

# ROUND MAX SERIES

LED LIGHTING FOR HARSH AND  
HAZARDOUS AREAS HIGHBAY



**Reliable. Durable. Efficient.**  
**12,000 to 30,000 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

### 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



# ROUND MAX SERIES

**UNMATCHED POWER AND  
BRIGHTNESS – ROUND MAX  
BRINGS THE SIZE TO THE  
ROUND SERIES LINE-UP**



Prepare to transform your lighting solution with the extraordinary **Round Max**. It embodies the very essence of power and brightness. Designed for both indoor mid to high bay and outdoor general area applications, the Round-Max is here to revolutionize your lighting experience.

With an impressive output of up to 30,000 lumens and equipped with type I, III, and V optics, the Round-Max effortlessly outshines the competition. It reduces the number of fixtures required for the same area, while delivering unparalleled brightness. Thanks to its innovative design and engineering, the Round-Max offers swift installation, taking as little as 60 seconds to install. It's the perfect choice for illuminating oil & gas refineries, shipyards, power plants, and various industrial applications.





## ROUND MAX SERIES

ALCOHOL FACTORY, KENTUCKY

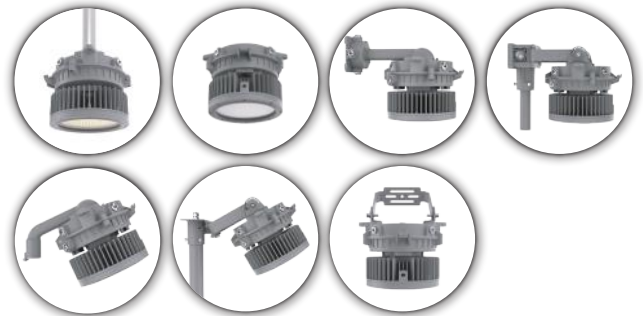
## FEATURES



**Quick Installation**  
60 seconds installation time



**Flexible Installation**  
7 different mounting options



**Instant Illumination and Restrike**  
Four lumen outputs provide 320-1000W HID/MH equivalent lighting (12,000 to 30,000Lm)  
Polycarbonate and tempered glass with three different optics

## RATINGS

Class I Division 2, Group A, B, C, D	Simultaneous Presence
Class II Division 1 Group E, F, G	UL 1598 Wet Locations
Class II Division 2, Group F, G	UL 1598A Marine Outside Type (Salt Water)
Class III	IP66
Class I, Zone 2, Group IIC	IK08(Glass) / IK10(PC)
Zone 21, Group IIIC	Salt Spray 720 hrs (ISO 9227)

## CERTIFICATIONS

UL844  
UL1598  
UL1598A  
CSA C22.2 No.137  
CSA C22.2 No.250.0  
DLC Standard\*  
FCC Part 15, Subpart B

\* Not all product variations listed on this page are DLC qualified.  
Visit [www.designlights.org/search](http://www.designlights.org/search) to confirm qualification.

# TECHNICAL PARAMETERS

Specification	RDX-80	RDX-120	RDX-150	RDX-200
Electrical Parameters				
Power	80W	120W	150W	200W
Rated Input Current(100V AC)	0.740A	1.111A	1.388A	1.851A
Rated Input Current(277V AC)	0.320A	0.481A	0.601A	0.802A
Rated Input Current(347V AC)	0.256A	0.384A	0.480A	0.640A
Rated Input Current(480V AC)	0.185A	0.277A	0.347A	0.462A
Voltage/Frequency	100-277V AC, 347-480V AC 50/60Hz			
Power Factor	≥0.90			
THD	<20%			
L70	112,000 hrs@149°F		112,000 hrs@140°F	110,000 hrs@131°F
Dimming	0-10V, Range 10-100%			
Surge Protection	6KV			
Supply Wire	12-18AWG , Rated 90°C			
Warranty	LEDs: 10 years, Driver: 7 years			
Optical Parameters				
Lumen Output*	12,720Lm	19,320Lm	23,850Lm	29,600Lm
Lumen Efficacy*	150Lm/W			
Available Beam Angle	T1/T3/T5/30°/60°			
Correlated Color Temperature (CCT)	3000K/4000K/5000K			
Color Rendering Index (CRI)	Ra>70**			
Mechanical Parameters				
Housing Material	Copper-free (< 0.4%) aluminum			
Hardware	Stainless steel 316			
Lens Material	Tempered Glass or Polycarbonate			
Mounting Options	Pendant, Ceiling, Stanchion, Wall, Yoke, Junction Box, Stanchion slip fitter			
Product Weight	21.6lbs/9.8kg			
Package Weight	23.7lbs/10.8kg			
Cable Entry	(6) 3/4" NPT			
Product Dimensions(L×W×H)	Φ10.6×9.1in (Φ270×230mm)			
Package Dimensions(L×W×H)	Φ13×11in (Φ330×280mm)			
Environmental Parameters				
Ambient Operating Temperature	-40°F ~ +149°F(-40°C ~ 65°C)	-40°F ~ +140°F(-40°C ~ 60°C)		-40°F ~ +131°F(-40°C ~ 55°C)
T-Code Rating	CID2 – T4A, CIID1 – T4A			
EPA wind rating (FT2)	1.342(Yoke), 1.372(Ceiling), 1.222(Stanchion)			

