

# 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

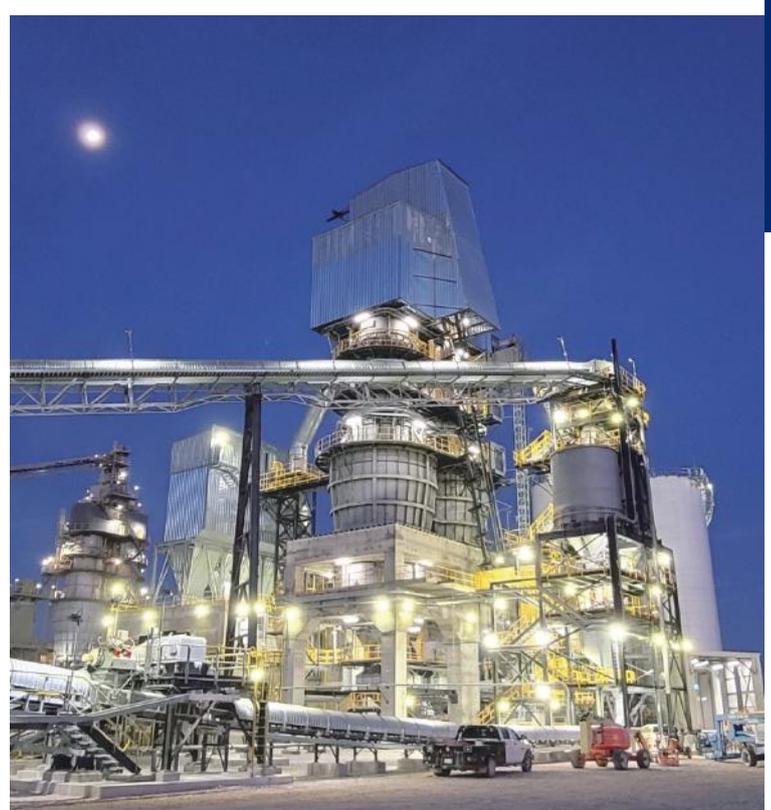
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A leading manufacturer of premium LED lights for demanding work conditions

