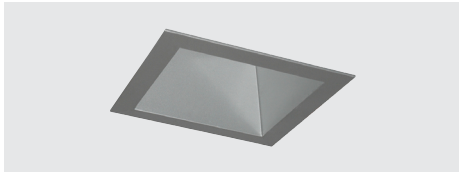




TRIM STYLES



Reflector



Bevel

FEATURES

SPOT ON! OPTICS

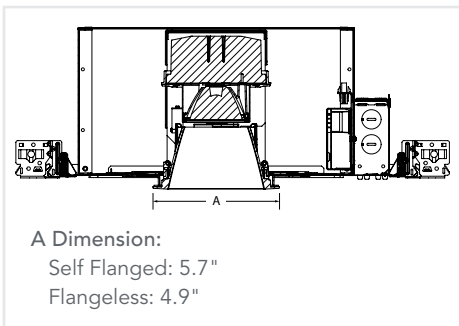
- 45° Visual cutoff to source and source image
- Field Interchangeable TIR Optics in 11 distributions including a Wide Batwing distribution for general illumination
- Accommodates up to 2 beam control lenses or filters

TRU-LINE™ PRECISION INSTALLATION

- Patented aperture translation featuring +/- 1/2" translation and +/- 45° aperture rotation 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 3352 lumens delivered!
- Exceptionally consistent color with < 2SDCM
- Excellent color rendition with 95+ CRI | 90+ R9 Available
- Comprehensive family of Downlight, Adjustable Accent and Wall Wash Luminaires



PERFORMANCE

LUMEN PACKAGE	WATTS IN	DELIVERED LUMENS	EFFICACY (LPW)
12LM	9	1307	145
17LM	13	1676	128
22LM	19	2280	120
27LM	25	2816	112
32LM	33	3352	101

Performance with 4SQD trim at 3000K | 80CRI
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

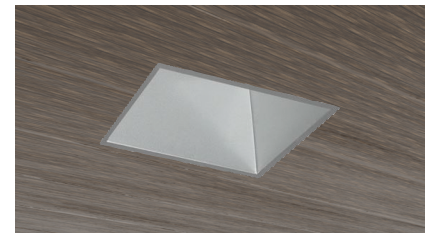
FLANGE STYLES



Self-Flanged



Flangeless (Gypsum)



Flangeless (Wood | Stone | Tile)



ORDERING INFORMATION

EXAMPLE: AX4SQ D 27LM 30K 95CRI 24D FPC 120 ICAT 4SQDBV BD WHSF

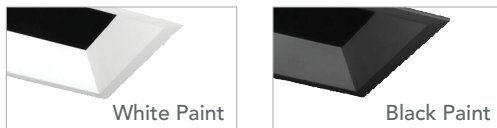
Housing Style	Lumens	CCT	CRI	Beam	Driver	Voltage ³	Ratings	Options
AX4SQ D New Construction Fixed Downlight	12LM 1200 lumens	27K 2700K	80CRI	12D 12° beam	GZ1 0-10V 1% min	120	(blank) Non-ICAT	NLIGHT ⁴ nLight Dimming
	17LM 1700 lumens	30K 3000K	90CRI	20D 20° beam	EZ1 eldoLED 0-10V linear 1% min	277	CP Chicago Plenum	
	22LM 2200 lumens	35K ² 3500K	95CRI	24D 24° beam	EZB eldoLED 0-10V log <1% min	MVOLT (120-277)	ICAT IC Rated, Air-tight	
	27LM 2700 lumens	40K ² 4000K		30D 30° beam	FPC Phase Cut Dimming 1% min			
	32LM ¹ 3200 lumens			35D 35° beam	ECOD Lutron EcoSystem 1% min			
				40D 40° beam	EDXB eldoLED DMX square <1% min			
			45D 45° beam	50D 50° beam	EDAB eldoLED DALI log <1% min			
			55D 55° beam	50D20D 50° x 20°				
			WD Wide (1.1 S/MH)					

