

4"

Square Adjustable High Lumen Architectural Downlight

EPD-4SQ-ADJ-HL

Edison Series



FEATURES

- A highly sustainable and ultra-efficient architectural LED downlight designed for even, glare-free illumination.
- Available in a variety of finishes, distributions, and lumen packages.
- Ideal for use in corporate offices, hospitality, healthcare, commercial spaces, academic institutions, churches, and retail environments.

OPTICS/REFLECTOR

The reflector has 45° visual cutoff and comes standard with w Solite lens in a smooth frosted finish. Made from 0.05" thick spun aluminum, it offers specular anodized finish in various colors or custom RAL finishes. Flange options include self-flange or white-painted, with field-changeable optics and multiple distribution choices.

NOMINAL LUMENS	DELIVERED LUMENS	WATTAGE
6000	6696	61W
4000	4575	38W
3000	3374	32W
2000	2252	20W
1500	1785	15W
1200	1398	12W
900	1065	9W

Lumens	900L, 1200L, 1500L, 2000, 3000, 4000, 6000
CCT	22K, 27K, 30K, 35K, 40K, 50K TWH, WDM, RGB+W
CRI	90+ Standard, 98+ Optional
Color Quality	2 Step Mac Adam Ellipse
Optics	WD (Wide Distribution), MD (Medium Distribution), ND (Narrow Distribution)
Trim Opt.	Adjustable, Wallwash
Trim Color	WH (White), BK (Black), SHZ (Satin Haze), CL (Semi-Specular Chrome), WT(Wheat)
Reflector Color	WH (White), BK (Black), SCH (Semi-Specular Chrome), SHZ (Satin Haze)
Dimming	0-10V Flicker Free 1% Dimming Standard (DIM10), LUTH, LUTFTB, ELDO10.1-LIN, ELDODMX.1, ELDO- DALI.1, DIMTR, BLE, POE, ELDO10-LOG XSR, DIM10- AUX, DIM10-0-Off
Emergency	10W - Up to 1000L Output 20W - Up to 2000L Output EMG-LED-G2-10W-SDT - Self Diagnostic (Consult Factory) GTD-UL924
Lifetime	L70>60,000-hour reported lifetime L70>250,000-hour calculated lifetime
Photometric Tests	In Accordance with IES LM79-08, LM80 and TM-30, TM-21

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PART NUMBER: EPD-4SQ-ADJ-HL-1200L-50K-90-MD-DIM10-120V

Series	Lumens	CCT	CRI	Optics	Drivers	Voltage	Emergency	Options
EPD-4SQ-ADJ-HL	900L	22K	90+	WD	DIM10	120V	EMG-LED-10W	CP (Chicago Plenum)
	1200L	27K	98+ ²	MD	DIMTR ^{3 5}	277V	EMG-LED-20W	BAA
	1500L	30K		ND	LUTH ³	MVOLT	EMG-LED-G2-10W-SDT*	IC Direct Insulation Contact
	2000L	35K			LUTFB ⁴	347V (DIM10 only)	EMG-LED-G2-20W-SDT*	
	3000L	40K			ELDO10-.1-LIN		GTD-UL924	
	4000L	50K ¹			ELDODALI-.1			
	6000L				ELDODMX-.1			
				BLE				
				POE				
				DIM10-0-OFF				
				ELDO10-LOG				
				XSR				
				DIM10-AUX				

Typical lumen output of the luminaire is up to 1000L with EMG-LED-10W option & 2000L with EMG-LED-20W option in emergency mode. Contact the factory for details. Remote mounted installation

*Consult Factory for Self Diagnostic

- 1. 50K series are available with 85+ CRI only
- 2. 98+ CRI is available in 27K, 30K, and 40K only
- 3. LUTH and DIMTR available for luminaires up to 4000L
- 4. LUTFB Available for luminaires up to 1500L
- 5. DIMTR is available in 120V only