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

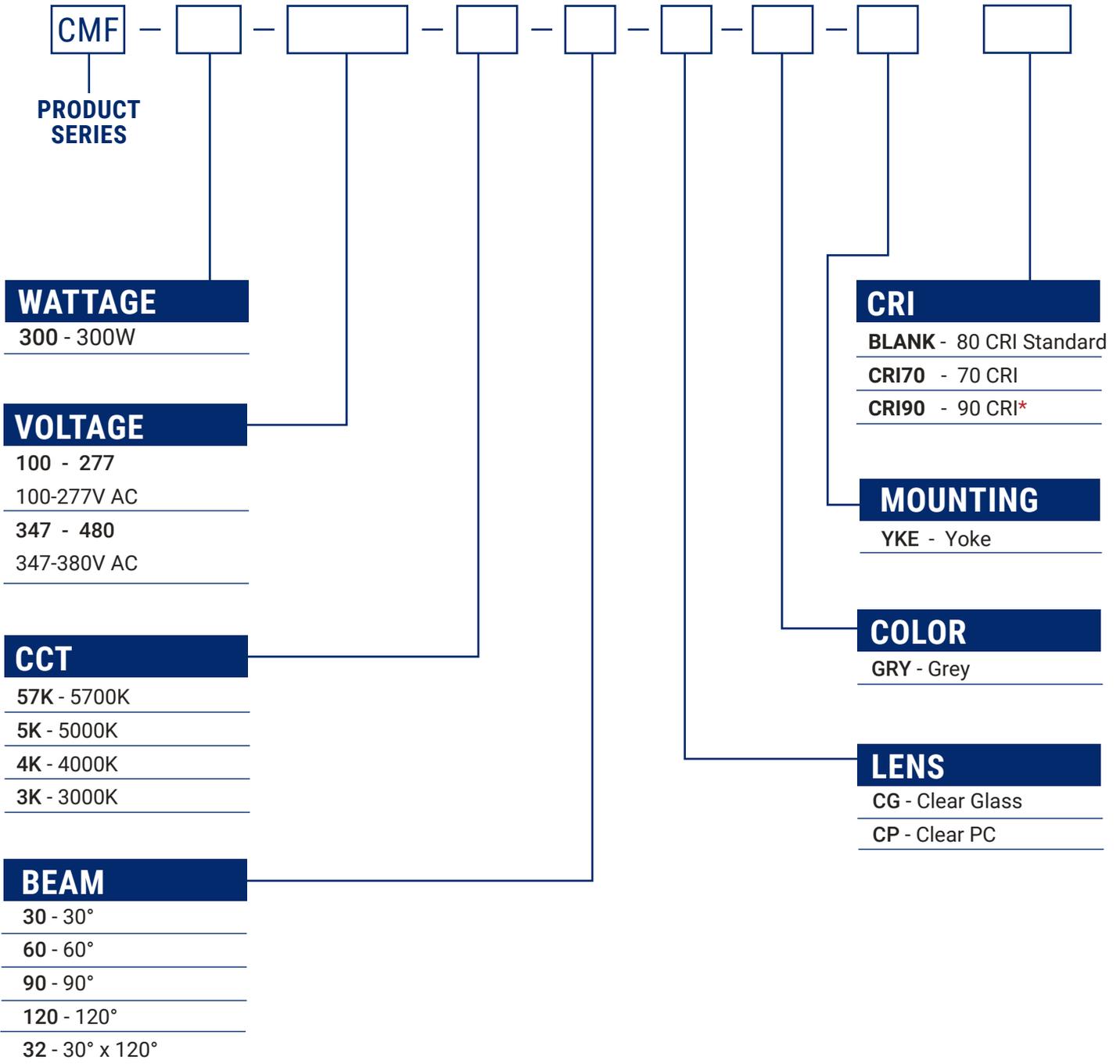
# TECHNICAL PARAMETERS

Specification	CMF-300
<b>Electrical Parameters</b>	
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
<b>Optical Parameters</b>	
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
<b>Mechanical Parameters</b>	
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 <sup>2</sup> max: 4mm <sup>2</sup>
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)
<b>Environmental Parameters</b>	
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 differrent spec.  
70 CRI & 90 CRI optional, DLC available with 70 CRI only.

# ORDERING INFORMATION

**EXAMPLE:** CMF-300-100-277-57K-90-CG-GRY-YKE



\* CRI70 - 70 CRI, CRI90 - 90 CRI, CRI 90 option – expect longer lead time

# MOUNTING ACCESSORIES



Yoke  
(SUS304)



Yoke with  
Damper Bracket



SC05

Pard Number	Description	MPN Code
DPY01	Crane Damper Bracket, SUS304, Fixed with M10 Bolts	309050274
SFCB01	Safety Cable Kit, SUS304	106060018

# LUMEN TABLE

Part Number	Wattage (W)	CCT	CRI	Beam	Lens	Lumen Output (Lm)	Efficiency (Lm/W)
<b>Voltage 120-277VAC 80 CRI • STANDARD</b>							
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
<b>Voltage 120-277VAC 70 CRI</b>							
CMF-300-100-277-5K-120-CG-GRY-YKE CRI70	300	5000K	70	120°	Clear Glass	42,211	154
CMF-300-100-277-5K-30-CP-GRY-YKE CRI70	300	5000K	70	30°	Clear PC	37,674	137
CMF-300-100-277-5K-60-CP-GRY-YKE CRI70	300	5000K	70	60°	Clear PC	39,485	143
CMF-300-100-277-5K-90-CP-GRY-YKE CRI70	300	5000K	70	90°	Clear PC	40,547	147
CMF-300-100-277-5K-32-CP-GRY-YKE CRI70	300	5000K	70	30°x120°	Clear PC	38,919	141
<b>Voltage 120-277VAC 90 CRI</b>							
CMF-300-100-277-5K-120-CG-GRY-YKE CRI90	300	5000K	90	120°	Clear Glass	33,473	122
CMF-300-100-277-5K-30-CP-GRY-YKE CRI90	300	5000K	90	30°	Clear PC	29,875	109
CMF-300-100-277-5K-60-CP-GRY-YKE CRI90	300	5000K	90	60°	Clear PC	31,312	113
CMF-300-100-277-5K-90-CP-GRY-YKE CRI90	300	5000K	90	90°	Clear PC	32,154	117
CMF-300-100-277-5K-32-CP-GRY-YKE CRI90	300	5000K	90	30°x120°	Clear PC	30,863	112

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.

