

ROUND X2 SERIES

DC VERSION

LED LIGHTING FOR HARSH AND HAZARDOUS AREAS
AREA & LOWBAY



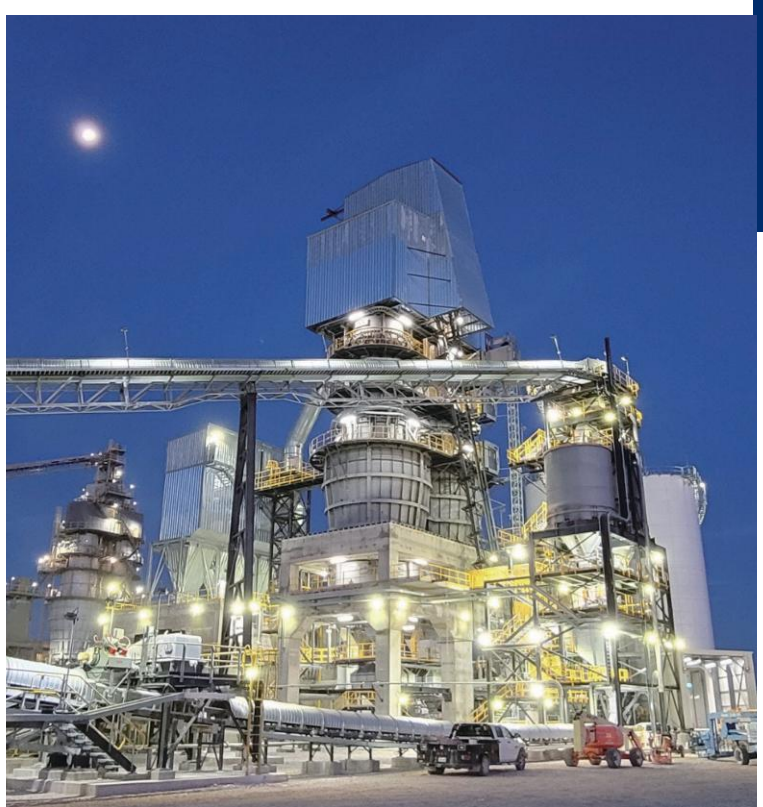
Reliable. Durable. Efficient.
4,000 to 10,500 lumen models

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

❧ TOP-NOTCH SERVICES

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

❧ FAST DELIVERY

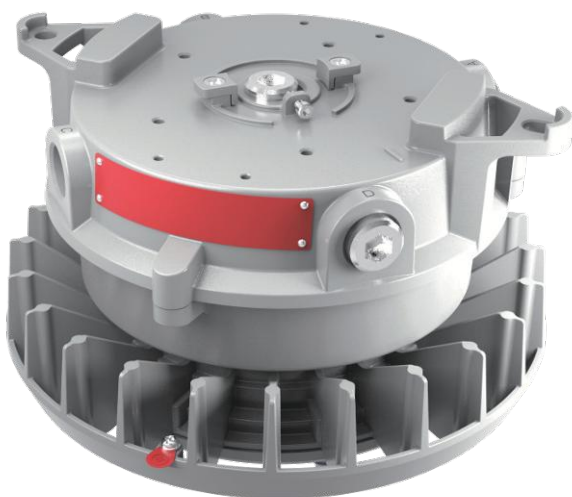
- Majority of orders delivered within 14 days
- Same day shipping for products in stock
- Real-time order tracking for full transparency

❧ 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>147,000 hrs 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
Salt Spray 720 hrs (ISO 9227)

CERTIFICATIONS

ATEX & UKEX

II 3G Ex ec nC nR IIC T4 Gc;II 2D Ex tb IIIC T110°C Db (65W)
II 3G Ex ec nC nR IIC T6 Gc ;II 2D Ex tb IIIC T85°C Db (25W/45W)

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)