TRIM OPTIONS



epd-4sq-401

Flanged Lens Downlight



epd-4sq-414

Flanged Open Downlight



epd-4sq-456

Flanged Lens Downlight



epd-4sq-455

Flanged Open Downlight

TRIM/REFLECTOR FINISH



CL-WH

Clear White



CL-SCH

Clear Semi-Spec



SHZ-WH

Satin Haze White



SHZ-SHZ

Satin Haze



WT-WH

Wheat White



WH-WH

White



BK-BK

Black

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THERMAL MANAGEMENT SYSTEM

Passive cooling Diecast Aluminum Heat Sink, LED light engine and driver are replaceable, upgradeable, and can be accessed from below the ceiling. The consistency in the quality of light is delivered with precision performance by the use of a unique locking mechanism that aligns the reflector with the light engine.

MOUNTING FRAME & BRACKETS

Pre-installed bar hangers allow housing to be positioned and locked at any point within a 24" joist span. They can be positioned on either the long or short axis of the housing and can be shortened for 12" joists. Bar hangers can fit onto T-Bar spline with additional slots and holes for special mounting methods, if necessary. Butterfly brackets are also provided and are constructed from 18-gauge steel and can be adjusted vertically. Butterfly brackets may be installed with 3/4" or 1-1/2" lathing channel, 1/2" EMT, or optional C-Channel mounting bars are available.

TRIMLESS

The Trimless trims installed completely flush with the ceiling plane with Trimless perforated die cast ring. Installation includes the application of drywall compound over the luminaire's integral spackle screen to the trim of its integral plaster ring.

AIMING & ADJUSTABILITY

Proprietary tool-less hot aiming adjustable The system includes high-low lamp positioning. allows the lamp to be positioned at the perfect setting to ensure the proper position of the beam and cut-off angle of light before the trim is installed. The lamp holder is designed to ensure that the center beam. of the light source emerges out of the luminaire at any angled position from 0 to 45deg and effortlessly rotates on a 365° horizontal rotational smooth slotted groove system.

EMERGENCY OPTIONS/CONTROLS

The typical lumen output of the luminaire is up to 1000L with EMG-LED-10W or option & 2000L with EMG-LED-20W or option in emergency mode. The test switch can be mounted remotely. Self Diagnostic emergency option available (EMG-SDTLED-10W). Other accessories and controls systems include modular wiring systems, daylight harvesting controls, occupancy sensors, and/or power packs for individual or room control applications.

DRIVER ELECTRICAL INFORMATION

The LED driver is rated for 50 to 60Hz at 120V/277V, also available in 347V input, produces less than 20%THD, has a power factor between 90% and 100%, and is thermally protected for additional safety. Junction box and Driver can be accessed from below the ceiling and above the ceiling. Junction Box is Listed for through branch circuit wiring.

DRIVER

120/277V 50/60Hz; 347V available. THD <20%; power factor >.09. Thermally protected. Removal of the reflector provides complete accessibility to the junction box, driver, and internal components from above and below the ceiling through the aperture.

WARRANTY

Five-year warranty for parts and components. (Labor not included)

LED DYNAMIC PLATFORM OPTIONS

Tunable White: Allows you to color tune the luminaire via various controls. Create the perfect environment for the desired use of the space, while maintaining a CRI of 90+ across the tunable range of 8000 to 1650K.

Dims to Warm: At 100% full brightness the luminaire is at 3000K. When dimmed to 1%, the light transitions to 1800K, creating a warm ambiance within the space.

RGB+White: Provides full color mixing of RGB and white colors. Utilizing the Lumenetix Platform allows you to choose from unlimited RGB color options, via various controls. Ideal for Circadian Rhythm applications or to create the perfect human centric environment.

DIMMING & DRIVER INFORMATION

DIM10 - 0-10V dimming on either MVOLT 120, 277 or 347V. Dimmable down to 1% of initial lumens, standard.

