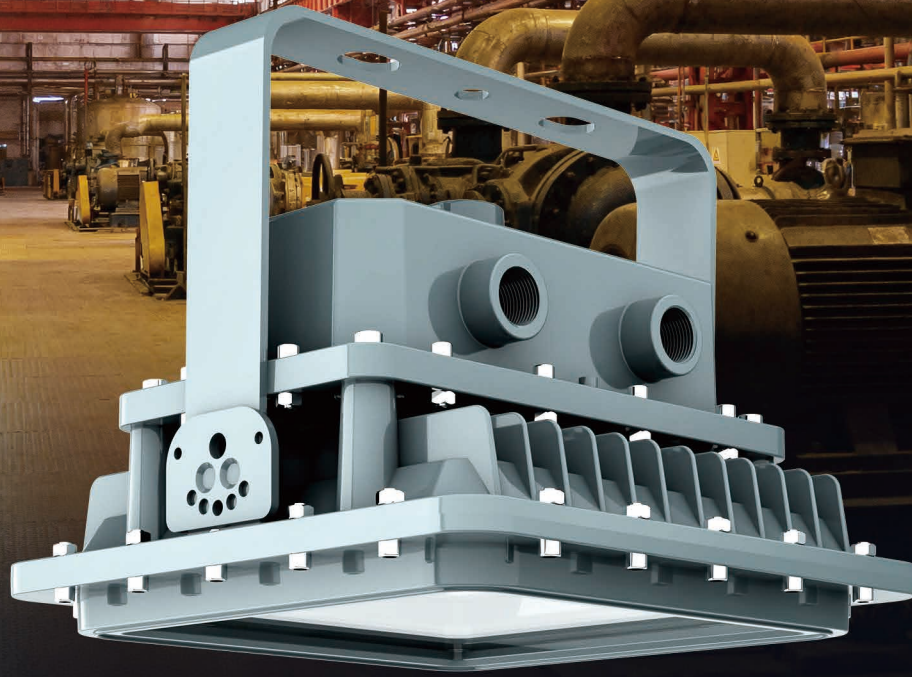




EX-D SERIES

EXPLOSION-PROOF LIGHT

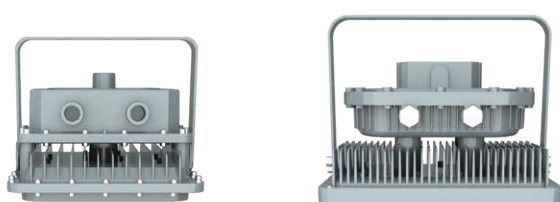
Class I Division 1 & 2, Class II Division 1 & 2, Zone 1 & 2, Zone 21 & 22

INTRODUCTION

The FGE-EX-D / D2 Series Explosion-Proof Lighting is designed for hazardous industrial environments requiring both safety and efficiency. Featuring a compact yet durable die-cast aluminum housing and tempered glass lens, it provides superior protection against explosions, corrosion, and impact.

Certified for Class I Division 1 & 2, Class II Division 1 & 2, Zone 1 & 2, Zone 21 & 22 hazardous areas, the D Series ensures reliable operation in oil refineries, chemical plants, and gas stations. With high-lumen output up to 140 lm/W, it delivers bright, uniform illumination while minimizing power consumption.

Equipped with multiple mounting options and IP66 protection, the D/D2 Series offers a versatile and long-lasting lighting solution for demanding industrial applications.



D2

D

COMPLIANCE

Class I, Division 1, Groups C, D
 Class I, Division 2, Groups A, B, C, D
 Class II, Division 1, Groups E, F, G
 Class II, Division 2, Groups F, G
 Class III
 UL 1598, UL1598A



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.



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, and pole mounting for flexible installation.

