



EX-C SERIES

EXPLOSION-PROOF LIGHT

Class I Division 1 & 2, Class II Division 1 & 2, Zone 1 & 2, Zone 21 & 22

INTRODUCTION

The FGE-EX-C / C2 / C3 Series Explosion-Proof Lighting is designed to deliver safe, efficient, and long-lasting illumination in hazardous areas where flammable gases, vapors, or dust may exist — such as chemical plants, oil refineries, offshore platforms, and fuel depots.

Built with a compact, heavy-duty die-cast aluminum housing and high-strength tempered glass lens, this series offers excellent explosion protection, corrosion resistance, and impact durability. Certified for Class I Division 1 & 2, Class II Division 1 & 2, Zone 1 & 2, Zone 21 & 22 explosive atmospheres, it meets international Ex standards for industrial safety.

Equipped with high-efficacy LED chips and optimized optical design, it provides up to 140 lm/W of bright, uniform illumination while maintaining low energy consumption. The IP66 protection rating, superior thermal management, and anti-vibration construction ensure reliable performance in harsh environments.



C2

C

C3

COMPLIANCE

UL 844 Hazardous Locations
Class I Division 1, Group C, D
Class I Division 2, Group A, B, C, D
Class II Division 1, Group E, F, G
Class II Division 2, Group F, G
Class III
Class I, Zone 1, Group IIB
Class II, Zone 21, Group IIIC
UL 1598 Wet Locations
UL 1598A Marine Outside Type
UL 924 Emergency Lighting
CSA C22.2#137:2018 Ed.2
CSA C22.2#250.0:2021 Ed.5



LM-79

LM-80

TM-21

ISTMT

IEC

FEATURES



140lm/W

High Efficacy & Energy Saving: Up to 140 lm/W, reducing energy consumption by over 60% compared with HID fixtures.



0-10V
DIMMABLE

Smart Control Ready: Compatible with 0-10V/DALI dimming, optional microwave/infrared sensor, and emergency kit.



EMERGENCY
BACKUP

90 Minutes EM Back-up Options:
Ensuring safety and visibility during critical moments.(Only for C and C3.)



RELIABLE
WARRANTY

Reliable Warranty:
5 Years Warranty.

- Robust Protection:

IP66 waterproof & dustproof, IK08 impact resistance for harsh industrial environments.

- Superior Thermal Management:

Copper-free aluminum housing, great corrosion resistance and cooling performance.

- Versatile Mounting Options:

Ceiling, wall, hook, pole, and trunnion mounting for flexible installation.

- Wide Input Voltage:

AC100-277V / AC200-480V, suitable for global power grids.

APPLICATIONS



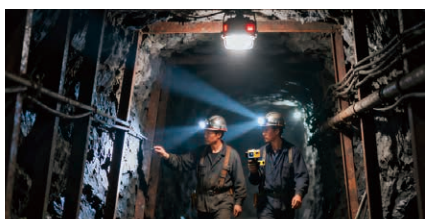
Paper Mills: Providing safe and stable illumination in dust-rich environments to reduce ignition risks and support continuous operation.



Loading Dock Platforms: Delivering durable explosion-proof lighting to withstand vibration and fuel vapors for safer loading and unloading operations.



Chemical Processing Facilities: Ensuring reliable lighting in areas with volatile chemicals to maintain safety and compliance under hazardous conditions.



Coal Mine: Offering explosion-proof illumination for methane- and dust-prone mining zones to protect workers during underground operations.



Power Plants: Providing robust lighting around high-risk equipment to support safe inspection and maintenance in demanding conditions.



Heavy Industrial Facilities: Delivering long-lasting explosion-proof lighting for harsh industrial sites exposed to dust, oil mist, and mechanical impact.

