ZONED INDUSTRIES

MELEC

Version 5

C Series

(Zone 1 & 2 / 21 & 22)

Product information

The C Series LED luminaire is the ideal choice for marine and hazardous applications. They can be used in locations where moisture, dirt, dust, corrosion and vibration may be present, or areas where wind, water, snow or high ambient temperature can be expected.

5 YEAR WARRANTY

TECHNICAL INFORMATION

Data subject to change, please visit our website for up to date specifications: melec.com.au

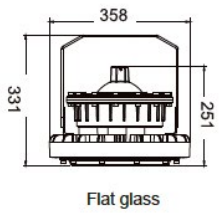
	EX-20W C2D**** **EX-40W C2**D**** **EX-60W C2**D**** **EX-80W C2**D****	**EX-100W C**D**** **EX-150W C**D****	**EX-200W C3**D**** **EX-250W C3**D**** **EX-280W C3**D****
Rated Power	**EX-20W C2**D**** 20W **EX-40W C2**D**** 40W **EX-60W C2**D**** 60W **EX-80W C2**D**** 80W	**EX-100W C**D**** 100W **EX-150W C**D**** 150W	**EX-200W C3**D**** 200W **EX-250W C3**D**** 250W **EX-280W C3**D**** 280W
Input Voltage	100-277VAC / 12-48VDC		
Input Frequency	50/60Hz		
Power Factor	>0.95		
Emergency Function	3 hours (External emergency pack is required)		
Lumen Output	**EX-20W C2**D**** 2800lm **EX-40W C2**D**** 5600lm **EX-60W C2**D**** 8400lm **EX-80W C2**D**** 11,200lm	**EX-100W C**D**** 14,000lm **EX-150W C**D**** 21,000lm	**EX-200W C3**D**** 28,000lm **EX-250W C3**D**** 35,000lm **EX-280W C3**D**** 39,200lm
Lumens Per Watt	140lm/W		
CCT	3000K-6500K		
CRI	>70		
Beam Angle	40°, 60°, 90°, 120°		
Dimming	0-10V dimming		
Ambient Operating Temperature**	-40°C to +60°C		
Housing material	Copper-free aluminium		
Lens	Tempered glass		
Hardware	Stainless steel		
Protection	IP66/IP67/IK08 (glass cover) / IK10 (with wire guard)		
Mounting	Ceiling, Wall, Hook pendant, Pole, Stanchion		
Cable Entries*	Side: 3/4 NPT, M20, M25, 1/2NPT Top: 3/4 NPT, M25		
Warranty	5 Years		

*Cable Entries: For two side cable entries, M20 is standard. For the top cable entry, 3/4'' NPT is standard. If others are required, customer needs to indicate when placing an order.

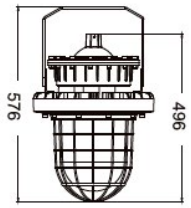
** This is the MAX ambient temperature - can be lower depending on the wattage and zone of the fitting. See IECEX certificate for detailed information.

