing
- Supplied with Class-2 plenum rated remote test switch
- CEC T20 Compliant

NEW CONSTRUCTION MOUNTING

- Features patented (US Patent 8,038,113) Pro-VI™ bar hanger system offering compatible with wood stud and T-bar
- All fixtures 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 finishing the ceiling.

JUNCTION BOX

- 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.
- ICAT Static White 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.
- ICAT WarmDim and Tunable White 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: "12LM WDIM", "ECOD", "EDXB", "NLT" & "NLIGHT" are excluded and not suitable for use with spray foam insulation.
- Union made

CEILING THICKNESS

- Accommodates 1/2" to 2" ceiling thickness

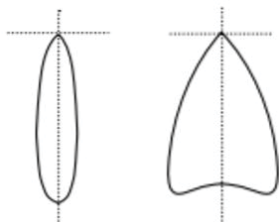
A+ CAPABLE LUMINAIRE

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.

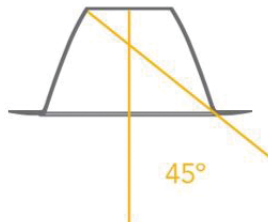
To learn more about Acuity A+ standards, specifications and testing, visit www.acuitybrands.com/aplus.

Spot On! Precision Optics



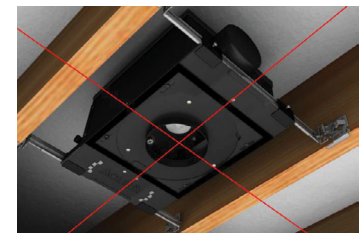
Smooth striation-free beam with high centerbeam or wide batwing distribution for general illumination

Exceptional Brightness and Glare Control



45-degree 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

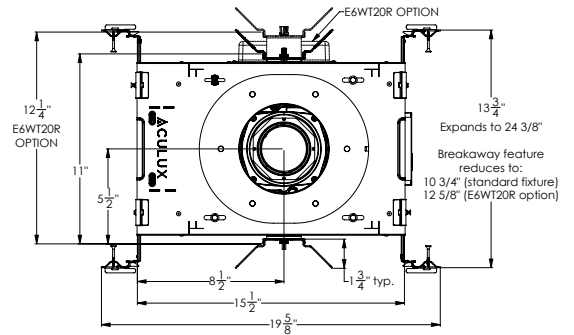
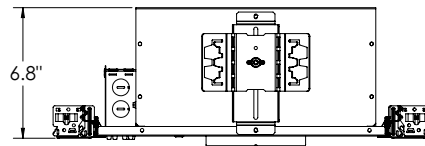
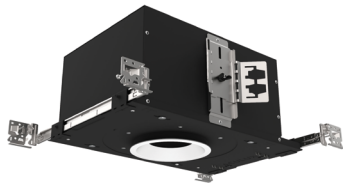
DIMENSIONS

New Construction Downlight (AX4 D)

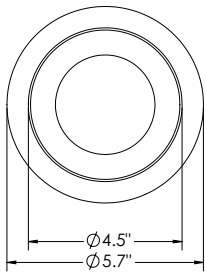
ICAT/Non-ICAT: 12LM | 17LM | 22LM | 27LM

Non-ICAT: 32LM

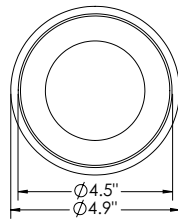
Ceiling Cutout: 5-1/4" (refer to installation instructions for flangeless ceiling cutout)



Reflector Trim (4DP)

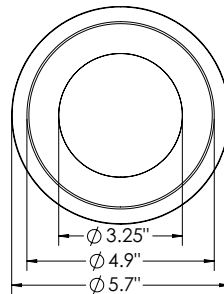


Flanged

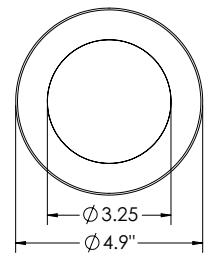


Flangeless

Bevel Trim (4DBV)



Flanged



Flangeless

ELECTRICAL SPECIFICATIONS

Static White

LUMEN PACKAGE	12LM	17LM	22LM	27LM	32LM
Voltage	120 277	120 277	120 277	120 277	120 277
Input Watts	9.5 10.0	13.7 14.7	19.5 20.4	25.8 26.4	33.4 33.6
Input Current	0.08 0.04	0.11 0.06	0.16 0.08	0.22 0.10	0.28 0.13
Frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Power Factor	0.9 MIN.	0.9 MIN.	0.9 MIN.	0.9 MIN.	0.9 MIN.

