

Hazardous Location LED Luminaire

EPC-A A-Series LED Luminaire

CLASS I, DIVISION 2

Four housing sizes covering selectable 40 W through 300 W, plus documented single-power 350 W through 550 W A4 configurations.



A2 40 / 60 / 80 W selectable	A 80 / 100 / 150 W selectable	A3 120 / 150 / 200 W selectable	A4 200 / 250 / 300 W selectable; 350-550 W single power
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Documented Listings - UL 844 - Class I, Division 2, Groups A, B, C and D - UL 1598 Wet - UL 1598A Marine Type - ABS	Protection - IP66 ingress protection - IK08 impact protection - IK10 with wire guard - NEMA 4X; 3G vibration	Construction - Die-cast aluminum housing - Clear flat glass - Silicone gasket - Stainless steel 304 hardware
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Documented Applications - Oil and gas industry - Ocean, marine location	- Metal treatment industry - Heavy industrial storage facility	- Chemical processing facility - Wastewater Treatment Plants	- Power Plants - Food and Alcohol Industry
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Use the housing, voltage, driver, temperature-class and mounting tables together. Maes Lighting will confirm the complete catalog number for the selected configuration.

Choose the housing, then the electrical configuration

Family, Power and Driver Matrix

Housing	Documented Power	Nominal Efficacy / Output	120-277 / 347 V Driver	277-480 V Driver
A2	40 / 60 / 80 W selectable	160 lm/W 6,400-12,800 lm	FD-100T-054D 120-347 VAC	VA-100V-054B
A	80 / 100 / 150 W selectable	170 lm/W 17,000-25,500 lm	SS-150VA-56BHL	VA-150V-054B
A3	120 / 150 / 200 W selectable	175 lm/W 21,000-35,000 lm	SS-240VA-56BHL	VA-240V-056B
A4	200 / 250 / 300 W selectable 350 / 400 / 500 / 550 W single power	175 lm/W 35,000-52,500 lm for selectable models only	ELGC-300-H-AB / SS-500VP / SS- 600VP-56BH	HVG-480-48AB / HVG- 650-48AB

Contact Maes Lighting for configuration-specific output data for the 350 W, 400 W, 500 W and 550 W models.

Shared Electrical

- 50/60 Hz
- Power factor > 0.95 at 120 V
- 1-10 V dimming; separate DC dimming circuit required
- Optional emergency: minimum 90 minutes; contact sales
- 4000 K / 5000 K / 6500 K selectable CCT

Shared Mechanical

- 120-degree optic; CRI > 70
- 500-hour salt spray
- 3/4 in and 1/2 in NPT entries
- Ceiling and wall mounting included
- Pendant mounting purchased separately
- Five-year limited fixture warranty

Rated-life documentation: request the current performance statement for the selected configuration with the project submittal.

Optical, mechanical and ambient data

Family Specifications

Optical

Housing	Selectable Power	Nominal lm/W	Nominal Lumen Range	CCT	CRI	Beam
A2	40 / 60 / 80 W	160	6,400-12,800 lm	4000 / 5000 / 6500 K	> 70	120°
A	80 / 100 / 150 W	170	17,000-25,500 lm			
A3	120 / 150 / 200 W	175	21,000-35,000 lm			
A4	200 / 250 / 300 W	175	35,000-52,500 lm			
Shared across A2, A, A3 and A4: 4000 / 5000 / 6500 K selectable CCT, CRI > 70 and 120° beam.						

Mechanical and Listings

Housing / Lens	Die-cast aluminum / clear flat glass	Gasket / Hardware	Silicone rubber / stainless steel 304
Protection	IP66; IK08; IK10 with wire guard	Entries	3/4 in NPT; 1/2 in NPT
Mounting	Ceiling and wall included; pendant purchased separately		
Listings	UL Certified US/Canada; UL 844 Class I Div 2 Groups A/B/C/D; UL 1598 Wet; UL 1598A Marine Type; ABS; NEMA 4X; 3G vibration		

Ambient Temperature - A2, A and A3

Housing	Input	Driver	Temperature Class
A2	120-347 VAC	FD-100T-054D	T4A: -40°C to +55°C (CIDII); T6: -40°C to +45°C (CIDII/CIDIII/CIII)
	277-480 VAC	VA-100V-054B	
A	120-277 VAC	SS-150VA-56BHL	T4A: -40°C to +50°C (CIDII); T5: -40°C to +40°C (CIDII/CIDIII/CIII)
	277-480 VAC	VA-150V-054B	
A3	120-277 VAC	SS-240VA-56BHL	T4A: -40°C to +50°C (CIDII); T5: -40°C to +45°C (CIDII/CIDIII/CIII)
	277-480 VAC	VA-240V-056B	

Confirm the required area classification, temperature code and complete model for the installation.