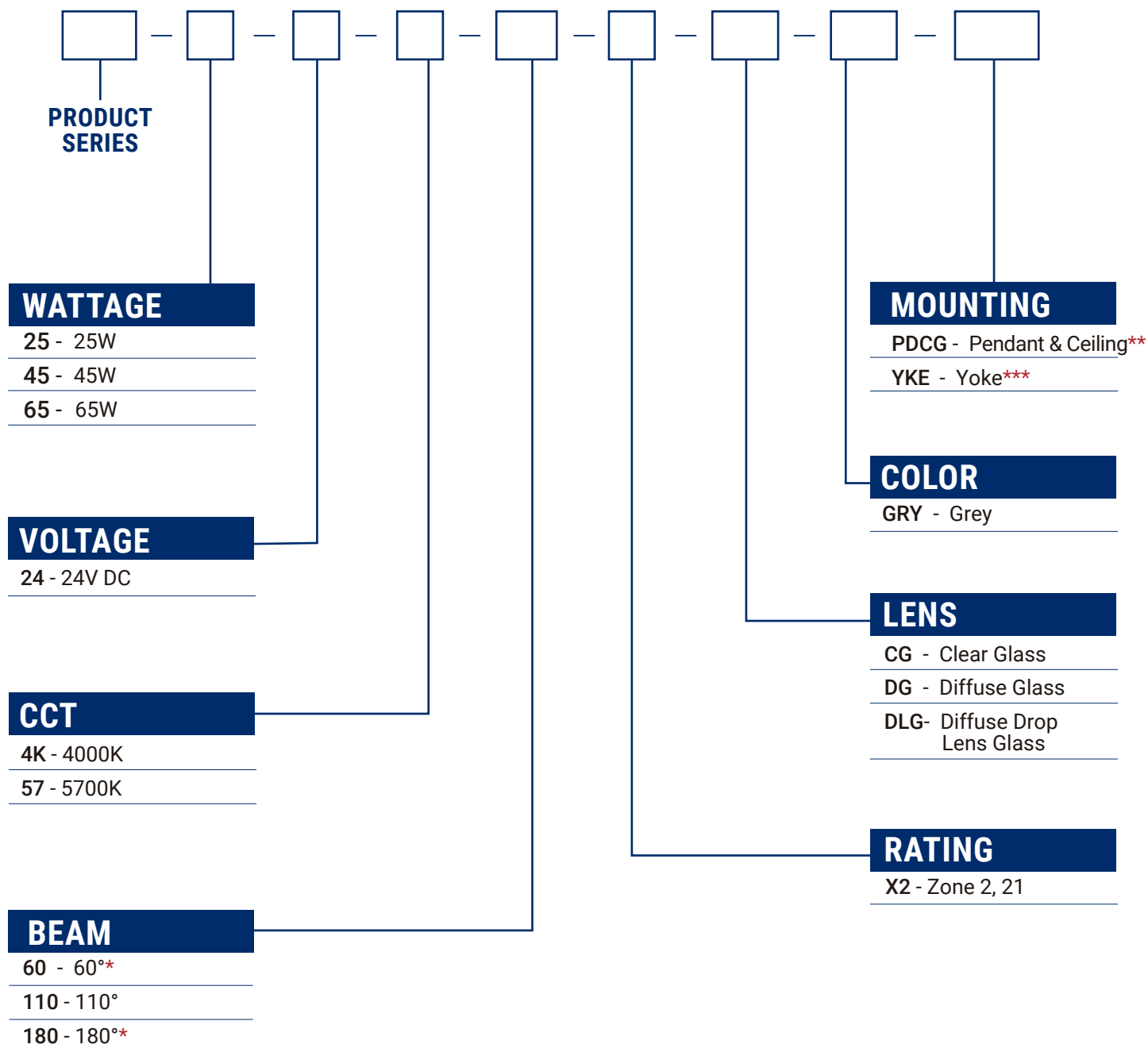
TECHNICAL PARAMETERS

Specification	RND-25-24	RND-45-24	RND-65-24
Electrical Parameters			
Power	25W	45W	65W
Rated Input Current (V AC)	1.042A	1.875A	2.709A
Voltage/Frequency	24V DC		
L70	147,000 hrs@55°C		
Dimming	0-10V		
Supply Wire	1mm²-4mm², Rated 90°C		
Warranty	3 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			
Housing Material	Marine Grade Aluminium		
Hardware	Stainless steel 316		
Lens Material	Tempered Glass		
Mounting Options	Pendant, Yoke, Wall, Stanchion, Pole		
Product Weight	10.6lbs/4.8kg		
Package Weight	12.7lbs/5.8kg		
Cable Entry	(5) 3/4" NPT		
Product Dimensions(L×W×H)	10.6×10.3×6in (269.4×262×151.7mm)		
Package Dimensions(L×W×H)	12.7×11.6×8.7in (323×295×220mm)		
Environmental Parameters			
Ambient Operating Temperature	-40°C~+55°C		
Optimal Operating Temperature	Gas – T6; Dust – 85°C		Gas – T4; Dust – 110°C
EPA wind rating (FT2/m2)	0.929/0.086 (Yoke), 0.917/0.085 (Stanchion)		

