

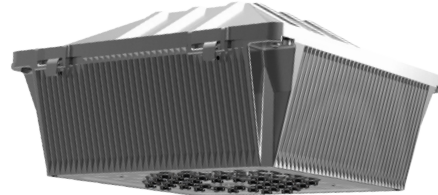
ENDURA SERIES

CEILING MOUNT

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

FEATURES

- Field replaceable LED light engine & optical bezel system
- 6 lighting distributions puts light where it is needed, not wasted
- Shape of the top housing is designed as a bird nesting deterrent and is a standard feature
- Unique design allows the luminaire top to be installed separately and directly to a recessed or surface-mount junction box



CONTROL TECHNOLOGY

LIGHT GRID⁺

SPECIFICATIONS

CONSTRUCTION

- Die cast aluminum two-piece housing
- Shape of the top housing is designed as a bird nesting deterrent
- Die cast main (thermal) housing provides direct-heat exchange between the LED light engine and the cool outdoor air by drawing heat through integral heat channels and out to the sculptured and functional luminaire surface
- LED drivers are thermally isolated from the main housing, mechanically attached and heat-sunked to the top housing
- Main housing is designed with heat dissipating fins for LED thermal management without the use of metallic screens, cages, or fans
- Main and top housings are designed to hinge open for easy mounting and easy access

OPTICS

- Endura luminaire is supplied with an Optical one piece cartridge system consisting of an LED engine, optics, gasket and stainless steel bezel
- LED Engine is held together with internal brass standoffs soldered to the board so that it can be field replaced as a one piece optical system
- Two-piece silicone and polycarbonate foam gasket ensures a weather-proof seal around each individual LED and allows the Endura luminaire to be rated for high-pressure hose down applications
- Optical cartridge is secured to the extruded housing with fasteners and a heat pad to ensure thermal conductivity. The optics are held in place without the use of adhesives and the complete assembly is gasketed for hose down cleaning
- LED assembly is available in various lighting distributions using TIR designed acrylic optical lenses over each LED

INSTALLATION

- Top housing is designed with various bolt patterns for mounting to a recessed, surface or rigid-pendant hung 4" junction box and rigid stem provided by others)
- After mounting the top housing to the junction box, the main housing is designed to hang and hinge closed after connecting the male and female quick connectors
- Mounting design permits a simple retrofit to existing parking structure luminaires that utilize surface mount or recessed junction boxes

ELECTRICAL

- 120V through 277V, 347V, 480V, 50 Hz to 60 Hz
- Endura comes standard with 70 CRI.
- Standard 0 to 10 volt dimming drivers
- Component-to-component wiring within the luminaire may carry no more than 80% of rated load and is listed by UL for use at 600VAC at 50°C or higher
- Plug disconnects are listed by UL for use at 600 VAC, 15A or higher. 15A rating applies to primary (AC) side only
- Surge protection - 20kA
- Dimming Drivers are standard and dimming leads are extended out of the luminaire unless control options require connection to the dimming leads. Must specify if wiring leads are to be greater than the 6" standard.

CONTROLS

- Please consult brand or sales representative when combining control and electrical options as some combinations may not operate as anticipated depending on your application.

CERTIFICATIONS

- The luminaire shall bear a CSA label and be marked suitable for damp locations (standard). Luminaire may be specified for wet locations.
- This product qualifies as a "designated country construction material" per FAR 52.225-11 Buy American-Construction Materials under Trade Agreements effective 06/03/2020.

WARRANTY

- 5 year warranty

KEY DATA	
Lumen Range	3,000–13,000
Wattage Range	27–100
Efficacy Range (LPW)	93–131



ENDURA SERIES

CEILING MOUNT

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

ORDERING GUIDE

Example: EDR-24L-55-5W-UNV-PCU-BLT

CATALOG #

Series	Engine Watts	LED Color	Optics	Voltage	Control Options
EDR Endura	24L-27 27 Watts - LED array 24L-55 55 Watts - LED array 36L-80 80 Watts - LED array 48L-110 100 Watts - LED array	3K7 3000K, 70 CRI 4K7 4000K, 70 CRI 4K8 4000K, 80 CRI 5K7 5000K, 70 CRI	5R Type V, rectangular 5W Type V, wide 5QM Type V, square medium 5QN Type V, square narrow 5QW Type V, square wide Higher Mounting Applications 2x2 Type V, concentrated spot 4x4 Type V concentrated narrow 5x5 Type V, concentrated medium 5x3 Type V, concentrated rectangular	UNV 120–277V 347 347V 480 480V	AD AutoDim timer WIR LightGRID+ in-fixture Module