PRODUCT DIMENSIONS

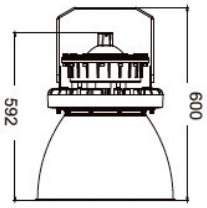
C2



Flat glass

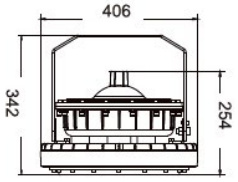


with drop lens and wire guard

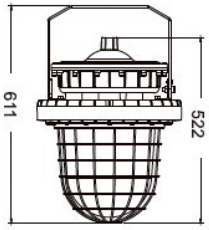


with lamp shade

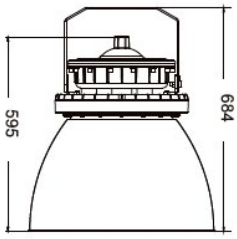
C



Flat glass

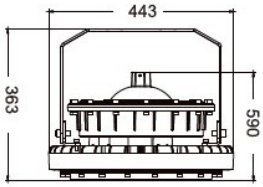


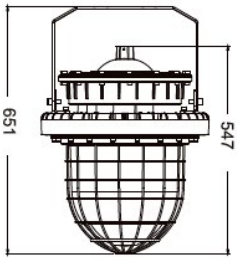
with drop lens and wire guard

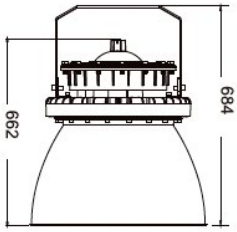


with lamp shade

C3





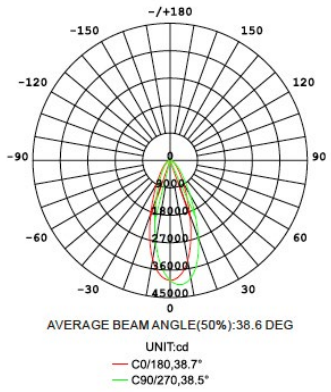


Model	Net Weight*	Gross Weight*	Quantity/Carton	Package Dimensions
C2	14.0kg	16.0kg	1 pc	L 420mm x W 470mm x H 340mm
C	17.4kg	19.0kg	1 pc	L 468mm x W 468mm x H 405mm
C3	21.0kg	25.0kg	1 pc	L 555mm x W 555mm x H 345mm

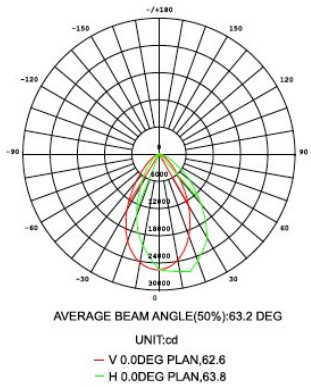
*Please note that net weight and gross weight may be subject to change because of actual configuration.

PHOTOMETRIC

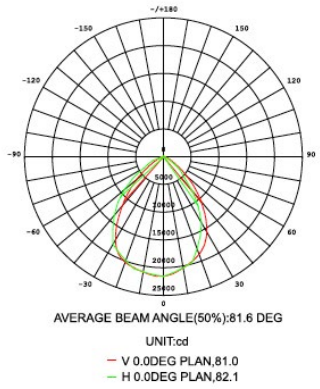
40 Degree



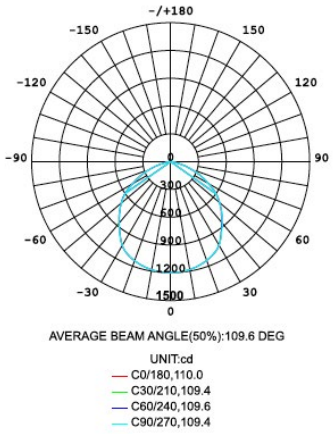
60 Degree



90 Degree



120 Degree



ORDERING GUIDE

EX - xxxW Cx X X Dx X
① ② ③ ④ ⑤ ⑥ ⑦

1	Model Series	EX - Explosion Proof Product
2	Wattage	**C2:** 20W | 40W | 60W | 80W) **C:** 100W | 150W **C3:** 200W | 250W | 280W
3	Product Code	C | C2 | C3
4	Dimming Option	D=Dimmable | N=Non Dimmable
5	Color Temperature	30 = 3000K | 40 = 4000K | 50 = 5000K | 60 = 6000K | 65 = 6500K
6	Beam Angle	D40 = 40° | D60 = 60° | D90 = 90°
7	Power Supply	**Blank:** Power supply (100-277VAC, 50/60Hz) **D:** DC power supply (optional, 12-48VDC)

For Example:

EX - 150W Cx D 60 D90
① ② ③ ④ ⑤ ⑥ ⑦

INSTALLATION GUIDE

READ INSTRUCTIONS CAREFULLY BEFORE INSTALLING. KEEP INSTRUCTIONS FOR FUTURE REFERENCE

Fixtures must be wired in accordance with the Australian wiring rule code and all applicable local codes.

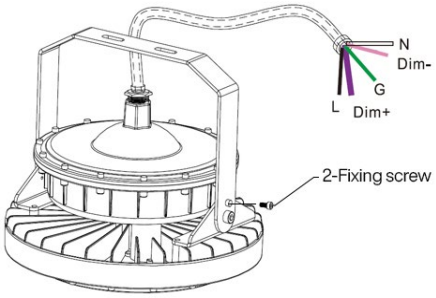
This product must be installed in accordance with the applicable installation code by a qualified electrician who is familiar with the construction and operation of the product and the hazards involved.

WARNING Risk of fire or electric shock. Floodlight installation requires knowledge of luminaires and electrical systems. If you are not qualified, DO NOT try to install. Please contact an electrician.
WARNING Risk of fire or electric shock. Suitable for wet locations. Make sure the power is isolated prior to install.
WARNING Risk of fire or electric shock. Suitable for non-insulated surface and frame. DO NOT cover fixture with insulation liner or similar material.
WARNING DO NOT install in unstable, loose or breakable surfaces.
WARNING DO NOT let objects impact or exert force on the surface of the fixture.