A4 temperature-class matrix

A4 Ambient Limits and A2 Test Data

Power	Input / Driver	Temperature Class
300 W	120-277 VAC / ELGC-300-H-AB 277-480 VAC / HVG-480-48AB	T5: -40°C to +50°C (CIDII); T5: -40°C to +50°C (CIDIII/CIIIDII/CIII)
350 W	SS-500VP / HVG-480-48AB (single power)	T5: -40°C to +55°C (CIDII)
400 W	SS-600VP-56BH / HVG-650-48AB (single power)	T4A: -40°C to +55°C (CIDII)
500 W	SS-600VP-56BH / HVG-650-48AB (single power)	T4A: -40°C to +50°C (CIDII)
550 W	SS-600VP-56BH / HVG-650-48AB (single power)	T4A: -40°C to +40°C (CIDII)

Verify the required temperature-class marking for the selected 300 W configuration at quote.

A2 - EPC80WA2D50D120MT10T / 120 VAC / FD-100T-054D

Measured Value	80 W			60 W			40 W		
	6500 K	5000 K	4000 K	6500 K	5000 K	4000 K	6500 K	5000 K	4000 K
Lumens per watt	150.85	157.81	149.61	152.77	158.4	152.88	154.27	158.01	154.14
Lumen output	11808	11980	11596	8831.7	9006.6	8974.8	6064	6152	6103
Beam angle	108.6	108.4	108.3	108.5	108.4	108.2	108.6	108.4	108.3
Measured CCT	6378	5043	4044	6354	5040	4038	6324	5037	4031
CRI	74.3	74.6	73.9	74.3	74.6	73.9	74.3	74.6	73.9
Power factor	0.9967	0.9966	0.9967	0.9951	0.9949	0.9951	0.9909	0.9906	0.9905

Actual measurements at 120 VAC

A and A3 Electrical Test Data

A - EPC150WAD50D120V15T / SS-150VA-56BHL

Measured Value	150 W			100 W			80 W		
	6500 K	5000 K	4000 K	6500 K	5000 K	4000 K	6500 K	5000 K	4000 K
Lumens per watt	169.44	176.01	167.52	174.57	178.86	171.92	176.43	179.17	173.12
Lumen output	25606	25919	25500	18107	18132	17868	14744	14634	14454
Beam angle	110.5	110.2	109.8	110.6	110.2	109.7	110.6	110.2	109.7
Measured CCT	6060	4954	4092	6040	4942	4082	6009	4940	4080
CRI	73.3	74	73.5	73.4	73.9	73.5	73.3	73.9	73.5
Power factor	0.9977	0.9977	0.9977	0.9956	0.9954	0.9957	0.9924	0.9923	0.9924

A3 - EPC200WA3D50D120V24T / measured test driver SS-200VA-56BHL

Measured Value	200 W			150 W			120 W		
	6500 K	5000 K	4000 K	6500 K	5000 K	4000 K	6500 K	5000 K	4000 K
Lumens per watt	165.04	172.88	166.7	168.75	175.19	170.12	171.13	176.14	171.81
Lumen output	33402	34107	33893	25706	26039	25850	21066	21228	21134
Beam angle	108.3	108.3	108.2	108.3	108.4	108.2	108.4	108.5	108.3
Measured CCT	6216	4945	4080	6199	4935	4071	6168	4927	4065
CRI	73.6	74.4	73.9	73.6	74.2	73.8	73.4	74.1	73.8
Power factor	0.9974	0.9974	0.9973	0.9971	0.9970	0.9971	0.9957	0.9956	0.9957

