

Hazardous Location LED Luminaire

EPC-B B-Series LED Luminaire

CLASS I, DIVISION 2

Four housing groups spanning selectable 40 W through 300 W and fixed 350 W through 550 W configurations.



B2

40 / 60 / 80 W selectable

B5

60 / 80 / 100 W selectable*

BX

120 / 150 / 200 W selectable

B4

200 / 250 / 300 W selectable; 350-550 W fixed



Standards / Listings

- UL 844 Class I Div 2 Groups A-D
- Class II Div 1 Groups E, F, G
- Class II Div 2 Groups F, G
- Class III

Protection / Environmental

- UL 1598 Wet
- UL 1598A Marine Outside Type
- ABS; NEMA 4X; 3G vibration
- IP66; IK08 / IK10 with guard

Construction

- Die-cast aluminum housing
- Clear flat glass; silicone gasket
- Stainless steel 304 hardware
- 500-hour salt-spray test

Configuration support: match the housing, wattage, input voltage, ambient rating and mounting method. Maes Lighting will confirm the complete catalog number for the selected application.

Power, output and driver map

B-Series Selection Matrix

Housing	Documented power	Nominal output	120-277 / 347 VAC driver	277-480 VAC driver
B2	40 / 60 / 80 W selectable	160 lm/W 6,400-12,800 lm	FD-100T-054D 120-347 VAC	VA-100V-054B
B5	60 / 80 / 100 W selectable*	160 lm/W 9,600-16,000 lm	SS-100VA-56BHL 120-277 VAC	VA-100V-054B
BX	120 / 150 / 200 W selectable	160 lm/W 19,200-32,000 lm	XLG-240-H-ABL 120-277 VAC	VA-240V-056B
B4	200 / 250 / 300 W selectable 350 / 400 / 500 / 550 W fixed	165 lm/W 33,000-49,500 lm for 200-300 W only	ELGC-300-H-AB / SS-500VP / SS-600VP-56BH	HVG-480-48AB / HVG-650-48AB

For fixed-output B4 models, request the photometric package for the selected wattage and application.

Shared Optical

- 4000 K / 5000 K / 6500 K selectable
- CRI > 70
- 120° beam
- 2835 LED package
- 1-10 V dimming requires a separate DC control circuit

Shared Mechanical

- 50/60 Hz
- 3/4 in NPT entries
- Ceiling / surface mounting included
- Optional emergency on B5 and BX; minimum 90 minutes
- Five-year fixture warranty; three-year battery warranty

Selection support: share the required lumen package, voltage range, ambient temperature and mounting method for a project-specific recommendation.

Temperature code belongs to the selected row

Ambient and T-Code Matrix

Housing / output	Input / driver	Temperature code	Documented ambient	Classification
B2	120-347 / FD-100T-054D	T4A	-40 to +55°C	Class I Div 2
B2	277-480 / VA-100V-054B	T4A	-40 to +55°C	Class I Div 2
B5	120-277 / SS-100VA-56BHL	T5	-40 to +60°C	Class I Div 2
B5	277-480 / VA-100V-054B	T5	-40 to +55°C	Class I Div 2
BX	120-277 / XLG-240-H-ABL	T4A	-40 to +50°C	Class I Div 2
BX	277-480 / VA-240V-056B	T4A	-40 to +50°C	Class I Div 2
B4 · 300 W	Both voltage bands	T5	-40 to +55°C	Class I Div 2
B4 · 350 W	Both voltage bands	T5	-40 to +55°C	Class I Div 2
B4 · 400 W	120-277 VAC	T4A	-40 to +55°C	Class I Div 2
B4 · 400 W	277-480 VAC	T4A	-40 to +50°C	Class I Div 2
B4 · 500 W	Both voltage bands	T4A	-40 to +50°C	Class I Div 2
B4 · 550 W	Both voltage bands	T4A	-40 to +40°C	Class I Div 2

