ROUND X2 SERIES

AC EMERGENCY VERSION

LED LIGHTING FOR HARSH AND HAZARDOUS AREAS

AREA & LOWBAY



Reliable. Durable. Efficient.

1800 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

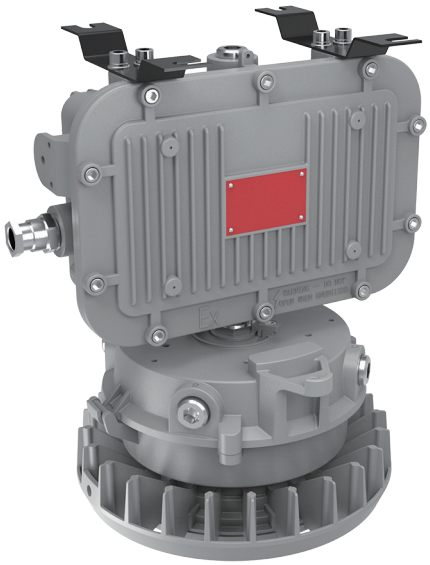
- Team of experts for seamless support
- Energy audit services, lighting simulation services
- Hassle-free return policy and management

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/75W)
Ex ec nC nR IIC T6 Gc ;Ex tb IIIC T85°C Db (25W/45W)
0°C≤ Tamb≤+50°C

TECHNICAL PARAMETERS

Specification	RND-25-EM	RND-45-EM	RND-65-EM	RND-75-EM
Electrical Parameters				
Power	25W	45W	65W	75W
Voltage/Frequency	100-240V AC 50/60Hz			
Power Factor	>90%			
THD	<20%			
L70	150,000 Hours@50℃			
Battery	LiFePO4			
Expected Battery Life	3-year			
Charge Time	24 hours			
Emergency Run Time	90mins @ 12W			
Dimming	0-10V			
Surge Protection	6KV			
Warranty	LEDs: 10 years, Driver: 5 years			
Optical Parameters				
Lumen Output (Normal)*	4,036Lm	7,129Lm	10,405Lm	11,758Lm
Lumen Output (EM)*	1,800Lm			
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	Ceiling, Stanchion, Yoke, Pendant			
Product Weight	19.4lbs / 8.8kg			
Cable Entry	(3) 3/4" NPT			
Product Dimensions(L×W×H)	11.9×10.6×14.7in (302×269.4×372.7mm)			
Environmental Parameters				
Ambient Operating Temperature	0°C ~ +50 °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-45-100-240-57-110-X2-CG-GRY-PDCG-EM

RND – 45 – 100-240 – 57 – 110 – X2 – CG – GRY – PDCG – EM

PRODUCT SERIES

WATTAGE

25 - 25W
45 - 45W
65 - 65W
75 - 75W

VOLTAGE

100 - 240
100-240V AC

CCT

4K - 4000K
57 - 5700K

BEAM

60 - 60°*
110 - 110°
180 - 180°*

BATTERY

EM - 12W 90mins

MOUNTING

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

COLOR

GRY - Grey

LENS

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

RATING

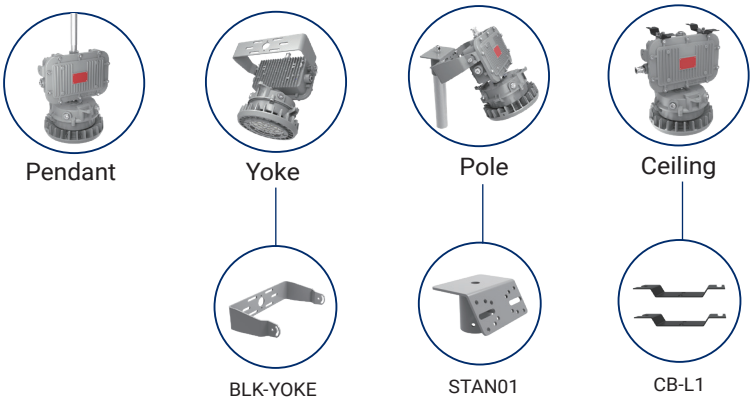
X2 - Zone 2, 21

* 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	BLK-YOKE	YOKE Mount, RND SERIES, SS304, Power Coated Grey RAL7037	309050055
Pole	STAN01*	Slip-Fit Stanchion Mount Kit, M25, SS304, Power Coated Grey RAL7037	309050300
Ceiling	CB-L1	Low Ceiling Mount Bracket 1 pair	309050220