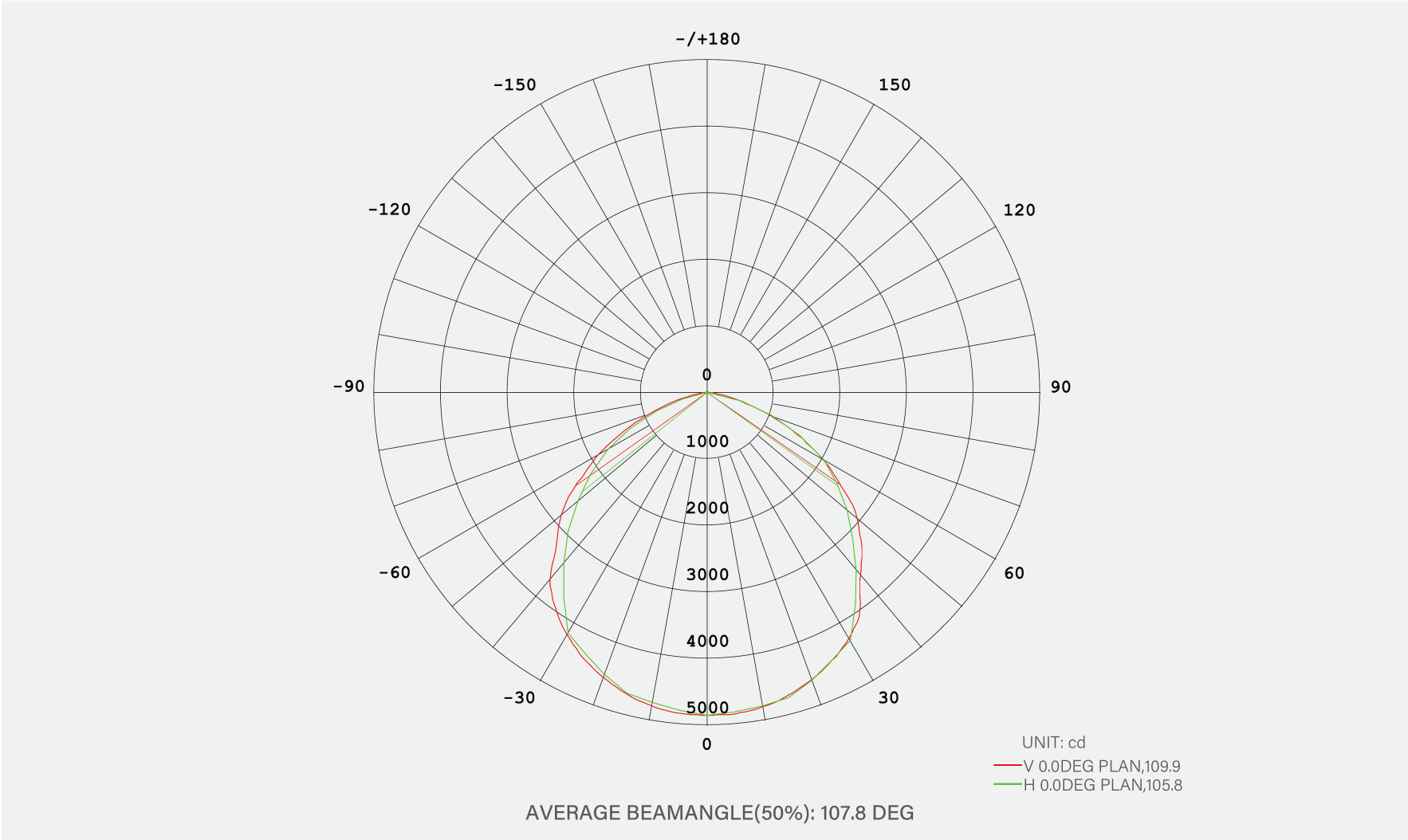
A3 configuration review: confirm the specified driver, supply voltage and complete catalog number with the project submittal.