WarmDim

	08LM	12LM	15LM	17LM
Voltage	120 277	120 277	120 277	120 277
Input Watts	16.1 16.5	25.6 25.9	28.9 29.0	32.8 32.9
Input Current	0.14 0.06	0.21 0.10	0.24 0.11	0.27 0.12
Frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Power Factor	0.9 MIN.	0.9 MIN.	0.9 MIN.	0.9 MIN.

Tunable White

	12LM	15LM	22LM
Voltage	120 277	120 277	120 277
Input Watts	18.2 19.5	27.2 28.0	36.9 37.5
Input Current	0.15 0.08	0.23 0.11	0.31 0.14
Frequency	50/60 Hz	50/60 Hz	50/60 Hz
Power Factor	0.9 MIN.	0.9 MIN.	0.9 MIN.

PHOTOMETRICS - 4DP

Tested in accordance to IESNA LM79

12 Degree Beam

AX4 D 32LM 30K 80CRI 12D EZ1 MVOLT 4DP CS Input Watts: 33.4, Delivered Lumens: 3290, LPW: 98.5, S/MH: 0.23, Test No: 20-421-01P198

	CP	Zonal Lumen Summary				Coefficients of Utilization										Cone of Light			Luminance (cd/sq.m)	
	Summary					pf	80%		20%		50%		50%		Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance		
					pc															
					pw	50%	30%	10%	50%	30%	10%	50%	30%	10%						
90°		0°	Zone	Lumens	% Fixture	0	119	119	119	116	116	111	111	111	6.0	835.2	1.4	45°	3,946	
80°		5°	0° - 30°	3,189	97%	1	113	112	110	111	110	108	107	106	105	8.0	469.8	1.9	55°	930
70°		10°	0° - 40°	3,259	99%	2	109	106	104	107	105	102	104	102	100	10.0	300.7	2.4	65°	437
60°		15°	0° - 60°	3,288	100%	3	105	101	99	103	100	98	101	98	96	12.0	208.8	2.8	75°	238
50°		25°	0° - 90°	3,290	100%	4	101	97	95	100	97	94	98	95	93	14.0	153.4	3.3	85°	118
40°		35°				5	98	94	91	97	94	91	96	93	90					
30°		45°				6	95	91	89	94	91	88	93	90	88					
20°		55°				7	93	89	86	92	88	86	91	88	86					
10°		65°				8	90	87	84	90	86	84	89	86	84					
0°		75°				9	88	84	82	88	84	82	87	84	82					
		85°				10	86	83	80	86	82	80	85	82	80					
		90°																		

35 Degree Beam

AX4 D 32LM 30K 80CRI 35D EZ1 MVOLT 4DP CS Input Watts: 33.4, Delivered Lumens: 3229, LPW: 96.7, S/MH: 0.56, Test No: 20-421-05P198

	CP Summary	Zonal Lumen Summary				Coefficients of Utilization										Cone of Light			Luminance (cd/sq.m)	
	0°	Zone	Lumens	% Fixture	pf	80%		20%		50%		50%		Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance			
					pc	50%	30%	10%	50%	30%	10%	50%	30%						10%	
					pw	50%	30%	10%	50%	30%	10%	50%	30%						10%	
90°	0°	0° - 30°	2,837	88%	0	119	119	119	116	116	111	111	111	6.0	219.4	3.8	45°	5,048		
80°	5°	0° - 40°	3,167	98%	1	112	110	108	110	108	106	104	103	8.0	123.4	5.0	55°	1,234		
70°	15°	0° - 60°	3,225	100%	2	106	102	99	104	101	98	101	98	10.0	79.0	6.3	65°	582		
60°	25°	0° - 90°	3,229	100%	3	100	96	93	99	95	92	96	93	12.0	54.8	7.5	75°	317		
50°	35°				4	95	91	87	94	90	86	92	88	14.0	40.3	8.8	85°	235		
40°	45°	38			5	91	86	82	90	85	82	88	84	81						
30°	55°	7			6	86	81	78	86	81	78	84	80	77						
20°	65°	3			7	83	78	74	82	77	74	81	77	74						
10°	75°	1			8	79	74	71	79	74	71	78	73	70						
0°	85°	0			9	76	71	68	75	71	68	75	70	67						
	90°	0			10	73	68	65	72	68	65	72	68	65						

