

ROUND MAX SERIES

LED LIGHTING FOR HAZARDOUS
AREAS HIGHBAY



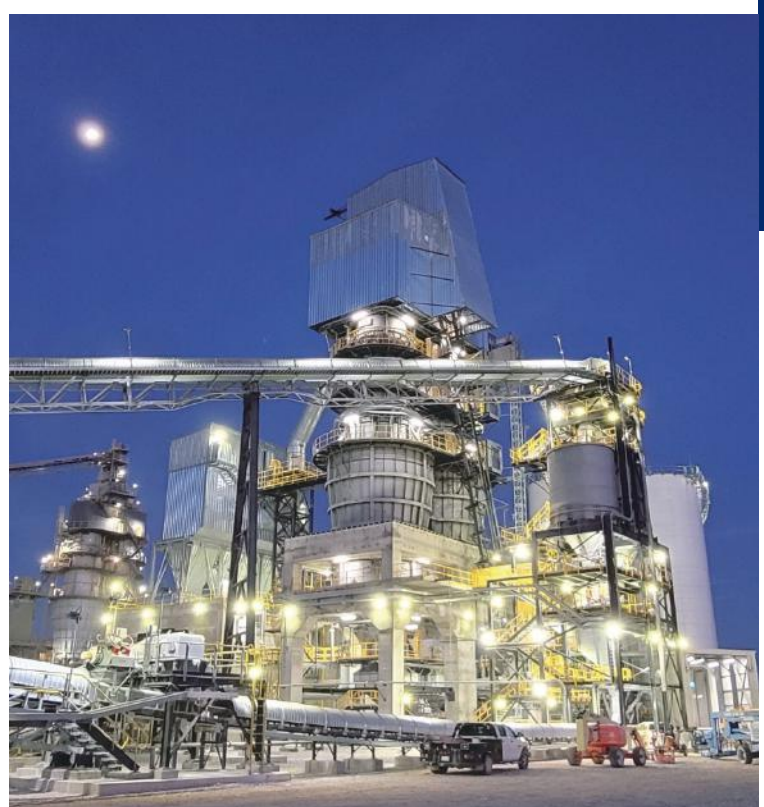
Reliable. Durable. Efficient.
12,000 to 26,000 lumen models

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 26,000 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

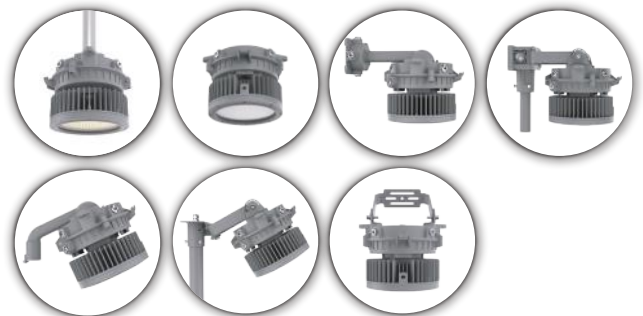
FEATURES



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 26,000Lm)
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 (ASTM B117)
	NEMA 4X

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 to confirm qualification.