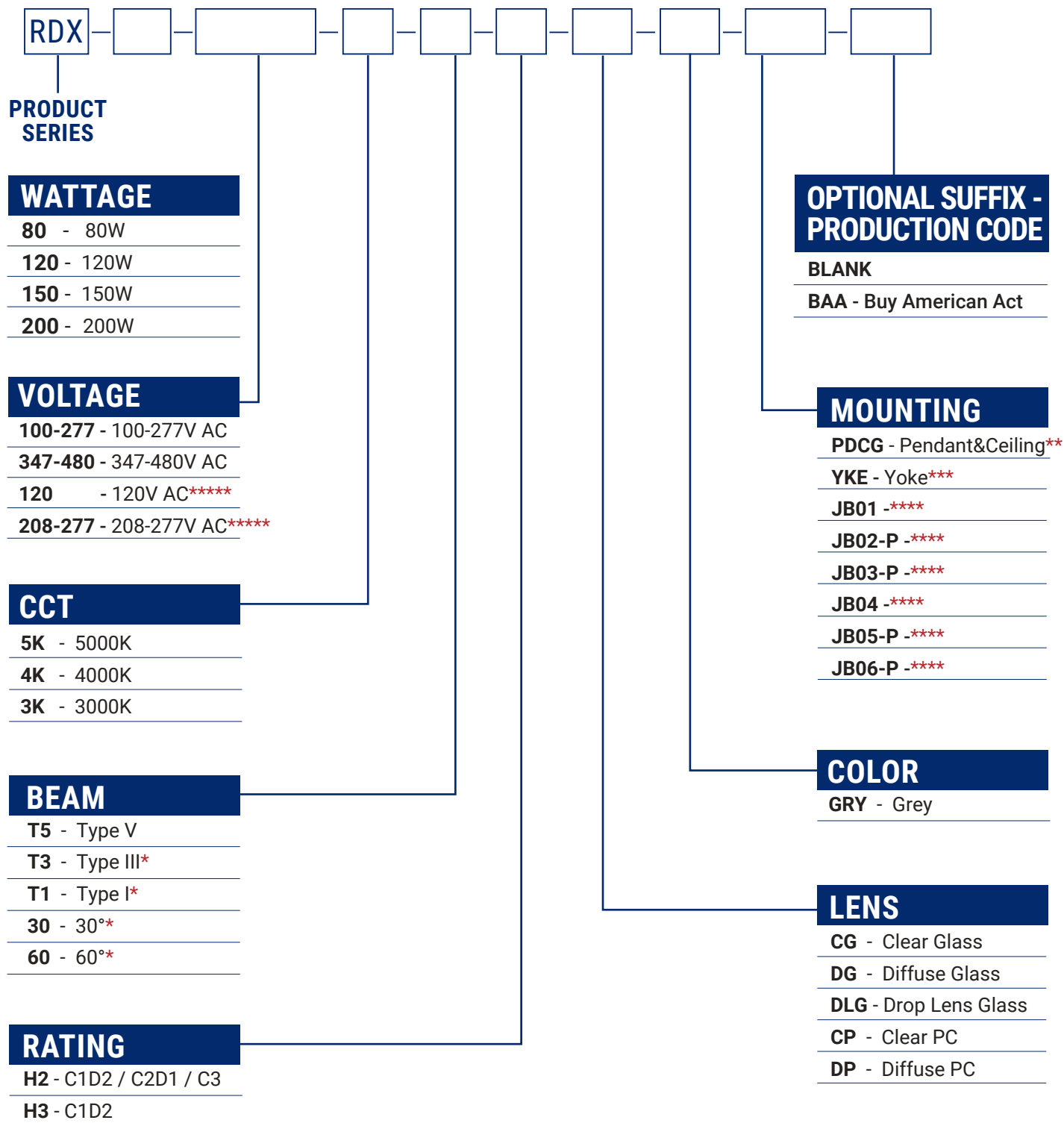
\* Value calculated based on 5000K and Clear glass ,varies to different spec.

\*\* Note: The BAA-certified version features a CRI of 80.



# ORDERING INFORMATION

**EXAMPLE:** RDX-80-100-277-5K-T5-H2-CG-GRY-PDCG-BAA



\* T1, T3, 30°, 60° Optic available with Clear Glass and Clear PC Option only,

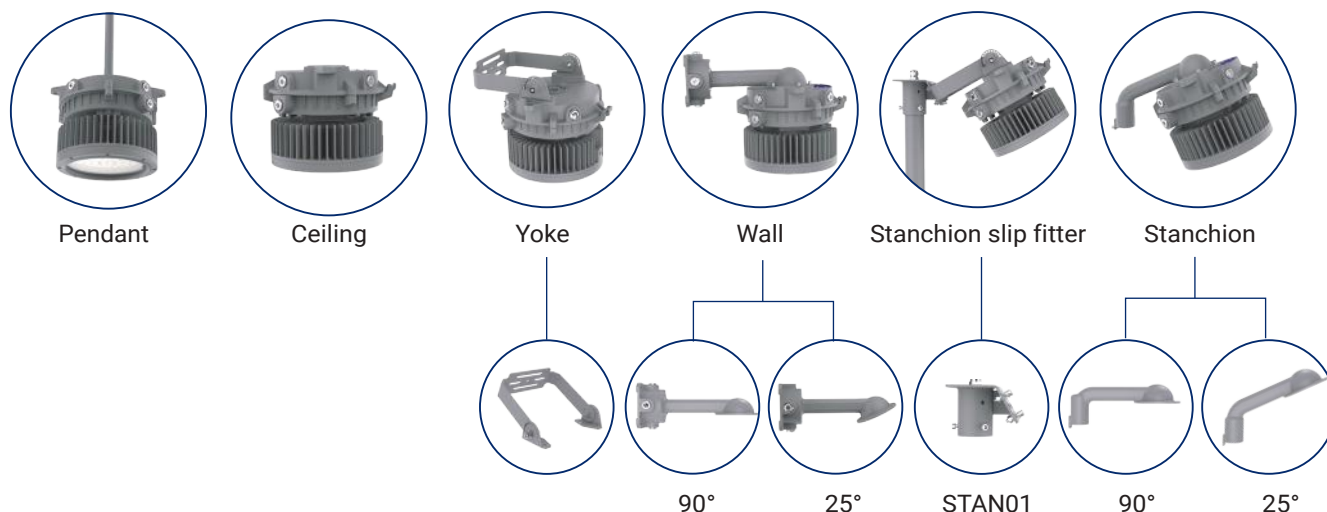
\*\* For mounting options: Stanchion / WALL, accessories ordered separately

\*\*\* RDX-YOKE Pre-installed.