A4 actual measurements at 120 VAC

A4 Test Data and Polar Distribution

EPC300WA4D50D120G30T / ELGC-300-H-AB

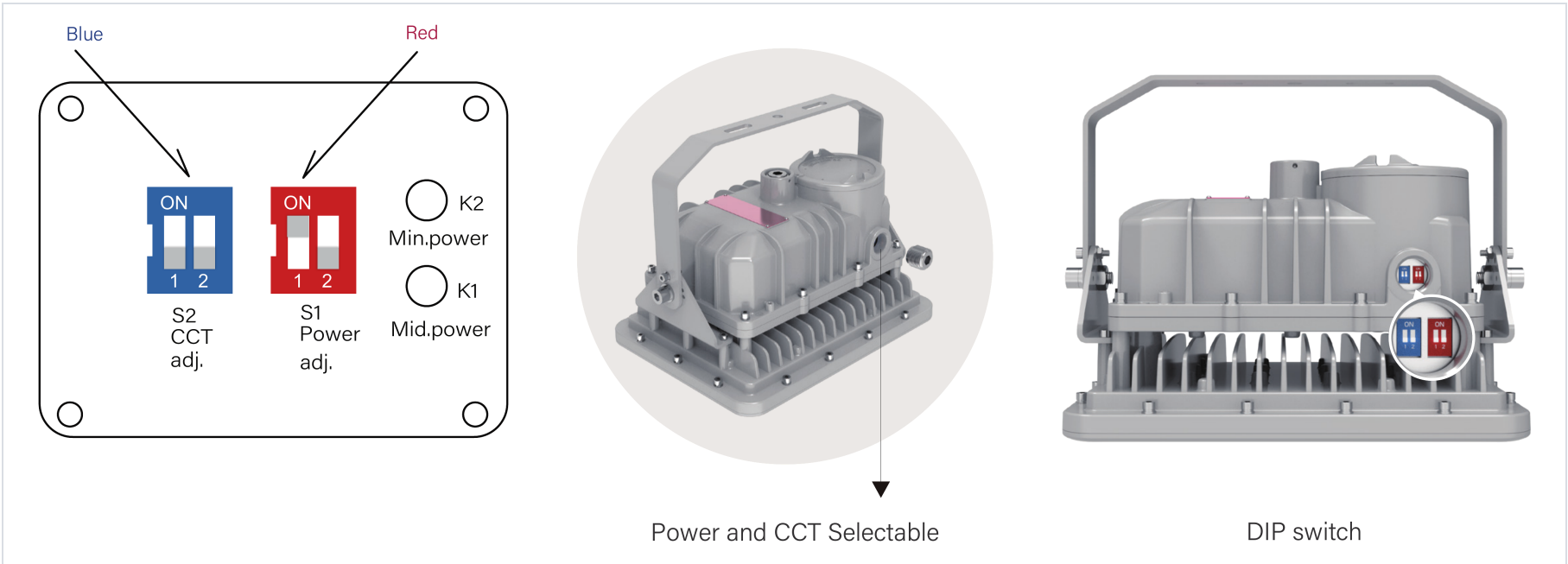
Measured Value	300 W			250 W			200 W		
	6500 K	5000 K	4000 K	6500 K	5000 K	4000 K	6500 K	5000 K	4000 K
Lumens per watt	177.56	183.72	177.81	179.57	185.84	181.3	182.89	188.05	183.37
Lumen output	54104	54772	54407	45255	45942	46062	36847	37198	36954
Beam angle	110.8	110.6	109.2	110.8	110.5	110.2	110.8	110.6	110.8
Measured CCT	6189	4959	4026	6180	4954	4021	6148	4949	4017
CRI	73.4	74.1	73.6	73.6	74.1	73.4	73.2	74	73.6
Power factor	0.9979	0.9979	0.9981	0.9971	0.9969	0.9973	0.9963	0.9957	0.9961



Average beam angle (50%): 107.8°; vertical 0° plane: 109.9°; horizontal 0° plane: 105.8°. Request the applicable IES file for the selected housing, wattage and optic.

Model A controls

DIP Switch Selection



S1 - Red / Power

Model A provides three selectable outputs. Factory defaults and project settings must follow the ordered configuration.