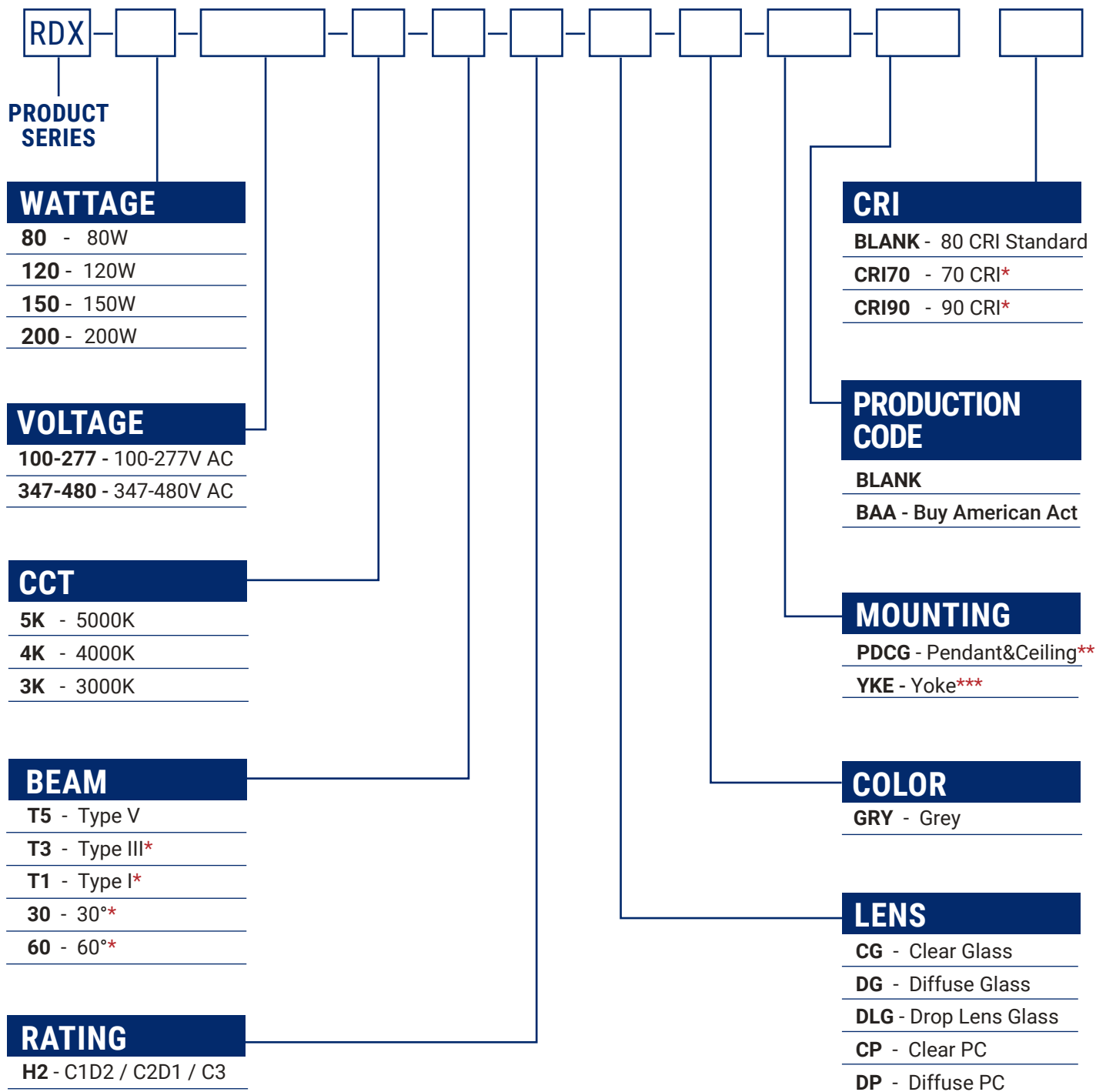
TECHNICAL PARAMETERS

Specification	RDX-80	RDX-120	RDX-150	RDX-200
Electrical Parameters				
Power	80W	120W	150W	200W
Rated Input Current(120V 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	10KV			
Supply Wire	12-18AWG , Rated 90°C			
Warranty	LEDs: 10 years, Driver: 7 years			
Optical Parameters				
Lumen Output*	12,157Lm	17,388Lm	21,771Lm	26,076Lm
Lumen Efficacy*	148Lm/W			
Available Beam Angle	T1/T3/T5/30°/60°			
Correlated Color Temperature (CCT)	3000K/4000K/5000K			
Color Rendering Index (CRI)	80 CRI			
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, 80 CRI and Clear glass, varies to different spec.
CRI 70 & CRI 90 optional, DLC available with CRI 70 only.

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, CRI 90 option – expect longer lead time.
 DLC available with 70 CRI only. Not all product variations listed on this page are DLC qualified.
 Visit www.designlights.org/search to confirm qualification.

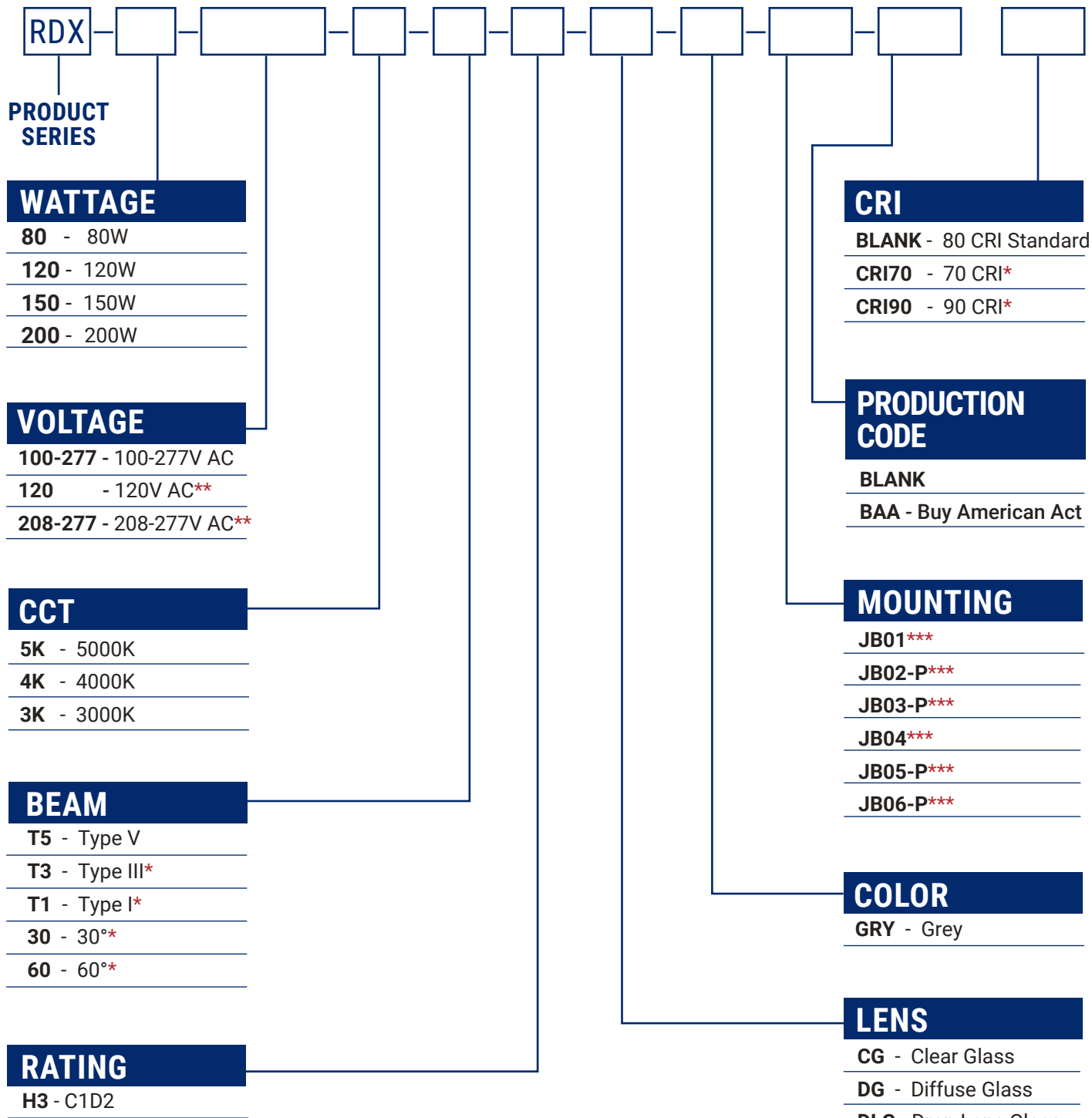
** No accessory required for Pendant & Ceiling Mount

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

*** RDX-YOKE Pre-installed.

ORDERING INFORMATION (JUNCTION BOX MODELS)