* Requires A Yoke Mount

OTHER ACCESSORIES



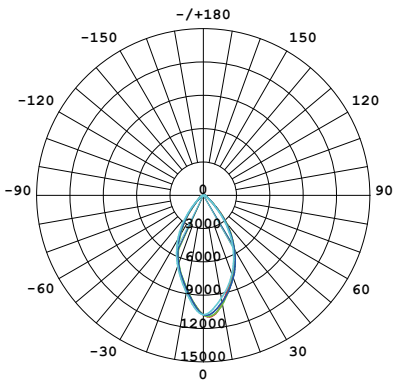
PN	Description	MPN Code
SFCB01	Safety Cable Kit, BLK & RDX SERIES, SS304	106060018
RND-WG	Wire guard, RND SERIES, SS304	310010109
RND-WGG	Wire guard for Globe lens, RND SERIES, SS304	309050143
RND-VISO25	VISOR 25°, RND SERIES, Aluminium alloy, Power Coated Grey RAL7037	101050008
RND-VISO90	VISOR 90°, RND SERIES, Aluminium alloy, Power Coated Grey RAL7037	101050009

LUMEN TABLE

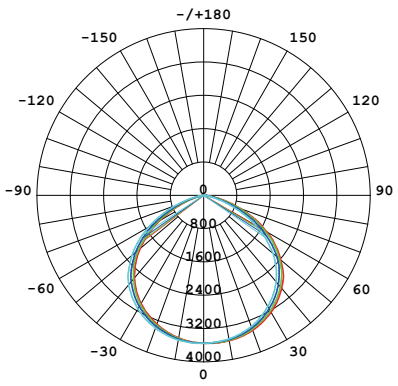
PN	Wattage (W)	CCT	Beam	Lens	Lumen Output (Standard)	Lumen Output (EM)
Voltage 100-240V AC-EM						
RND-25-100-240-57-60-X2-CG-GRY-YKE-EM	25	5700K	60°	Clear Glass	4,295	1,800
RND-25-100-240-57-110-X2-CG-GRY-YKE-EM	25	5700K	110°	Clear Glass	4,036	1,800
RND-25-100-240-57-180-X2-DLG-GRY-YKE-EM	25	5700K	180°	Drop Lens Glass	3,268	1,800
RND-45-100-240-57-60-X2-CG-GRY-YKE-EM	45	5700K	60°	Clear Glass	7,523	1,800
RND-45-100-240-57-110-X2-CG-GRY-YKE-EM	45	5700K	110°	Clear Glass	7,129	1,800
RND-45-100-240-57-180-X2-DLG-GRY-YKE-EM	45	5700K	180°	Drop Lens Glass	5,714	1,800
RND-65-100-240-57-60-X2-CG-GRY-YKE-EM	65	5700K	60°	Clear Glass	10,958	1,800
RND-65-100-240-57-110-X2-CG-GRY-YKE-EM	65	5700K	110°	Clear Glass	10,405	1,800
RND-65-100-240-57-180-X2-DLG-GRY-YKE-EM	65	5700K	180°	Drop Lens Glass	8,351	1,800
RND-75-100-240-57-60-X2-CG-GRY-YKE-EM	75	5700K	60°	Clear Glass	12,638	1,800
RND-75-100-240-57-110-X2-CG-GRY-YKE-EM	75	5700K	110°	Clear Glass	11,758	1,800
RND-75-100-240-57-180-X2-DLG-GRY-YKE-EM	75	5700K	180°	Drop Lens Glass	9,434	1,800

For additional information, please contact your sales representative.