150 W	Dial 1 OFF / Dial 2 OFF
100 W	Dial 1 ON / Dial 2 OFF
80 W	Dial 1 OFF / Dial 2 ON

S2 - Blue / CCT

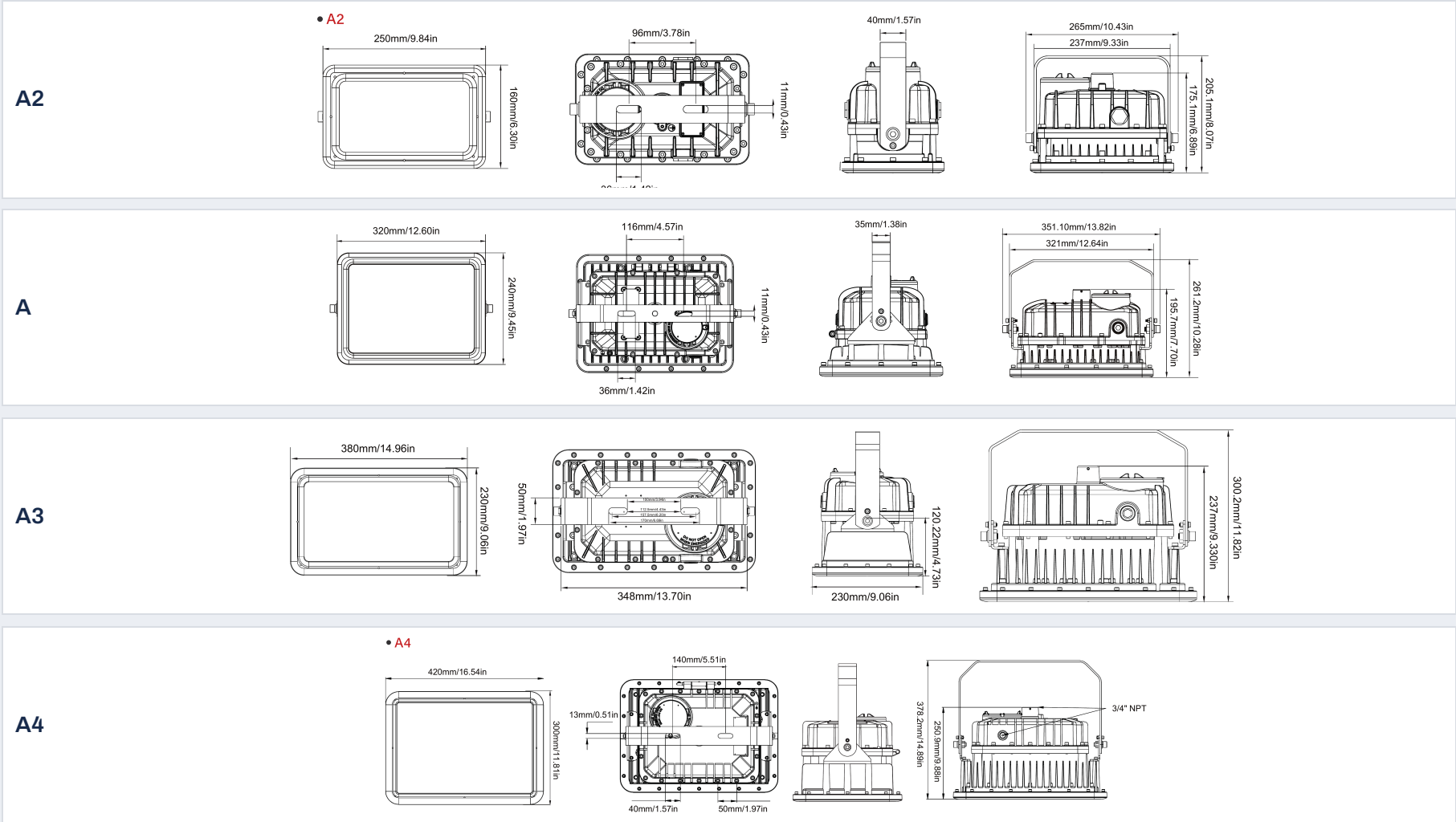
Model A provides three selectable color-temperature positions.

6500 K	Dial 1 OFF / Dial 2 OFF
5000 K	Dial 1 ON / Dial 2 OFF
4000 K	Dial 1 ON / Dial 2 ON

This switch graphic and the 150 / 100 / 80 W instructions are documented for the A housing. Do not apply the switch positions to another housing without confirming its ordered configuration.

Mechanical drawings

Housing Dimensions



A3

380mm/14.96in

230mm/9.06in

50mm/1.97in

348mm/13.70in

120.22mm/4.73in

230mm/9.06in

300.2mm/11.82in

237mm/9.33in

A4

420mm/16.54in

300mm/11.81in

140mm/5.51in

13mm/0.51in

40mm/1.57in

50mm/1.97in

378.2mm/14.89in

250.9mm/9.88in

3/4" NPT

Searchable Envelope Index

Housing	Body	Overall / Fixture Height	Other Dimensions
A2	250 x 160 mm	265 x 205.1 mm; fixture 175.1 mm	237 mm handle span; 40 mm handle width; 96 / 36 / 111 mm details
A	320 x 240 mm	351.10 x 261.2 mm; fixture 195.7 mm	321 mm span; 35 mm handle; 116 / 36 / 111 mm details
A3	380 x 230 mm	300.2 mm overall; fixture 237 mm	348 mm rear width; 230 mm side depth; 120.22 mm unmounted height; 50 mm detail
A4	420 x 300 mm	378.2 mm overall; fixture 250.9 mm	140 / 13 / 40 / 50 mm details; 3/4 in NPT

