ROUND X2 SERIES

DC VERSION

LED LIGHTING FOR HARSH AND HAZARDOUS AREAS

AREA & LOWBAY



Reliable. Durable. Efficient.

4,000 to 10,000 lumen models

RED SKY

SERIOUSLY SAFE LIGHTS™

ABOUT RED SKY LIGHTING

PIONEERING INDUSTRIAL ILLUMINATION FOR HARSH & HAZARDOUS CONDITIONS



- A leading manufacturer of premium LED lights for demanding work conditions
- Headquartered in California, products assembled in the USA
- Servicing global clients across 4 continents in metal processing, oil & gas, marine, manufacturing
- Renowned for quality, dependability, client care and uncompromising safety standards

WHY CHOOSE RED SKY

SERIOUSLY SAFE LIGHTS

- Rigorously tested in our professional labs
- Surpassing industry certifications and safety protocols
- Crafted with highest grade components for maximum durability

FAST DELIVERY

- Majority of orders delivered within 14 days
- Same day shipping for products in stock
- Real-time order tracking for full transparency

TOP-NOTCH SERVICES

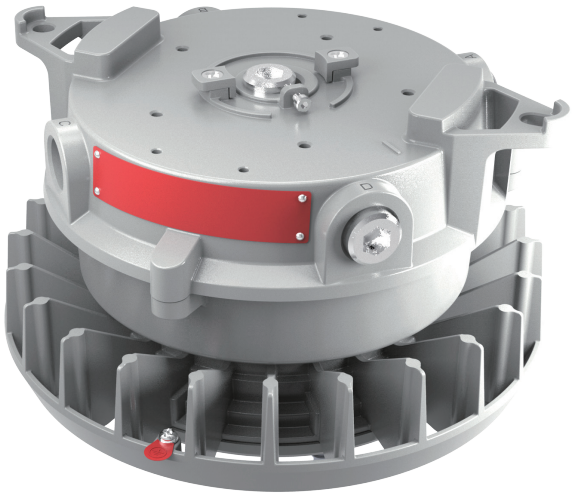
- Team of experts for seamless support
- Energy audit services, lighting simulation services
- Hassle-free return policy and management

SUSTAINABLE SOLUTIONS

- High luminous efficacy LEDs for energy savings
- Conscious product design
- Recyclable materials for products and packaging



FEATURES



Safe and reliable performance

Safe and reliable heat transfer-Offering a T-rating of T6 (Zone 2) / T85°C (Zone 21), LED Life L70>150,000hrs of maintenance-free operation

3 Choices of Light Distributions

60°/ 110° / 180° available for different applications from spot to flood for optimal light distribution

RATINGS

Zone 2,21
IP66
IK08

CERTIFICATIONS

IECEx
Ex ec nC nR IIC T4 Gc;Ex tb IIIC T110°C Db (65W)
Ex ec nC nR IIC T6 Gc ;Ex tb IIIC T85°C Db (25W/45W)
-40°C≤Tamb≤+55°C

TECHNICAL PARAMETERS

Specification	RND-25-24	RND-45-24	RND-65-24
Electrical Parameters			
Power	25W	45W	65W
Voltage/Frequency	24V DC		
L70	150,000 Hours@55℃		
Dimming	0-10V		
Warranty	LEDs: 10 years, Driver: 5 years		
Optical Parameters			
Lumen Output*	4,096Lm	7,067Lm	10,209Lm
Lumen Efficacy*	150Lm/W		
Available Beam Angle	60°/ 110° /180°		
Correlated Color Temperature (CCT)	4000K/5700K		
Color Rendering Index (CRI)	Ra>70		
Mechanical Parameters			
Finish	Thermoset Powdercoat		
Hardware	Stainless steel 316		
Lens Material	Tempered Glass		
Mounting Options	Pendant, Yoke, Wall, Stanchion, Pole		
Product Weight	9.7lbs / 4.4kg		
Cable Entry	(5) 3/4" NPT		
Product Dimensions(L×W×H)	10.6×10.3×6in (269.4×262×151.7mm)		
Environmental Parameters			
Ambient Operating Temperature	-40°C ~ +55 °C		
T-Code Rating	Gas – T6； Dust – 85℃		Gas – T4； Dust – 110℃

* Value calculated based on 5700K and Clear glass ,varies to differrent spec.