Documented Photometric Reference

Lumen Output (l/m)	53106	53716	52732	44882	45221	44540	35291	35404	35089
Beam Angle	109.9	109.7	109.6	109.9	109.7	109.6	109.9	109.7	109.6
CCT (K)	6214	5003	4075	6189	5001	4073	6173	5003	4068
CRI	73.2	73.5	73	73	73.5	73.1	73.1	73.5	73.1
Power Factor	0.999	0.9988	0.998	0.9971	0.9968	0.998	0.9963	0.9959	0.9964
Test Voltage	120VAC								
Test Power Model	ELGC-300-H-AB								

Photometric

• 120 Degree

UNIT: cd
— C0/180,109.6°
— C30/210,111.2°
— C60/240,113.1°
— C90/270,114.7°
AVERAGE BEAMANGLE(50%): 112.1 DEG

Beam	120°
CCT	4000 / 5000 / 6500 K selectable
CRI	> 70
LED package	2835
B2 / B5 / BX efficacy	160 lm/W nominal
B4 selectable efficacy	165 lm/W nominal

Measured electrical and photometric values are configuration-specific and remain separate from nominal family selection data.

Published test identities

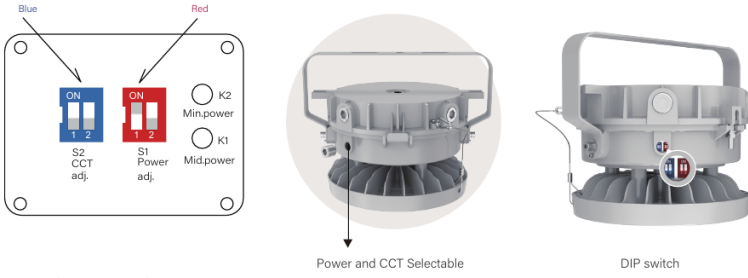
Selectable Power Test Tables

Housing	Published model	Settings tested	Supply	Driver
B2	EPC80WB2D50D120PMT10T	80 / 60 / 40 W	120 VAC	FD-100T-054D
B5	EPC100WB5D50D120V10T	100 / 80 / 60 W	120 VAC	SS-100VA-56BHL
BX	EPC200WBXD50D120X24T	200 / 150 / 120 W	120 VAC	XLG-240-H-ABL
B4	EPC300WB4D50D120EPG30T	300 / 250 / 200 W	120 VAC	ELGC-300-H-AB

These rows identify the published measured tables; the source PDF should be used for each measured current, power factor, THD, lumen and efficacy result.

DIP Switch Reference

Power and CCT Selectable



Power and CCT Selectable

DIP switch

Operating Instructions

• **S1 DIP switch - Red (S1 Power adj.)**

The luminaire incorporates a dual-dial power configuration switch enabling three selectable output ratings. Factory default settings and power levels can be customized based on project requirements.

1. Maximum Output (100% nominal power)
Switch configuration: Dial 1 = OFF, Dial 2 = OFF;



B5: 150W

2. Medium Output (70%-90% of nominal power, depending on

• **S2 DIP switch - Blue (S2 CCT adj.)**

The luminaire incorporates a dual-dial power configuration switch enabling three preset color temperature options. The factory default setting can be customized according to order requirements.

1. Cool white, e.g. 6500K
Switch configuration: Dial 1 = OFF, Dial 2 = OFF



6500K

2. Neutral white, e.g. 5000K

Measured test scope

Measured results apply to the exact model, driver, voltage and selected switch position identified in the test report.

Configuration verification

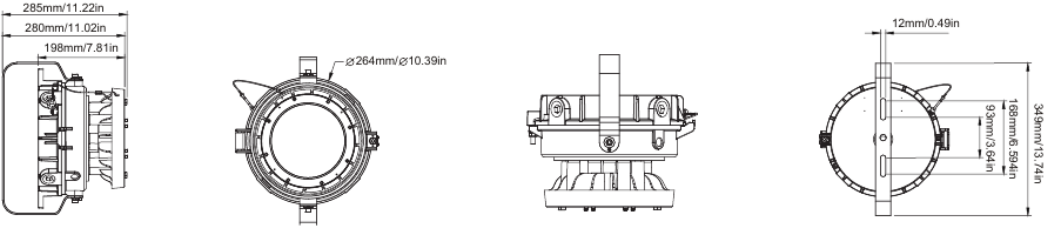
Match housing, driver, supply range, selected wattage, CCT, optic, mounting method and ambient row to the project submittal.