50 Degree Beam

AX4 D 32LM 30K 80CRI 50D EZ1 MVOLT 4DP CS Input Watts: 33.4, Delivered Lumens: 3036, LPW: 90.9, S/MH: 0.68, Test No: 20-421-08P198

	CP Summary	Zonal Lumen Summary				Coefficients of Utilization										Cone of Light			Luminance (cd/sq.m)		
		0°	Zone	Lumens	% Fixture	pf pc	80%		20%		50%		Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance					
							pw	50%	30%	10%	50%	30%						10%	50%	30%	10%
90°	0°	0° - 30°	2,408	79%	0	119	119	119	116	116	111	111	111	111	6.0	141.4	5.0	45°	6,527		
80°	5°	0° - 40°	2,960	97%	1	111	109	107	109	107	105	105	104	102	8.0	79.6	6.7	55°	1,699		
70°	15°	0° - 60°	3,031	100%	2	104	101	97	103	99	96	99	97	94	10.0	50.9	8.4	65°	849		
60°	25°	0° - 90°	3,036	100%	3	98	93	90	97	92	89	94	90	88	12.0	35.4	10.0	75°	476		
50°	35°				4	92	87	83	91	86	83	89	85	82	14.0	26.0	11.7	85°	353		
40°	45°				5	87	82	78	86	81	77	84	80	77							
30°	55°				6	82	77	73	81	76	72	80	75	72							
20°	65°				7	78	72	68	77	72	68	76	71	68							
10°	75°				8	74	68	64	73	68	64	72	67	64							
0°	85°				9	70	65	61	70	64	61	69	64	61							
	90°				10	67	61	58	66	61	58	66	61	58							

WD Beam

AX4 D 32LM 30K 80CRI WD EZ1 MVOLT 4DP CS Input Watts: 33.4, Delivered Lumens: 2801, LPW: 83.9, S/MH: 1.05, Test No: 20-421-11P198

	CP Summary	Zonal Lumen Summary				Coefficients of Utilization										Cone of Light			Luminance (cd/sq.m)	
	0°	Zone	Lumens	% Fixture	pf		80%		20%		50%		Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance				
					pc	pw	50%	30%	10%	50%	30%	10%						50%	30%	10%
					50%	30%	10%	50%	30%	10%	50%	30%						10%		
90°	0°	0° - 30°	2,056	73%	0	119	119	119	117	117	111	111	111	6.0	79.4	7.4	45°	12,591		
80°	5°	0° - 40°	2,656	95%	1	111	109	107	109	107	105	105	103	102	8.0	44.6	9.9	55°	3,129	
70°	15°	0° - 60°	2,791	100%	2	104	100	96	102	98	95	99	96	93	10.0	28.6	12.4	65°	1,480	
60°	25°	0° - 90°	2,801	100%	3	97	92	88	95	91	87	93	89	86	12.0	19.8	14.9	75°	793	
50°	35°				4	90	85	81	89	84	80	87	83	79	14.0	14.6	17.4	85°	471	
40°	45°				5	85	79	75	84	78	74	82	77	74						
30°	55°				6	80	74	69	79	73	69	77	72	69						
20°	65°				7	75	69	65	74	69	65	73	68	64						
10°	75°				8	71	65	61	70	64	60	69	64	60						
0°	85°				9	67	61	57	66	60	57	65	60	56						
	90°				10	63	57	53	63	57	53	62	57	53						

LUMEN | CBCP MULTIPLIERS

CCT	80+ CRI	90+ CRI	95+ CRI	12LM	17LM	22LM	27LM	32LM
2700K	0.95	0.83	0.68	0.39	0.50	0.68	0.84	1.0
3000K	1.00	0.87	0.73	*Refer to website for additional photometry (alternate trims, CCT/CRI, lumen packages)				
3500K	1.02	0.89	-					
4000K	1.04	-	-					



PHOTOMETRICS - 4DBV

Tested in accordance to IESNA LM79

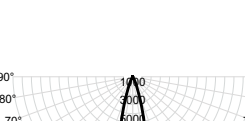
12 Degree Beam

AX4 D 32LM 30K 80CRI 12D EZ1 MVOLT 4DBV BD Input Watts: 33.4, Delivered Lumens: 2645, LPW: 79.2, S/MH: 0.22, Test No: 20-421-12P40