DIMTR - Triac & Electronic low voltage dimming. Available in 120V, and up with Soft Fade to 6000 lumens only.

LUTH - Lutron LDE1 Hi-Lume Eco System to Black dimming technology.

LUTFB - Lutron PEQ0 Hi-Lume Premier Eco System . Available on all luminaires up to 1500 lumens.

ELDO10.1-LIN - EldoLED SoloDrive 0-10V. Dimming down to 0.1%. Linear dimming curve.

DALI - DALI DT6, DT8 dimming down to 1%.

ELDODMX - EldoLED PowerDrive dimming down to 0.1%.

BLE - Luminaires may be controlled, grouped, scheduled or placed in scenes and or zones Via Cassambi Bluetooth 4.0 App.

DIM10-0-OFF - Program DIM10-to OFF with linear dimming curve 0.1%

ELDO10-LOG - ELDO10-LOG with logarithmic dimming curve.

POE - Power-over-Ethernet Depending on the PoE manufacturer selected, The Node will install the node in factory as either integral to the luminaire or as a remote module.

XSR - Xitanium SR Dimming

DIM10-AUX - 0-10V with Auxiliry power

LISTINGS

Thermally protected, IC rated up to 1500 lumens.

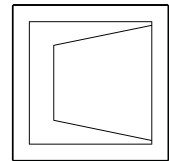
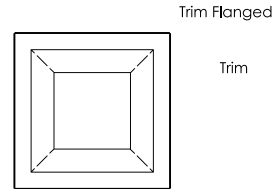
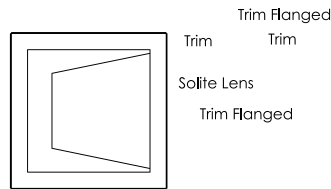
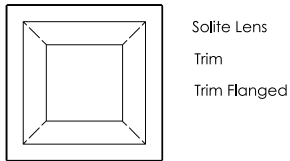
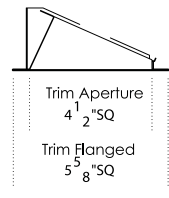
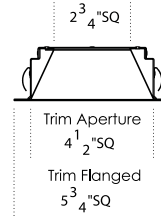
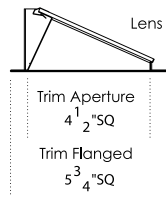
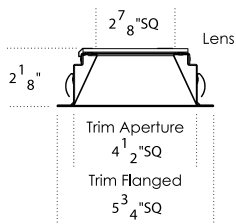
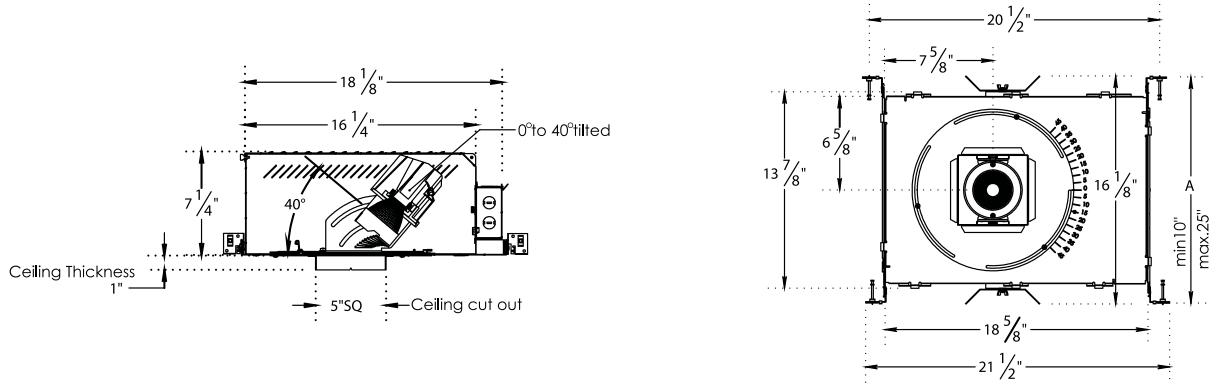
- cULus Listed for protected damp locations with open trims
- EMI/RFI emissions per FCC 47CFR Part 18 Class B
- RoHS complaint
- Photometric testing completed in accordance.
- Energy Star and California Title 24 compliant
- Optional black color trim is not ENERGYSTAR certified and won't meet the requirement.
- With IES LM-79 and TM-30 standards with calculated Lifetime: L70 at 102,000 Hours
- Can be used for the State of California Title 24 high efficacy LED compliance under JAB, reference
- ENERGY STAR ® certified