ORDERING INFORMATION

EXAMPLE: RND-45-24-57-110-X2-CG-GRY-PDCG

RND – 45 – 24 – 57 – 110 – X2 – CG – GRY – PDCG

PRODUCT SERIES

WATTAGE
25 - 25W
45 - 45W
65 - 65W

VOLTAGE
24 - 24V DC

CCT
4K - 4000K
57 - 5700K

BEAM
60 - 60°*
110 - 110°
180 - 180°*

MOUNTING
PDCG - Pendant & Ceiling**
YKE - Yoke***

COLOR
GRY - Grey

LENS
CG - Clear Glass
DG - Diffuse Glass
DLG- Diffuse Drop Lens Glass

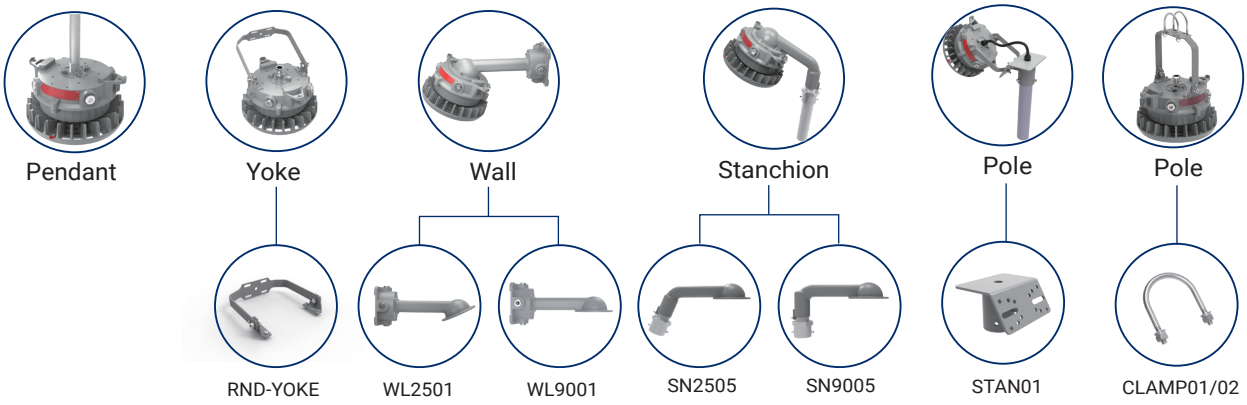
RATING
X2 - Zone 2, 21

* 60° only with Clear Glass, 180° only with Diffuse Drop Lens Glass

** No accessory required for Pendant & Ceiling Mount

*** RND-YOKE Pre-installed as standard

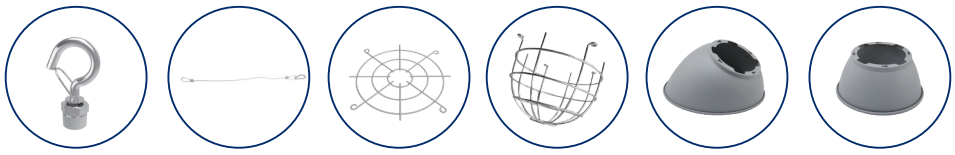
MOUNTING ACCESSORIES



Mounting Method	PN	Description	MPN Code
Yoke	RND-YOKE	YOKE Mount, RND SERIES, SS304, Power Coated Grey RAL7037	309050029
Stanchion	SN2505	Stanchion Mount 25 Degree, Power Coated Grey RAL7037	309050314
	SN9005	Stanchion Mount 90 Degree, Power Coated Grey RAL7037	309050315
Wall	WL2502	WALL MOUNT 25 DEGREE, Power Coated Grey RAL7037	309050317
	WL9002	WALL MOUNT 90 DEGREE, Power Coated Grey RAL7037	309050316
Pole	STAN01*	Slip-Fit Stanchion Mount Kit, M25, SS304, Power Coated Grey RAL7037	309050300
	CLAMP01	Pipe Clamp Kit for Round pole Φ 1 7/8(48mm), SS304	309050047
	CLAMP02	Pipe Clamp Kit for Round pole Φ 2 3/8(60mm), SS304	309050046

