

RETROFIT WITH ROUND MAX SERIES

HAZARDOUS LOCATION



ADAPTERS FOR:

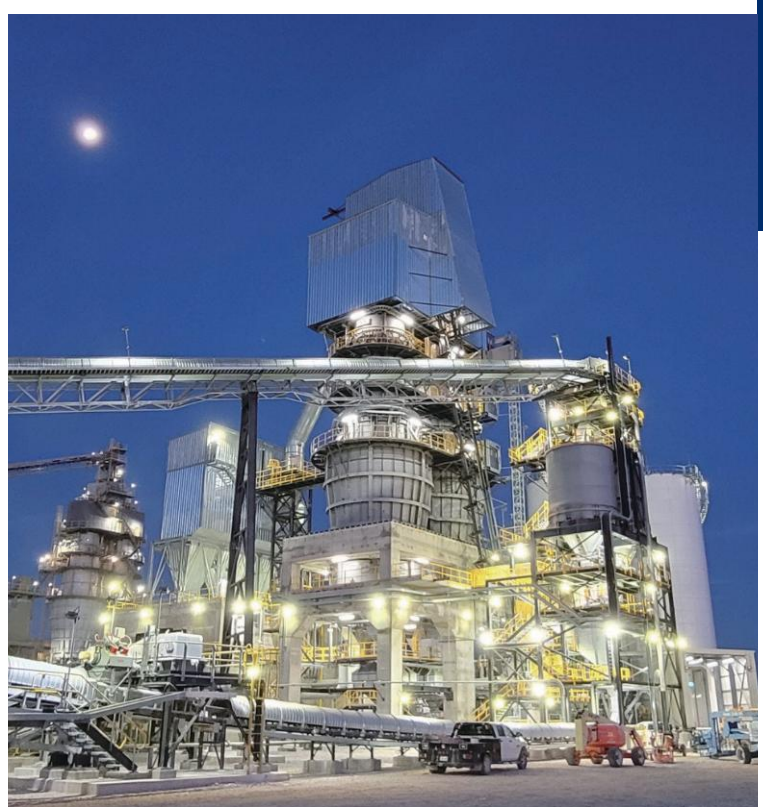
Champ VMV & VMVL
Appleton Mercmaster II
Appleton Mercmaster III

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



-  Ideal for harsh and hazardous applications
-  One-person installation for quick, hassle-free upgrades from existing HID's to LEDs
-  Smart design allows for easy conversion to Crouse-Hinds Champ VMV, Appleton Mercmaster II,III
-  Easily convert wall, ceiling and stanchion mounts without accessing conduit system
-  Plug & Play: Fixture ships with WAGO connectors, wires, and adapter for quick, hassle-free installation.

RATINGS

Class I Division 2, Group A, B, C, D
 Class II Division 2, Group F, G
 Class I, Zone 2, Group IIC
 Simultaneous Presence
 UL 1598 Wet Locations
 UL 1598A Marine Outside Type (Salt Water)
 UL 1598C
 IP66(Fixture only)
 IK08(Glass) / IK10(PC)
 Salt Spray 720 hrs (ASTM B117)
 NEMA 4X(Fixture only)

CERTIFICATIONS

UL844
 UL1598
 UL1598A
 UL1598C
 CSA C22.2 No.137
 CSA C22.2 No.250.0
 CSA C22.2 No.250.1
 FCC Part 15, Subpart B