INSTALLATION - CEILING MOUNT

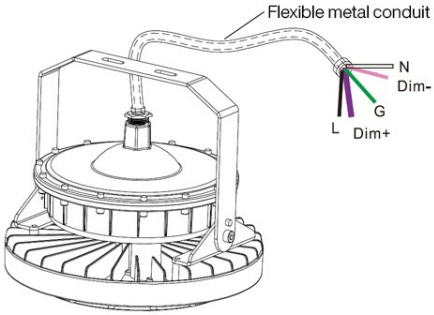
1

Take the fixture and accessory and tighten 2x angle holder screws



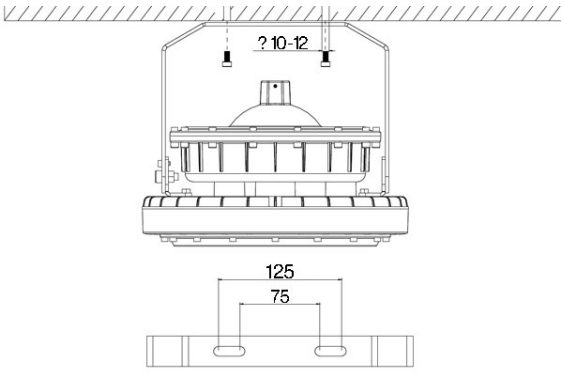
2

Flexible metal conduit installed with the fixture



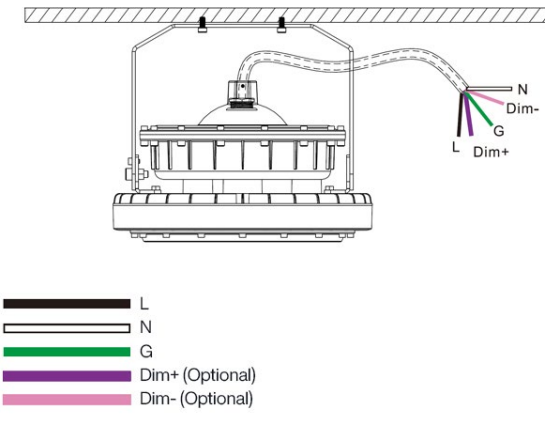
3

Drill 2x holes (as shown in figure 3) between 75-125mm. Fixing Ø10-12 expanded screws and bracket on ceiling



4

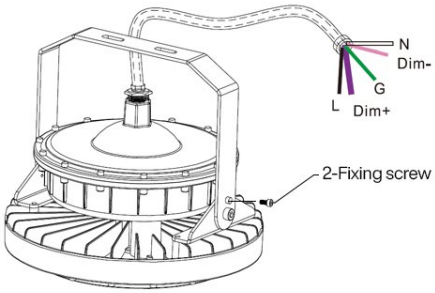
Connect the AC cable to power supply: **Black to L**, **White to N**, Green to G, Purple to Dim+, Pink to Dim-.