Source geometry

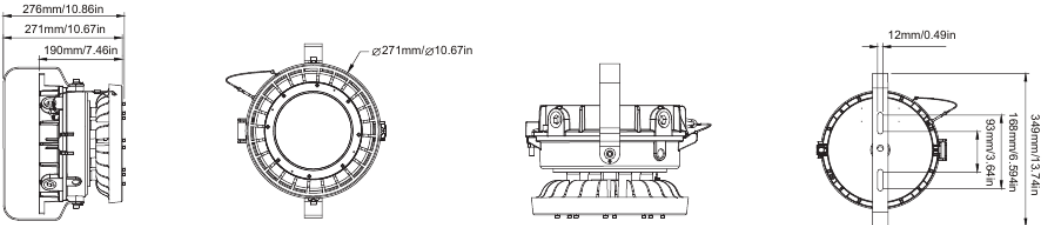
Dimensions and Packing

Product Dimensions Unit: mm[inch]

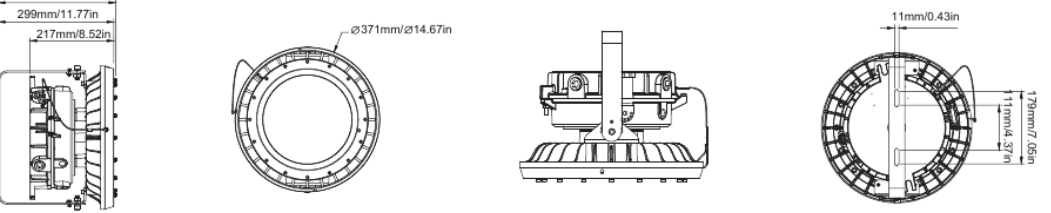
• B2



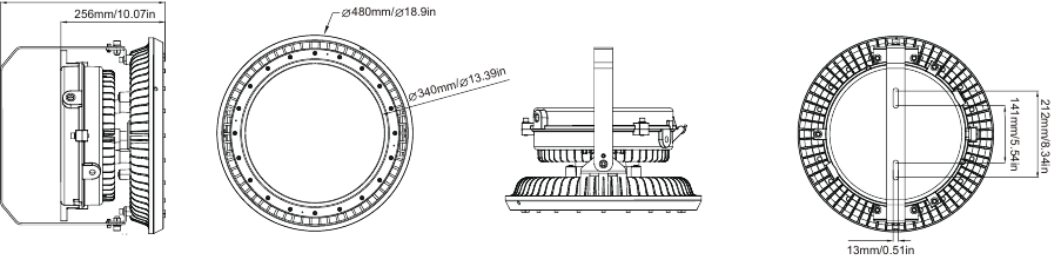
• B5



• BX



• B4



Housing	Carton	Net weight	Gross weight	Quantity
B2	450 × 450 × 300 mm	6.4 kg / 14.11 lb	7.1 kg / 15.65 lb	1 pc
B5	450 × 450 × 300 mm	7.3 kg / 16.09 lb	8.2 kg / 18.08 lb	1 pc
BX	450 × 450 × 320 mm	11.4 kg / 25.13 lb	12.4 kg / 27.34 lb	1 pc
B4	575 × 575 × 356 mm	17.0 kg / 37.48 lb	23.5 kg / 51.81 lb	1 pc

Use the source drawing above for measurement orientation and bracket clearances. Confirm the selected housing, mount and entry path before laying out structure or conduit.