EXAMPLE: RDX-80-120-5K-T5-H3-CG-GRY-JB02-P-BAA

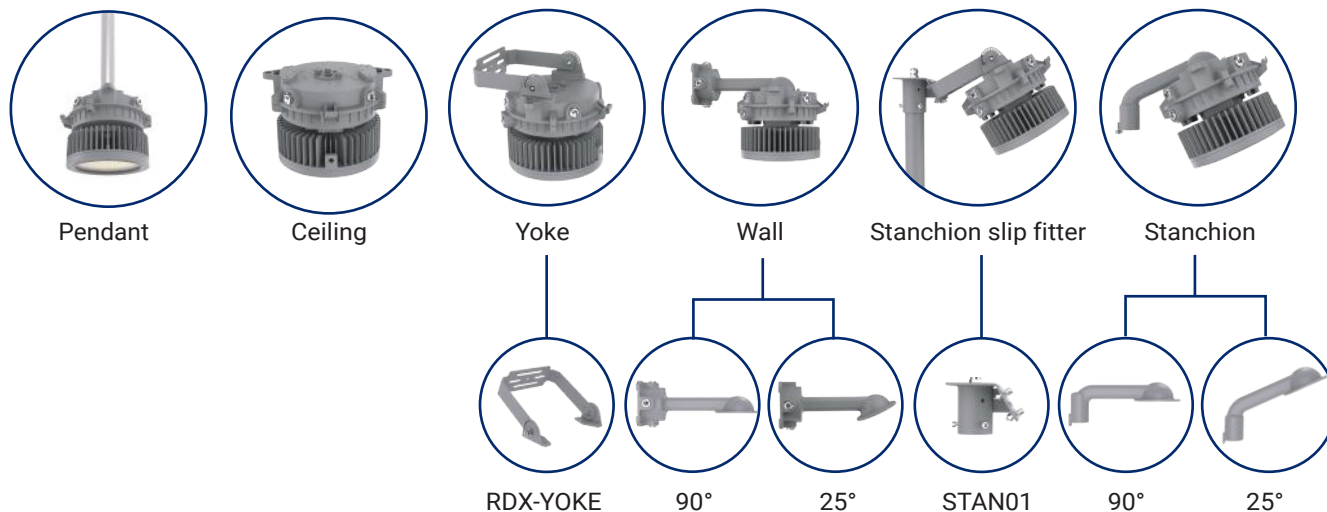


* T1, T3, 30°, 60° Optic available with Clear Glass and Clear PC Option only, CRI 90 option – expect longer lead time.
 DLC available with 70 CRI only. Not all product variations listed on this page are DLC qualified.
 Visit www.designlights.org/search to confirm qualification.

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

*** 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)】

MOUNTING ACCESSORIES

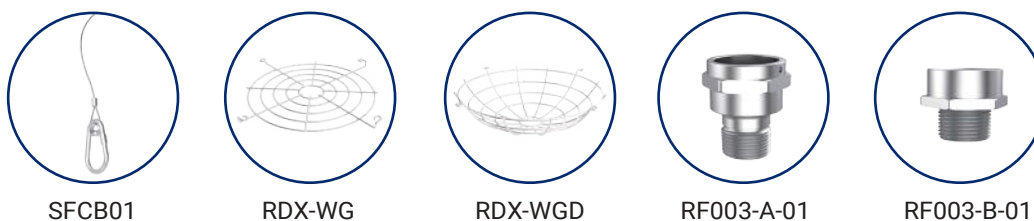


Mounting Method	PN	Description	MPN Code
Yoke	RDX-YOKE	Yoke Mount, SUS304, Powder-Coated Grey RAL 7037	201010095
Wall	RDX-WL90 *	Wall Mount, 90 Degrees, Powder-Coated Grey RAL 7037	309050252
	WL2502 *	Wall Mount, 25 Degrees, Powder-Coated Grey RAL 7037	309050317
Stanchion slip fitter (Straight Pole)	STAN01 **	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

** Packed separately and Requires A Yoke Mount

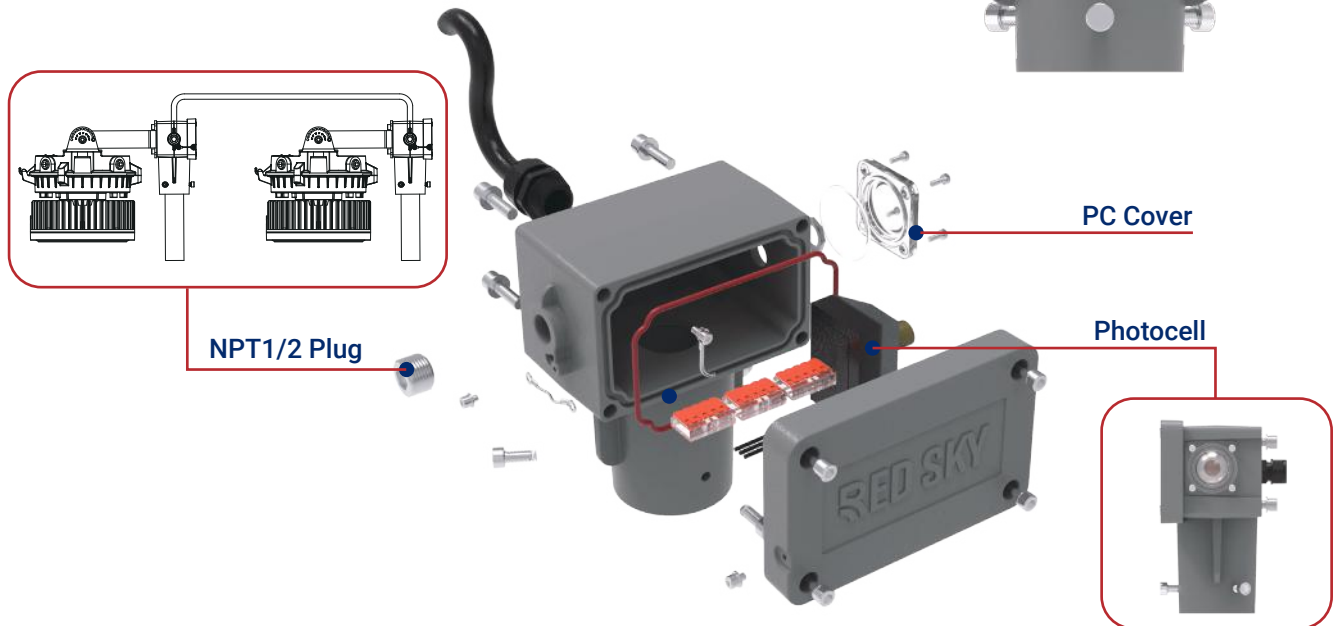
OTHER ACCESSORIES



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
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

UL844
 UL1598
 UL1598A
 CSA C22.2 NO. 250.0
 CSA C22.2 No. 137
 Class I Division 2, Groups A, B, C, D
 UL 1598 Wet Locations
 UL 1598A Marine Outside Type (Salt Water)
 NEMA 3R
 IP66
 IK10
 Salt Spray 720 hrs (ASTM B117)