* Requires A Yoke Mount

OTHER ACCESSORIES



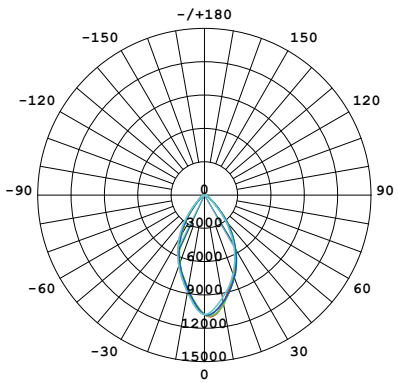
PN	Description	MPN Code
HOOK02	M10 Hook with ¾" NPT(SUS316)	309050331
SFCB02	Safety Cable Kit, RND &BLM&LNT&LNT EM SERIES, SS304	309050058
RND-WG	Wire guard, RND SERIES, SS304	310010109
RND-WGG	Wire guard for Globe lens, RND SERIES, SS304	309050143
RND-VISO25	VISOR 25°, RND SERIES, Aluminium alloy, Power Coated Grey RAL7037	101050008
RND-VISO90	VISOR 90°, RND SERIES, Aluminium alloy, Power Coated Grey RAL7037	101050009

LUMEN TABLE

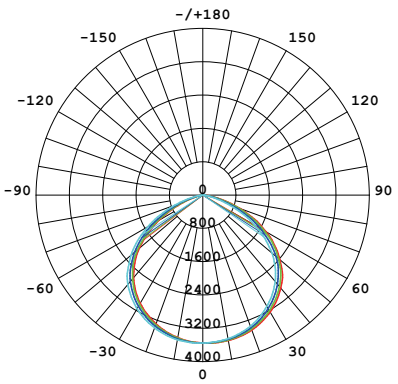
PN	Wattage (W)	CCT	Beam	Lens	Lumen Output (Lm)	Efficiency (Lm/W)
Voltage 24V DC						
RND-25-24-57-60-X2-CG-GRY-YKE	25	5700K	60°	Clear Glass	4212	175
RND-25-24-57-110-X2-CG-GRY-YKE	25	5700K	110°	Clear Glass	4096	158
RND-25-24-57-180-X2-DLG-GRY-YKE	25	5700K	180°	Drop Lens Glass	3307	128
RND-45-24-57-60-X2-CG-GRY-YKE	45	5700K	60°	Clear Glass	7613	165
RND-45-24-57-110-X2-CG-GRY-YKE	45	5700K	110°	Clear Glass	7067	159
RND-45-24-57-180-X2-DLG-GRY-YKE	45	5700K	180°	Drop Lens Glass	5907	125
RND-65-24-57-60-X2-CG-GRY-YKE	65	5700K	60°	Clear Glass	10762	165
RND-65-24-57-110-X2-CG-GRY-YKE	65	5700K	110°	Clear Glass	10209	149
RND-65-24-57-180-X2-DLG-GRY-YKE	65	5700K	180°	Drop Lens Glass	8230	120

For additional information, please contact your sales representative.