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

ORDERING INFORMATION

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

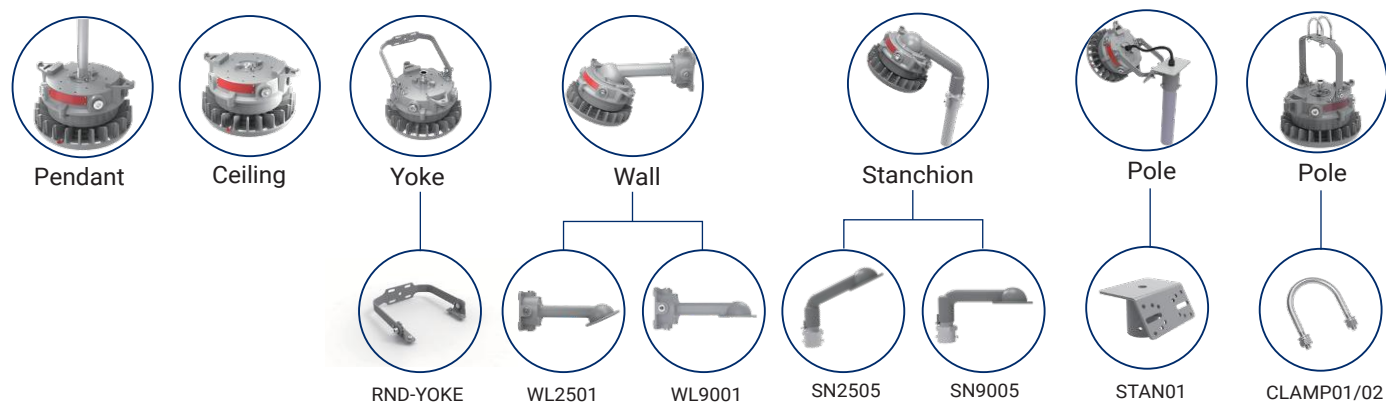


* 60° only with Clear Glass, 180° only with Diffuse Drop Lens Glass

** No accessory required for Pendant & Ceiling Mount

*** RND-YOKE Pre-installed as standard

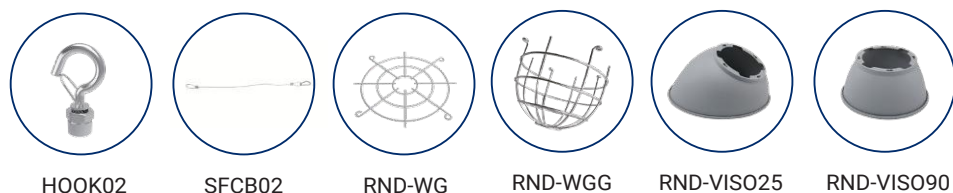
MOUNTING ACCESSORIES



Mounting Method	PN	Description	MPN Code
Yoke	RND-YOKE	Yoke Mount, SUS304, Powder-Coated Grey RAL 7037	210010007
Stanchion	SN2505	Stanchion Mount, 25 Degrees, Adapter, NPT 1-1/2 inch Conversion for 1.9 inch (Φ50 mm) Pole OD, Powder-Coated Grey RAL 7037	210010033
	SN9005	Stanchion Mount, 90 Degrees, Adapter, NPT 1-1/2 inch Conversion for 1.9 inch (Φ50 mm) Pole OD, Powder-Coated Grey RAL 7037	210010034
Wall	WL2502	Wall Mount, 25 Degrees, Powder-Coated Grey RAL 7037	210010036
	WL9002	Wall Mount, 90 Degrees, Powder-Coated Grey RAL 7037	210010035
Pole	STAN01*	Slip-Fit Stanchion Mount Kit for Φ2 inch (2-3/8 inch OD, 60mm OD) Poles, Non-Threaded, SUS304, Powder-Coated Grey RAL 7037	210010031
	CLAMP01	Pipe Clamp Kit for Round Pole 1-7/8 inch OD (48 mm), SUS304	210010011
	CLAMP02	Pipe Clamp Kit for Round Pole 2-3/8 inch OD (60 mm), SUS304	210010010

* Requires A Yoke Mount

OTHER ACCESSORIES



PN	Description	MPN Code
HOOK02	M10 Hook with 3/4 inch NPT Threads, SUS316	210010097
SFCB02	Safety Cable Kit, SS304	210010094
RND-WG	Wire Guard, SUS304	210100104
RND X2-WGG	Wire Guard for Globe Lens, SUS304	210100115
RND-VISO25	Visor, 25 Degrees, Aluminium Alloy, Powder-Coated Grey RAL 7037	210010088
RND-VISO90	Visor, 90 Degrees, Aluminium Alloy, Powder-Coated Grey RAL 7037	210010087

REPLACEMENT PARTS (ORDERED SEPARATELY)

Part Number	Description	MPN Code
RND-25-24-Driver	Replacement Driver Kit for RND-25-24 Fixtures	303010071
RND-45-24-Driver	Replacement Driver Kit for RND-45-24 Fixtures	303010072
RND-65-24-Driver	Replacement Driver Kit for RND-65-24 Fixtures	303010073
CG002-A-01	Replacement Clear Glass Lens for RND2, RND X2	303030004
DG010-A-01	Replacement Diffuse Glass Lens for RND X2	303030026
DLG010-A-01	Replacement Drop Glass Lens for RND X2	303030027