\*\*\*\* JB01: 1.5 inch (1.9 inch OD) and 2 inch (2-3/8 inch OD) NPT Threaded Slip-Fit Junction Box,  
JB02-P: 1.5 inch (1.9 inch OD) and 2 inch (2-3/8 inch OD) NPT Threaded Slip-Fit Junction Box + Sensor (120V),  
JB03-P: 1.5 inch (1.9 inch OD) and 2 inch (2-3/8 inch OD) NPT Threaded Slip-Fit Junction Box + Sensor (208-277V),  
JB04: 1.5 inch (1.9 inch OD) and 2 inch (2-3/8 inch OD) Non-Threaded Slip-Fit Junction Box,  
JB05-P: 1.5 inch (1.9 inch OD) and 2 inch (2-3/8 inch OD) Non-Threaded Slip-Fit Junction Box + Sensor (120V),  
JB06-P: 1.5 inch (1.9 inch OD) and 2 inch (2-3/8 inch OD) Non-Threaded Slip-Fit Junction Box + Sensor (208-277V)  
【JB01,JB02-P,JB03-P,JB04,JB05-P,JB06-P For luminaires marked for Class I, Division 2(H3)】

\*\*\*\* 120V AC only for JB02-P and JB05-P; 208-277V AC only for JB03-P and JB06-P.

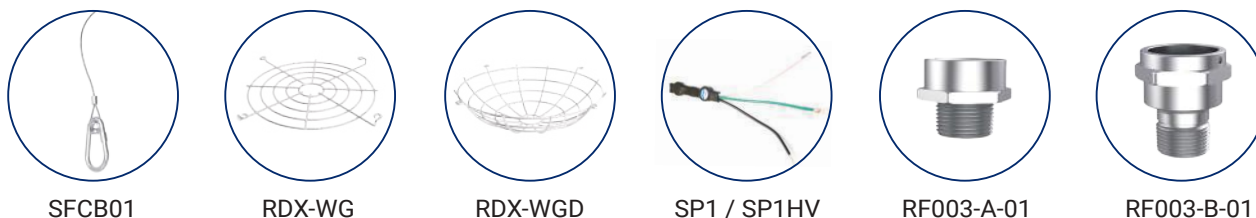
## MOUNTING ACCESSORIES



Mounting Method	PN	Description	MPN Code
Yoke	RDX-YOKE	Yoke Mount, SUS304, Powder-Coated Grey RAL 7037	201010095
Wall	RDX-WL90 **	Wall Mount, 90 Degrees, Powder-Coated Grey RAL 7037	309050252
	WL2502 **	Wall Mount, 25 Degrees, Powder-Coated Grey RAL 7037	309050317
Stanchion slip fitter (Straight Pole)	STAN01 **	Slip-Fit Stanchion Mount Kit for 2 inch Diameter (2-3/8 inch OD, 60mm OD) Poles, Non-Threaded, SUS304, Powder-Coated Grey RAL 7037	309050300
Stanchion	RDX-SN2501 **	Stanchion Mount 25 Degree, NPT1-1/2	309050246
	RDX-SN2502 **	Stanchion Mount 25 Degree, NPT1-1/4	309050244
	RDX-SN9001 **	Stanchion Mount 90 Degree, NPT1-1/2	309050250
	RDX-SN9002 **	Stanchion Mount 90 Degree, NPT1-1/4	309050248

\*\* Packed separately

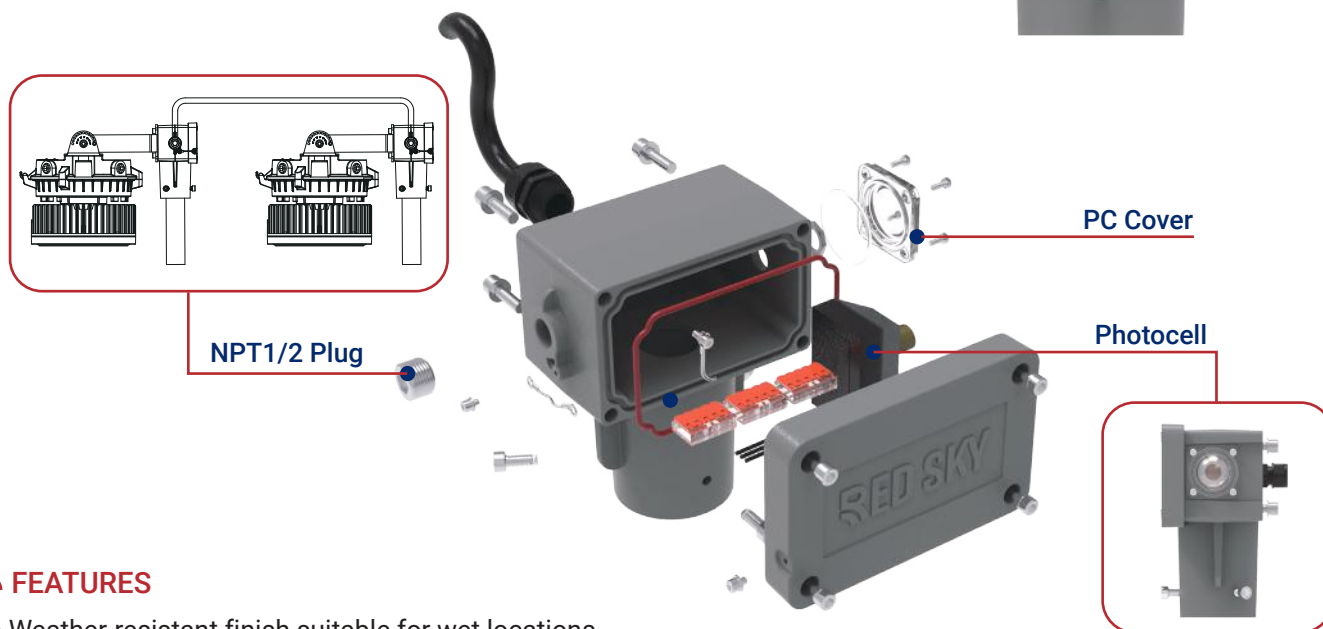
## OTHER ACCESSORIES



PN	Description	MPN Code
SFCB01	Safety Cable Kit, SS304	106060018
RDX-WG	Wire Guard for Flat Glass Lens	310010110
RDX-WGD	Wire Guard for Drop Glass Lens	310010111
SP1	10kV Surge Protector, 120-277V	309050060
SP1HV	10kV Surge Protector, 347-480V	309050061
RF003-A-01	SUS304, 1 inch to 3/4 inch NPT Reducer for Pendant	309050400
RF003-B-01	SUS304, 1 inch to 3/4 inch NPT Reducer for Yoke & Ceiling & Wall	309050401