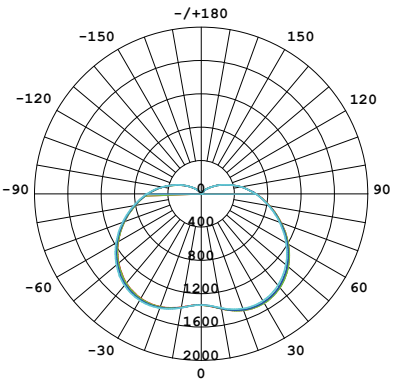
PHOTOMETRIC



60°



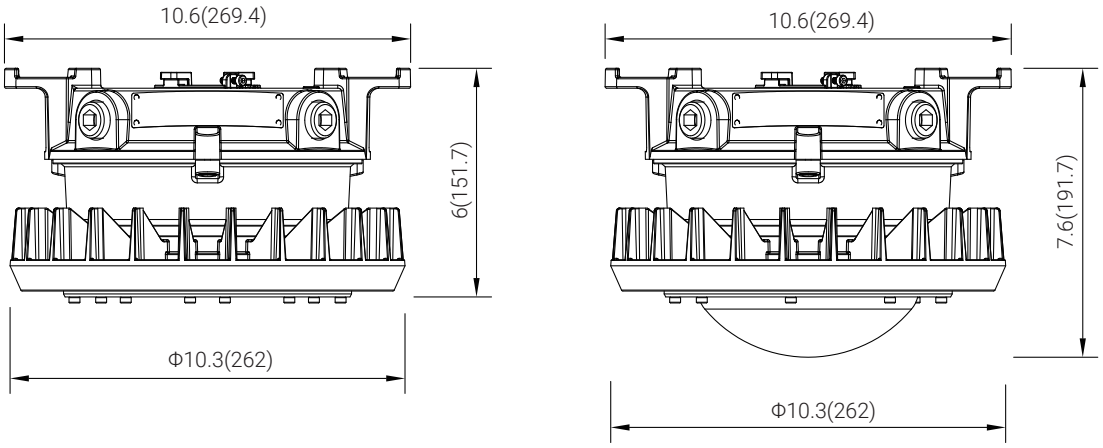
110°



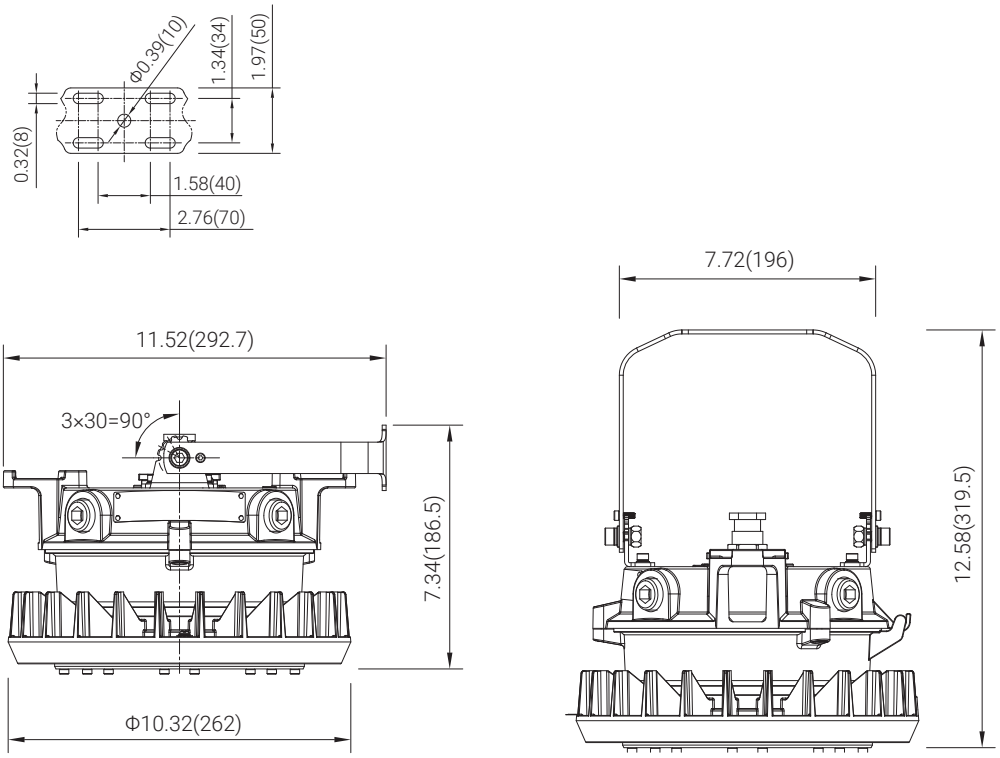
180°

DIMENSIONS

unit: in(mm)