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	4,212	175
RND-25-24-57-110-X2-CG-GRY-YKE	25	5700K	110°	Clear Glass	4,096	158
RND-25-24-57-180-X2-DLG-GRY-YKE	25	5700K	180°	Drop Lens Glass	3,307	128
RND-45-24-57-60-X2-CG-GRY-YKE	45	5700K	60°	Clear Glass	7,613	165
RND-45-24-57-110-X2-CG-GRY-YKE	45	5700K	110°	Clear Glass	7,067	159
RND-45-24-57-180-X2-DLG-GRY-YKE	45	5700K	180°	Drop Lens Glass	5,907	125
RND-65-24-57-60-X2-CG-GRY-YKE	65	5700K	60°	Clear Glass	10,762	165
RND-65-24-57-110-X2-CG-GRY-YKE	65	5700K	110°	Clear Glass	10,209	149
RND-65-24-57-180-X2-DLG-GRY-YKE	65	5700K	180°	Drop Lens Glass	8,230	120

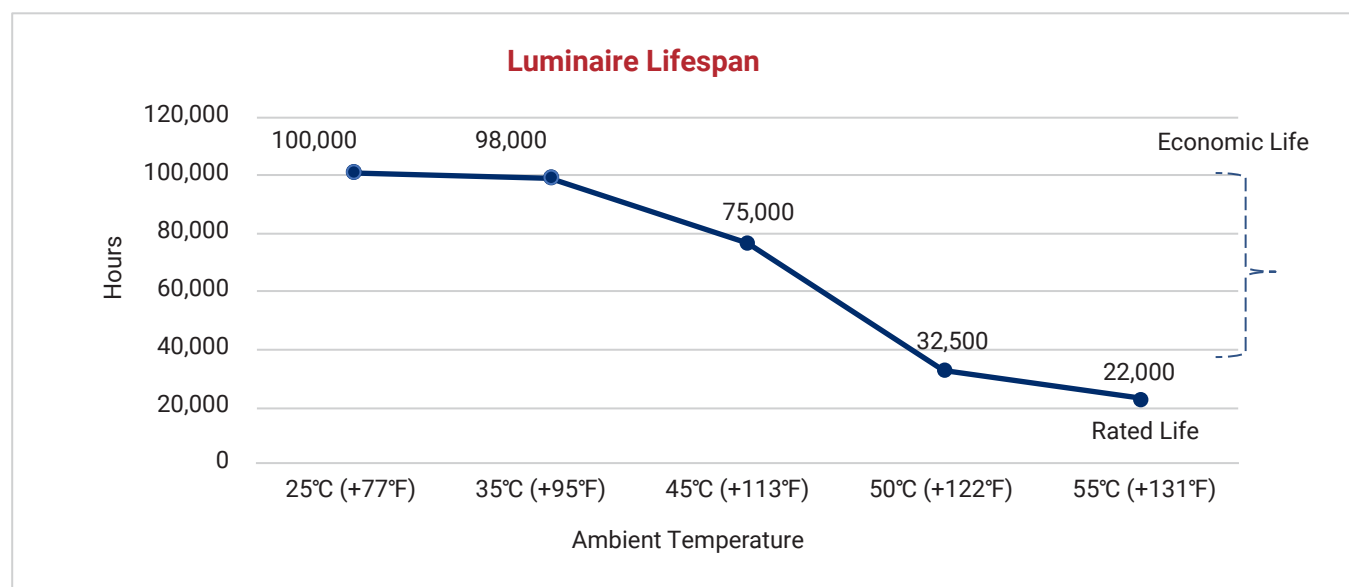
This table lists only selected lumen packages. For additional model parameters, please contact our sales team.
 Note: LXX# = nominal lumens. Verify lumen package before ordering.

LUMEN MAINTENANCE

Hours Ambient	0	15,000	30,000	45,000	60,000	75,000	90,000	100,000	150,000
25°C	100%	99%	94%	90%	87%	84%	81%	79%	70%
35°C	100%	99%	94%	90%	87%	84%	81%	79%	70%
45°C	100%	99%	94%	90%	87%	84%	80%	78%	69%
50°C	100%	99%	93%	90%	86%	83%	79%	77%	68%
55°C	100%	99%	93%	89%	85%	82%	78%	76%	66%

LUMINAIRE LIFESPAN

Ambient Temperature	Luminaire Lifespan (Hours)	Rated Service Life - Years (24/7 Operation)	Rated Service Life - Years (12/7 Operation)
25°C (+77°F)	100,000	11	23
35°C (+95°F)	98,000	11	22
45°C (+113°F)	75,000	9	17
50°C(+122°F)	32,500	4	7
55°C(+131°F)	22,000	3	5



Information shown for reference only and may vary by configuration.

A DIRECT RETROFIT FROM HID TO LED

The Round series LED is easy to retrofit in the same configuration as your existing HID luminaires. For example, a 75-watt Round (RND-75) delivers virtually the same illumination as its equivalent 250 watt MH luminaire while providing 70% reduction in energy costs and up to 150,000 hours of continuous operation.

