

CRANE MASTER SERIES UL

LED LIGHTING FOR HARSH AREAS
FLOOD



Reliable. Durable. Efficient.
40,500 lumen models

RED SKY
SERIOUSLY SAFE LIGHTS™

ABOUT RED SKY LIGHTING

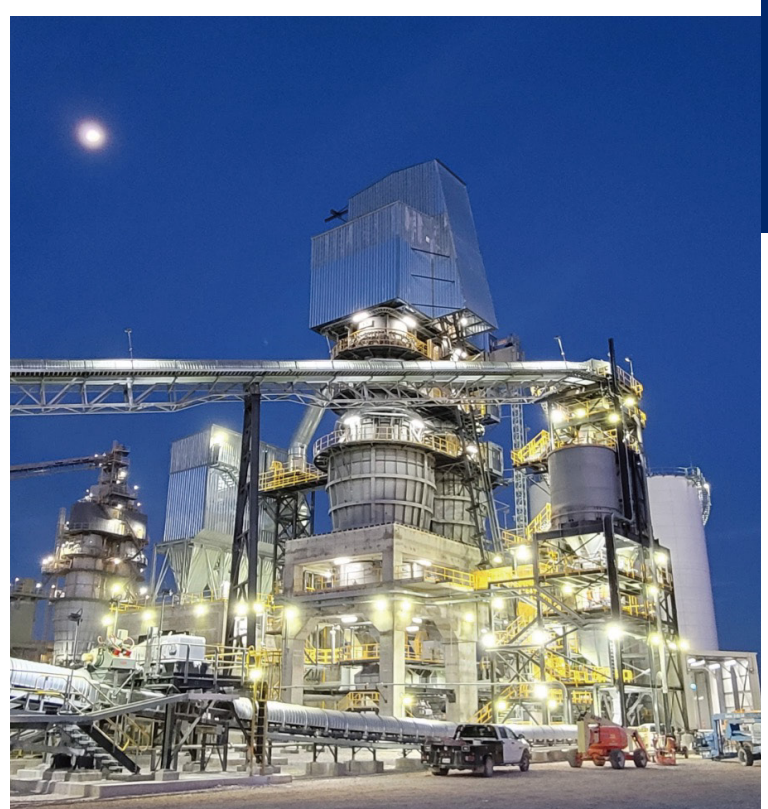
PIONEERING INDUSTRIAL ILLUMINATION FOR HARSH & HAZARDOUS CONDITIONS

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

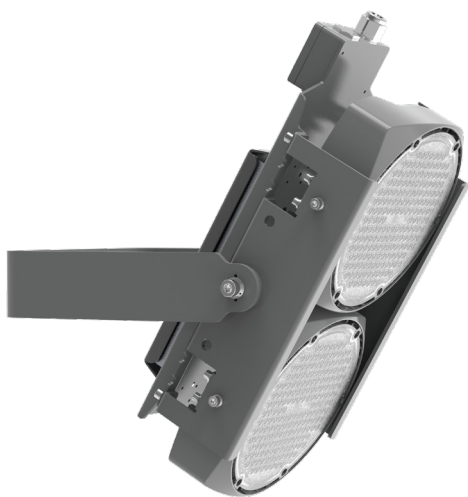
- Majority of orders delivered within 14 days
- Same day shipping for products in stock
- Real-time order tracking for full transparency

SUSTAINABLE SOLUTIONS

- High luminous efficacy LEDs for energy savings
- Conscious product design
- Recyclable materials for products and packaging



FEATURES



-  **5 Choices of Light Distributions**
30° / 60° / 90° / 120° / 30*120°
available for different applications from narrow to assymetric light distribution
-  **Easy and Through Wiring**
Built-in wiring compartment with two cable entries and WAGO 221 lever connectors for easy wiring (1-4mm²)
-  **The damper bracket is rotatable and ensures light is constantly targeted where required**

RATINGS

UL 1598 Wet Locations
UL 1598A Marine Outside Type (Salt Water)
IP67
IK08 (Clear Glass) / IK10 (Clear PC)