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
JB01	1.5 inch (1.9 inch OD) and 2 inch (2-3/8 inch OD) NPT Threaded Slip-Fit Junction Box	309050379
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)	309050380
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)	309050381
JB04	1.5 inch (1.9 inch OD) and 2 inch (2-3/8 inch OD) Non-Threaded Slip-Fit Junction Box	309050382
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)	309050383
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)	309050384
JB003-A-01	RDX Custom Bracket Assembly	309050396
GLCO-03	3 ft Cord (SOOW 14 AWG x 3, 105 degrees Celsius, 600V) with Cable Gland	204020003
GLCO-10	10 ft Cord (SOOW 14 AWG x 3, 105 degrees Celsius, 600V) with Cable Gland	204020004

LUMEN TABLE

Part Number	Wattage (W)	CCT	CRI	Beam	Lens	Lumen Output (Lm)	Efficiency (Lm/W)
Voltage 100-277VAC 80 CRI • STANDARD							
RDX-80-100-277-5K-T5-H2-CG-PDCG	80	5000K	80	Type V	Clear Glass	12,157	147
RDX-80-100-277-5K-T5-H2-DG-PDCG	80	5000K	80	Type V	Diffuse Glass	10,627	128
RDX-80-100-277-5K-T5-H2-CP-PDCG	80	5000K	80	Type V	Clear PC	11,547	141
RDX-80-100-277-5K-T5-H2-DP-PDCG	80	5000K	80	Type V	Diffuse PC	9,500	115
RDX-80-100-277-5K-T5-H2-DLG-PDCG	80	5000K	80	Type V	Drop Lens Glass	11,915	144
RDX-120-100-277-5K-T5-H2-CG-PDCG	120	5000K	80	Type V	Clear Glass	17,388	147
RDX-120-100-277-5K-T5-H2-DG-PDCG	120	5000K	80	Type V	Diffuse Glass	15,076	128
RDX-120-100-277-5K-T5-H2-CP-PDCG	120	5000K	80	Type V	Clear PC	16,755	142
RDX-120-100-277-5K-T5-H2-DP-PDCG	120	5000K	80	Type V	Diffuse PC	13,702	116
RDX-120-100-277-5K-T5-H2-DLG-PDCG	120	5000K	80	Type V	Drop Lens Glass	16,893	143
RDX-150-100-277-5K-T5-H2-CG-PDCG	150	5000K	80	Type V	Clear Glass	21,771	148
RDX-150-100-277-5K-T5-H2-DG-PDCG	150	5000K	80	Type V	Diffuse Glass	18,349	124
RDX-150-100-277-5K-T5-H2-CP-PDCG	150	5000K	80	Type V	Clear PC	20,617	139
RDX-150-100-277-5K-T5-H2-DP-PDCG	150	5000K	80	Type V	Diffuse PC	16,766	113
RDX-150-100-277-5K-T5-H2-DLG-PDCG	150	5000K	80	Type V	Drop Lens Glass	20,613	139
RDX-200-100-277-5K-T5-H2-CG-PDCG	200	5000K	80	Type V	Clear Glass	26,076	132
RDX-200-100-277-5K-T5-H2-DG-PDCG	200	5000K	80	Type V	Diffuse Glass	22,305	113
RDX-200-100-277-5K-T5-H2-CP-PDCG	200	5000K	80	Type V	Clear PC	25,818	129
RDX-200-100-277-5K-T5-H2-DP-PDCG	200	5000K	80	Type V	Diffuse PC	21,642	107
RDX-200-100-277-5K-T5-H2-DLG-PDCG	200	5000K	80	Type V	Drop Lens Glass	24,933	127

347–480Vac models deliver the same lumen output as the 100–277Vac models.

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 TABLE

Part Number	Wattage (W)	CCT	CRI	Beam	Lens	Lumen Output (Lm)	Efficiency (Lm/W)
Voltage 100-277VAC 70 CRI							
RDX-80-100-277-5K-T5-H2-CG-PDCG CRI70	80	5000K	70	Type V	Clear Glass	12,720	159
RDX-80-100-277-5K-T5-H2-DG-PDCG CRI70	80	5000K	70	Type V	Diffuse Glass	11,280	141
RDX-80-100-277-5K-T5-H2-CP-PDCG CRI70	80	5000K	70	Type V	Clear PC	12,320	154
RDX-80-100-277-5K-T5-H2-DP-PDCG CRI70	80	5000K	70	Type V	Diffuse PC	10,165	126
RDX-80-100-277-5K-T5-H2-DLG-PDCG CRI70	80	5000K	70	Type V	Drop Lens Glass	12,400	155
RDX-120-100-277-5K-T5-H2-CG-PDCG CRI70	120	5000K	70	Type V	Clear Glass	19,320	161
RDX-120-100-277-5K-T5-H2-DG-PDCG CRI70	120	5000K	70	Type V	Diffuse Glass	17,040	142
RDX-120-100-277-5K-T5-H2-CP-PDCG CRI70	120	5000K	70	Type V	Clear PC	18,417	152
RDX-120-100-277-5K-T5-H2-DP-PDCG CRI70	120	5000K	70	Type V	Diffuse PC	14,661	127
RDX-120-100-277-5K-T5-H2-DLG-PDCG CRI70	120	5000K	70	Type V	Drop Lens Glass	18,720	156
RDX-150-100-277-5K-T5-H2-CG-PDCG CRI70	150	5000K	70	Type V	Clear Glass	23,850	159
RDX-150-100-277-5K-T5-H2-DG-PDCG CRI70	150	5000K	70	Type V	Diffuse Glass	21,150	141
RDX-150-100-277-5K-T5-H2-CP-PDCG CRI70	150	5000K	70	Type V	Clear PC	22,800	152
RDX-150-100-277-5K-T5-H2-DP-PDCG CRI70	150	5000K	70	Type V	Diffuse PC	17,940	124
RDX-150-100-277-5K-T5-H2-DLG-PDCG CRI70	150	5000K	70	Type V	Drop Lens Glass	22,950	153
RDX-200-100-277-5K-T5-H2-CG-PDCG CRI70	200	5000K	70	Type V	Clear Glass	29,600	148
RDX-200-100-277-5K-T5-H2-DG-PDCG CRI70	200	5000K	70	Type V	Diffuse Glass	26,000	130
RDX-200-100-277-5K-T5-H2-CP-PDCG CRI70	200	5000K	70	Type V	Clear PC	28,400	142
RDX-200-100-277-5K-T5-H2-DP-PDCG CRI70	200	5000K	70	Type V	Diffuse PC	23,156	119
RDX-200-100-277-5K-T5-H2-DLG-PDCG CRI70	200	5000K	70	Type V	Drop Lens Glass	28,400	142

347–480Vac models deliver the same lumen output as the 100–277Vac models.