Trim	Reflector Finish	Flange Style	Trim Lens Environment	Ceiling Installation
Downlight Reflector 4SQD Deep Downlight Cone 	W White Paint CD Clear Diffuse BD Black Diffuse WTD Wheat Diffuse	Flanged SF Self Flanged WHSF Self Flanged, White Painted Flange (not available with W finish) Flangeless⁵ FM Flangeless	(blank) Open Damp Location WET Solite Wet Location	Flanged (blank) Ceiling Thickness < 0.875" CTA4SQ/125 Ceiling Thickness 0.875" - 1.25" CTA4SQ/163 Ceiling Thickness 1.25" - 1.625" CTA4SQ/200 Ceiling Thickness 1.625" - 2" Flangeless (Gypsum) FMA4SQ/087 Ceiling Thickness < 0.875" FMA4SQ/125 Ceiling Thickness 0.875" - 1.25" FMA4SQ/163 Ceiling Thickness 1.25" - 1.625" FMA4SQ/200 Ceiling Thickness 1.625" - 2" Flangeless (Wood Stone Tile)⁶ SFM4SQ/087 Ceiling Thickness < 0.875" (B,W) SFM4SQ/125 Ceiling Thickness 0.875" - 1.25" (B,W) SFM4SQ/163 Ceiling Thickness 1.25" - 1.625" (B,W)
Bevel 4SQDBV BD Downlight Bevel 	Bevel Finish & Flange Style		(blank) Open Damp WET Solite Wet Location	
	Flanged WHSF White, Flanged BLSF Black, Flanged Flangeless⁵ WHFM White, Flangeless BLFM Black, Flangeless			

REFLECTOR FINISHES

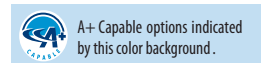


BEVEL FINISHES



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.
- MVOLT standard on GZ1, EZ1, EZB, ECOD, EDXB, EDAB (unless NLIGHT). Must be 120 for FPC or ECOS2.
- Must specify 120 or 277 volts. NLIGHT only available with EZ1 or EZB.
- Must specify FMA4SQ or SFM4SQ option.
- Specify finish: B = Black, W = White.




PRODUCT SPECIFICATIONS
FIELD INTERCHANGEABLE LED LIGHT ENGINE

- <2SDCM Binning
- 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
- Future proof and easy to maintain - serviceable from below the ceiling

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).

HIGH QUALITY TRIMS

- Available with die cast aluminum bevels and reflectors.
- Available in Self Flanged and Flangeless
- Must Specify FMA4SQ for gypsum flangeless installation
- Must specify SFM4SQ for wood, stone, tile flangeless installation

FIELD REPLACEABLE DRIVER

- Accommodates 120-277V 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

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

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 and +/- 45° aperture rotation 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 housings are rated for direct contact with insulation
- Low density spray foam insulation compatible: ICAT housings (excluding ECOS2, ECOD, EDXB, NLIGHT) are compatible with foam insulation with an R-Value of 4.3 per inch or less.
- Union made

CEILING THICKNESS

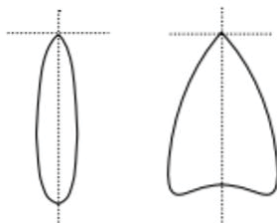
- Accommodates 1/2" to 2" ceiling thickness

A+ CAPABLE LUMINAIRE

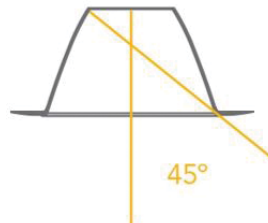
This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is part of an A+ Certified solution for nLight® control networks when ordered with drivers marked by a shaded background on ordering information*

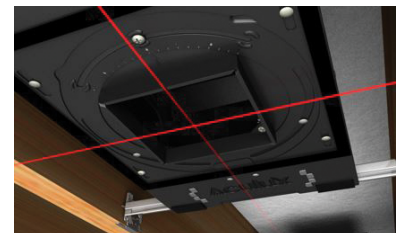
To learn more about A+, visit www.acuitybrands.com/aplus.

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 and +/-45° aperture rotation makes perfect installation achievable



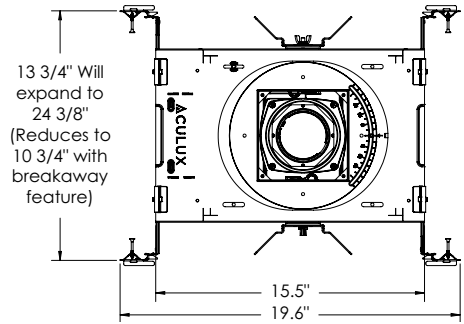
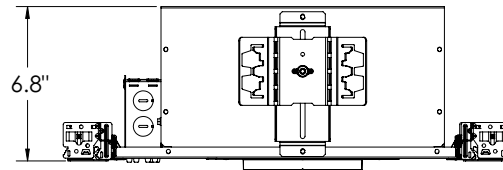
DIMENSIONS