CERTIFICATIONS

UL1598
UL1598A
CSA C22.2 NO. 250.0
FCC 47 CFR Part 15, Subpart B

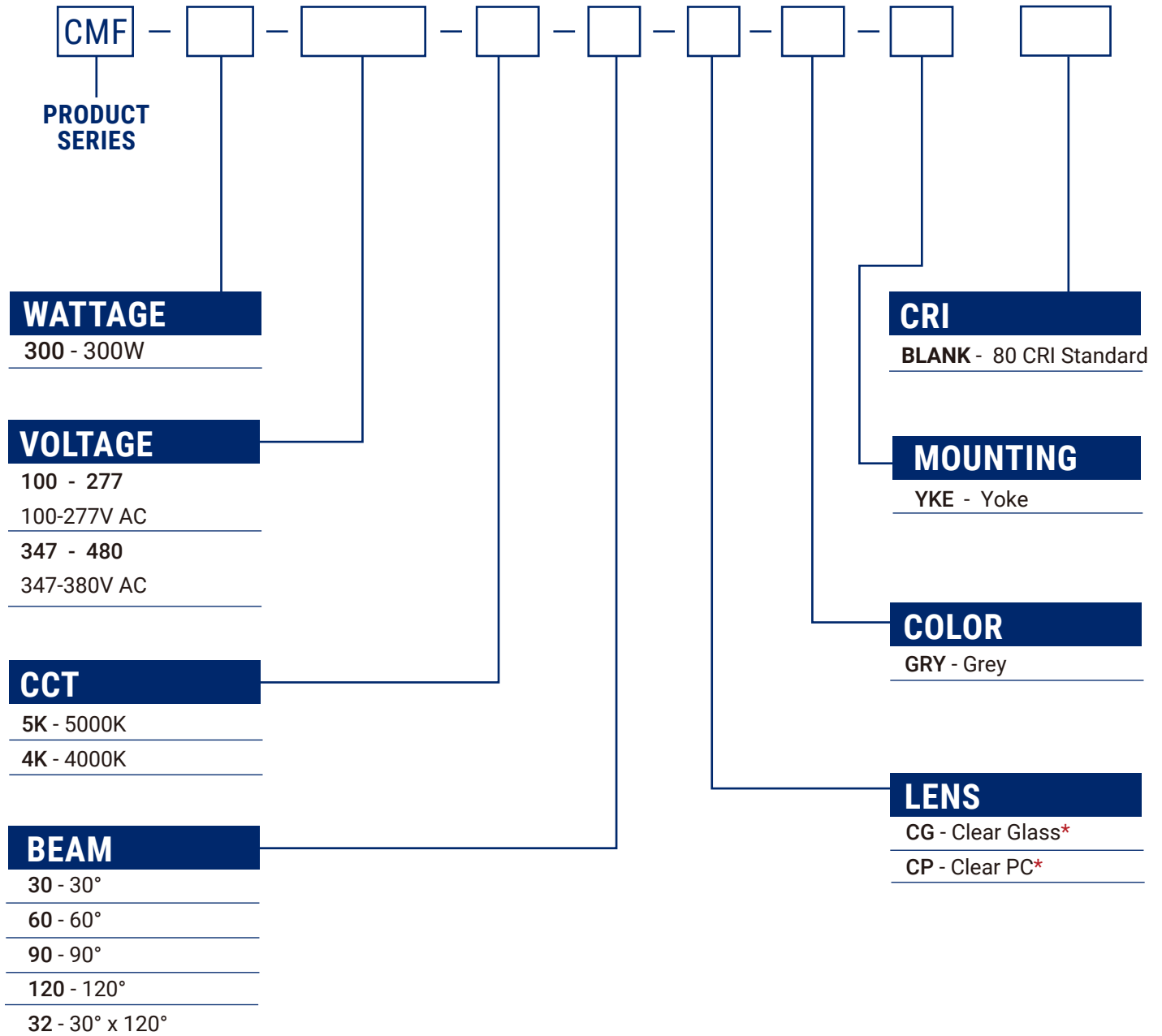
TECHNICAL PARAMETERS

Specification	CMF-300
Electrical Parameters	
Power	300W
Voltage/Frequency	100-277V AC, 347-480V AC 50/60Hz
Input Current(Amps)	100VAC: 3.0174, 347VAC: 0.8695
Power Factor	>0.90
THD	<20%
L70	140,000 Hours@50°C
Dimming	0-10V,Range 10-100%
Surge Protection	NA
Supply wireTemperature°C(°F)	105°C (221°F)
Warranty	Standard: 5 Years
Optical Parameters	
Lumen Output*	40,501Lm
Lumen Efficacy*	136Lm/W @5000K
Available Beam Angle	30°/60°/90°/30*120°(PC)/120°(Glass)
Correlated Color Temperature (CCT)	3000K/4000K/5000K/5700K
Color Rendering Index (CRI)	80 CRI
Mechanical Parameters	
Finish	Thermoset Powdercoat
Hardware	Stainless steel 316
Lens Material	Clear Glass or Clear PC
Mounting Options	Angled Yoke
Cable Entry	12-24AWG min: 0.14mm ² max: 4mm ²
Connection	2 x M20
Product Weight	30.9lbs/14kg
Product Dimensions(LxWxH)	20.78x11.46x6.55 in (527.7x291.2x166.3 mm)
Box Dimensions(LxWxH)	23.07x15.2x9.37 in (586x386x238mm)
Environmental Parameters	
Ambient Operating Temperature	-40°F ~ +131°F (-40°C ~+ 55°C)
Vibration Resistance	5G
Corrosion Resistance	500 hours