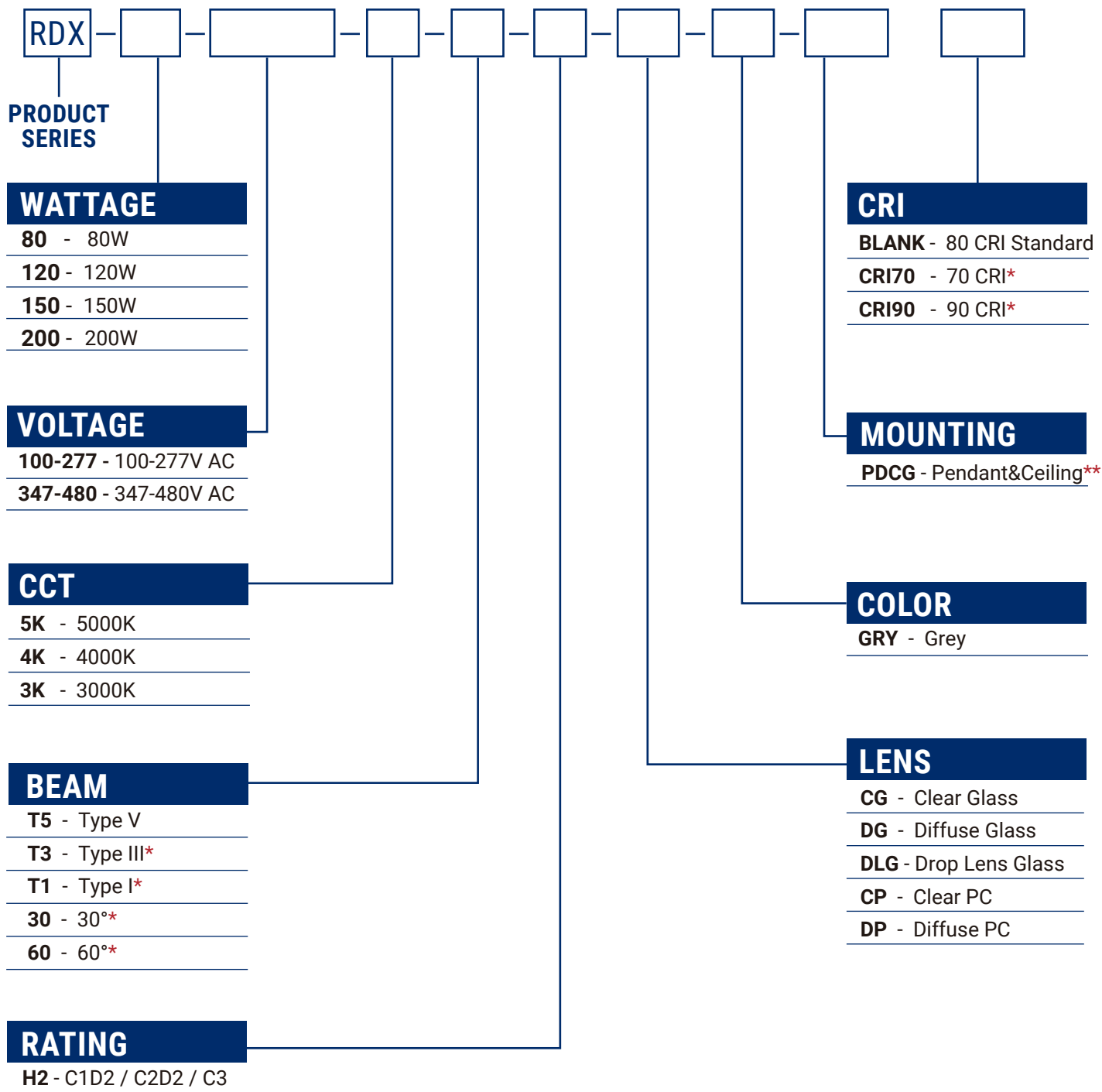
TECHNICAL PARAMETERS

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			
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, CIID2 - T4A			
EPA wind rating (FT2)	1.860(MM3, CMP, MM2)			

* 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 (RETROFIT MODELS)

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



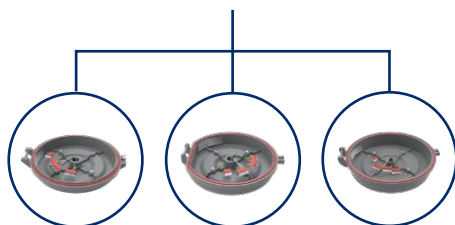
* T1, T3, 30°, 60° Optic available with Clear Glass and Clear PC Option only,
CRI 90 option – expect longer lead time.
DLC available with 70 CRI only. Not all product variations listed on this page are DLC qualified.
Visit www.designlights.org/search to confirm qualification.

** Retrofit adapters ordered separately.

MOUNTING ACCESSORIES



Retrofit adapter



CMP-02

MM2-02

MM3-02

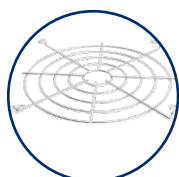
Mounting Method	PN	Description	MPN Code
Retrofit adapter	RTR-CMP-02*	Retrofit adapter for RDX, Powder-coated Grey RAL 7037, compatible with Eaton's Crouse-Hinds – Champ®	210100182
	RTR-MM2-02*	Retrofit adapter for RDX, Powder-coated Grey RAL 7037, compatible with Appleton® Mercmaster II	210100183
	RTR-MM3-02*	Retrofit adapter for RDX, Powder-coated Grey RAL 7037, compatible with Appleton® Mercmaster III	210100184