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epd-4sq-401
Flanged Lens Downlight

epd-4sq-456
Flanged Lens Downlight

epd-4sq-414
Flanged Open Downlight

epd-4sq-455
Flanged Open Downlight

4"

Square Adjustable High Lumen Architectural Downlight

EPD-4SQ-ADJ-HL

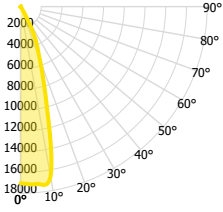
Edison Series

EPD-4SQ-ADJ-HL-6000L-40K-90-ND-DIM10-MVOLT-EPD-4SQ-455-CL-WH

TEST NO: EPL02072511

INPUT WATTS: 60.5 LUMENS: 5928 EFFICACY: 98 BEAM ANGLE: 30 SPACING CRITERIA: 0.54

CANDELA DISTRIBUTION



CANDELA TABLE

	0°	90°
0°	17036	17021
10°	16619	13770
20°	5423	5110
30°	811	733
40°	35	44
50°	15	19
60°	9	11
70°	5	6
80°	1	2
90°	0	0

LUMINANCE (cd/sq.m)

	0.00°	90.00°
0.00°	1146064	1145067
45.00°	2078	2658
55.00°	1289	1606
65.00°	1106	1374
75.00°	671	907
85.00°	232	494

LUMENS PER ZONE

ZONE	LUMENS
0° - 10°	1592
10° - 20°	2409
20° - 30°	1545
30° - 40°	336
40° - 50°	23
50° - 60°	11
60° - 70°	7
70° - 80°	3
80° - 90°	1

ZONAL LUMEN SUMMARY

ZONE	UMENS	% LUMINAIRE
0° - 20°	4001	67%
0° - 30°	5545	94%
0° - 40°	5882	99%
0° - 60°	5915	100%
0° - 80°	5925	100%
0° - 90°	5926	100%

CONE OF LIGHT

MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0°	BEAM DIA. 90°
6.0 ft	473.2 fc	3.2 ft	3.2 ft
8.0 ft	266.2 fc	4.3 ft	4.2 ft
10.0 ft	170.4 fc	5.4 ft	5.3 ft
12.0 ft	118.3 fc	6.4 ft	6.3 ft
14.0 ft	86.9 fc	7.5 ft	7.4 ft
16.0 ft	66.5 fc	8.6 ft	8.4 ft
18.0 ft	52.6 fc	9.7 ft	9.5 ft
20.0 ft	42.6 fc	10.7 ft	10.5 ft

INDOOR COEFFICIENTS OF UTILIZATION

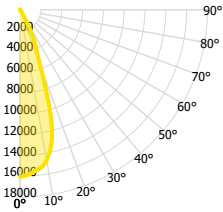
pf	pc	20%																0%	
		80%			70%			50%			30%			10%					
pw	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%	
0	120	120	120	120	117	117	117	117	112	112	112	107	107	107	103	103	103	101	0%
1	115	113	111	109	113	111	109	107	107	105	104	103	102	101	100	99	98	96	0%
2	111	107	104	101	109	106	103	100	102	100	98	98	98	96	96	95	94	92	0%
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89	0%
4	103	97	93	90	102	96	92	89	94	91	88	92	90	87	91	88	86	85	0%
5	100	93	89	85	98	92	88	85	91	87	84	89	86	84	88	85	83	82	0%
6	96	90	85	82	95	89	84	81	87	84	81	86	83	80	85	82	80	79	0%
7	93	86	81	78	92	85	81	78	84	80	78	83	80	77	82	79	77	76	0%
8	90	83	78	75	89	82	78	75	81	77	75	80	77	74	80	76	74	73	0%
9	87	80	75	72	86	79	75	72	79	75	72	78	74	72	77	74	72	71	0%
10	85	77	73	70	84	77	73	70	76	72	69	75	72	69	75	72	69	68	0%