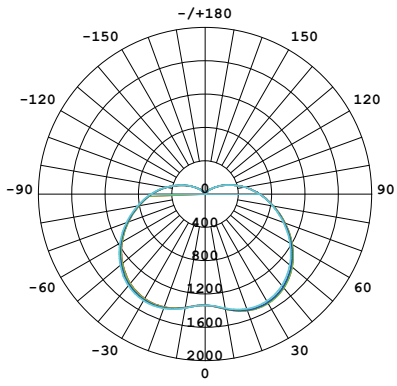
PHOTOMETRIC



60°



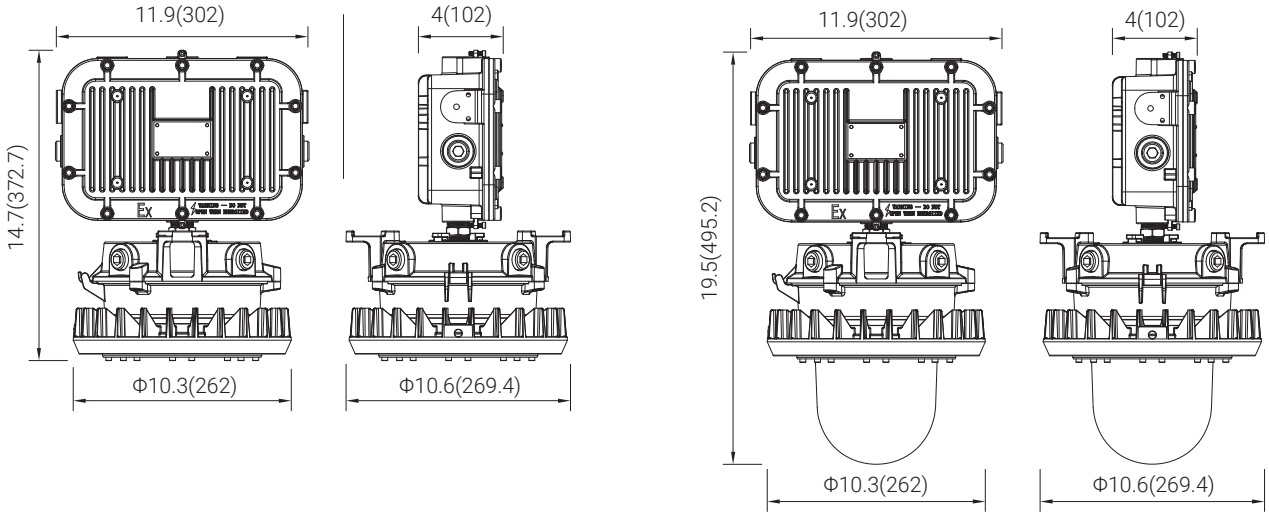
110°



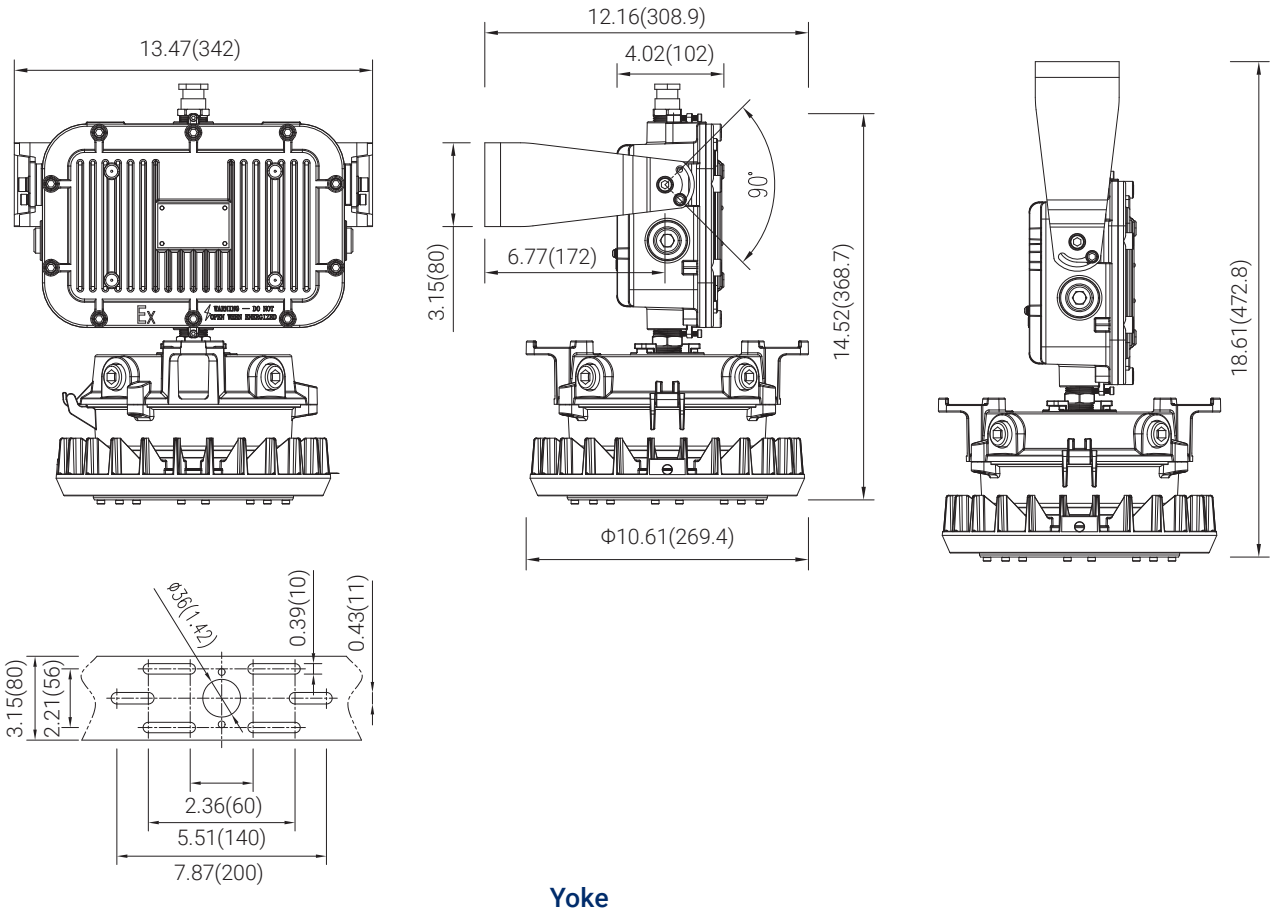
180°

DIMENSIONS

unit: in(mm)