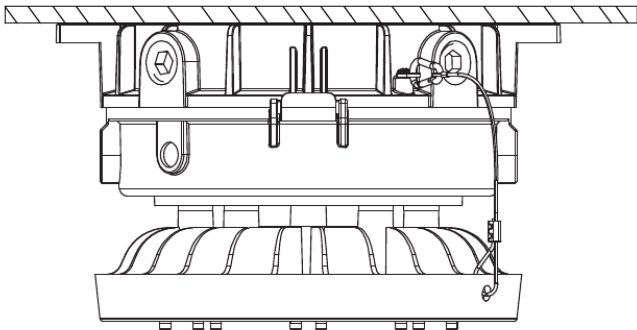
Five documented installation forms

Mounting and Accessories

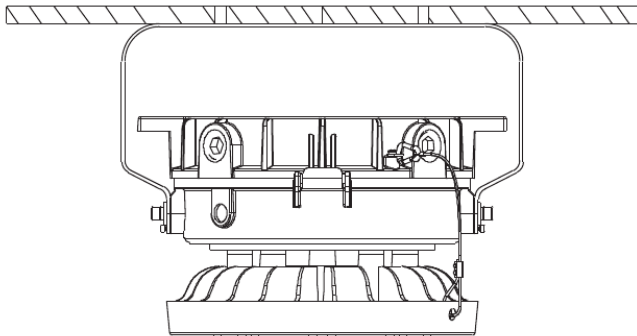
A1, B1, C1, D1 and I1 are mounting-method codes, not separate luminaires. Select a B2, B5, BX or B4 housing first, then confirm the compatible mounting method.

Mounting Methods

• Option 1: Ceiling Mounting



• Option 2: U bracket Mounting



A1 · Ceiling

Ceiling or surface configuration.

B1 · U-bracket

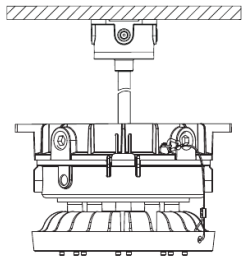
Adjustable bracket configuration.

C1 / D1

Wall mount or 25° pole mount.

EPC B Spec Sheet

• Option 3: Pendant Mounting



Accessories



I1 · Pendant: confirm pendant assembly and 3/4 in NPT entry. Accessories documented in the source include EPC-Bended Pipe, EPC-Straight Pipe, EX-HD51-KYD 90°, EX-HD51-KYD 25°, EPC-Slip Fitter Kit, EPC-90° and EPC-25° Wall Mount Kits, EPC-90° and EPC-25° Stanchion Mount Kits, EPC-Hook and EX-HD51-KB1.

Build the code only after engineering review

Ordering Guide

EPC - WATTAGE - HOUSING - CCT - BEAM - VOLTAGE - DRIVER - OPTIONS

Housing B2, B5, BX or B4. Match the housing to the technical and measured tables.	CCT 4000 K, 5000 K or 6500 K selectable as documented.	Beam 120° documented family optic.
Voltage 120-277 / 347 VAC or 277-480 VAC, driver-dependent.	Control 1-10 V dimming requires a separate DC control circuit.	Mount A1 ceiling, B1 U-bracket, C1 wall, D1 25° pole or I1 pendant.

Project Specification Checklist

Selection area	Project information	Configuration review
Housing and output	Target wattage, lumen package and preferred housing.	Housing size, selectable or fixed output, and catalog number.
Electrical	Supply voltage, controls and emergency-operation requirements.	Driver, voltage band, dimming and emergency options.
Environment	Area classification, gas or dust groups, ambient temperature and ingress exposure.	Applicable listings, temperature code and environmental ratings.
Optical	CCT preference, target light levels, mounting height and layout.	Optical selection and project-specific photometric package.
Mounting	Ceiling, U-bracket, wall, pole or pendant installation.	Mounting code, entries, guard and accessory requirements.

Ready for review: send the project classification, ambient conditions, wattage target, voltage, mounting method and layout to Maes Lighting for a complete recommendation.

Warranty

Five-year fixture warranty. Three-year battery-backup warranty where the documented emergency option applies.

Emergency

Optional for B5 and BX; minimum 90-minute operation. Confirm the complete emergency configuration and ambient limits.