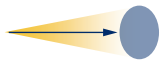
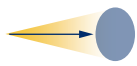
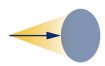
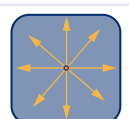
MODELS	Lumen Output (Lm)	MH Equivalent (W)	HPS Equivalent (W)
RND-25	4,036	100	150
RND-45	7,129	175	225
RND-65	10,405	250	310
RND-75	11,758	250	310

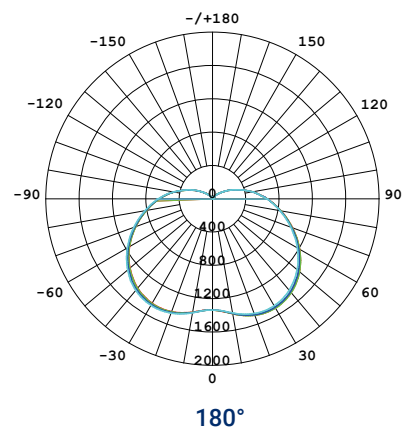
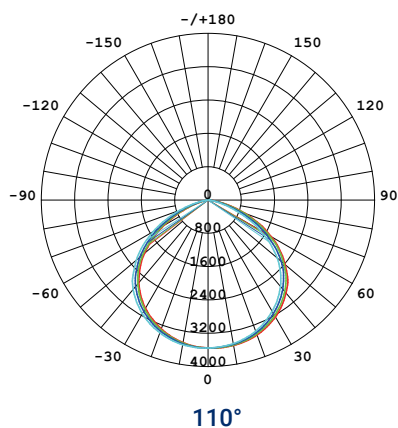
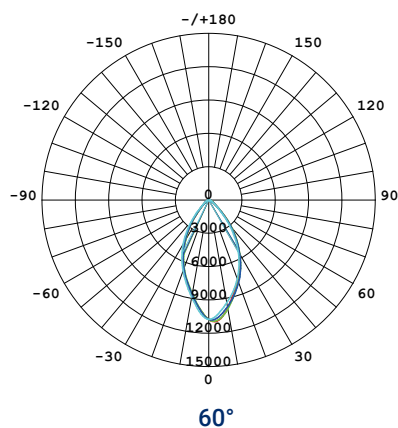
THE RIGHT BEAM PATTERN FOR YOUR APPLICATION

RSL optic package is engineered to deliver maximum footcandles efficiently where you need them, without wasted light or overspill.

RSL offers complimentary lighting design services for our products using industry-leading AGI32 software, tailored for projects of all sizes in harsh and hazardous locations. We assist you in determining the number of fixtures needed, the types of lights to use, their optimal placement, and how to maximize energy savings—all within budget.

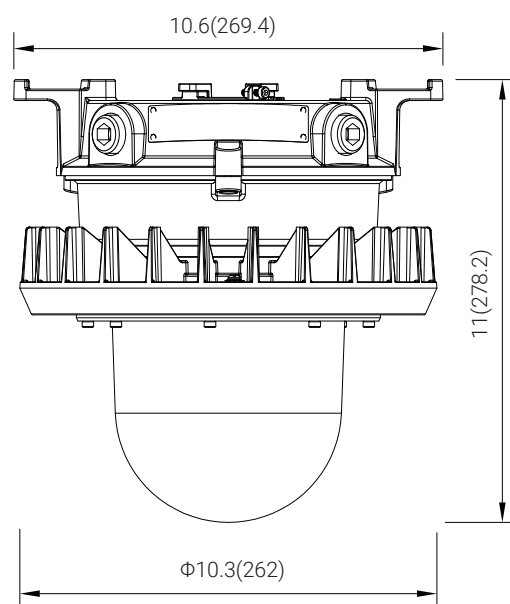
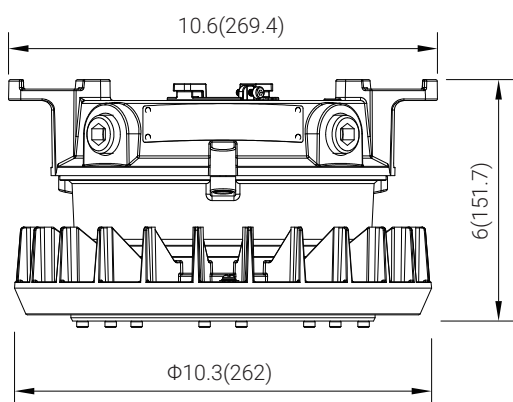
Simply fill out the form (<https://dev.redskylighting.com/lighting-design>) with a few key details, request a layout, and we'll bring your ideas to life within 2-5 business days.