# SLIP-FIT JUNCTION BOX

The **Junction Box** is a multi-piece assembly featuring a copper-free, cast-aluminum housing, front cover, and cable gland. The design accommodates both stanchion installation and other mounting options. It is compatible with 2" (2 3/8" OD) and 1.5" (1.9" OD) poles, both NPT-threaded and non-threaded.

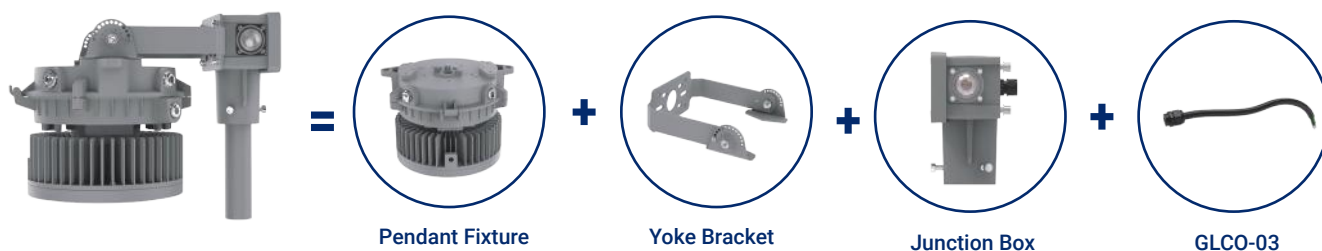


## FEATURES

- Weather-resistant finish suitable for wet locations and marine environments
- WAGO 211 lever connectors (5-pole, UL/CSA, 18-12 AWG) for easy, hassle-free wiring
- Wiring access cover with captive screws and a rear hub featuring NPT 1/2" threads for daisy-chain wiring
- Optional C1D2 Photocell Sensor built-in
- Ambient temperature range: -45°C to +65°C (-49°F to 149°F)
- Shock and vibration-resistant design

## CERTIFICATIONS & RATINGS

UL1598  
 UL1598A  
 CSA C22.2 NO. 250.0  
 UL 1598 Wet Locations  
 UL 1598A Marine Outside Type (Salt Water)  
 IP66  
 IK10  
 Salt Spray 720 hrs (ISO 9227)





## **REPLACEMENT PARTS (ORDERED SEPARATELY)**

Part Number	Description	MPN Code
RDX-80-100-277-Driver	Replacement Driver Kit for RDX-80-100-277 Fixtures	303010034
RDX-120-100-277-Driver	Replacement Driver Kit for RDX-120-100-277 Fixtures	303010035
RDX-150-100-277-Driver	Replacement Driver Kit for RDX-150-100-277 Fixtures	303010036
RDX-200-100-277-Driver	Replacement Driver Kit for RDX-200-100-277 Fixtures	303010037
RDX-80-347-480-Driver	Replacement Driver Kit for RDX-80-347-480 Fixtures	303010038
RDX-120-347-480-Driver	Replacement Driver Kit for RDX-120-347-480 Fixtures	303010039
RDX-150-347-480-Driver	Replacement Driver Kit for RDX-150-347-480 Fixtures	303010040
RDX-200-347-480-Driver	Replacement Driver Kit for RDX-200-347-480 Fixtures	303010041
CG003-A-01	Replacement Clear Glass Lens for RDX	303030007
DG003-A-01	Replacement Diffuse Glass Lens for RDX	303030008
DLG003-A-01	Replacement Drop Glass Lens for RDX	303030009
CP003-A-01	Replacement Clear PC Lens for RDX	303030010
DP003-A-01	Replacement Diffuse PC Lens for RDX	303030011