New Construction Downlight (AX4SQ D)

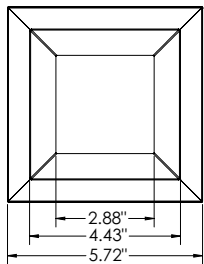
ICAT/Non-ICAT: 12LM | 17LM | 22LM | 27LM

Non-ICAT: 32LM

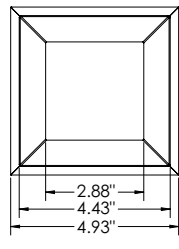
Ceiling Cutout: 5-5/16" x 5-5/16" (refer to installation instructions for flangeless ceiling cutout)



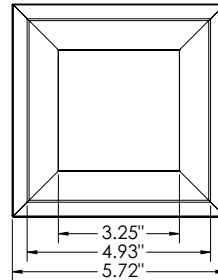
Reflector Trim (4SQD)



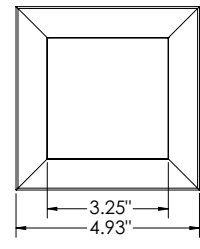
Flanged



Flangeless



Flanged



Flangeless

ELECTRICAL SPECIFICATIONS

LUMEN PACKAGE	12LM		17LM		22LM		27LM		32LM	
Voltage	120	277	120	277	120	277	120	277	120	277
Input Watts	9.5	10	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	0.1	0.28	0.13
Frequency	50 60 Hz		50 60 Hz		50 60 Hz		50 60 Hz		50 60 Hz	
Power Factor	0.9		0.9		0.9		0.9		0.9	

ACCESSORIES

Beam Control Lenses & Filters		Replacement Optics		Optional Installation Accessories	
Beam Control Lens		UV Filter & Color Correction		Bar Hangers	
DIFF 300	Diffuse Spread lens	UVF 300	UV Filter Lens	HB1	Juno Real Nail® 3 Bar Hangers
SOLITE 300	Solite Uniformity Lens	DCCF 300 HAL4250	Daylight Blue Correction	HB26	26" C-Channel Bar Hangers
PRISM 300	Prismatic Lens			HB50	50" C-Channel Bar Hangers
LSPREAD 300	Linear Spread Lens			LB27	27" Linear Bar Hangers
HCLBL 300	Hexcell Louver			<i>Note: Fixture supplied with Pro-VI™ Bar Hangers</i>	
		4AXOPT/12D	12° Beam	Emergency Inverter	
		4AXOPT/20D	20° Beam	IIS 35 HE	Up to 35W Remote Mount Micro Inverter (32LM Excluded)
		4AXOPT/24D	24° Beam		
		4AXOPT/30D	30° Beam		
		4AXOPT/35D	35° Beam		
		4AXOPT/40D	40° Beam		
		4AXOPT/45D	45° Beam		
		4AXOPT/50D	50° Beam		
		4AXOPT/50D20D	50° x 20° Beam		
		4AXOPT/55D	55° Beam		
		4AXOPT/WD	Wide Beam (1.1 S:MH)		