- Wide Input Voltage:

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

APPLICATIONS



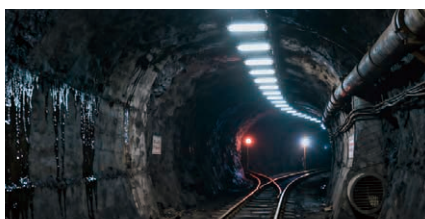
Paper Mills: Providing safe and stable illumination in dust-rich environments to reduce ignition risks and support continuous operation.



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

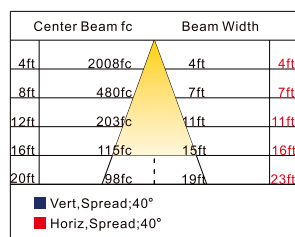
D2 series

Product Model	EX-20W(D2YZDA)	EX-40W(D2YZDA)	EX-60W(D2YZDA)	EX-80W(D2YZDA)
Electrical Performance				
Wattage	20W	40W	60W	80W
Input Voltage	AC100-277V/200-480V or DC12-48V	AC100-277V/200-480V or DC12-48V	AC100-277V/200-480V or DC12-48V	AC100-277V/200-480V or DC12-48V
Frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz
Power Factor (PF)	>0.9	>0.9	>0.9	>0.9
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	2200K-7000K	2200K-7000K	2200K-7000K	2200K-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)	-	-	-	-
Reliability				
Lifetime	>100,000h	>100,000h	>100,000h	>100,000h
Operating Temperature	-40 ~ +55°C	-40 ~ +55°C	-40 ~ +55°C	-40 ~ +55°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	5kg	5.5kg	6kg	7kg
Dimensions	294.6x294.6x243mm	294.6x294.6x243mm	294.6x294.6x243mm	294.6x294.6x243mm
Warranty				
Warranty	5 Years	5 Years	5 Years	5 Years

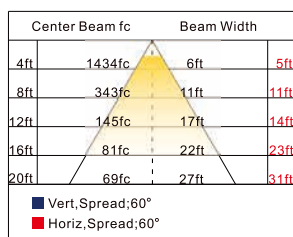
D series

Product Model	EX-100W(DYZDA)	EX-150W(DYZDA)	EX-200W(DYZDA)	EX-220W(DYZDA)
Electrical Performance				
Wattage	100W	150W	200W	220W
Input Voltage	AC100-277V/200-480V or DC12-48V	AC100-277V/200-480V or DC12-48V	AC100-277V/200-480V or DC12-48V	AC100-277V/200-480V or DC12-48V
Frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz
Power Factor (PF)	>0.9	>0.9	>0.9	>0.9
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	14000lm	21000lm	28000lm	30800lm
CCT	2200K-7000K	2200K-7000K	2200K-7000K	2200K-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)	-	-	-	-
Reliability				
Lifetime	>100,000h	>100,000h	>100,000h	>100,000h
Operating Temperature	-40 ~ +55°C	-40 ~ +55°C	-40 ~ +55°C	-40 ~ +55°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	15kg	16kg	17kg	17.9kg
Dimensions	398.8x284.5x253mm	398.8x284.5x253mm	398.8x284.5x253mm	398.8x284.5x253mm
Warranty				
Warranty	5 Years	5 Years	5 Years	5 Years