TECHNICAL PARAMETERS

C2 series

Product Model	EX-20W(C2YZDA)	EX-40W(C2YZDA)	EX-60W(C2YZDA)	EX-80W(C2YZDA)
Electrical Performance				
Wattage	20W	40W	60W	80W
Input Voltage	AC100-277V/200-480V	AC100-277V/200-480V	AC100-277V/200-480V	AC100-277V/200-480V
Frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz
Power Factor (PF)	>0.95	>0.95	>0.95	>0.95
Surge Protection	10KV	10KV	10KV	10KV
THD	<20%	<20%	<20%	<20%
Optical Performance				
Luminous Efficacy	140lm/W	140lm/W	140lm/W	140lm/W
Luminous Flux	2800lm	5600lm	8400lm	11200lm
CCT	2700K-7000K	2700K-7000K	2700K-7000K	2700K-7000K
CRI	Ra>70	Ra>70	Ra>70	Ra>70
Beam Angle	40°/60°/90°/120°	40°/60°/90°/120°	40°/60°/90°/120°	40°/60°/90°/120°
Unified Glare Rating (UGR)	20	20	20	20
Reliability				
Lifetime	>150,000h, L70 @55°C	>150,000h, L70 @55°C	>150,000h, L70 @55°C	>150,000h, L70 @55°C
Operating Temperature	-40 ~ +60°C	-40 ~ +60°C	-40 ~ +60°C	-40 ~ +60°C
Storage Temperature	-40 ~ +70°C	-40 ~ +70°C	-40 ~ +70°C	-40 ~ +70°C
Ingress Protection	IP66	IP66	IP66	IP66
Impact Resistance	IK08	IK08	IK08	IK08
Control				
Dimming	0-10V Dimming	0-10V Dimming	0-10V Dimming	0-10V Dimming
Sensor	No	No	No	No
Communication Protocol	-	-	-	-
Emergency Kit	No	No	No	No
Mechanical				
Housing Material	Copper-free Aluminum	Copper-free Aluminum	Copper-free Aluminum	Copper-free Aluminum
Lens Material	Tempered Glass	Tempered Glass	Tempered Glass	Tempered Glass
Coating	Grey/RAL7040	Grey/RAL7040	Grey/RAL7040	Grey/RAL7040
Net Weight	8.1kg	10kg	12kg	14kg
Dimensions	Φ358x331mm	Φ358x331mm	Φ358x331mm	Φ358x331mm
Warranty	5 Years	5 Years	5 Years	5 Years

C series

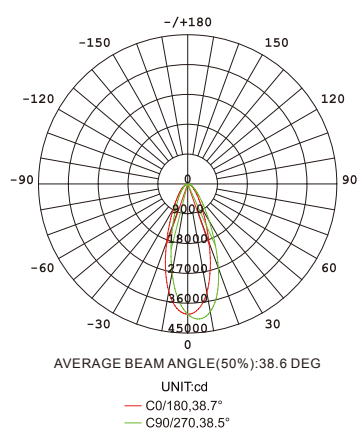
Product Model	EX-100W(CYZDA)	EX-150W(CYZDA)
Electrical Performance		
Wattage	100W	150W
Input Voltage	AC100-277V/200-480V	AC100-277V/200-480V
Frequency	50/60Hz	50/60Hz
Power Factor (PF)	>0.95	>0.95
Surge Protection	10KV	10KV
THD	<20%	<20%
Optical Performance		
Luminous Efficacy	140lm/W	140lm/W
Luminous Flux	14000lm	21000lm
CCT	2700K-7000K	2700K-7000K
CRI	Ra>70	Ra>70
Beam Angle	40°/60°/90°/120°	40°/60°/90°/120°
Unified Glare Rating (UGR)	20	20
Reliability		
Lifetime	>150,000h, L70 @55°C	>150,000h, L70 @55°C
Operating Temperature	-40 ~ +60°C	-40 ~ +60°C
Storage Temperature	-40 ~ +70°C	-40 ~ +70°C
Ingress Protection	IP66	IP66
Impact Resistance	IK08	IK08
Control		
Dimming	0-10V Dimming	0-10V Dimming
Sensor	No	No
Communication Protocol	-	-
Emergency Kit	No	No
Mechanical		
Housing Material	Copper-free Aluminum	Copper-free Aluminum
Lens Material	Tempered Glass	Tempered Glass
Coating	Grey/RAL7040	Grey/RAL7040
Net Weight	15.5kg	17kg
Dimensions	Φ406x342mm	Φ406x342mm
Warranty	5 Years	5 Years