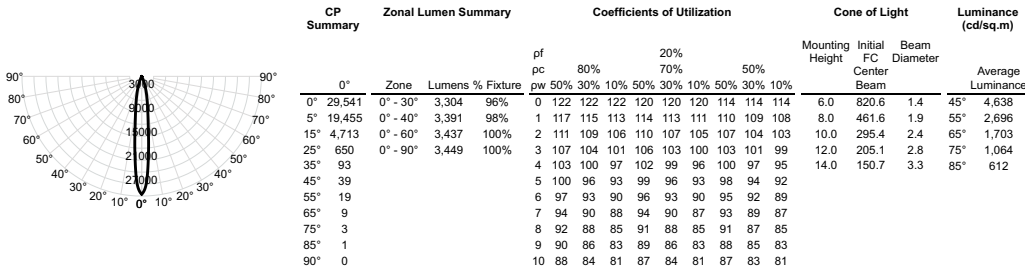


PHOTOMETRICS - 4SQD

Tested in accordance to IESNA LM79

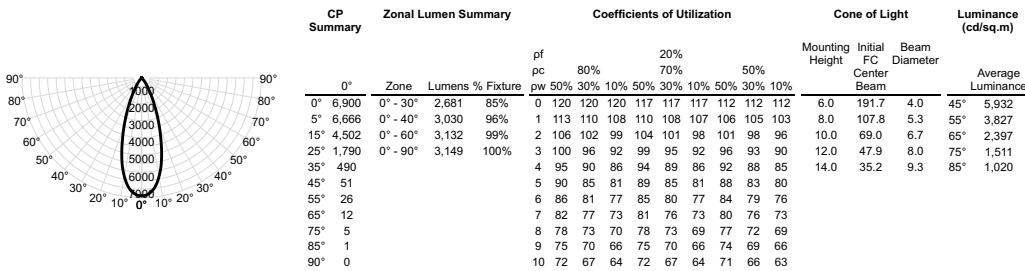
12 Degree Beam

AX4SQ D 32LM 30K 80CRI 12D EZ1 MVOLT 4SQD CD Input Watts: 33.4, Delivered Lumens: 3449, LPW: 103.3, S/MH: 0.23, Test No: 20-422-01P158



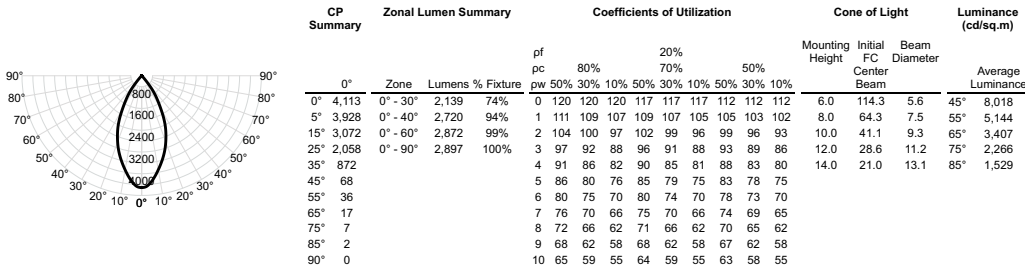
35 Degree Beam

AX4SQ D 32LM 30K 80CRI 35D EZ1 MVOLT 4SQD CD Input Watts: 33.4, Delivered Lumens: 3149, LPW: 94.3, S/MH: 0.60, Test No: 20-422-05P158



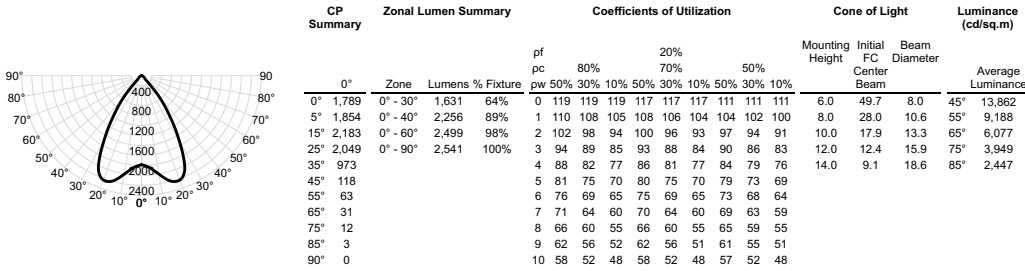
50 Degree Beam

AX4SQ D 32LM 30K 80CRI 50D EZ1 MVOLT 4SQD CD Input Watts: 33.4, Delivered Lumens: 2897, LPW: 86.7, S/MH: 0.75, Test No: 20-422-08P158



WD Beam

AX4SQ D 32LM 30K 80CRI WD EZ1 MVOLT 4SQD CD Input Watts: 33.4, Delivered Lumens: 2541, LPW: 76.1, S/MH: 1.19, Test No: 20-422-11P158