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 TABLE

Part Number	Wattage (W)	CCT	CRI	Beam	Lens	Lumen Output (Lm)	Efficiency (Lm/W)
Voltage 100-277VAC 90 CRI							
RDX-80-100-277-5K-T5-H2-CG-PDCG CRI90	80	5000K	90	Type V	Clear Glass	10,406	126
RDX-80-100-277-5K-T5-H2-DG-PDCG CRI90	80	5000K	90	Type V	Diffuse Glass	9,097	110
RDX-80-100-277-5K-T5-H2-CP-PDCG CRI90	80	5000K	90	Type V	Clear PC	9,884	121
RDX-80-100-277-5K-T5-H2-DP-PDCG CRI90	80	5000K	90	Type V	Diffuse PC	8,132	98
RDX-80-100-277-5K-T5-H2-DLG-PDCG CRI90	80	5000K	90	Type V	Drop Lens Glass	10,199	123
RDX-120-100-277-5K-T5-H2-CG-PDCG CRI90	120	5000K	90	Type V	Clear Glass	14,884	126
RDX-120-100-277-5K-T5-H2-DG-PDCG CRI90	120	5000K	90	Type V	Diffuse Glass	12,905	110
RDX-120-100-277-5K-T5-H2-CP-PDCG CRI90	120	5000K	90	Type V	Clear PC	14,342	122
RDX-120-100-277-5K-T5-H2-DP-PDCG CRI90	120	5000K	90	Type V	Diffuse PC	11,729	99
RDX-120-100-277-5K-T5-H2-DLG-PDCG CRI90	120	5000K	90	Type V	Drop Lens Glass	14,460	122
RDX-150-100-277-5K-T5-H2-CG-PDCG CRI90	150	5000K	90	Type V	Clear Glass	18,636	127
RDX-150-100-277-5K-T5-H2-DG-PDCG CRI90	150	5000K	90	Type V	Diffuse Glass	15,707	106
RDX-150-100-277-5K-T5-H2-CP-PDCG CRI90	150	5000K	90	Type V	Clear PC	17,648	119
RDX-150-100-277-5K-T5-H2-DP-PDCG CRI90	150	5000K	90	Type V	Diffuse PC	14,352	97
RDX-150-100-277-5K-T5-H2-DLG-PDCG CRI90	150	5000K	90	Type V	Drop Lens Glass	17,645	119
RDX-200-100-277-5K-T5-H2-CG-PDCG CRI90	200	5000K	90	Type V	Clear Glass	22,321	113
RDX-200-100-277-5K-T5-H2-DG-PDCG CRI90	200	5000K	90	Type V	Diffuse Glass	19,093	97
RDX-200-100-277-5K-T5-H2-CP-PDCG CRI90	200	5000K	90	Type V	Clear PC	22,100	110
RDX-200-100-277-5K-T5-H2-DP-PDCG CRI90	200	5000K	90	Type V	Diffuse PC	18,526	92
RDX-200-100-277-5K-T5-H2-DLG-PDCG CRI90	200	5000K	90	Type V	Drop Lens Glass	21,343	109

347–480Vac models deliver the same lumen output as the 100–277Vac models.

This table lists only selected lumen packages. For additional model parameters, please contact our sales team.

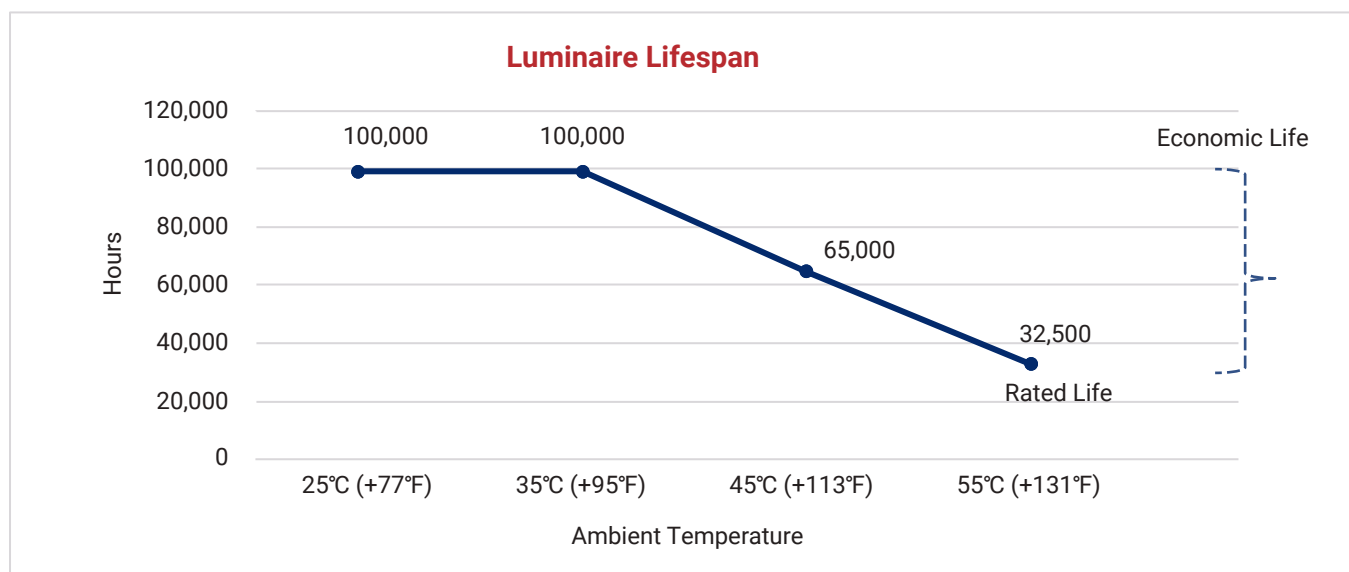
Note: LXX# = nominal lumens. Verify lumen package before ordering.