Beam	NEMA/IESNA Type	Beam Description	Beam Projection Distance
30°	NEMA 3	Medium Narrow	
60°	NEMA 4	Medium	
90°	NEMA 5	Medium Wide	
120°	NEMA 6	Wide	
T1	Type I	Asymmetric distributions, well suited for narrow areas, such as Conveyor belts, Aisleways, Catwalks, Loading docks and Tunnels.	
T2	Type II	Asymmetric distributions, well suited for narrow areas, such as roadways, paths and driveways.	
T3	Type III	Asymmetric distributions, well suited for site / area perimeters, wide roadways, and open areas.	
T5	NEMA 7 Type V (Square)	Very Wide: symmetrical pattern with excellent uniformity for large, open areas.	



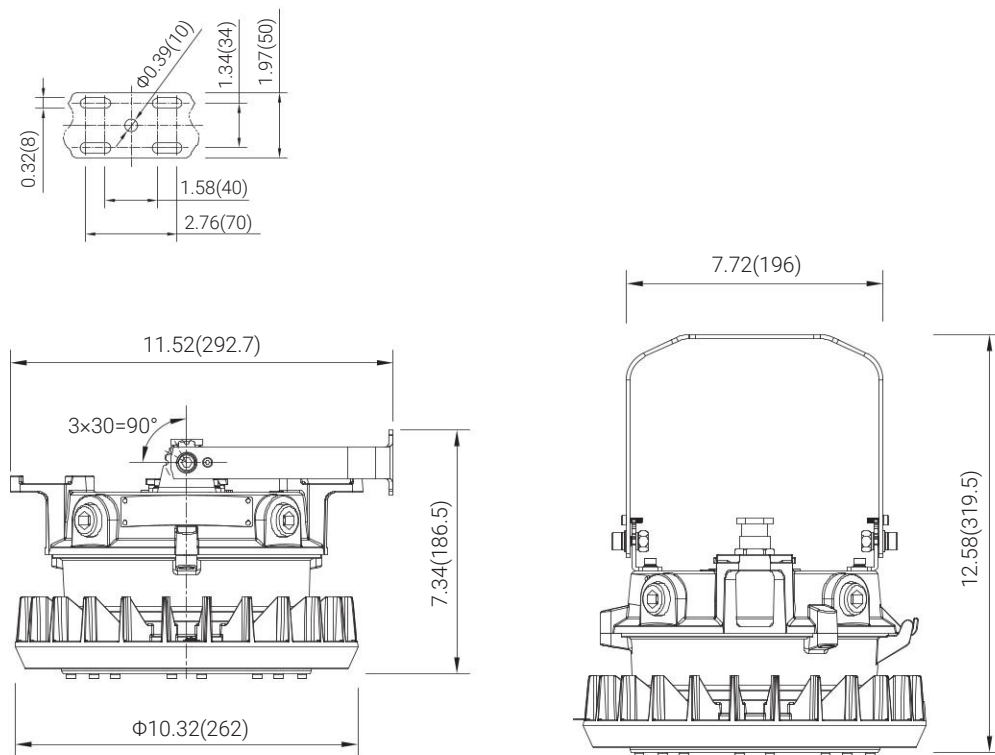
DIMENSIONS

unit: in(mm)