# LUMEN TABLE

Part Number	Wattage (W)	CCT	Beam	Lens	Lumen Output (Lm)	Efficiency (Lm/W)
<b>Voltage 120-277VAC</b>						
RDX-80-100-277-5K-T5-H2-CG-GRY-PDCG	80	5000K	Type V	Clear Glass	12,720	159
RDX-80-100-277-5K-T5-H2-DG-GRY-PDCG	80	5000K	Type V	Diffuse Glass	11,280	141
RDX-80-100-277-5K-T5-H2-CP-GRY-PDCG	80	5000K	Type V	Clear PC	12,320	154
RDX-80-100-277-5K-T5-H2-DP-GRY-PDCG	80	5000K	Type V	Diffuse PC	8,880	111
RDX-80-100-277-5K-T5-H2-DLG-GRY-PDCG	80	5000K	Type V	Drop Lens Glass	12,400	155
RDX-120-100-277-5K-T5-H2-CG-GRY-PDCG	120	5000K	Type V	Clear Glass	19,320	161
RDX-120-100-277-5K-T5-H2-DG-GRY-PDCG	120	5000K	Type V	Diffuse Glass	17,040	142
RDX-120-100-277-5K-T5-H2-CP-GRY-PDCG	120	5000K	Type V	Clear PC	18,600	152
RDX-120-100-277-5K-T5-H2-DP-GRY-PDCG	120	5000K	Type V	Diffuse PC	13,320	110
RDX-120-100-277-5K-T5-H2-DLG-GRY-PDCG	120	5000K	Type V	Drop Lens Glass	18,720	156
RDX-150-100-277-5K-T5-H2-CG-GRY-PDCG	150	5000K	Type V	Clear Glass	23,850	159
RDX-150-100-277-5K-T5-H2-DG-GRY-PDCG	150	5000K	Type V	Diffuse Glass	21,150	141
RDX-150-100-277-5K-T5-H2-CP-GRY-PDCG	150	5000K	Type V	Clear PC	22,800	152
RDX-150-100-277-5K-T5-H2-DP-GRY-PDCG	150	5000K	Type V	Diffuse PC	16,200	108
RDX-150-100-277-5K-T5-H2-DLG-GRY-PDCG	150	5000K	Type V	Drop Lens Glass	22,950	153
RDX-200-100-277-5K-T5-H2-CG-GRY-PDCG	200	5000K	Type V	Clear Glass	29,600	148
RDX-200-100-277-5K-T5-H2-DG-GRY-PDCG	200	5000K	Type V	Diffuse Glass	26,000	130
RDX-200-100-277-5K-T5-H2-CP-GRY-PDCG	200	5000K	Type V	Clear PC	28,400	142
RDX-200-100-277-5K-T5-H2-DP-GRY-PDCG	200	5000K	Type V	Diffuse PC	19,800	99
RDX-200-100-277-5K-T5-H2-DLG-GRY-PDCG	200	5000K	Type V	Drop Lens Glass	28,400	142
<b>Voltage 347-480VAC</b>						
RDX-80-347-480-5K-T5-H2-CG-GRY-PDCG	80	5000K	Type V	Clear Glass	12,800	161
RDX-80-347-480-5K-T5-H2-DG-GRY-PDCG	80	5000K	Type V	Diffuse Glass	11,440	143
RDX-80-347-480-5K-T5-H2-CP-GRY-PDCG	80	5000K	Type V	Clear PC	12,320	154
RDX-80-347-480-5K-T5-H2-DP-GRY-PDCG	80	5000K	Type V	Diffuse PC	8,880	111
RDX-80-347-480-5K-T5-H2-DLG-GRY-PDCG	80	5000K	Type V	Drop Lens Glass	12,560	157
RDX-120-347-480-5K-T5-H2-CG-GRY-PDCG	120	5000K	Type V	Clear Glass	18,240	152
RDX-120-347-480-5K-T5-H2-DG-GRY-PDCG	120	5000K	Type V	Diffuse Glass	17,040	142
RDX-120-347-480-5K-T5-H2-CP-GRY-PDCG	120	5000K	Type V	Clear PC	18,417	110
RDX-120-347-480-5K-T5-H2-DP-GRY-PDCG	120	5000K	Type V	Diffuse PC	13,260	154
RDX-120-347-480-5K-T5-H2-DLG-GRY-PDCG	120	5000K	Type V	Drop Lens Glass	19,080	159
RDX-150-347-480-5K-T5-H2-CG-GRY-PDCG	150	5000K	Type V	Clear Glass	23,700	158
RDX-150-347-480-5K-T5-H2-DG-GRY-PDCG	150	5000K	Type V	Diffuse Glass	21,000	140
RDX-150-347-480-5K-T5-H2-CP-GRY-PDCG	150	5000K	Type V	Clear PC	22,800	152
RDX-150-347-480-5K-T5-H2-DP-GRY-PDCG	150	5000K	Type V	Diffuse PC	16,200	108
RDX-150-347-480-5K-T5-H2-DLG-GRY-PDCG	150	5000K	Type V	Drop Lens Glass	22,800	152
RDX-200-347-480-5K-T5-H2-CG-GRY-PDCG	200	5000K	Type V	Clear Glass	31,200	156
RDX-200-347-480-5K-T5-H2-DG-GRY-PDCG	200	5000K	Type V	Diffuse Glass	27,400	137
RDX-200-347-480-5K-T5-H2-CP-GRY-PDCG	200	5000K	Type V	Clear PC	29,800	149
RDX-200-347-480-5K-T5-H2-DP-GRY-PDCG	200	5000K	Type V	Diffuse PC	21,000	105
RDX-200-347-480-5K-T5-H2-DLG-GRY-PDCG	200	5000K	Type V	Drop Lens Glass	30,000	150

For additional information, please contact your sales representative.

## A DIRECT RETROFIT FROM HID TO LED

The RDX series LED is easy to retrofit in the same configuration as your existing HID luminaires. For example, a 200-watt Round Max (RDX-200) delivers virtually the same illumination as its equivalent 750 watt Metal Halide luminaire while providing 80% reduction in energy costs and up to 145,000 hours of continuous operation.





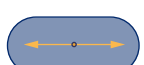


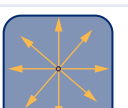
MODELS	Lumen Output (Lm)	MH Equivalent (W)	HPS Equivalent (W)
RDX-80	12,000	250	310
RDX-120	18,000	400	400
RDX-150	22,500	450	400
RDX-200	30,000	750	600

## THE RIGHT BEAM PATTERN FOR YOUR APPLICATION

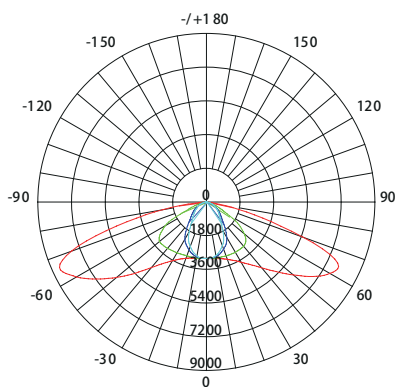
RSL optic package is engineered to deliver maximum footcandles efficiently where you need them, without wasted light or overspill.

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.

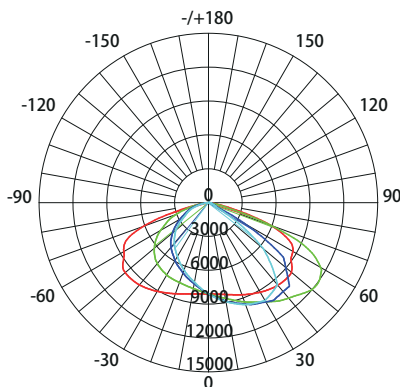
Simply fill out the form (<https://www.redskylighting.com/lighting-design>) with a few key details, request a layout, and we'll bring your ideas to life within 2-5 business days.