LUMEN MAINTENANCE

Hours Ambient	0	15,000	30,000	45,000	60,000	75,000	90,000	100,000	150,000
25°C	100%	96%	92%	88%	84%	80%	76%	74%	63%
35°C	100%	96%	92%	88%	84%	80%	76%	74%	63%
45°C	100%	96%	92%	88%	84%	80%	76%	74%	63%
55°C	100%	96%	91%	87%	83%	79%	75%	73%	62%

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)	100,000	11	23
45°C (+113°F)	65,000	7	15
55°C (+131°F)	32,500	4	7



Information shown for reference only and may vary by configuration.

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.


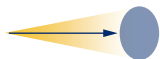





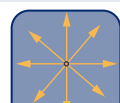
MODELS	Lumen Output (Lm)	MH Equivalent (W)	HPS Equivalent (W)
RDX-80	12,157	250	310
RDX-120	17,388	400	400
RDX-150	21,771	450	400
RDX-200	26,076	750	600

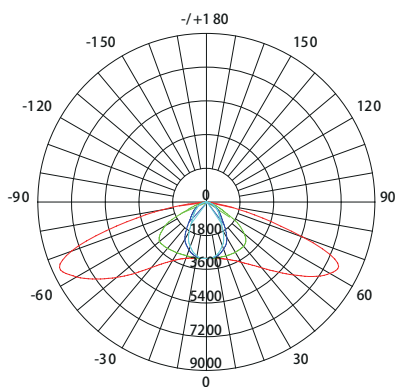
THE RIGHT BEAM PATTERN FOR YOUR APPLICATION

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

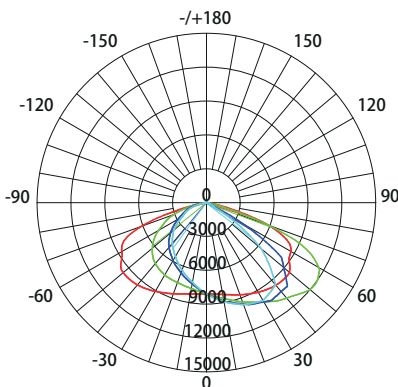
RSL offers complimentary lighting design services for our products using industry-leading AGI32 software, tailored for projects of all sizes in harsh and hazardous locations. We assist you in determining the number of fixtures needed, the types of lights to use, their optimal placement, and how to maximize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

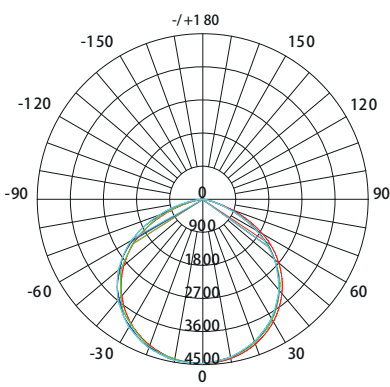
Beam	NEMA/IESNA Type	Beam Description	Beam Projection Distance
30°	NEMA 3	Medium Narrow	
60°	NEMA 4	Medium	
90°	NEMA 5	Medium Wide	
120°	NEMA 6	Wide	
T1	Type I	Asymmetric distributions, well suited for narrow areas, such as Conveyor belts, Aisleways, Catwalks, Loading docks and Tunnels.	
T2	Type II	Asymmetric 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.	



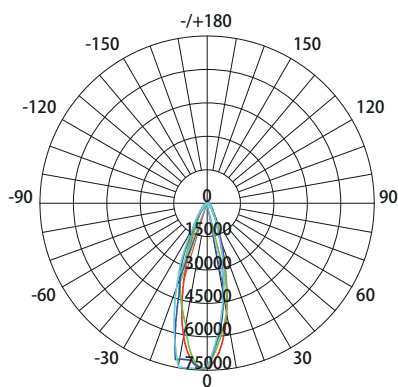
Type I



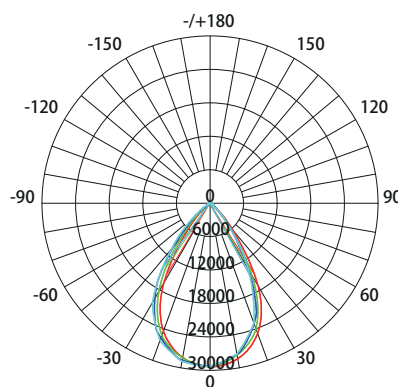
Type III



Type V



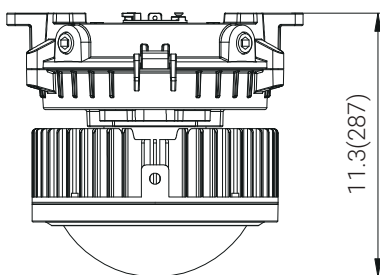
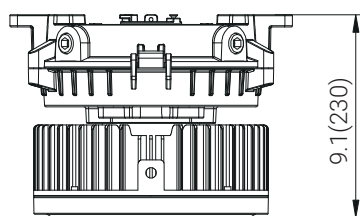
30°



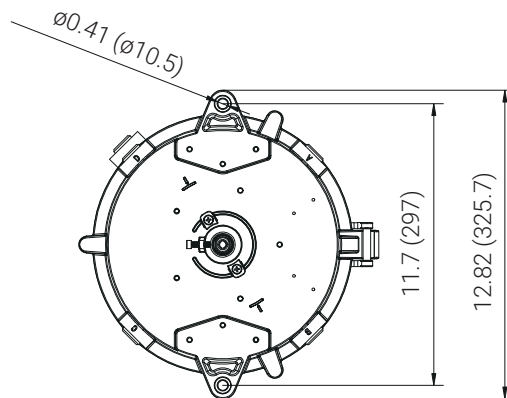
60°

DIMENSIONS

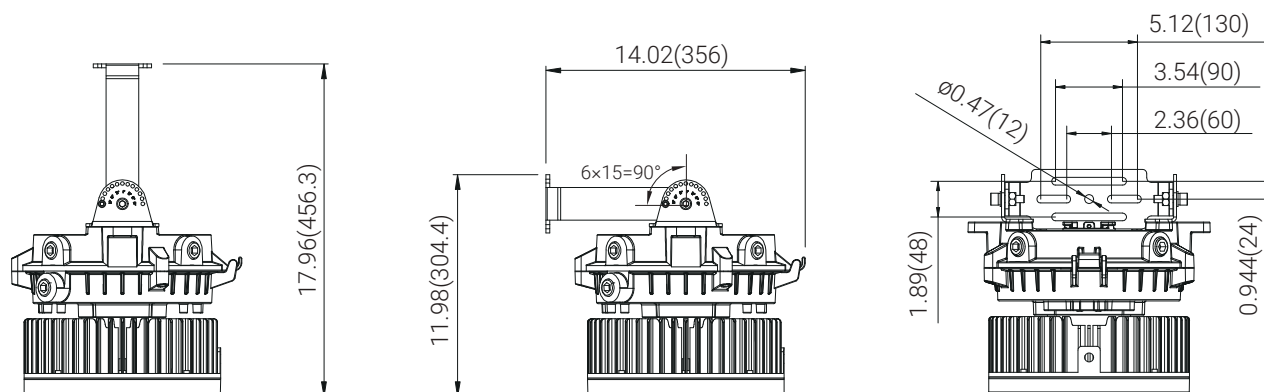
unit: in(mm)