C3 series

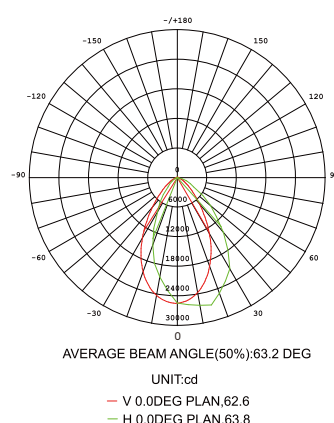
Product Model	EX-200W(C3YZDA)	EX-250W(C3YZDA)	EX-280W(C3YZDA)
Electrical Performance			
Wattage	200W	250W	280W
Input Voltage	AC100-277V/200-480V	AC100-277V/200-480V	AC100-277V/200-480V
Frequency	50/60Hz	50/60Hz	50/60Hz
Power Factor (PF)	>0.95	>0.95	>0.95
Surge Protection	10KV	10KV	10KV
THD	<20%	<20%	<20%
Optical Performance			
Luminous Efficacy	140lm/W	140lm/W	140lm/W
Luminous Flux	28000lm	35000lm	39200lm
CCT	2700K-7000K	2700K-7000K	2700K-7000K
CRI	Ra>70	Ra>70	Ra>70
Beam Angle	40°/60°/90°/120°	40°/60°/90°/120°	40°/60°/90°/120°
Unified Glare Rating (UGR)	20	20	20

Reliability			
Lifetime	>150,000h, L70 @55°C	>150,000h, L70 @55°C	>150,000h, L70 @55°C
Operating Temperature	-40 ~ +60°C	-40 ~ +60°C	-40 ~ +60°C
Storage Temperature	-40 ~ +70°C	-40 ~ +70°C	-40 ~ +70°C
Ingress Protection	IP66	IP66	IP66
Impact Resistance	IK08	IK08	IK08
Control			
Dimming	0-10V Dimming	0-10V Dimming	0-10V Dimming
Sensor	No	No	No
Communication Protocol	-	-	-
Emergency Kit	No	No	No
Mechanical			
Housing Material	Copper-free Aluminum	Copper-free Aluminum	Copper-free Aluminum
Lens Material	Tempered Glass	Tempered Glass	Tempered Glass
Coating	Grey/RAL7040	Grey/RAL7040	Grey/RAL7040
Net Weight	20kg	21kg	21kg
Dimensions	Φ443x590mm	Φ443x590mm	Φ443x590mm
Warranty	5 Years	5 Years	5 Years