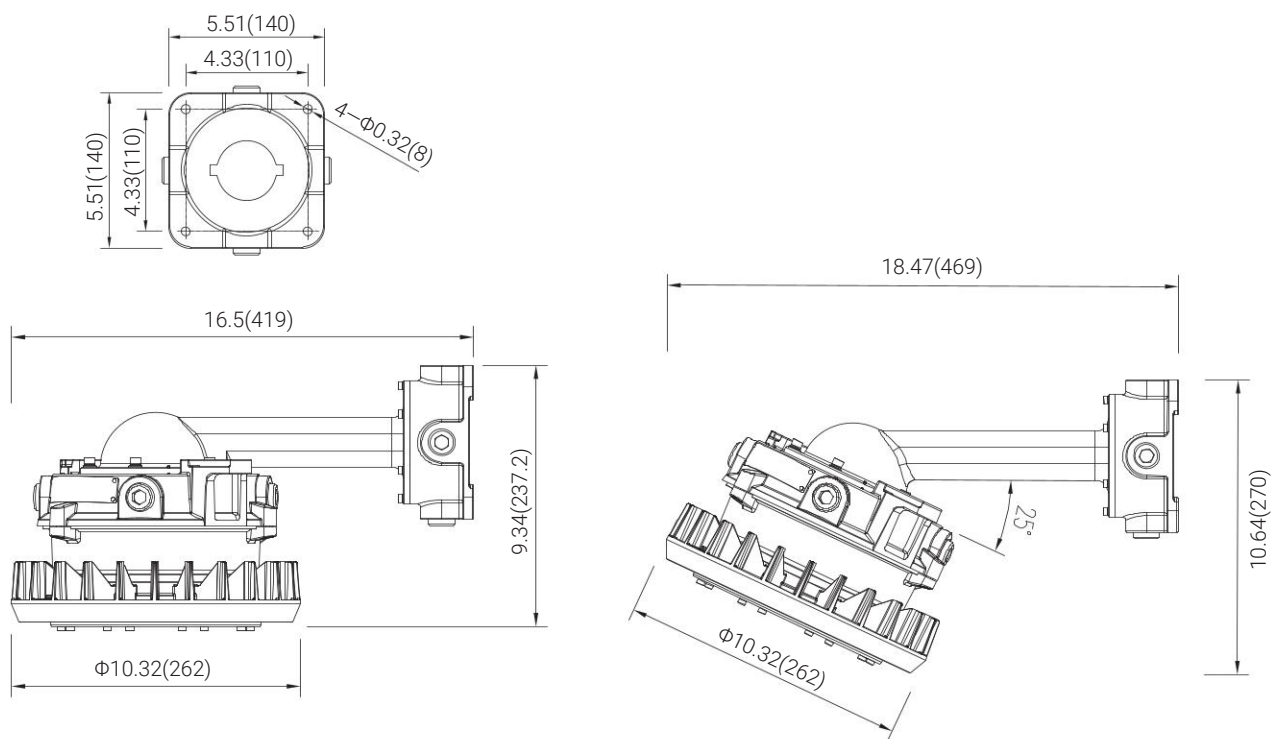


Pendant

unit: in(mm)



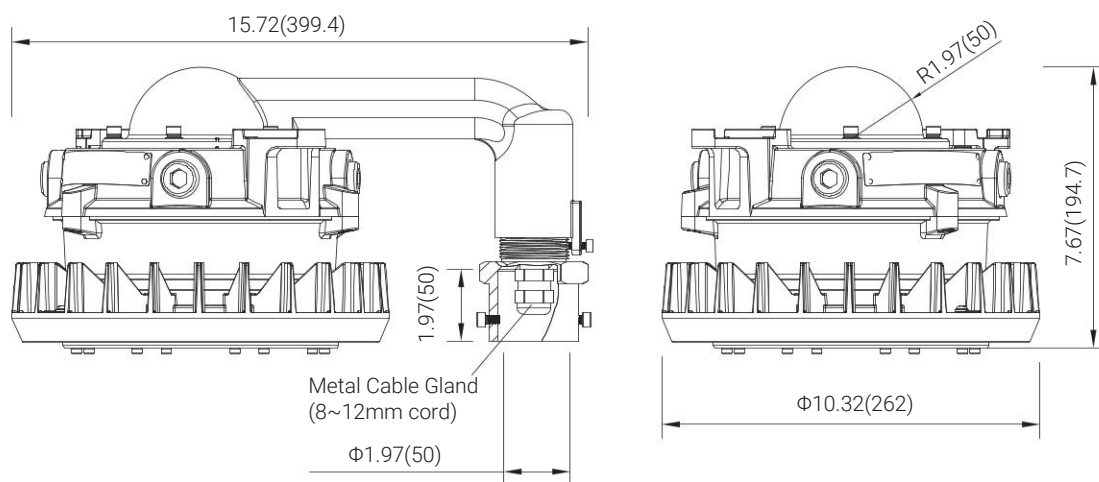
Yoke



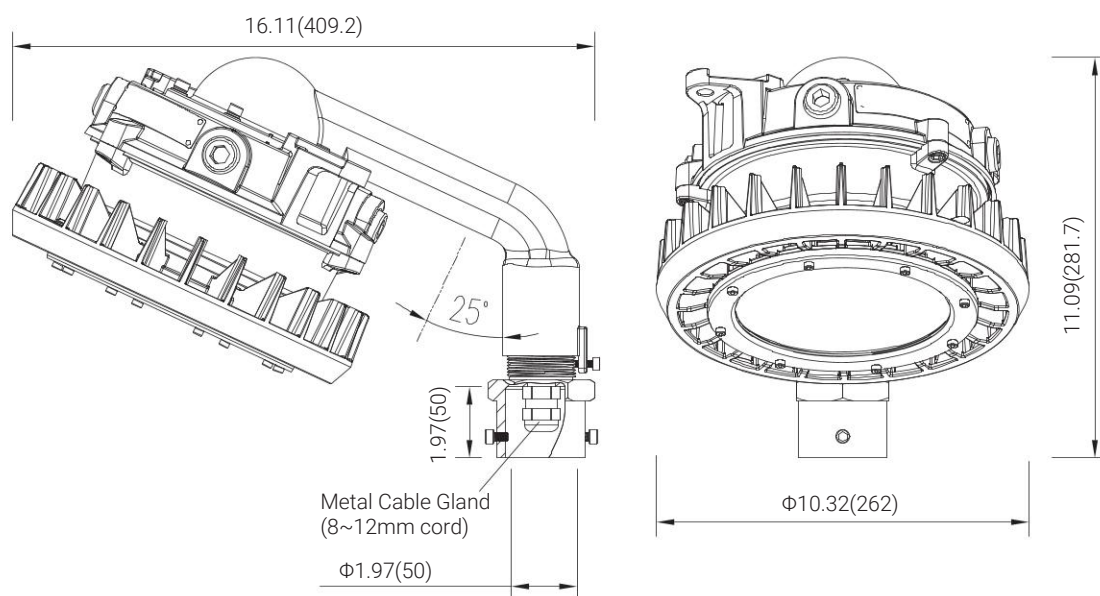
Wall 90°

Wall 25°

unit: in(mm)