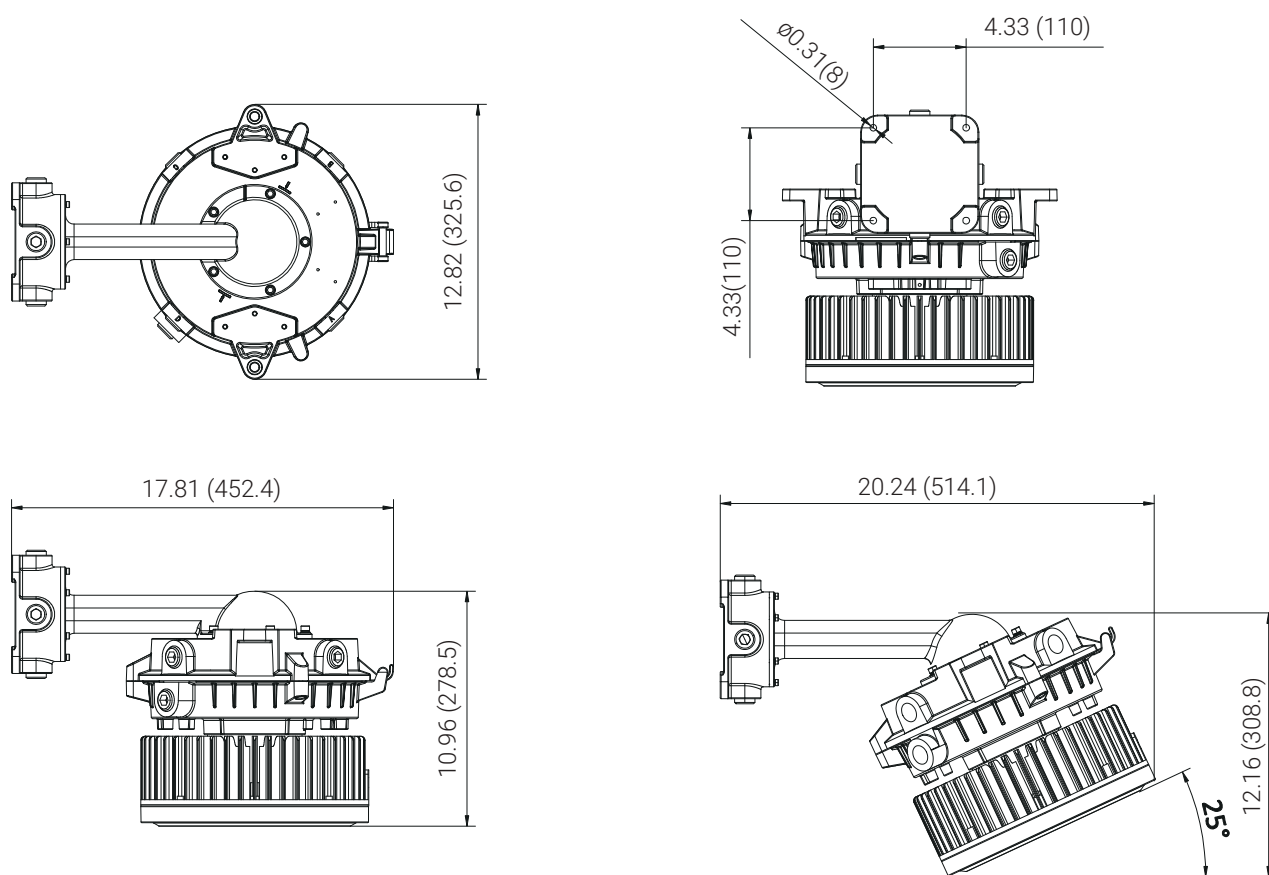
Pendant/Ceiling



unit: in(mm)

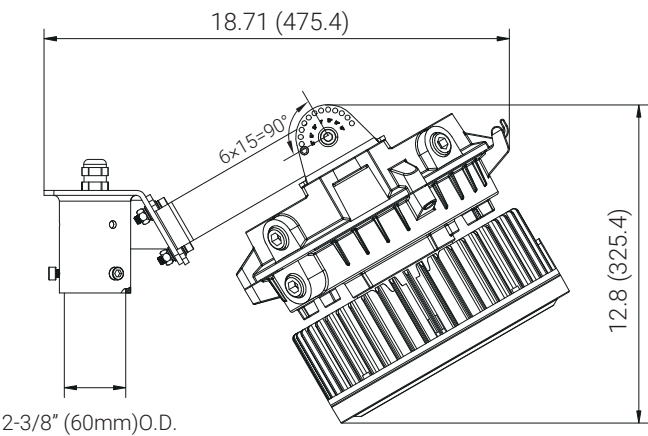


Yoke

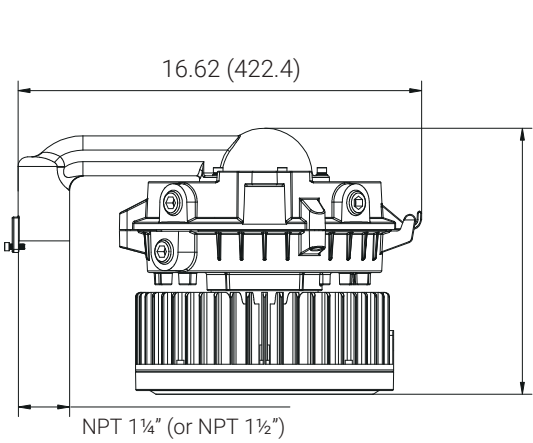
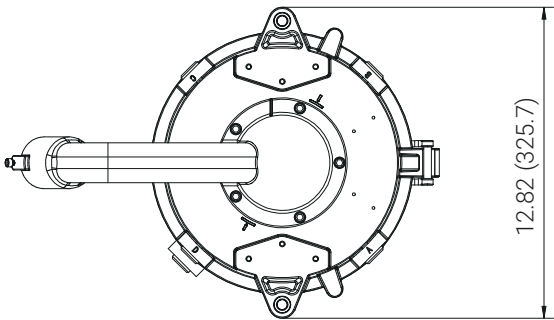