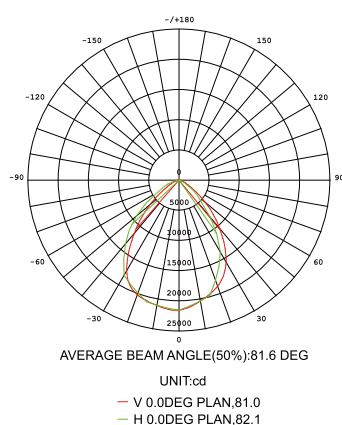
PHOTOMETRICS



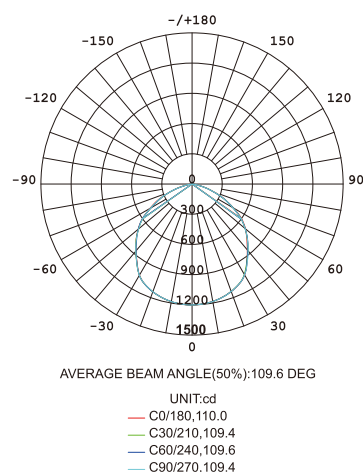
40°



60°



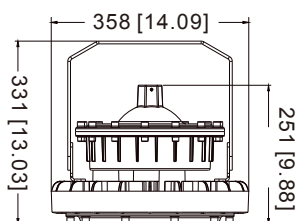
90°



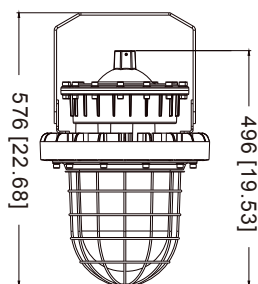
120°

MECHANICAL DIMENSIONS

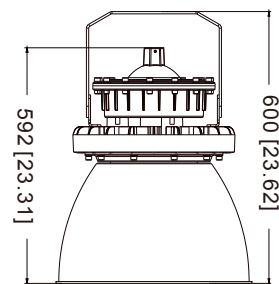
C2



Flat glass

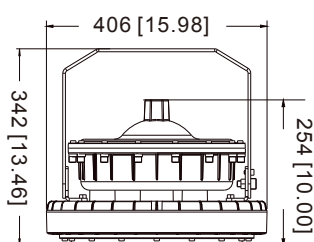


with drop lens and wire guard

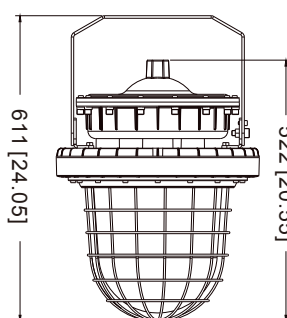


with lamp shade

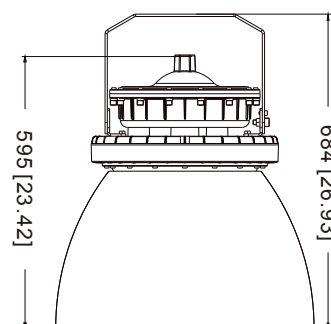
C



Flat glass

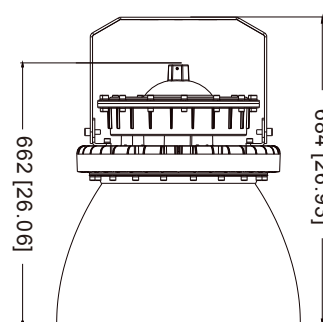
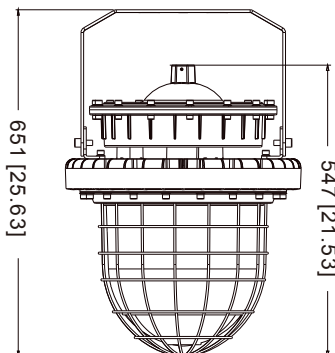
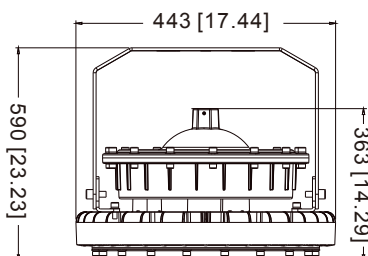


with drop lens and wire guard



with lamp shade

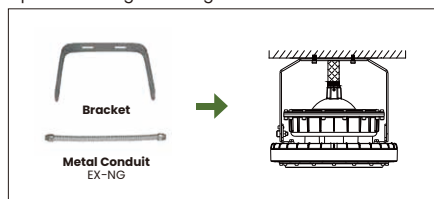
C3



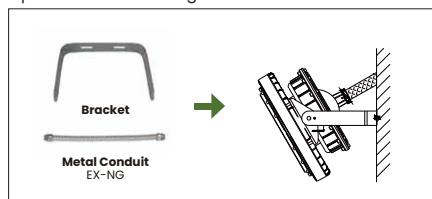
Product Model	C2	C	C3
Wattage Selectable	20W/40W/60W/80W	100W/150W	200W/250W/280W
Outer box (L*W*H)	470x470x345mm(18.50"x18.50"x13.58")	551x520x360mm(21.65"x20.47"x14.17")	555x555x345mm(21.85"x21.85"x13.58")
Qty/Ctn	1pc	1pc	1pc
N.W./Ctn	14.00kg/30.86lbs	17.40kg/38.36lbs	21.00kg/46.30lbs
G.W./Ctn	16.00kg/35.27lbs	19.00kg/41.89lbs	25.00kg/55.12lbs
Remarks	0.7M cable	0.7M cable	0.7M cable