	CP Summary				Zonal Lumen Summary		Coefficients of Utilization										Cone of Light			Luminance (cd/sq.m)	
							pf										Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance	
							pc														
	0°	Zone	Lumens	% Fixture	pw	50%	30%	10%	50%	30%	10%	50%	30%	10%							
90°	0°	28,265	0° - 30°	2,596	98%	0	119	119	119	116	116	116	111	111	111	6.0	785.1	1.4	45°	4,068	
80°	5°	17,955	0° - 40°	2,630	99%	1	114	112	110	112	110	109	108	106	105	8.0	441.6	1.8	55°	666	
70°	15°	3,699	0° - 60°	2,644	100%	2	109	107	104	108	105	103	105	103	101	10.0	282.6	2.3	65°	286	
60°	25°	371	0° - 90°	2,645	100%	3	106	102	100	104	101	99	102	100	98	12.0	196.3	2.7	75°	155	
50°	35°	47				4	102	99	96	101	98	96	99	97	95	14.0	144.2	3.2	85°	0	
40°	45°	15				5	99	96	93	99	95	93	97	94	92						
30°	55°	2				6	97	93	91	96	93	91	95	92	90						
20°	65°	1				7	95	91	89	94	91	89	93	90	88						
10°	75°	0				8	93	89	87	92	89	87	91	88	86						
	85°	0				9	91	87	85	90	87	85	90	87	85						
	90°	0				10	89	86	83	89	86	83	88	85	83						

24 Degree Beam

AX4 D 32LM 30K 80CRI 24D EZ1 MVOLT 4DBV BD Input Watts: 33.4, Delivered Lumens: 2654, LPW: 79.5, S/MH: 0.42, Test No: 20-421-14P40

	CP Summary				Zonal Lumen Summary		Coefficients of Utilization										Cone of Light			Luminance (cd/sq.m)				
	0°	Zone	Lumens	% Fixture	pw	pc															Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance
						80%			20%			50%			30%			10%						
						50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%							
90°	12,580	0° - 30°	2,548	96%	0	119	119	119	116	116	116	111	111	111	6.0	349.5	2.7	45°	4,978					
80°	11,268	0° - 40°	2,633	99%	1	113	111	110	111	109	108	107	106	105	8.0	196.6	3.6	55°	807					
70°	4,445	0° - 60°	2,653	100%	2	108	105	103	106	104	101	103	101	99	10.0	125.8	4.4	65°	286					
60°	737	0° - 90°	2,654	100%	3	104	100	97	102	99	96	100	97	95	12.0	87.4	5.3	75°	155					
50°	123				4	100	96	93	99	95	92	97	94	91	14.0	64.2	6.2	85°	0					
45°	19				5	96	92	89	95	92	89	94	91	88										
55°	2				6	93	89	86	92	89	86	91	88	85										
65°	1				7	90	86	83	90	86	83	88	85	83										
75°	0				8	87	83	81	87	83	81	86	83	80										
85°	0				9	85	81	78	85	81	78	84	80	78										
90°	0				10	83	79	76	82	79	76	82	78	76										

35 Degree Beam

AX4 D 32LM 30K 80CRI 35D EZ1 MVOLT 4DBV BD Input Watts: 33.4, Delivered Lumens: 2716, LPW: 81.3, S/MH: 0.58, Test No: 20-421-16P40

	CP Summary				Zonal Lumen Summary				Coefficients of Utilization										Cone of Light			Luminance (cd/sq.m)	
									pf										Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance	
									pc														
	0°	Zone	Lumens	% Fixture	pw	50%	30%	10%	50%	30%	10%	50%	30%	10%									
90°	0°	0° - 30°	2,422	89%	0	119	119	119	116	116	116	111	111	111	6.0	185.0	3.9	45°	7,169				
80°	5°	0° - 40°	2,676	99%	1	112	110	108	110	108	106	106	105	103	8.0	104.1	5.1	55°	842				
70°	15°	0° - 60°	2,715	100%	2	106	103	100	104	101	99	101	99	97	10.0	66.6	6.4	65°	333				
60°	25°	0° - 90°	2,716	100%	3	101	96	93	99	95	92	97	94	91	12.0	46.2	7.7	75°	155				
50°	35°				4	96	91	88	95	90	87	93	89	86	14.0	34.0	9.0	85°	0				
40°	45°	27			5	91	86	83	90	86	83	89	85	82									
30°	55°	3			6	87	82	79	86	82	79	85	81	78									
20°	65°	1			7	83	79	75	83	78	75	82	78	75									
10°	75°	0			8	80	75	72	79	75	72	78	74	71									
0°	85°	0			9	77	72	69	76	72	69	76	71	68									
	90°	0			10	74	69	66	74	69	66	73	69	66									