INSTALLATION - WALL MOUNTED

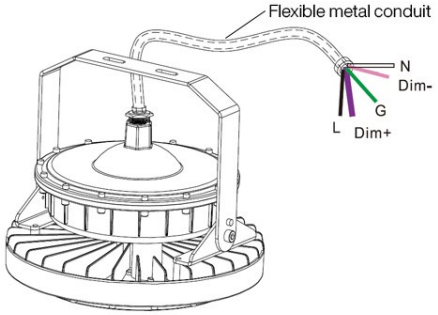
1

Take the fixture and accessory and tighten 2x angle holder screws



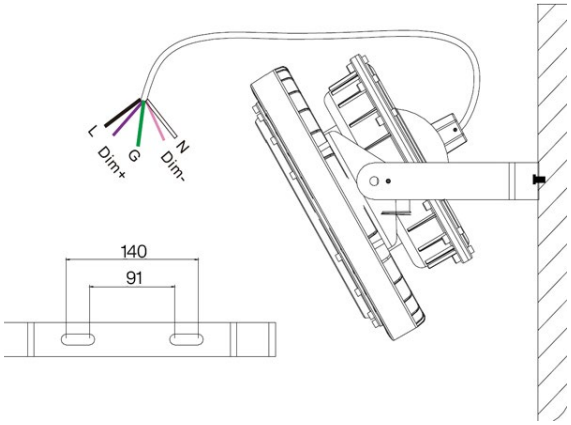
2

Flexible metal conduit installed with the fixture



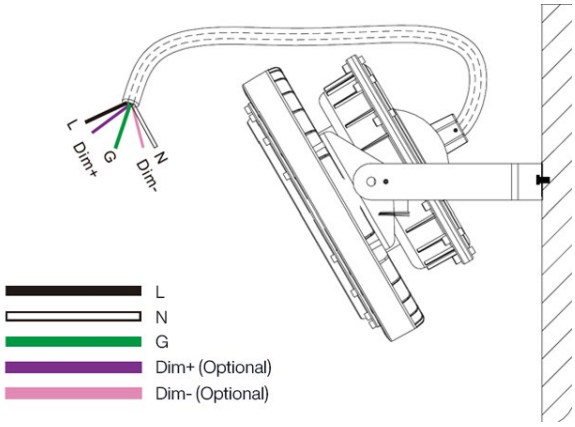
3

Drill 2x holes (as shown in figure 3) between 91-140mm. Fixing Ø10 expanded screws and bracket on ceiling



4

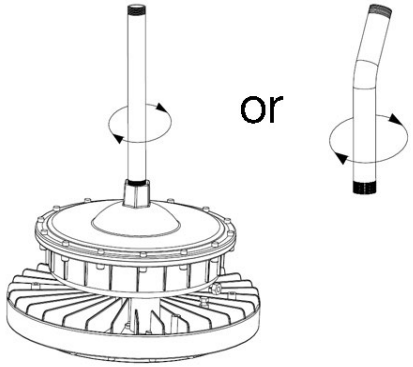
Connect the AC cable to power supply: **Black to L**, **White to N**, Green to G, Purple to Dim+, Pink to Dim-.



INSTALLATION - POLE MOUNTED

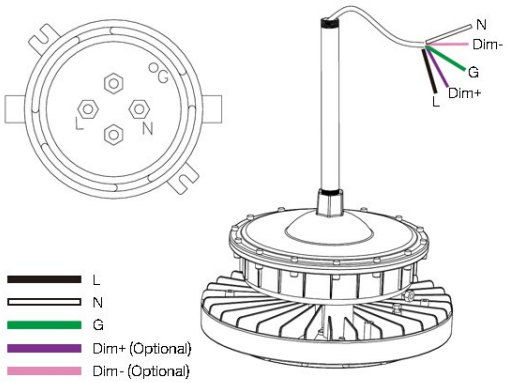
1

Take the fixture and accessory and tighten 2x angle holder screws



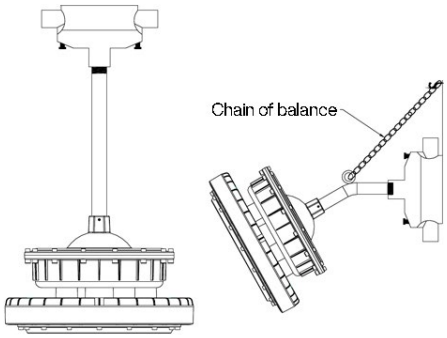
2

Connect the AC cable to power supply: **Black to L**, **White to N**, Green to G, Purple to Dim+, Pink to Dim-.



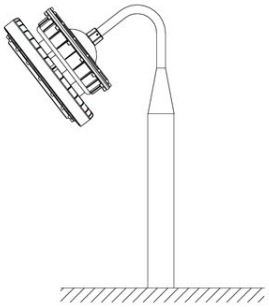
3

Install the installation box to the wall or ceiling as Fig 3. Tighten the pole to the box and adjust the chain of balance



4

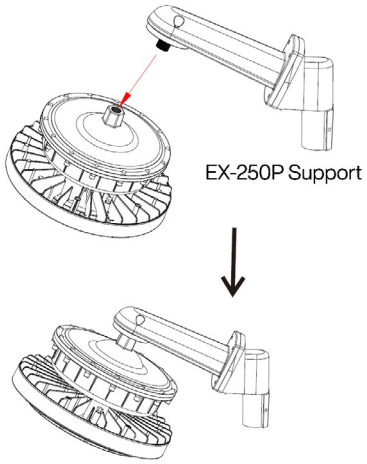
Optional: Install the fixture to the pole after connecting the cable