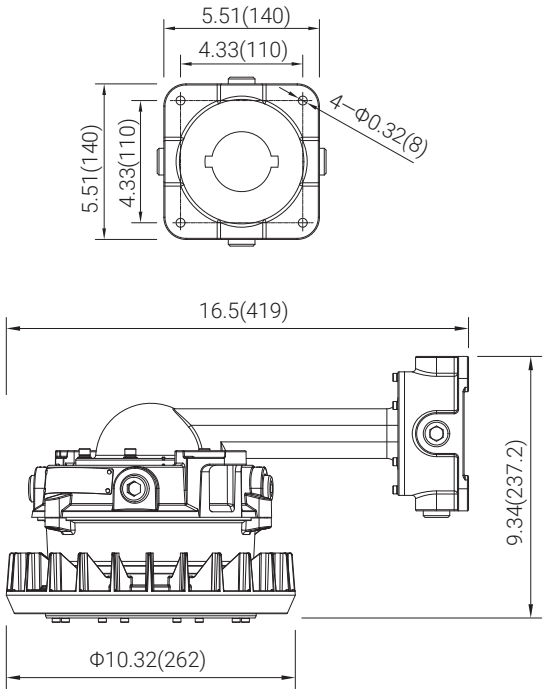
Pendant



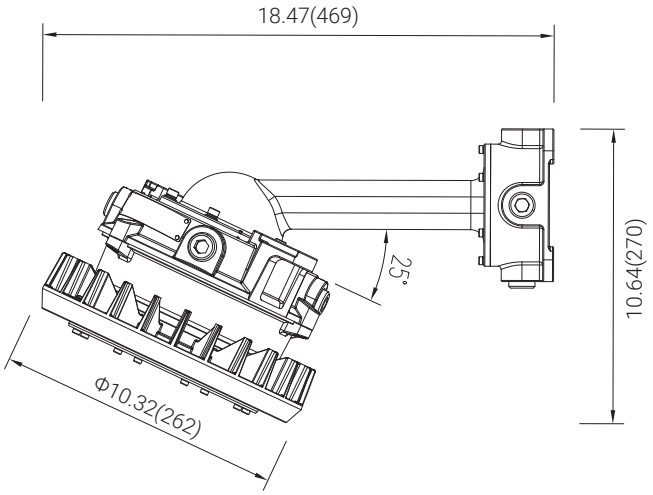
Yoke

DIMENSIONS

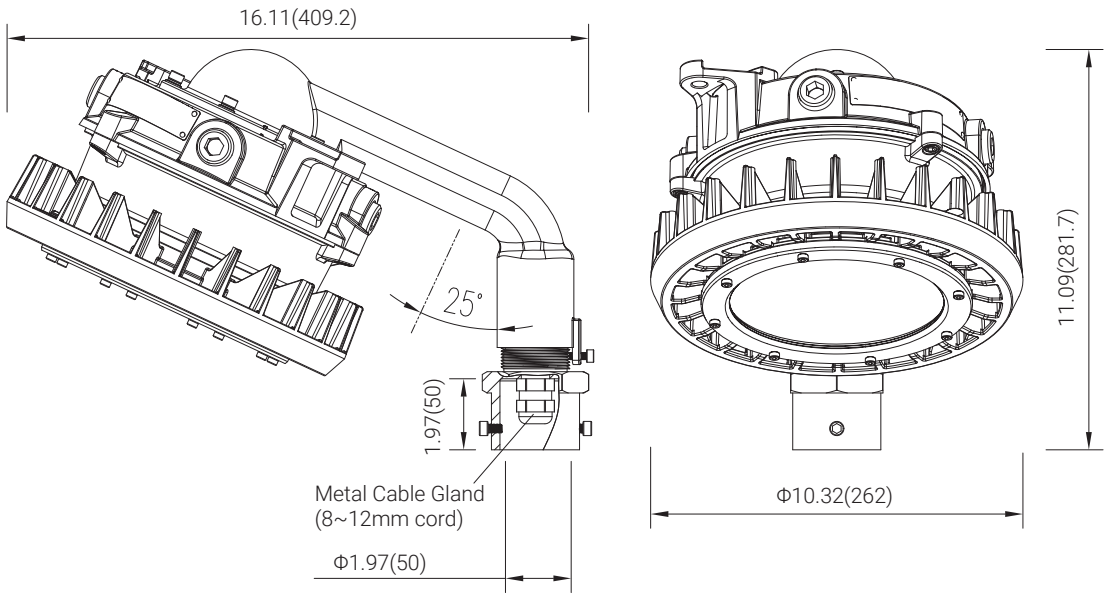
unit: in(mm)