* Packed separately

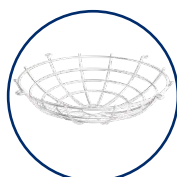
OTHER ACCESSORIES



SFCB01



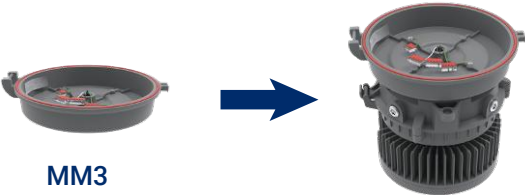
RDX-WG

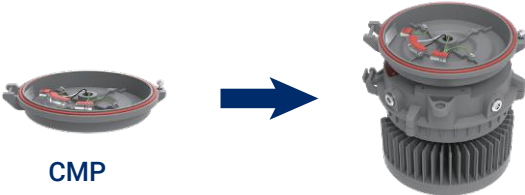


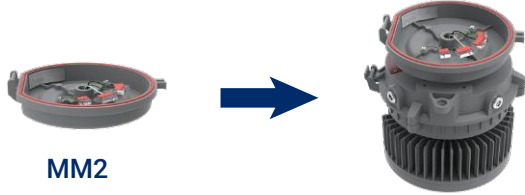
RDX-WGD

PN	Description	MPN Code
SFCB01	Safety Cable Kit, SS304	210010086
RDX-WG	Wire Guard for Flat Glass Lens	210100111
RDX-WGD	Wire Guard for Drop Glass Lens	210100112

RETROFIT OPTIONS

Appleton® Mercmaster III		
 MM3		Pendant
		KPA-75, 100
		KPAF-75, 100
		KPCH-75, 100

Eaton's Crouse-Hinds-Champ®		
 CMP		Pendant
		APM2
		APM3
		HPM2

Appleton® Mercmaster II		
 MM2		Pendant
		LPA-75
		LPA-100

REPLACEMENT PARTS (ORDERED SEPARATELY)

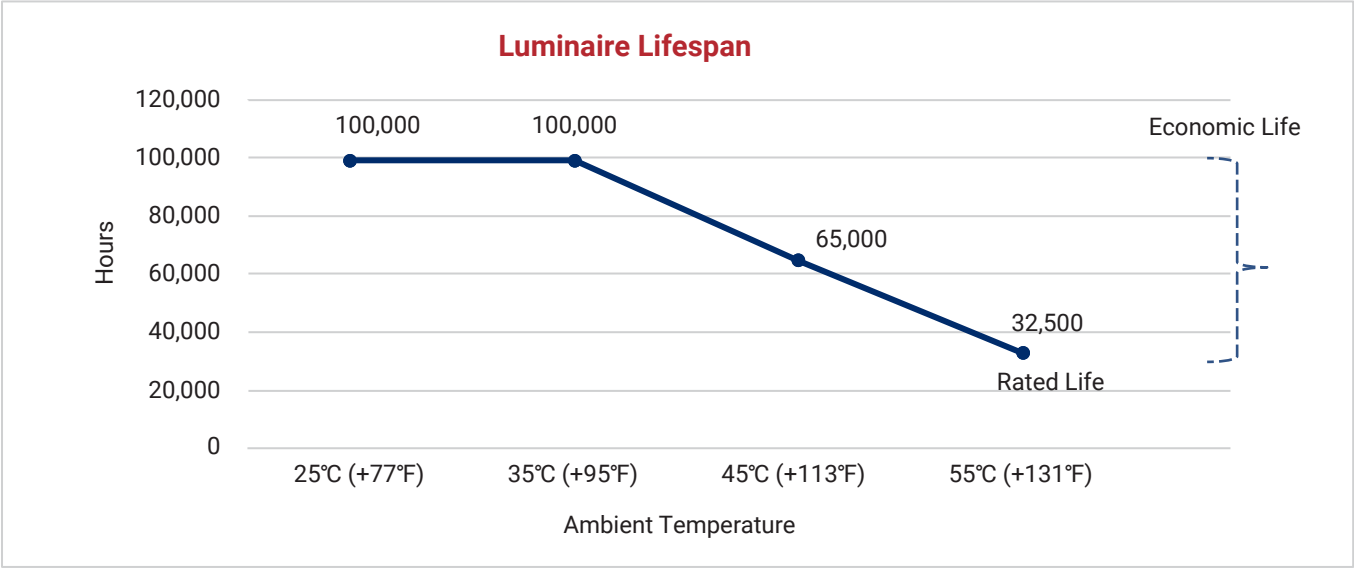
Part Number	Description	MPN Code
RDX-80-100-277-Driver	Replacement Driver Kit for RDX-80-100-277 Fixtures	303010034
RDX-120-100-277-Driver	Replacement Driver Kit for RDX-120-100-277 Fixtures	303010035
RDX-150-100-277-Driver	Replacement Driver Kit for RDX-150-100-277 Fixtures	303010036
RDX-200-100-277-Driver	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 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.

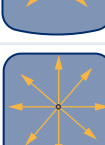
MODELS	Lumen Output (Lm)	MH Equivalent (W)	HPS Equivalent (W)
RDX-80	12,157	250	310
RDX-120	17,388	400	400
RDX-150	21,771	450	400
RDX-200	26,076	750	600

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.