Electrical Options	Finish
PCU Photocell, button, universal 2PF Dual power feed ^{1,2} BPC Cold weather battery pack ³ BP 0° battery pack ³	BLT Black Matte Textured BLS Black Gloss Smooth DBT Dark Bronze Matte Textured DBS Dark Bronze Gloss Smooth GTT Graphite Matte Textured LGS Light Grey Gloss Smooth PSS Platinum Silver Smooth WHT White Matte Textured WHS White Gloss Smooth VG Verde Green Textured Color Option CC Custom Color

Notes:

- 1 Not available on 24L-27
- 2 Not available @347V or 480V input
- 3 36L-80 only

ENDURA SERIES

CEILING MOUNT

ELECTRICAL DATA

# LED'S	DRIVE CURRENT	SYSTEM WATTS	DISTRIBUTION TYPE	5K (5000K nominal, 70CRI)					4K (4000K nominal, 70CRI)					3K (3000K nominal, 70CRI)				
				LUMENS	LPW ¹	B	U	G	LUMENS	LPW ¹	B	U	G	LUMENS	LPW ¹	B	U	G
24	350mA	27W	2X2	3567	129	N/A	N/A	N/A	3640	131	N/A	N/A	N/A	3278	118	N/A	N/A	N/A
			4X4	3490	126	N/A	N/A	N/A	3561	129	N/A	N/A	N/A	3207	116	N/A	N/A	N/A
			5QM	3275	118	2	0	0	3341	121	2	0	0	3010	109	2	0	0
			5QN	3072	111	2	1	2	3135	113	2	1	2	2824	102	2	1	2
			5R	3330	120	2	1	2	3398	123	2	1	2	3061	110	2	1	2
			5W	3309	119	2	1	1	3376	122	2	1	1	3041	110	2	1	1
			5RW	3317	123	2	0	2	3384	125	2	0	2	3049	113	2	0	2
			5X3	3300	119	N/A	N/A	N/A	3367	122	N/A	N/A	N/A	3033	109	N/A	N/A	N/A
			5X5	3373	122	N/A	N/A	N/A	3441	124	N/A	N/A	N/A	3100	112	N/A	N/A	N/A
24	700mA	55W	2X2	6611	121	N/A	N/A	N/A	3746	124	N/A	N/A	N/A	6076	111	N/A	N/A	N/A
			4X4	6468	119	N/A	N/A	N/A	6600	121	N/A	N/A	N/A	5944	109	N/A	N/A	N/A
			5QM	6069	111	2	0	1	6193	114	2	0	1	5578	102	2	0	1
			5QN	5694	104	3	1	2	5810	107	3	1	2	5233	96	3	1	2
			5R	6172	113	3	1	3	6298	116	3	1	3	5673	104	3	1	3
			5W	6132	113	3	1	1	6257	115	3	1	1	5636	103	3	1	1
			5RW	6147	112	3	0	3	6272	114	3	0	3	5650	103	3	0	3
			5X3	6115	112	N/A	N/A	N/A	6240	114	N/A	N/A	N/A	5621	103	N/A	N/A	N/A
			5X5	6251	115	N/A	N/A	N/A	6378	117	N/A	N/A	N/A	5745	105	N/A	N/A	N/A
36	700mA	80W	2X2	9916	121	N/A	N/A	N/A	10119	124	N/A	N/A	N/A	9114	112	N/A	N/A	N/A
			4X4	9702	119	N/A	N/A	N/A	9900	121	N/A	N/A	N/A	8917	109	N/A	N/A	N/A
			5QM	9103	111	3	0	1	9289	114	3	0	1	8367	102	3	0	1
			5QN	8541	105	4	1	3	8715	107	4	1	3	7850	96	4	1	3
			5R	9258	113	3	2	3	9447	116	3	2	3	8509	104	3	2	3
			5W	9198	113	3	2	2	9386	115	3	2	2	8454	103	3	2	2
			5RW	9221	115	3	0	3	9407	118	3	0	3	8475	106	3	0	3
			5X3	9173	112	N/A	N/A	N/A	9360	115	N/A	N/A	N/A	8431	103	N/A	N/A	N/A
			5X5	9376	115	N/A	N/A	N/A	9568	117	N/A	N/A	N/A	8617	105	N/A	N/A	N/A
48	700mA	110W	2X2	13222	121	N/A	N/A	N/A	13492	123	N/A	N/A	N/A	12152	111	N/A	N/A	N/A
			4X4	12936	118	N/A	N/A	N/A	13200	120	N/A	N/A	N/A	11889	108	N/A	N/A	N/A
			5QM	12138	110	3	0	2	12386	113	3	0	2	11156	102	3	0	2
			5QN	11388	104	4	2	3	11620	107	4	2	3	10466	96	4	2	3
			5R	12344	113	3	2	3	12596	116	3	2	3	11345	104	3	2	3
			5W	12264	112	4	2	2	12514	115	4	2	2	11272	103	4	2	2
			5RW	12294	111	4	0	4	12543	113	4	0	4	11300	102	4	0	4
			5X3	12231	112	N/A	N/A	N/A	12480	114	N/A	N/A	N/A	11241	103	N/A	N/A	N/A
			5X5	12501	114	N/A	N/A	N/A	12757	117	N/A	N/A	N/A	11490	105	N/A	N/A	N/A