Wall

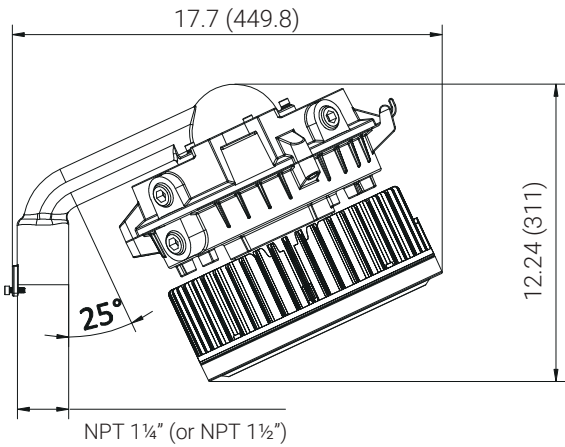
unit: in(mm)



Stanchion slip fitter
(Straight Pole)



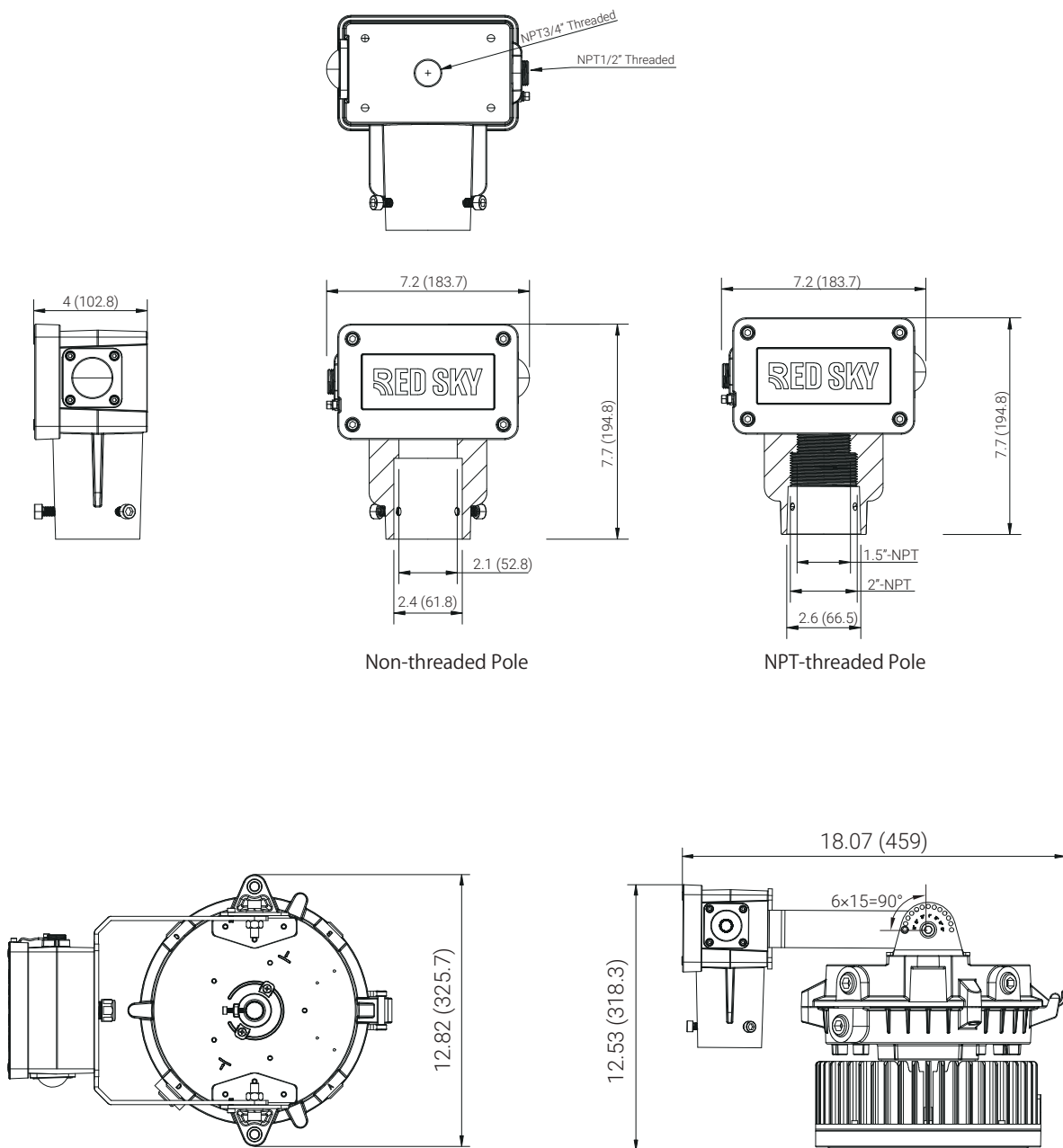
10.96 (278.5)



NPT 1 1/4" (or NPT 1 1/2")

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 ²	230°C(446°F)	T2C	
Combustible Metal Dusts	Class II Combustible Dusts	Group E ¹	IIIC ³	215°C(419°F)	T2D	
Combustible Carbonaceous Dust		Group F	IIIB ³	200°C(392°F)	T3	T3
Combustible Dusts not in Group E or F (Flour, Grain, Wood, Plastics, Chemicals)		Group G	IIIB ³	180°C(256°F)	T3A	
Combustible Fibers and Flyings				165°C(329°F)	T3B	
	Class III Fibers and Flyings	Not Applicable	IIIA ³	160°C(320°F)	T3C	
Note 1: Group E is applicable to Class II, Division 1 only.				135°C(275°F)	T4	T4
Note 2: Methane is a Group IIA Gas for non-mining applications.				120°C(248°F)	T4A	
Note 3: Group IIIA, IIIB and IIIC have not been adopted by the Canadian Electrical Code.				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



+1 (262) 456-5002
contact@redskylighting.com
www.redskylighting.com

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

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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