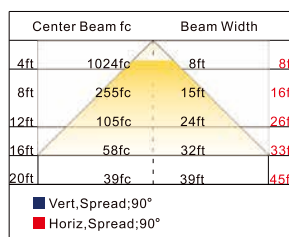
PHOTOMETRICS



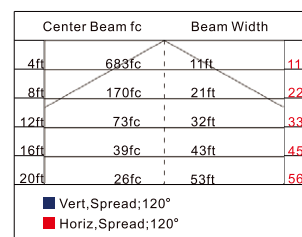
40°



60°



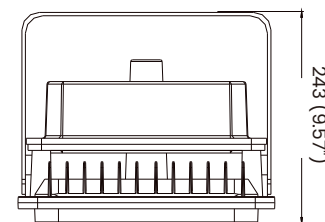
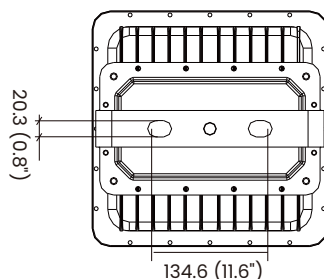
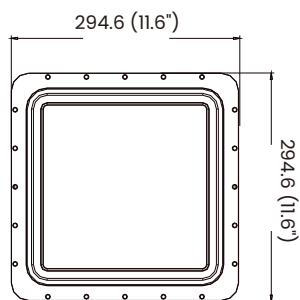
90°



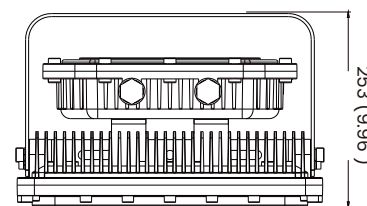
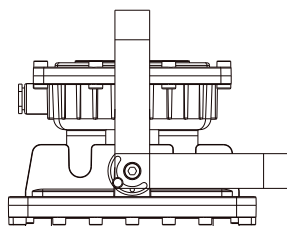
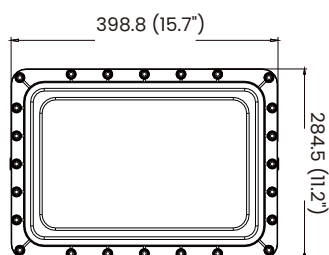
120°

MECHANICAL DIMENSIONS

D2



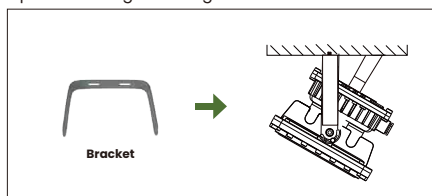
D



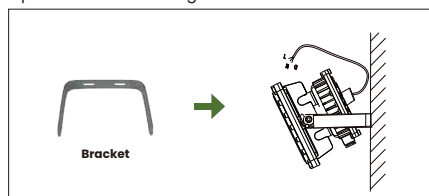
Product Model	D2	D
Wattage	20W/40W/60W/80W	100W/150W/200W/220W
Outer box (L*W*H)	399x385x335mm(15.75"x15.16"x13.19")	501x375x350mm(19.76"x14.80"x13.78")
Q'ty/Ctn	1pc	1pc
N.W./Ctn	7kg/15.43lbs	17.9kg/39.46lbs
G.W./Ctn	9.5kg/20.94lbs	19.5kg/42.99lbs
Remarks	0.7M cable	0.7M cable

MOUNTING METHODS AND ACCESSORIES

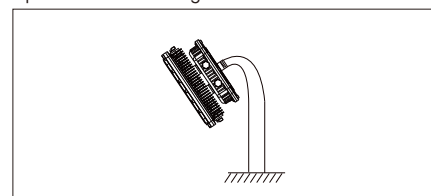
Option 1: Ceiling Mounting



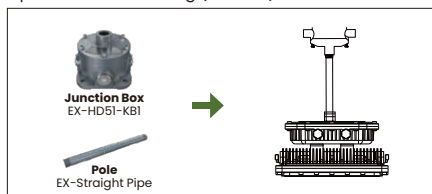
Option 2: Wall Mounting



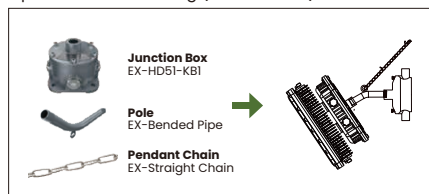
Option 3: Pole Mounting



Option 4: Pole Mounting (Vertical)



Option 5: Pole Mounting (Non-vertical)



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
220W	220W

3 Shell Shape Series

D	D
D2	D2

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 Glass Type

(Blank)	Flat Glass
C	Spherical Glass

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