INSTALLATION - STANCHION MOUNT

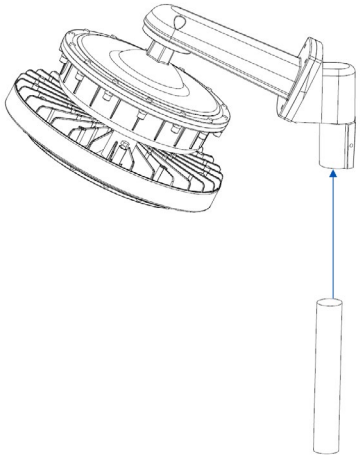
1

Install the conversion bracket into the outlet hold of the luminaire



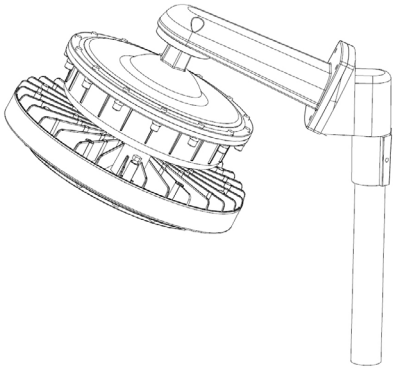
2

Turn of the power. Connect the lamp power cord with the power cord assigned to the pole



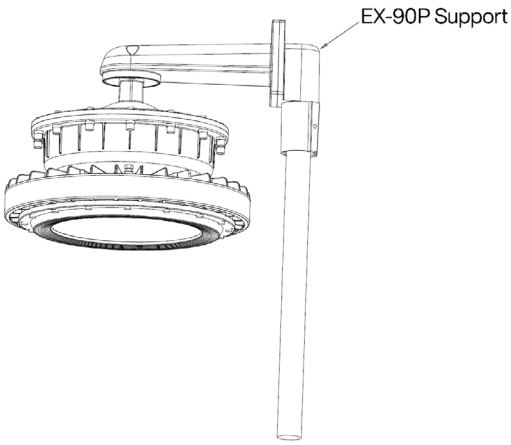
3

Install the assembled light fixture into the pole and tighten all screws



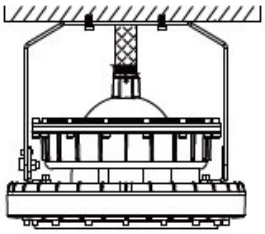
4

Optional: 90° stanchion mounting



ACCESSORIES

CEILING MOUNTING

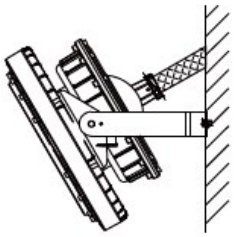


BRACKET

Metal Conduit 3/4NPT

EX-NG
600m
3/4 NPT

WALL MOUNTING



BRACKET

Metal Conduit 3/4NPT

EX-NG

HOOK PENDANT MOUNTING C2 ONLY

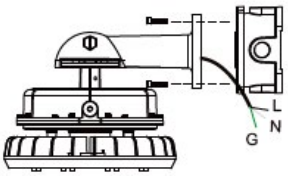
Hook

Ex-Hook
91 x 35 mm
3/4 x 14 NPT

Pendant Chain

Ex-Straight Chain
1 metre
40KG Load

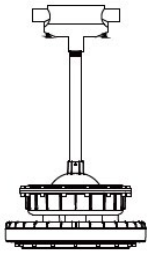
WALL MOUNTING WITH JUNCTION BOX C2 ONLY



Stanchion Arm
EX-HD51-KYD 90

Stanchion Arm
EX-HD51-KYD 25

POLE MOUNTING (VERTICAL) C2 ONLY



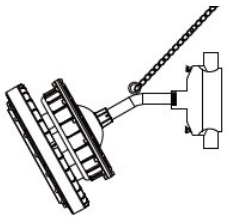
Junction Box

EX-HD51-KB1

Pole

Ex-Straight Pipe
25 x 308 mm
3/4 x 14 NPT

POLE MOUNTING (NON-VERTICAL) C2 ONLY



Junction Box

EX-HD51-KB1

Pole

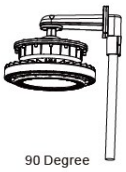
Ex-Bent Pipe

Pendant Chain

Ex-Straight Chain
1 metre
40KG Load

STANCHION MOUNTING C2 ONLY

25 Degree



90 Degree

EX-90P Support

EX-25PSupport