Wall 90°



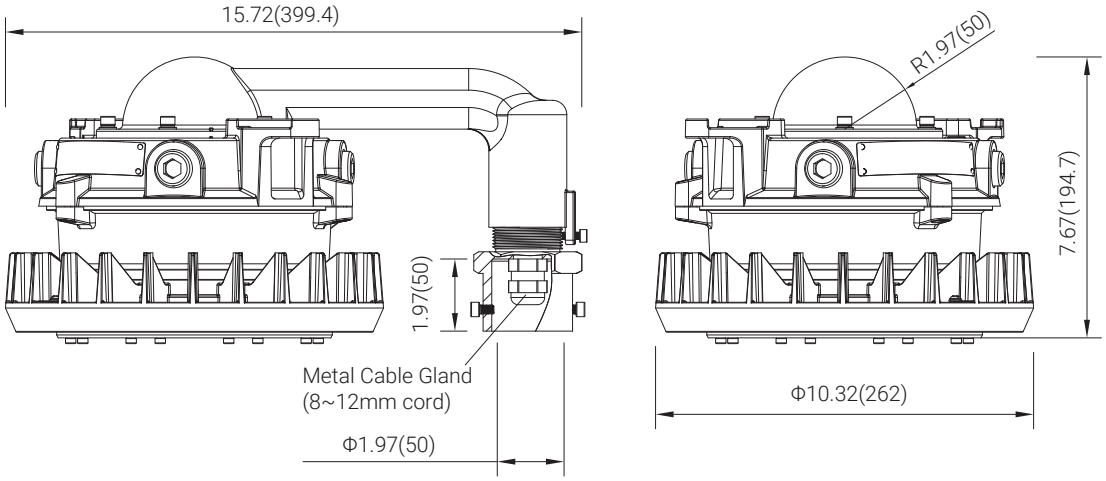
Wall 25°



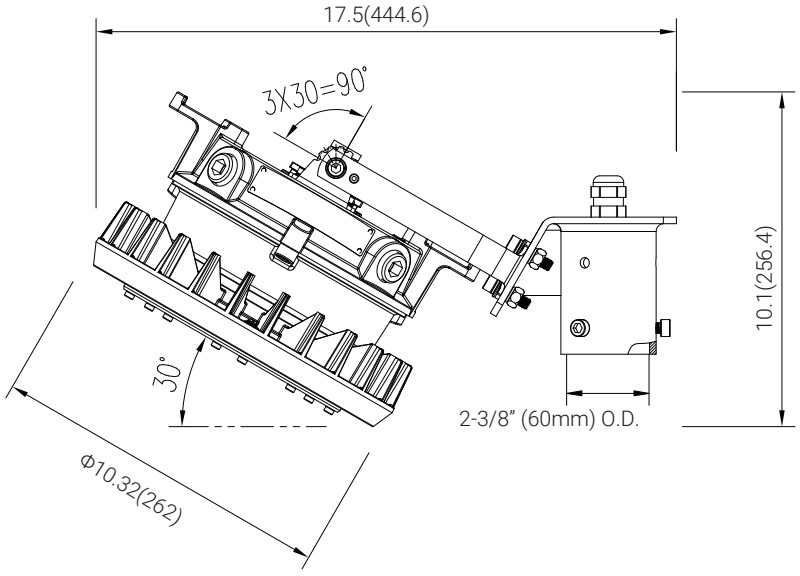
Stanchion 25°

DIMENSIONS

unit: in(mm)