Packing and installation reference

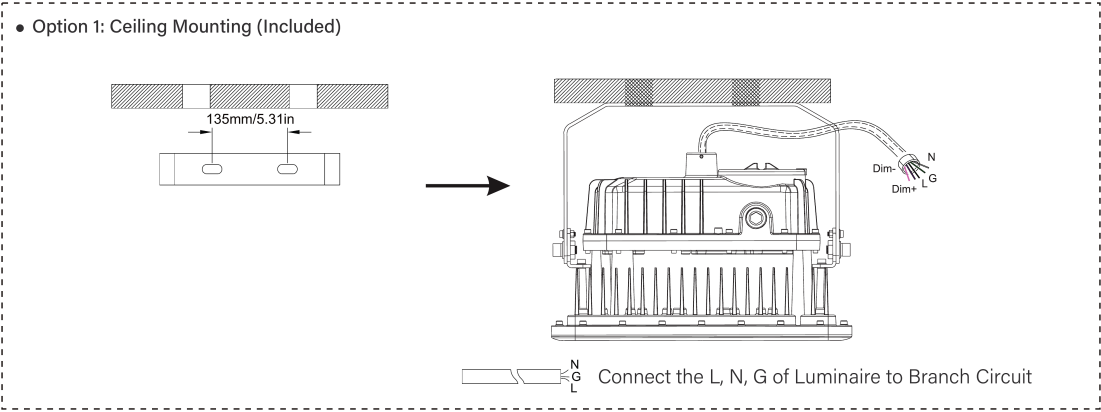
Carton Data, Ceiling and Wall Mounting

Housing	Package Dimensions	Net Weight	Gross Weight	Qty
A2	365 x 270 x 305 mm	4.15 kg / 9.15 lb	5.30 kg / 11.68 lb	1
A	430 x 320 x 350 mm	8.2 kg / 10.08 lb	9 kg / 19.84 lb	1
A3	460 x 362 x 295 mm	10.5 kg / 23.15 lb	11.5 kg / 25.35 lb	1
A4	497 x 465 x 350 mm	15.1 kg / 33.29 lb	18.55 kg / 40.90 lb	1

Confirm fixture weight and mounting loads for the selected configuration before installation.

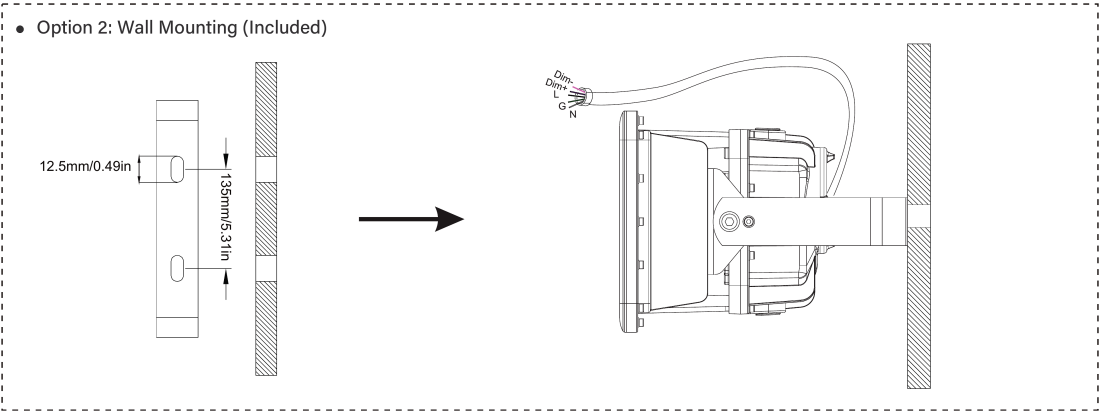
Ceiling Mount - Included

• Option 1: Ceiling Mounting (Included)



Wall Mount - Included

• Option 2: Wall Mounting (Included)