50 Degree Beam

AX4 D 32LM 30K 80CRI 50D EZ1 MVOLT 4DBV BD Input Watts: 33.4, Delivered Lumens: 2428, LPW: 72.7, S/MH: 0.72, Test No: 20-421-19P40

	CP Summary				Zonal Lumen Summary		Coefficients of Utilization										Cone of Light			Luminance (cd/sq.m)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
					Zone	Lumens	% Fixture	pf	pc	20%										Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
	80°	70°	60°	50°						40°	30°	20°	10°	0°	10°	20°	30°	40°	50°					60°	70°	80°	90°																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
90°	0°	30°	40°	60°	90°	0°	30°	40°	60°	90°	0°	30°	40°	60°	90°	0°	30°	40°	60°	90°	0°	30°	40°	60°	90°	0°	30°	40°	60°	90°	0°	30°	40°	60°	90°																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
0°	3,917	0° - 30°	1,932	80%	0	119	119	119	116	116	116	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111

LUMEN | CBCP MULTIPLIERS

CCT	80+ CRI	90+ CRI	95+ CRI	12LM	17LM	22LM	27LM	32LM
2700K	0.95	0.83	0.68	0.39	0.50	0.68	0.84	1.0
3000K	1.00	0.87	0.73	*Refer to website for additional photometry (alternate trims, CCT/CRI, lumen packages)				
3500K	1.02	0.89	-					
4000K	1.04	-	-					



DIMMER COMPATIBILITY

Phase Dimming (FPC) - Incandescent, Magnetic Low Voltage and Electronic Low Voltage Dimming

- Dimming range of 100% down to as low as 1% a minimum load of one fixture
- Dimming range and maximum rated load vary depending on dimmer type and model. See maximum load calculations below to identify max number of luminaires per dimmer.

Incandescent (INC) and Magnetic Low Voltage (MLV)

Example: Fixture Rating = 13W; Dimmer Rating = 600W
 Equivalent Incandescent Load (EIL) = 50%
 $(600/13W) \times 0.5 = 23$ Fixtures per Dimmer

Electronic Low Voltage (ELV)

Example: Fixture Rating = 13W; Dimmer Rating = 600W
 Equivalent Incandescent Load (EIL) = 75%
 $(600/13W) \times 0.75 = 34$ Fixtures per Dimmer

INCANDESCENT, MLV, ELV WALL DIMMERS

Static White

Manf.	Product Family	Series	Type	Min Light(%)
Lutron	Glyder	GLV*	MLV	2
Leviton	SureSlide	6633*	INC	2
Lutron	Diva	DVLV	MLV	6
Lutron	Diva	DV*	INC	2
Lutron	Skylark	SLV*	MLV	3
Lutron	RadioRA 2	RRD-6D*	INC	2
Lutron	RadioRA 2	RRD-10ND*	INC	2
Leviton	SureSlide	6613	MLV	5
Leviton	IllumaTech	IPL06-10Z*	INC	3
Lutron	Diva	DVCL	INC	3
Insteon	Keypad Dimmer	2334-232	INC	2
Insteon	Dimmer Switch	2477D*	INC	2
Control4	Forward Phase Dimmer	C4-FPD 120	INC	2
Lutron	Nova	NTELV	ELV	6
Lutron	Diva	DVELV*	ELV	2
Lutron	Lutron Maestro	MAELV*	ELV	5
Leviton	Vizia	VPE06-1LX	ELV	2
Leviton	Illuminatech	IPE04*	ELV	5
Lutron	Lutron RadioRA2	RRD-6NA	PHA	2
Control4	Adaptive Phase Dimmer	C4-APD 120	PHA	2
Lutron	RadioRA2	RRD-6NA*	PHA	2
Control4	Adaptive Phase Dimmer	C4-APD 120	PHA	2