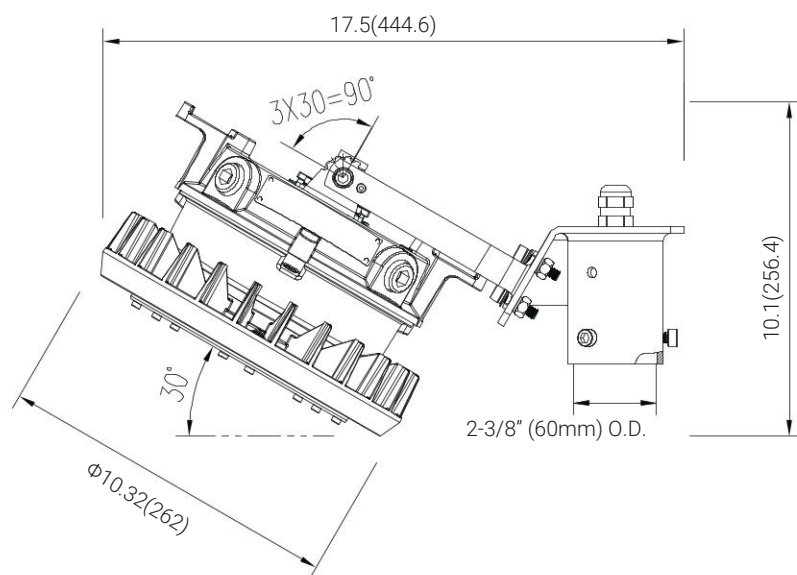


Stanchion 90°

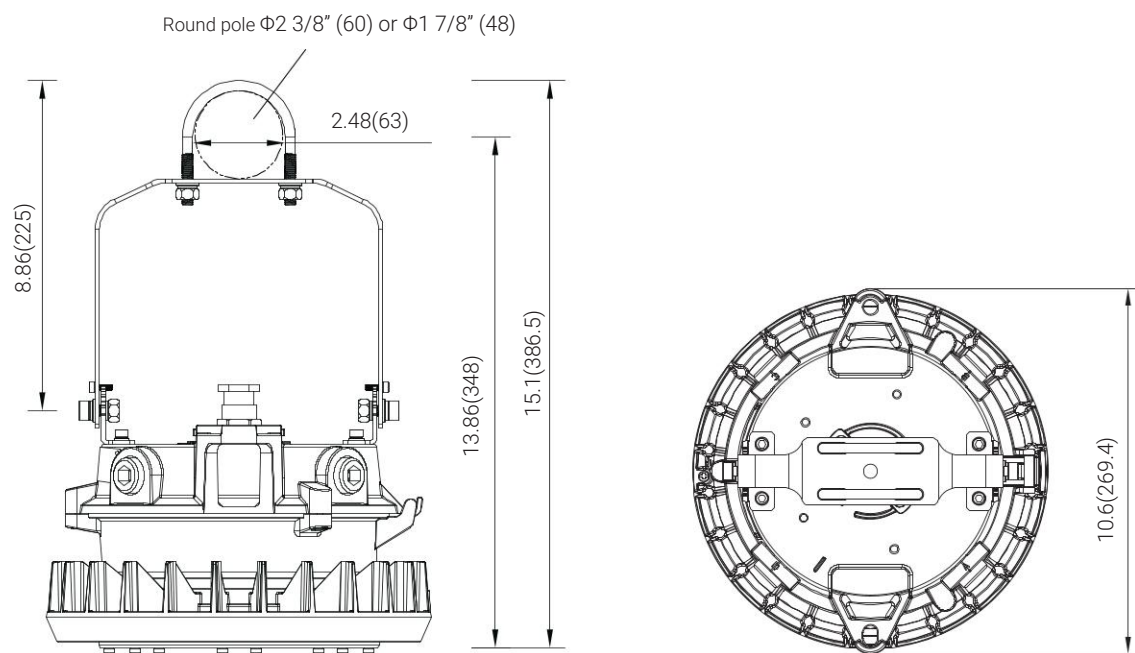


Stanchion 25°

unit: in(mm)



Pole
STAN01



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

All product information is subject to change without notice.

Please contact Red Sky Lighting or your sales representative for the most up-to-date specifications.

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