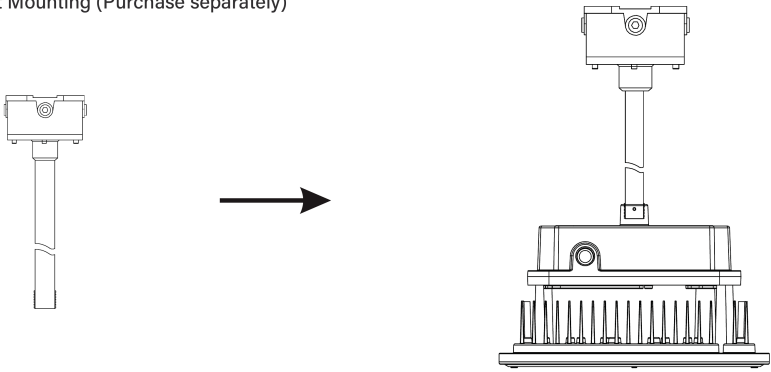


Confirm structure, fasteners, branch-circuit wiring, dimming conductors, entry fittings and required hazardous-location practices for the installation.

Mounting accessory overview

Pendant Mounting and Accessories

- Option 3: Pendant Mounting (Purchase separately)



Pendant mounting is purchased separately.



Documented Accessory Names

- EPC-Bended Pipe
- EPC-Hook
- EPC-Slip Fitter Kit
- EPC-25° Wall Mount Kit
- EPC-25° Stanchion Mount Kit
- EPC-90° PSupport
- EX-HD51-KYD 90°
- EX-HD51-KB1
- EPC-Straight Pipe
- EPC-Straight Chain
- EPC-90° Wall Mount Kit
- EPC-90° Stanchion Mount Kit
- EPC-MArm
- EPC-25° PSupport
- EX-HD51-KYD 25°

Confirm compatibility and availability for the selected housing and mounting method at quote.

Configuration structure

A2 and A4 Ordering Guide

EPC - xxW - A2/A4 - D - 50 - D40 - B - H65 - T - E

EPC / Series EPC for all luminaires	xxW / Input Wattage A2: 40 / 60 / 80 W selectable A4: 200 / 250 / 300 W selectable A4: 350 / 400 / 500 / 550 W non-selectable	A2 / A4 / Enclosure A2 = Lamp Enclosure A2 A4 = Lamp Enclosure A4
D / Dimming D = Dimmable	50 / CCT 50 = 4000 K / 5000 K / 6500 K selectable	D40 / Degree Published option: 120 = 120 degrees
B / Input Voltage H: 277-480 V M: 120-347 V Blank: 120-277 V	Driver Group T10 = FD-100T-054D A10 = VA-100V-054B G30 = ELGC-300-H-AB H32 = HVG-320-48AB H48 = HVG-480-48AB H65 = HVG-650-48AB VP500 = SS-500VP VP600 = SS-600VP	T / Tunable T = Tunable Blank = Non-tunable
-E / Backup Blank = No backup power -E = With backup		

Ordering support: this format is a configuration reference. Maes Lighting will confirm the current voltage, optic and driver suffixes in the complete catalog number.

Configuration structure

A and A3 Ordering Guide

EPC - xxW - A/A3 - D - 50 - D40 - H - T10 - T - E

EPC / Series EPC for all luminaires	xxW / Input Wattage A: 80 / 100 / 150 W selectable A3: 120 / 150 / 200 W selectable	A / A3 / Enclosure A = Lamp Enclosure A A3 = Lamp Enclosure A3
D / Dimming D = Dimmable	50 / CCT 50 = 4000 K / 5000 K / 6500 K selectable	D40 / Degree Published option: 120 = 120 degrees
H / Input Voltage H: 277-480 V M: 120-347 V Blank: 120-277 V	Driver Group V15 = SS-150VA-56BH V24 = SS-240VA-56BHL A15 = VA-150V-054B A24 = VA-240V-056B	T / Tunable T = Tunable Blank = Non-tunable
-E / Backup Blank = No backup power -E = With backup		

Ordering support: this format is a configuration reference. Maes Lighting will confirm the current driver, voltage and optic suffixes in the complete catalog number.

Quote Checklist

1	Housing and wattage	2	Input voltage and exact driver
3	Area classification and temperature class	4	CCT / power selection
5	Mounting and accessories	6	Dimming and emergency option

Use the current project submittal to confirm the complete catalog number, certification marking and ordered configuration before approval or purchase.