EPA wind rating (FT2)	1.285

* Value calculated based on 5000K,80 CRI and Clear glass ,varies to different spec.

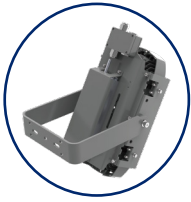
ORDERING INFORMATION

EXAMPLE: CMF-300-100-277-5K-90-CG-GRY-YKE

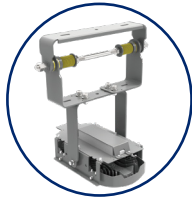


* CG: 120°
CP: 30°, 60°, 90°, 30° x 120

MOUNTING ACCESSORIES



Yoke
(SUS304)



Yoke with
Damper Bracket



SC05

Pard Number	Description	MPN Code
DPY01	Crane Damper Bracket, SUS304, Fixed with M10 Bolts	210010029
SFCB01	Safety Cable Kit, SUS304	210010086

LUMEN TABLE

Part Number	Wattage (W)	CCT	CRI	Beam	Lens	Lumen Output (Lm)	Efficiency (Lm/W)
Voltage 120-277VAC 80 CRI • STANDARD							
CMF-300-100-277-5K-120-CG-GRY-YKE	300	5000K	80	120°	Clear Glass	40,501	136
CMF-300-100-277-5K-30-CP-GRY-YKE	300	5000K	80	30°	Clear PC	36,148	131
CMF-300-100-277-5K-60-CP-GRY-YKE	300	5000K	80	60°	Clear PC	37,885	137
CMF-300-100-277-5K-90-CP-GRY-YKE	300	5000K	80	90°	Clear PC	38,904	141
CMF-300-100-277-5K-32-CP-GRY-YKE	300	5000K	80	30°x120°	Clear PC	37,342	135

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.

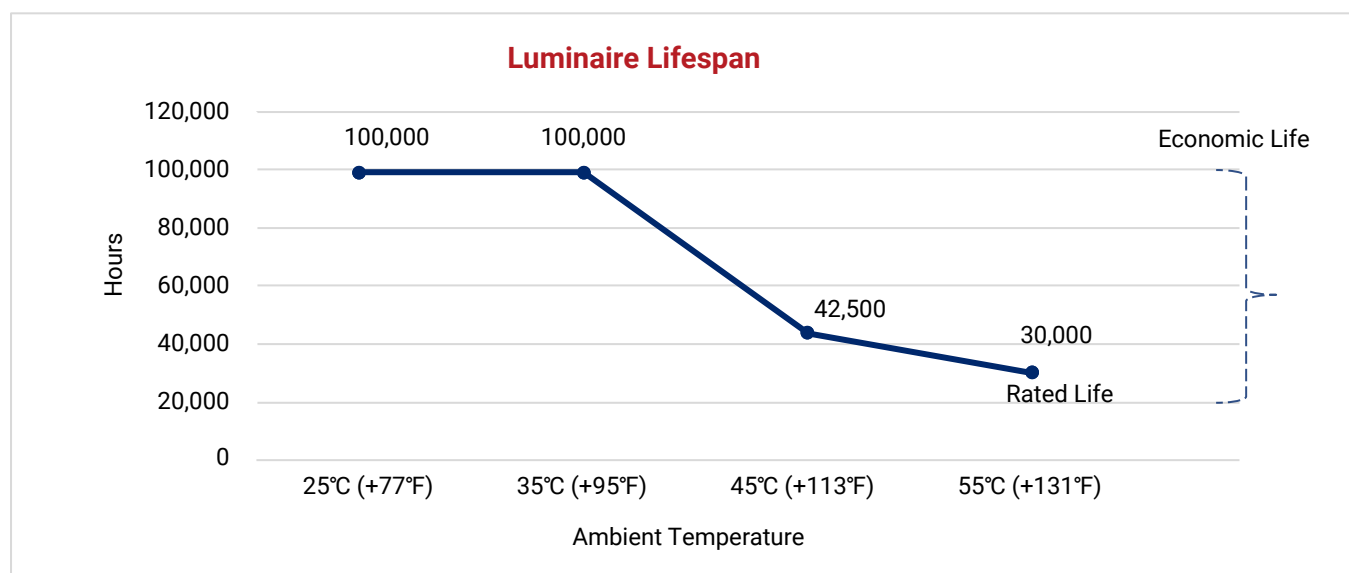
Note: LXX# = nominal lumens. Verify lumen package before ordering.