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.	

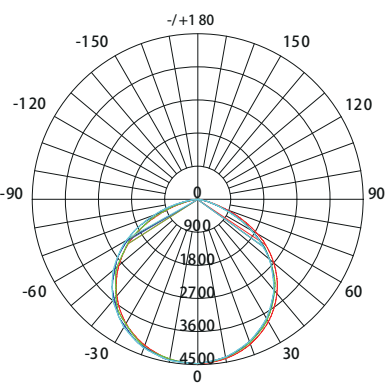




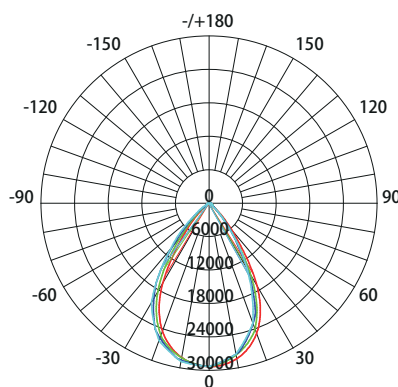
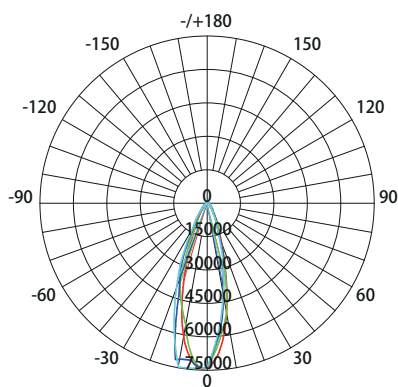
Type I



Type III

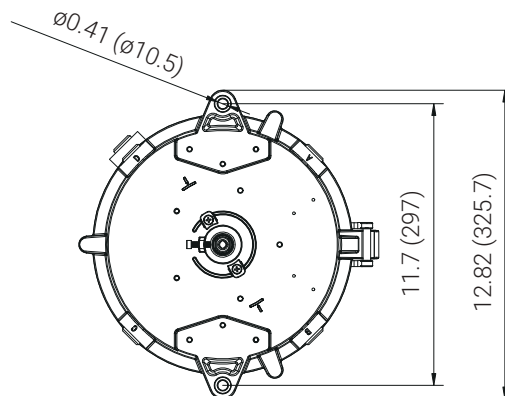
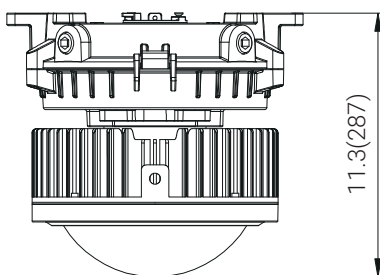
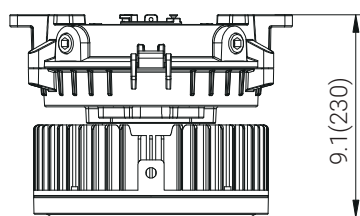


Type V



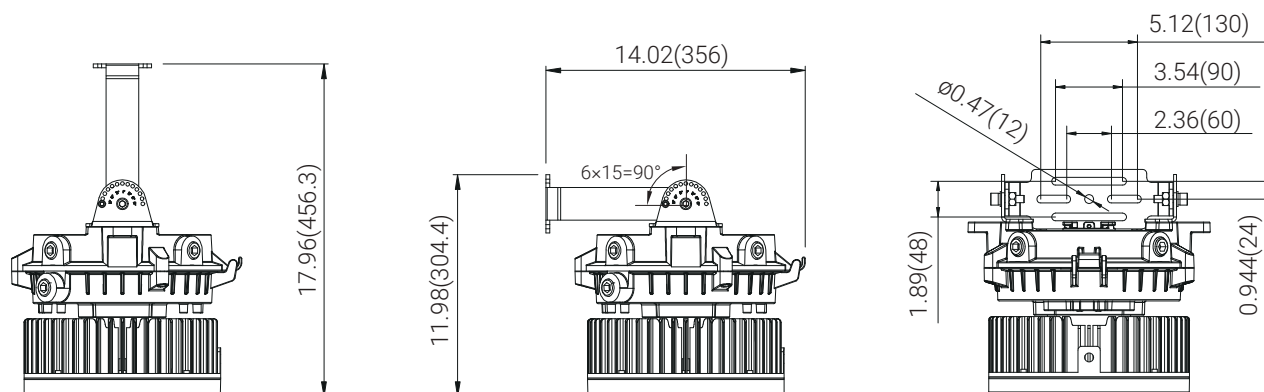
## DIMENSIONS

unit: in(mm)