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	-	-					

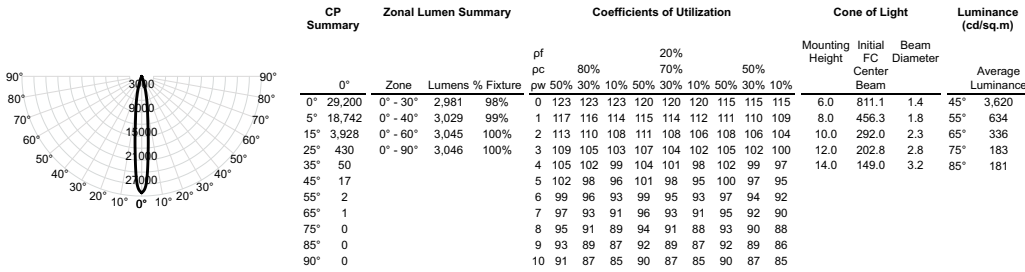


PHOTOMETRICS - 4SQDBV

Tested in accordance to IESNA LM79

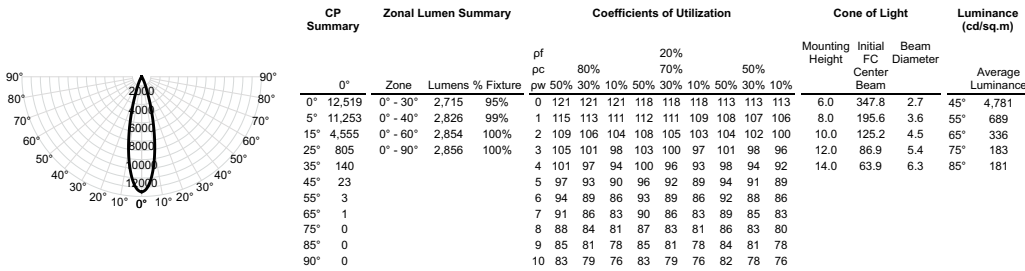
12 Degree Beam

AX4SQ D 32LM 30K 80CRI 12D EZ1 MVOLT 4SQDBV BD Input Watts: 33.4, Delivered Lumens: 3046, LPW: 91.2, S/MH: 0.22, Test No: 20-422-12P40



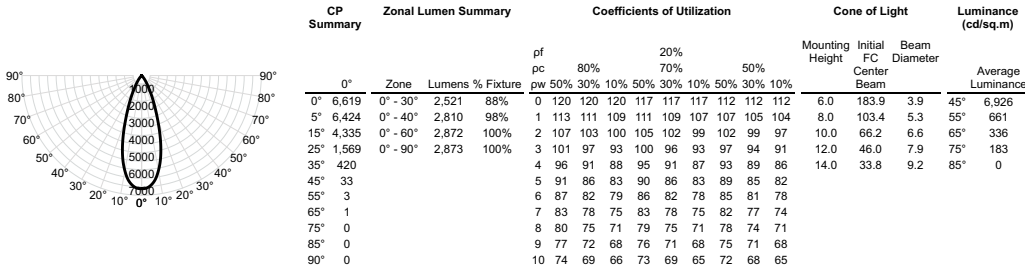
24 Degree Beam

AX4SQ D 32LM 30K 80CRI 24D EZ1 MVOLT 4SQDBV BD Input Watts: 33.4, Delivered Lumens: 2856, LPW: 85.5, S/MH: 0.43, Test No: 20-422-14P40



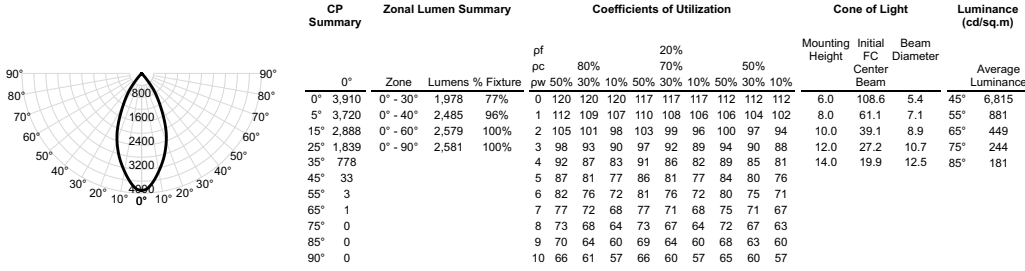
35 Degree Beam

AX4SQ D 32LM 30K 80CRI 35D EZ1 MVOLT 4SQDBV BD Input Watts: 33.4, Delivered Lumens: 2873, LPW: 86.0, S/MH: 0.60, Test No: 20-422-16P40



50 Degree Beam

AX4SQ D 32LM 30K 80CRI 50D EZ1 MVOLT 4SQDBV BD Input Watts: 33.4, Delivered Lumens: 2581, LPW: 77.3, S/MH: 0.74, Test No: 20-422-19P40



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

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	Illumatech	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

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

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