¹ Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown. Actual performance may differ as a result of end-user environment and application

ENDURA SERIES

CEILING MOUNT

ELECTRICAL DATA (CONTINUED)

# OF LEDS	DRIVE CURRENT (mA)	INPUT VOLTAGE (V)	SYSTEM POWER (w)	CURRENT (Amps)
27	350	120	27.0	0.23
		277		0.10
24	700	120	55.0	0.46
		277		0.20
36		120	82.0	0.68
		277		0.30
48		120	110.0	0.92
		277		0.40

AMBIENT TEMPERATURE		LUMEN MULTIPLIER
0°C	32°F	1.02
10°C	50°F	1.01
20°C	68°F	1.00
25°C	77°F	1.00
30°C	86°F	1.00
40°C	104°F	0.99

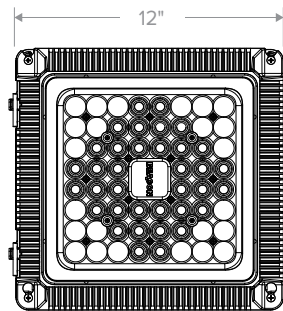
Use these factors to determine relative lumen output for average ambient temperatures from 0-50°C (32-122°F)

PROJECTED LUMEN MAINTENANCE

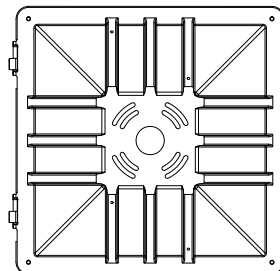
AMBIENT TEMP.	0	25,000	50,000	1TM-21-11 60,000	100,000	Calculated L70 (HOURS)
25°C / 77°F	1.00	0.97	0.96	0.95	0.93	>587,000

¹ Projected per IESNA TM-21-11
 Data references the extrapolated performance projections for the base model in a 40°C ambient, based on 10,000 hours of LED testing per IESNA LM-80-08

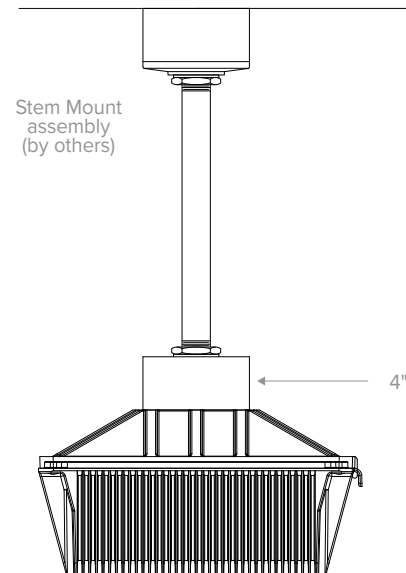
DIMENSIONS



Bottom

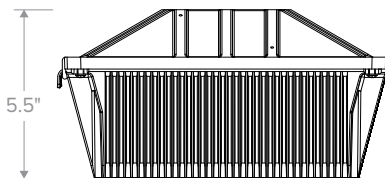


Top

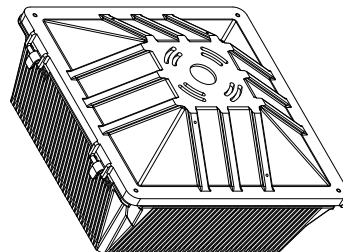


Stem Mount assembly (by others)

4" Cast j-box



Side



Isometric