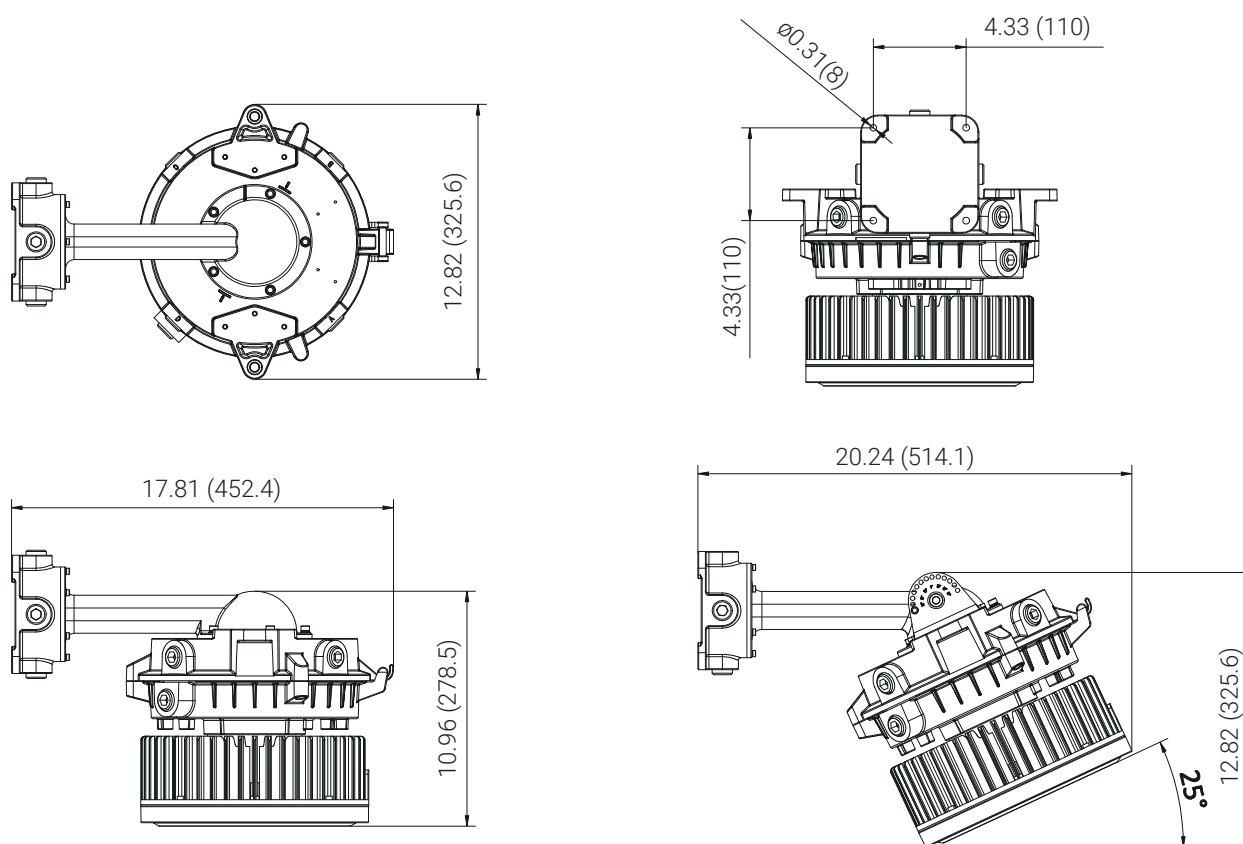


Pendant/Ceiling

unit: in(mm)

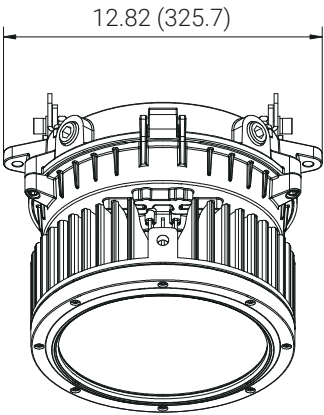
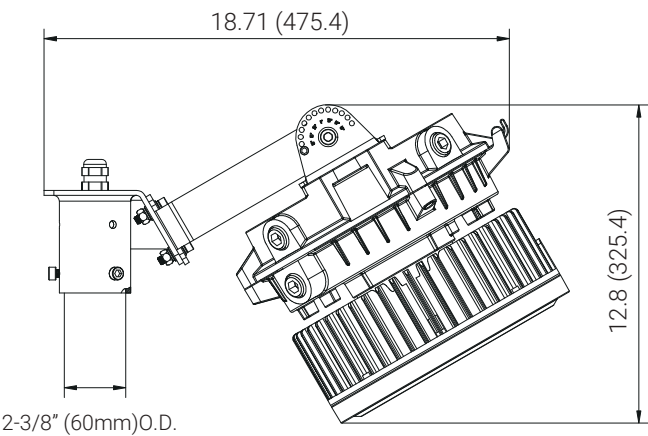


Yoke

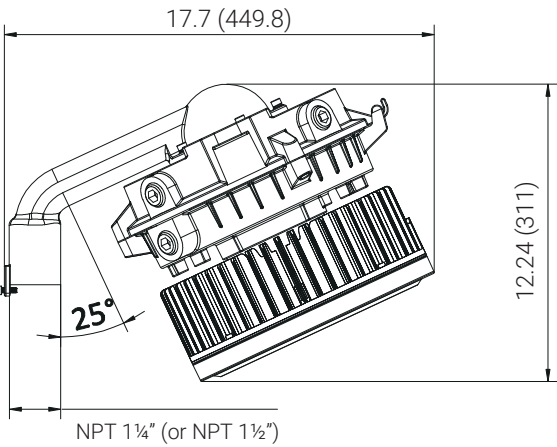
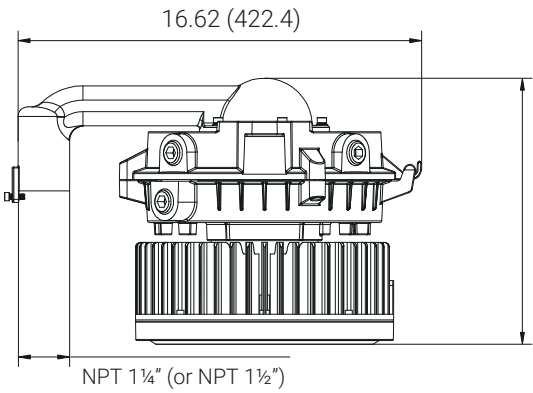
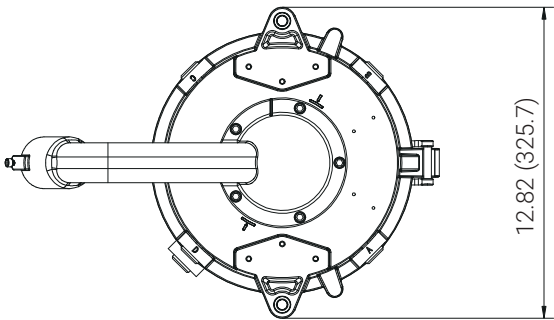