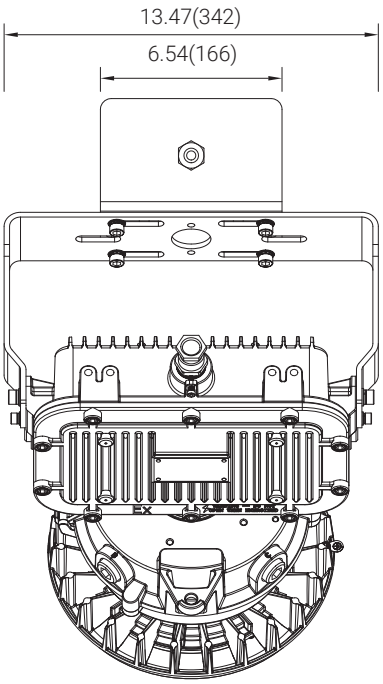
Pendant

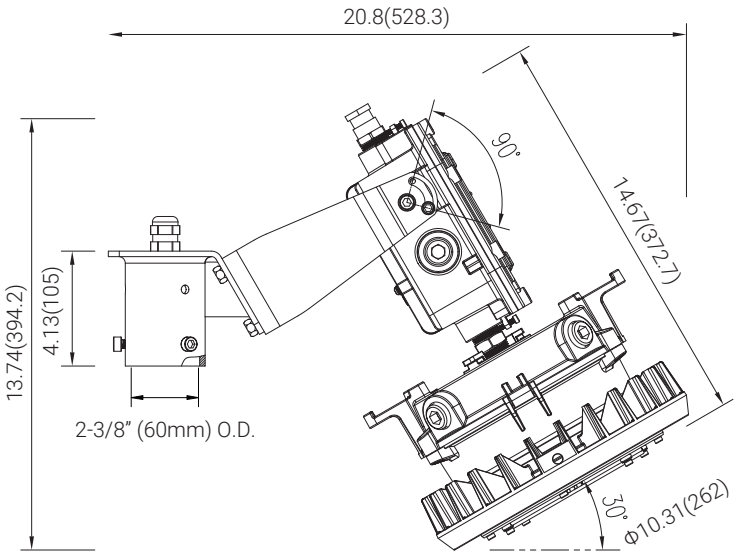


Yoke

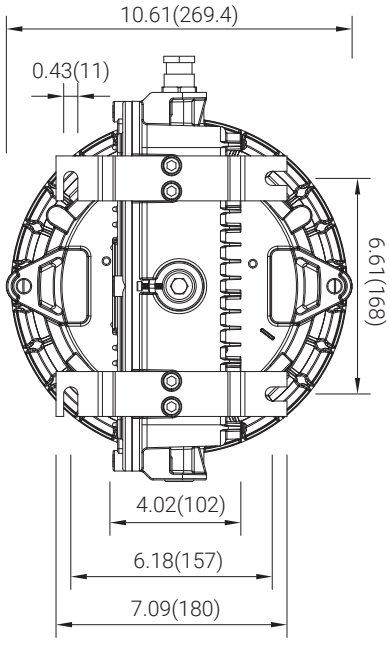
DIMENSIONS

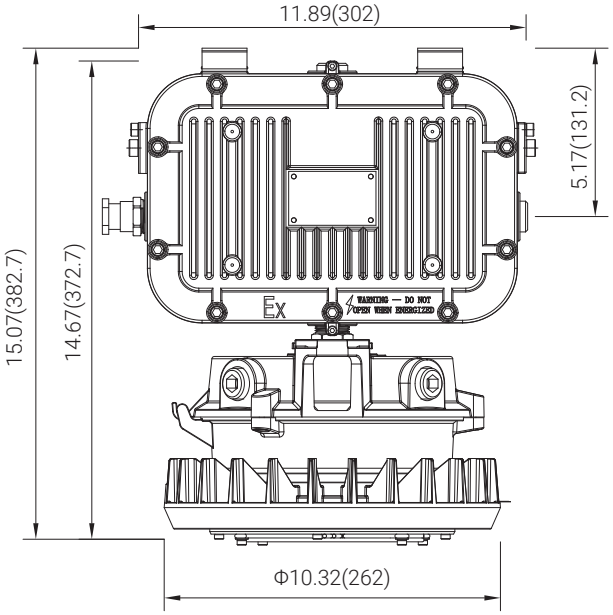
unit: in(mm)





Pole





Ceiling

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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