INTEGRATED CONTROL SYSTEMS

Static White

Manf.	Product Family	Series	Type	Min Light(%)
Lutron	LP	LP-RPM-4U	INC	5
Lutron	LP	LP-RPM-4A*	PHA	2
Lutron	GrafikEye QS	QSGRJ-3P	PHA	2
Lutron	GrafikEye QS	PHPM-PA-120	PHA	2
Lutron	HomeWorks QS	PHPM-PA-120	PHA	2
Lutron	HomeWorks QS	HW-RPM-4A*	PHA	2
Acuity	nLight nSP5PCD ELV	nSP5PCD*	ELV	4
Insteon	Micro Module Dimmer	2442-222*	INC	2
Control4	8 Ch Dimmer	C4-DIN-8DIM-E	PHA	2

*: Aculux recommended dimmers

WarmDim®

Manf.	Product Family	Series	Type	Min Light(%)
Sensor Switch	WPD	WPD*	INC	1
Leviton	Illmatech	IPM06-1LZ	MLV	3
Leviton	Illmatech	IPI06-1LZ	INC	2
Lutron	Diva	DVCL	INC	1
Leviton	SureSlide	6633*	INC	1
Leviton	SureSlide	6613*	MLV	1
Leviton	SureSlide	IPL06	INC	1
Control4	Forward phase dimmer	C4-FPD 120 FWD*	INC	1
Lutron	Diva	DVELV*	ELV	1
Lutron	Maestro	MAELV*	ELV	1
Lutron	Vive	MRF25-6ELV*	ELV	1
Lutron	Caseta	PD-5NE*	ELV	1
Leviton	Illuminatech	IPE04	ELV	4
Lutron	Maestro	RRD-PRO REV	PHA	1
Control4	Phase Adaptive Dimmer	C4-APD 120*	PHA	1
Lutron	Maestro	RRD-PRO FWD*	PHA	1

WarmDim®

Manf.	Product Family	Series	Type	Min Light(%)
Acuity	nLight nSP5PCD ELV	nSP5PCD ELV*	ELV	1
Acuity	nLight nSP5PCD ELV	PCDM*	ELV	1
Acuity	Fresco LMPM	LMPM 2D 2L*	PHA	1
Lutron	LP	LP-RPM-4A *	PHA	1
Lutron	LP	LP-RPM-4U*	INC	1
Lutron	GrafikEye QS	Lutron PHPM-PA-120*	PHA	1
Lutron	GrafikEye QS	Lutron Grafik Eye QSGRJ-3P*	MLV	1
Lutron	HomeWorks QS	PHPM-PA-120*	PHA	1
Lutron	HomeWorks QS	HW-RPM-4A*	PHA	1
Legrand	Wattstopper	LMRC-221-U*	PHA	1
Control4	8 Ch Dimmer	C4-DIN-8DIM-E*	PHA	1
Crestron	Phase Adaptive Dimmer	6501748*	PHA	1



0-10V Dimming (GZ1, EZ1, EZB drivers)

WALL DIMMERS

Manf.	Product Family	Series	Type	-EZ1/-GZ1 Min. Light (%)	-EZB Min. Light (%)
Lutron	Diva	DVTV	0-10V	1	<1
Lutron	Nova	NFTV	0-10V	1	<1
Lutron	Nova T	NTFTV	0-10V	1	<1

INTEGRATED CONTROL SYSTEMS

Manf.	Product Family	Series	Type	-EZ1/-GZ1 Min. Light (%)	-EZB Min. Light (%)
Lutron	GrafikEye QS	GRX-TVI*	0-10V	1	<1
Lutron	HomeWorks QS	GRX-TVI*	0-10V	1	<1
Lutron	HomeWorks QS	GRX-TVM2*	0-10V	1	<1
Lutron	LCP128	GRX-TVI*	0-10V	1	<1
Lutron	LCP128	GRX-TVM2*	0-10V	1	<1
Lutron	LP	GRX-TVM2*	0-10V	1	<1
Lutron	RadioRA2	LMJ-5T-DV-B	0-10V	1**	<1
Crestron	GreenLight	DIN-4DIMFLV4	0-10V	1	<1
Lutron	Energi Tripak	RMJ-5T-DV-B	0-10V	1	<1
Wattstopper	DLM	LMRC-211	0-10V	1	<1
Insteon	Ballast Dimmer	2475DA2	0-10V	1	<1

*: Aculux recommended dimmers

**:: Not tested with -GZ1

+: Requires a separate relay module to turn luminaire on/off