Wall

unit: in(mm)



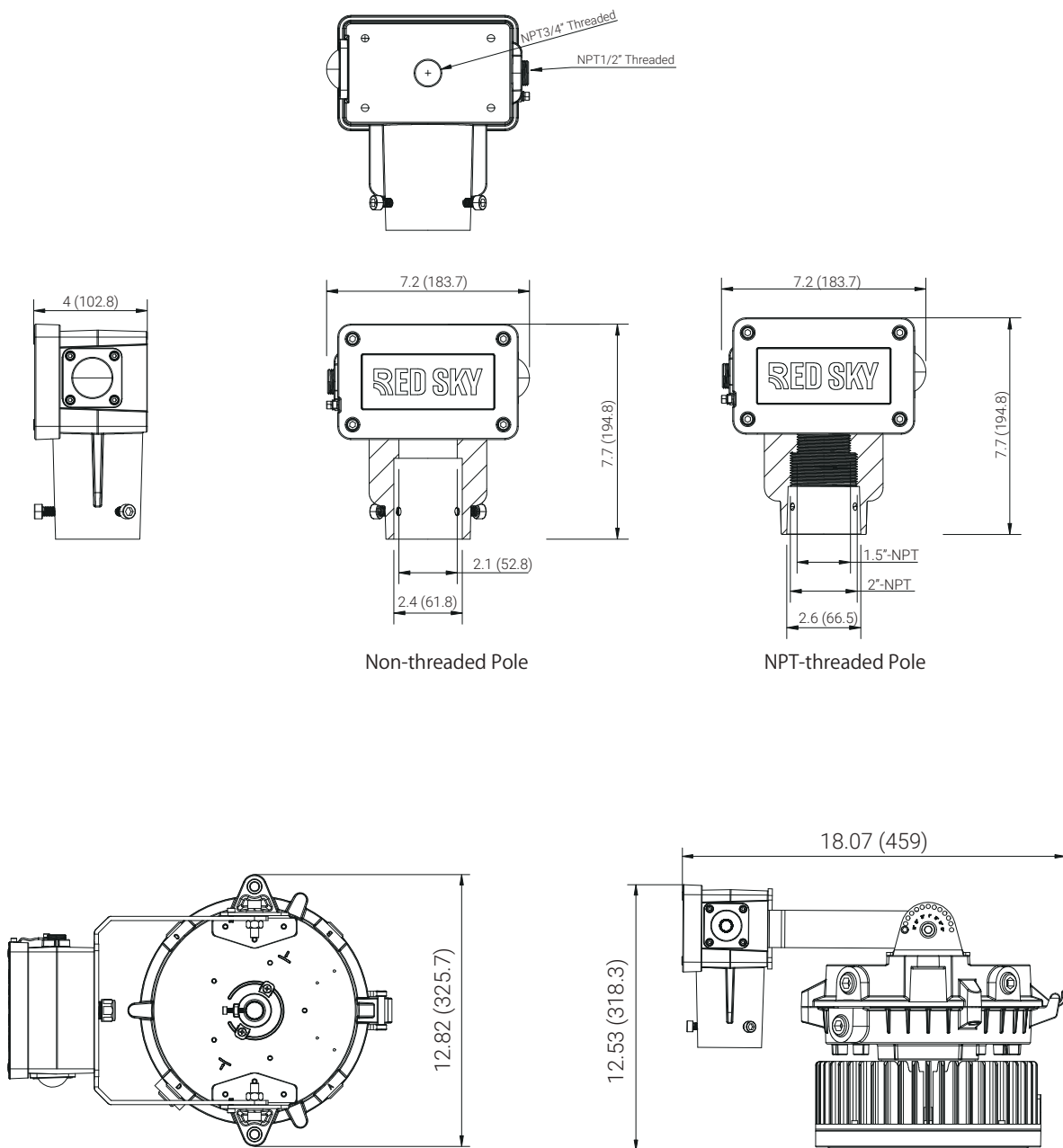
Stanchion slip fitter  
(Straight Pole)



Stanchion



unit: in(mm)



Non-threaded Pole

NPT-threaded Pole

Slip-fit Junction Box

# HAZARDOUS LOCATION LIGHTING BASICS

## Atmosphere Groups

## Temperature Classification

Substance	Hazard Class	Division Groups	Zone Groups	Max. Surface Temperatures	NEC®500 CEC®	NEC®500/IEC-Group II
Acetylene	Class I Flammable Gases	Group A	IIC	450°C(842°F)	T1	T1
Hydrogen		Group B	IIC	300°C(572°F)	T2	
Ethylene		Group C	IIB	280°C(536°F)	T2A	T2
Propane		Group D	IIA	260°C(500°F)	T2B	
Methane		Group D	IIA <sup>2</sup>	230°C(446°F)	T2C	
Combustible Metal Dusts	Class II Combustible Dusts	Group E <sup>1</sup>	IIIC <sup>3</sup>	215°C(419°F)	T2D	
Combustible Carbonaceous Dust		Group F	IIIB <sup>3</sup>	200°C(392°F)	T3	T3
Combustible Dusts not in Group E or F (Flour, Grain, Wood, Plastics, Chemicals)		Group G	IIIB <sup>3</sup>	180°C(256°F)	T3A	
				165°C(329°F)	T3B	
				160°C(320°F)	T3C	
Combustible Fibers and Flyings	Class III Fibers and Flyings	Not Applicable	IIIA <sup>3</sup>	135°C(275°F)	T4	T4
				120°C(248°F)	T4A	
				100°C(212°F)	T5	T5
				85°C(185°F)	T6	T6

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.

## 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

RED SKY LIGHTING LLC  
9370 Pittsburgh Ave  
Rancho Cucamonga, CA 91730, USA

1(262) 456-5002  
[contact@redskylighting.com](mailto:contact@redskylighting.com)  
[www.redskylighting.com](http://www.redskylighting.com)

**RED SKY**  
SERIOUSLY SAFE LIGHTS™