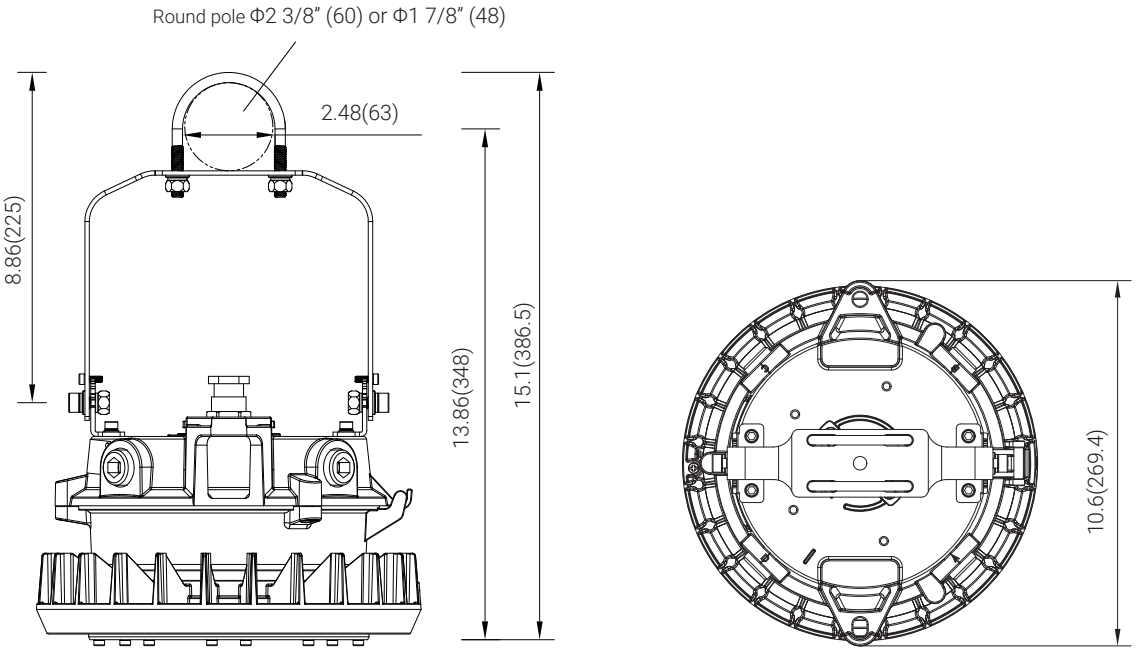
Stanchion 90°



Pole
STAN01

DIMENSIONS

unit: in(mm)



Pole
CLAMP01/02

HAZARDOUS LOCATION LIGHTING BASICS

Atmosphere Groups

Substance	Hazard Class	Division Groups	Zone Groups
Acetylene	Class I Flammable Gases	Group A	IIC
Hydrogen		Group B	IIC
Ethylene		Group C	IIB
Propane		Group D	IIA
Methane		Group D	IIA[2]
Combustible Metal Dusts	Class II Combustible Dusts	Group E[1]	IIIC[3]
Combustible Carbonaceous Dust		Group F	IIIB[3]
Combustible Dusts not in Group E or F (Flour, Grain, Wood, Plastics, Chemicals)		Group G	IIIB[3]
Combustible Fibers and Flyings	Class III Fibers and Flyings	Not Applicable	IIIA[3]

Note 1: Group E is applicable to Class II, Division 1 only.

Note 2: Methane is a Group IIA Gas for non-mining applications.

Note 3: Group IIIA, IIIB and IIIC have not been adopted by the Canadian Electrical Code.

Temperature Classification

Max. Surface Temperatures	NEC®500 CEC®	NEC®500/IEC-Group II
450(842)	T1	T1
300(572)	T2	
280(536)	T2A	T2
260(500)	T2B	
230(446)	T2C	
215(419)	T2D	
200(392)	T3	T3
180(256)	T3A	
165(329)	T3B	
160(320)	T3C	
135(275)	T4	T4
120(248)	T4A	
100(212)	T5	T5
85(185)	T6	T6

Classification of Divisions and Zones

Hazard Level	Division Scheme	Zone Scheme	Definitions
Continuous Hazard	Division 1	Zone 0 / Zone 20	A place in which an explosive atmosphere is continually present
Intermittent Hazard		Zone 1 / Zone 21	A place in which an explosive atmosphere is likely to occur in normal operation
Hazard Under Abnormal Conditions	Division 2	Zone 2 / Zone 22	A place in which an explosive atmosphere is not likely to occur in normal operation, but may occur for short periods

IP Codes

1st No.	Solid Objects
0	No protection
1	Objects greater than 50mm
2	Objects greater than 12.5mm
3	Objects greater than 2.5mm
4	Objects greater than 1mm
5	Dust protected
6	Dust proof

2nd No.	Liquids
0	No protection
1	Vertically dripping
2	Dripping up to 15°
3	Limited spraying
4	Splashing from all directions
5	Hosing jets from all directions
6	Strong hosing jets from all directions
7	Temporary immersion
8	Continuous immersion
9	Steam-jet cleaning

IK Ratings

IK Code	Level of Protection Achieved
IK00	Not protected
IK01	Protected against 0.14 joules impact
IK02	Protected against 0.2 joules impact
IK03	Protected against 0.35 joules impact
IK04	Protected against 0.5 joules impact
IK05	Protected against 0.7 joules impact
IK06	Protected against 1 joules impact
IK07	Protected against 2 joules impact
IK08	Protected against 5 joules impact
IK09	Protected against 10 joules impact
IK10	Protected against 20 joules impact

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