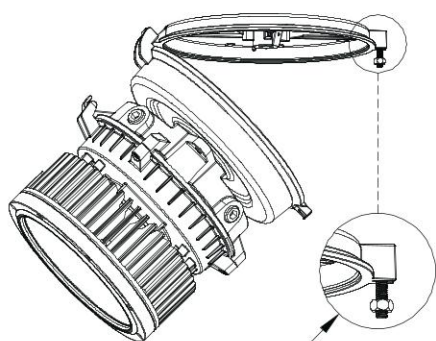
RSL offers complimentary lighting design services for our products using industry-leading AGI32 software, tailored for projects of all sizes in harsh and hazardous locations. We assist you in determining the number of fixtures needed, the types of lights to use, their optimal placement, and how to maximize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

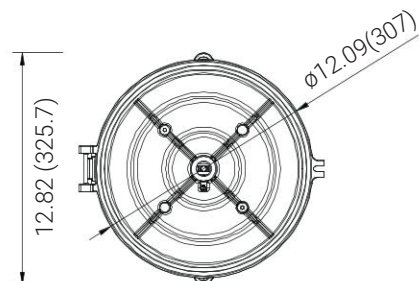
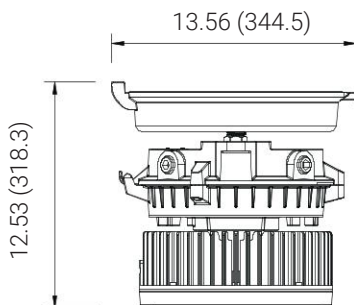
Beam	NEMA/IESNA Type	Beam Description	Beam Projection Distance
30°	NEMA 3	Medium Narrow	
60°	NEMA 4	Medium	
90°	NEMA 5	Medium Wide	
120°	NEMA 6	Wide	
T1	Type I	Asymmetric distributions, well suited for narrow areas, such as Conveyor belts, Aisleways, Catwalks, Loading docks and Tunnels.	
T2	Type II	Asymmetric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

DIMENSIONS

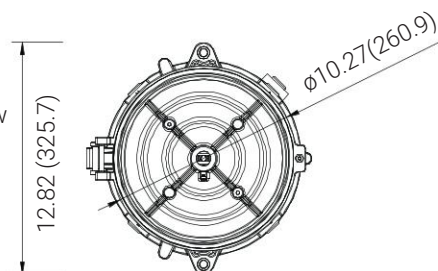
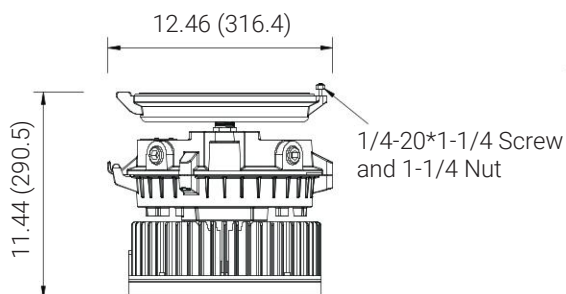
unit: in(mm)



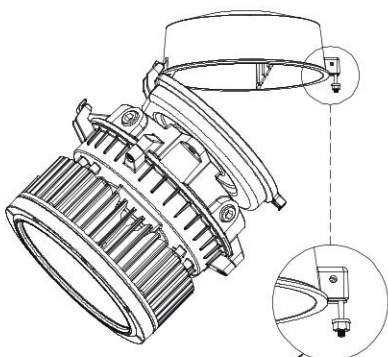
Screws and Nuts
are not provided



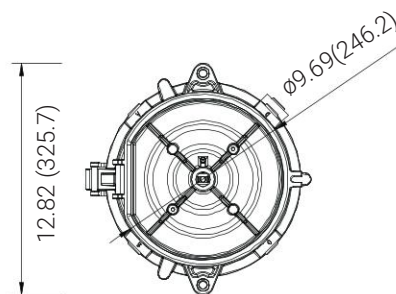
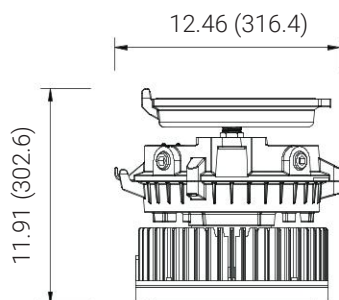
RDX with Appleton® Mercmaster III Adapter



RDX with Crouse-Hinds – Champ® Adapter



Screws and Nuts
are not provided



RDX with Appleton® Mercmaster II Adapter

HAZARDOUS LOCATION LIGHTING BASICS

Atmosphere Groups

Temperature Classification

Substance	Hazard Class	Division Groups	Zone Groups	Max. Surface Temperatures	NEC®500 CEC®	NEC®505/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	
Propane		Group D	IIA	260°C(500°F)	T2B	T2
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	
				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



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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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