EPD-4SQ-ADJ-HL-6000L-40K-90-MD-DIM10-MVOLT-EPD-4SQ-455-CL-WH

TEST NO: EPL02072511

INPUT WATTS: 60.5 LUMENS: 6003 EFFICACY: 99 BEAM ANGLE: 35 SPACING CRITERIA: 0.61

CANDELA DISTRIBUTION



CANDELA TABLE

	0°	90°
0°	16038	16000
10°	14683	13917
20°	5559	5185
30°	767	681
40°	31	35
50°	12	14
60°	7	8
70°	4	5
80°	1	1
90°	0	0

LUMINANCE (cd/sq.m)

	0.00°	90.00°
0.00°	1078965	1076382
45.00°	1740	2079
55.00°	983	1196
65.00°	860	1046
75.00°	574	775
85.00°	201	432

LUMENS PER ZONE

ZONE	LUMENS
0° - 10°	1485
10° - 20°	2724
20° - 30°	1453
30° - 40°	303
40° - 50°	18
50° - 60°	9
60° - 70°	5
70° - 80°	3
80° - 90°	1

ZONAL LUMEN SUMMARY

ZONE	UMENS	% LUMINAIRE
0° - 20°	4209	70%
0° - 30°	5662	94%
0° - 40°	5965	99%
0° - 60°	5992	100%
0° - 80°	6000	100%
0° - 90°	6001	100%

CONE OF LIGHT

MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0°	BEAM DIA. 90°
6.0 ft	445.5 fc	3.7 ft	3.8 ft
8.0 ft	250.6 fc	5.0 ft	5.0 ft
10.0 ft	160.4 fc	6.2 ft	6.3 ft
12.0 ft	111.4 fc	7.5 ft	7.6 ft
14.0 ft	81.8 fc	8.7 ft	8.8 ft
16.0 ft	62.6 fc	10.0 ft	10.1 ft
18.0 ft	49.5 fc	11.2 ft	11.3 ft
20.0 ft	40.1 fc	12.4 ft	12.6 ft

INDOOR COEFFICIENTS OF UTILIZATION

pf	pc	20%																0%	
		80%			70%			50%			30%			10%					
pw	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%	
0	120	120	120	120	117	117	117	117	112	112	112	107	107	107	103	103	103	101	0%
1	115	113	111	109	113	111	109	108	107	106	104	103	102	101	100	99	98	97	0%
2	111	107	104	101	109	106	103	100	102	100	98	100	98	96	97	95	94	93	0%
3	107	102	98	95	105	101	97	94	98	95	93	96	94	92	94	92	90	89	0%
4	103	98	93	90	102	97	93	90	95	91	88	93	90	87	91	88	87	85	0%
5	100	93	89	86	98	93	88	85	91	87	85	89	86	84	88	85	83	82	0%
6	97	90	85	82	95	89	85	82	88	84	81	86	83	80	85	82	80	79	0%
7	93	86	82	78	92	86	81	78	84	81	78	83	80	77	82	79	77	76	0%
8	90	83	78	75	89	83	78	75	82	78	75	81	77	75	80	77	74	73	0%
9	87	80	76	72	87	80	75	72	79	75	72	78	74	72	77	74	72	71	0%
10	85	77	73	70	84	77	73	70	76	72	70	76	72	69	75	72	69	68	0%