LUMEN MAINTENANCE

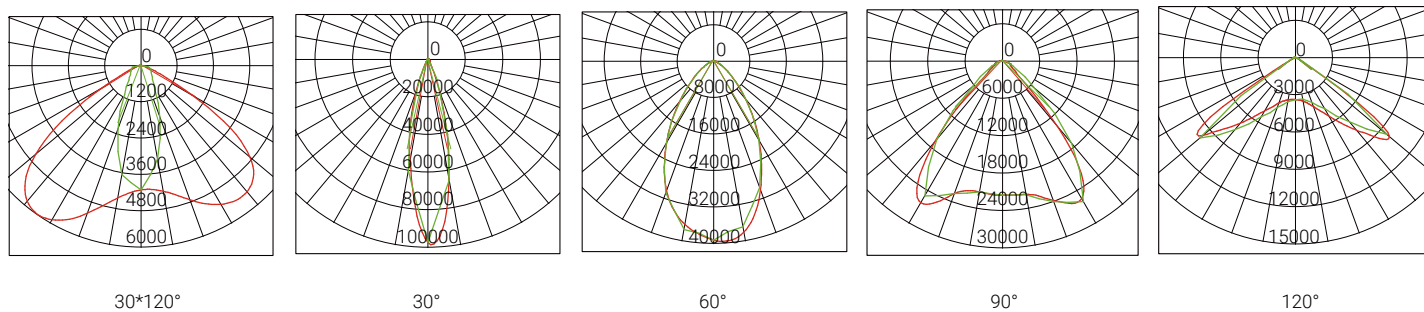
Hours Ambient	0	15,000	30,000	45,000	60,000	75,000	90,000	100,000	150,000
25°C	100%	96%	92%	89%	85%	82%	78%	76%	66%
35°C	100%	96%	92%	89%	85%	82%	78%	76%	66%
45°C	100%	96%	92%	89%	85%	82%	78%	76%	66%
55°C	100%	96%	92%	89%	85%	82%	78%	76%	66%

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)	100,000	11	23
45°C (+113°F)	42,500	5	10
55°C (+131°F)	30,000	3	7

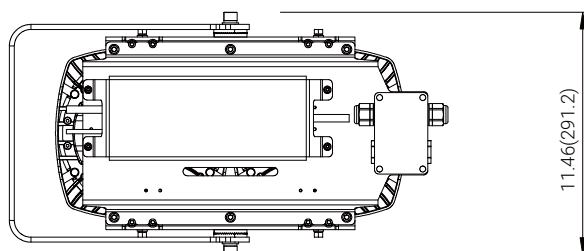
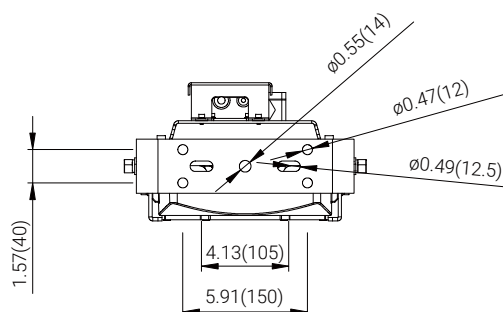
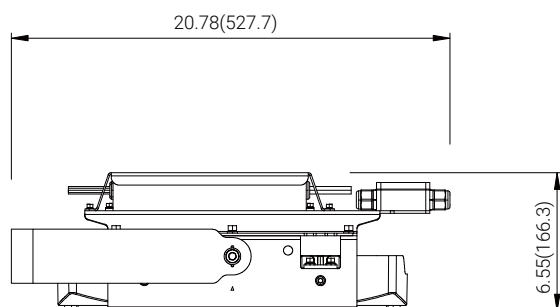


Information shown for reference only and may vary by configuration.