MOUNTING METHODS AND ACCESSORIES

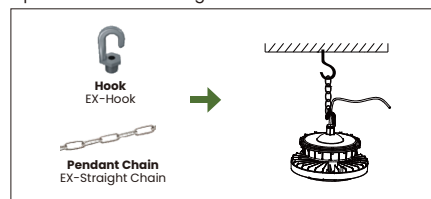
Option 1: Ceiling Mounting



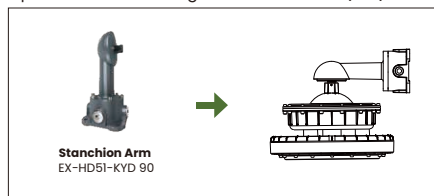
Option 2: Wall Mounting



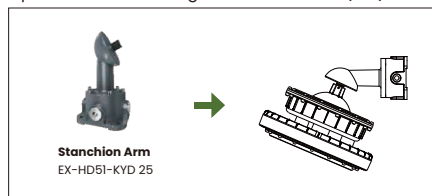
Option 3: Hook Mounting



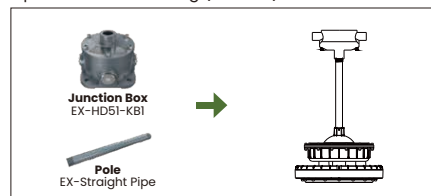
Option 4: Wall Mounting with Junction Box (90°)



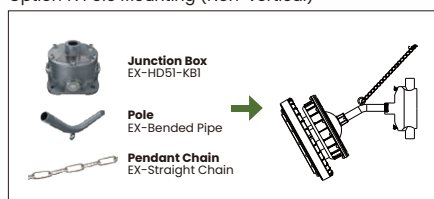
Option 5: Wall Mounting with Junction Box (25°)



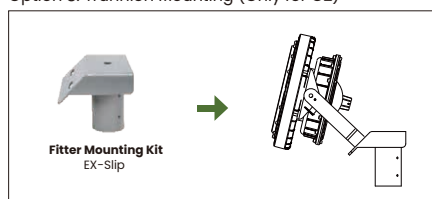
Option 6: Pole Mounting (Vertical)



Option 7: Pole Mounting (Non-vertical)



Option 8: Trunnion Mounting (Only for C2)



ORDER INFORMATION

EX-YY-YY-YY-Y

1 2 3 4 5 6 7 8

1 EX = Explosion Proof Light

2 Wattage

20W	20W
40W	40W
60W	60W
80W	80W
100W	100W
150W	150W
200W	200W
250W	250W
280W	280W

3 Shell Shape Series

C	C
C2	C2
C3	C3

4 Color Temperature

27	2700K
30	3000K
40	4000K
50	5000K
57	5700K
65	6500K

5 Dimmable

D	0-10V Dimming
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6 Optics

40	40°
60	60°
90	90°
120	120°

7 Long Glass Cover Option

(Blank)	No Long Glass Cover
C	Long Glass Cover

8 Options

(Blank)	0.7M cord
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WARRANTY PERIOD
**5 YEARS
WARRANTY**



WARRANTY COVERAGE
**LED LIGHT SOURCE,
DRIVER**



AFTER-SALES
SERVICE COMMITMENT
24H RESPONSE



AFTER-SALES
SERVICE COMMITMENT
72H RESOLUTION/REPLACEMENT