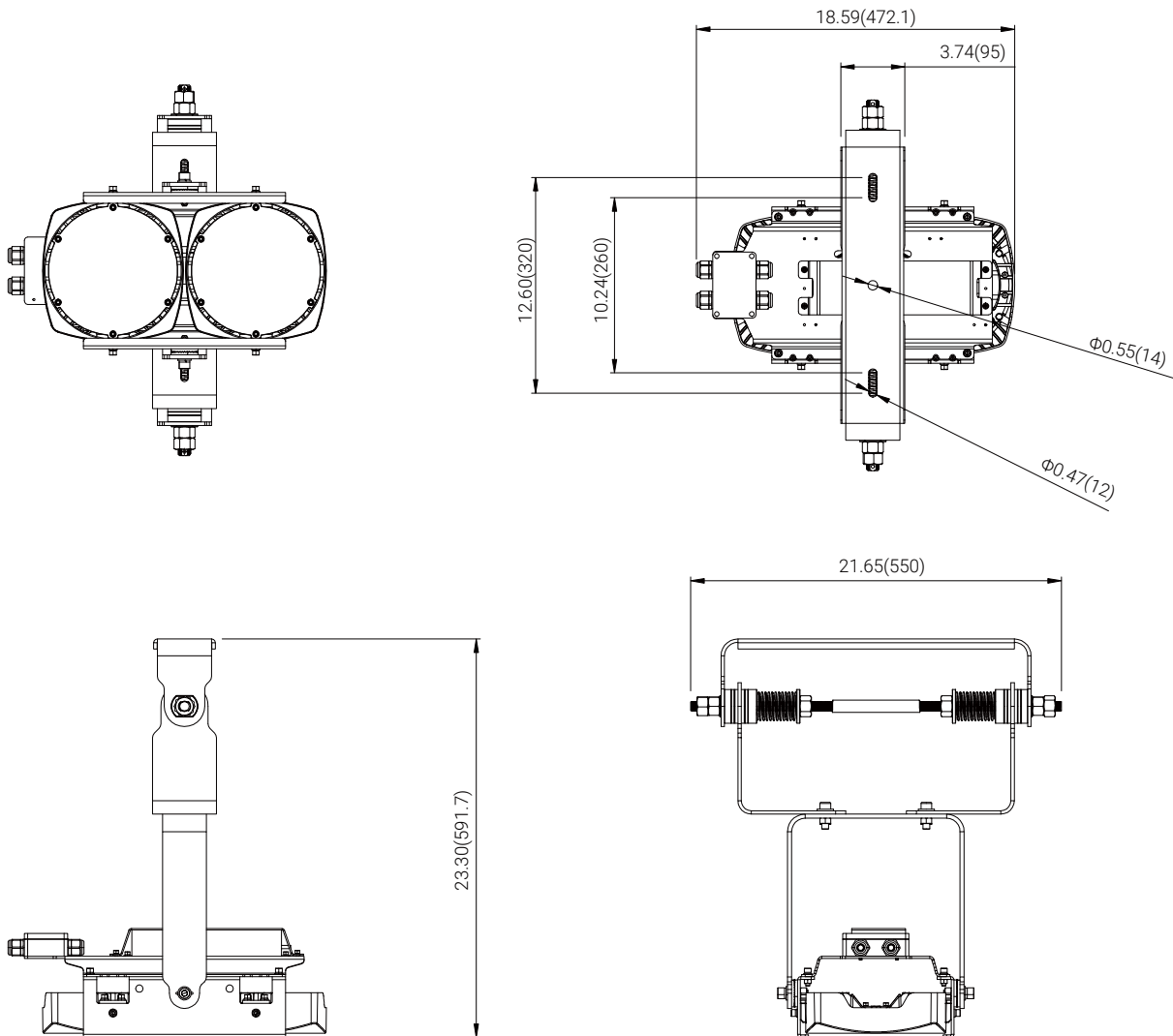
DIMENSIONS

unit: in(mm)



YOKE

unit: in(mm)



YOKE with Damper Bracket

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(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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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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