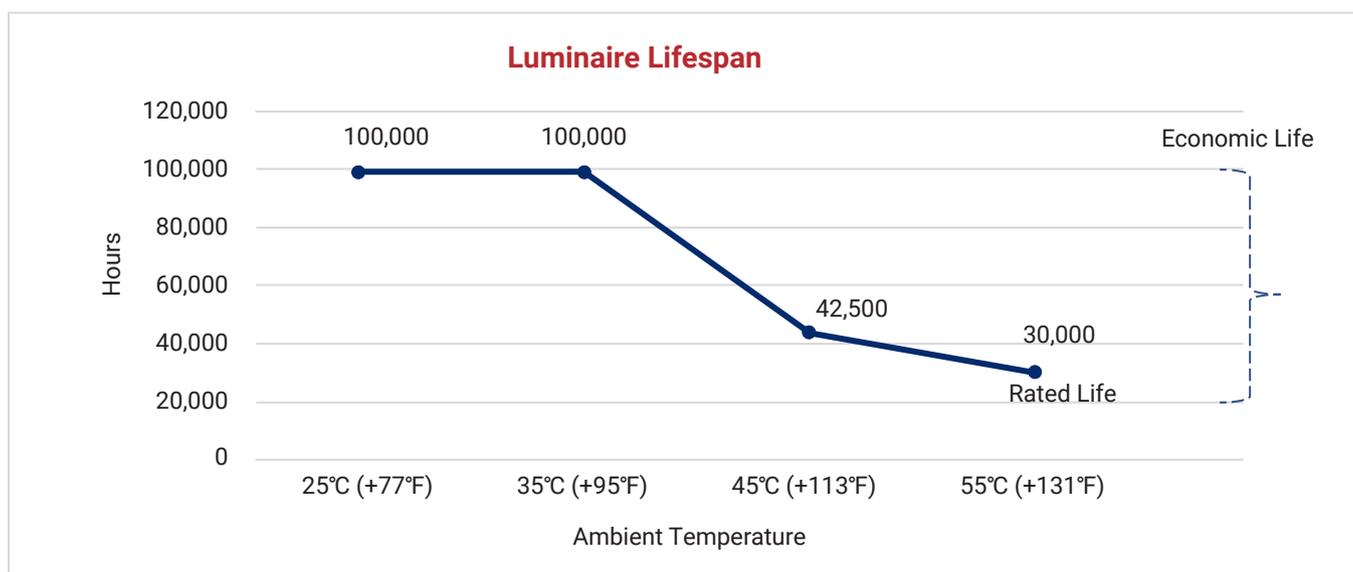
Note: LXX# = nominal lumens. Verify lumen package before ordering.

# 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%

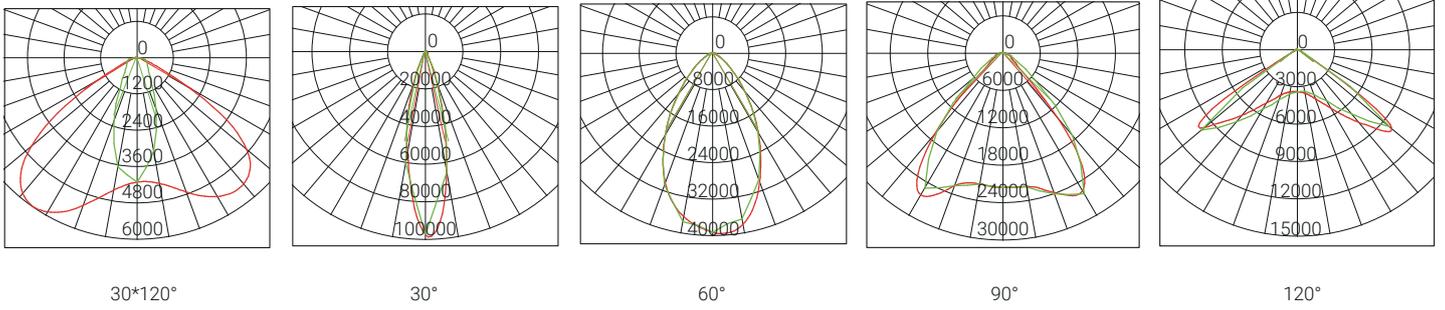
# LUMINAIRE LIFESPAN

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



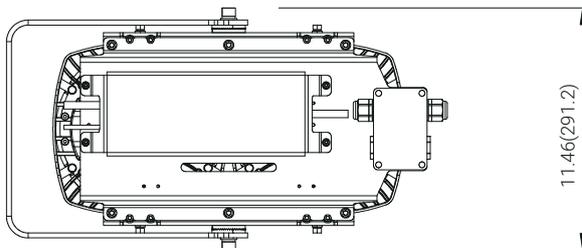
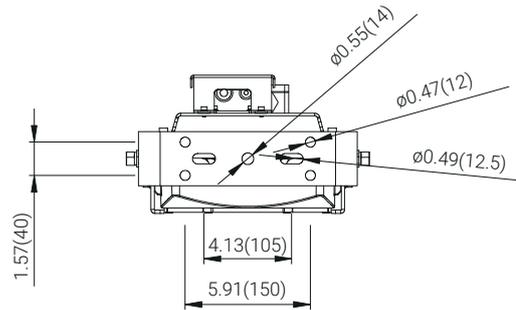
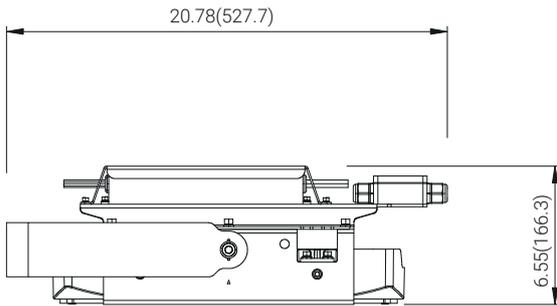
Information shown for reference only and may vary by configuration.

# PHOTOMETRIC



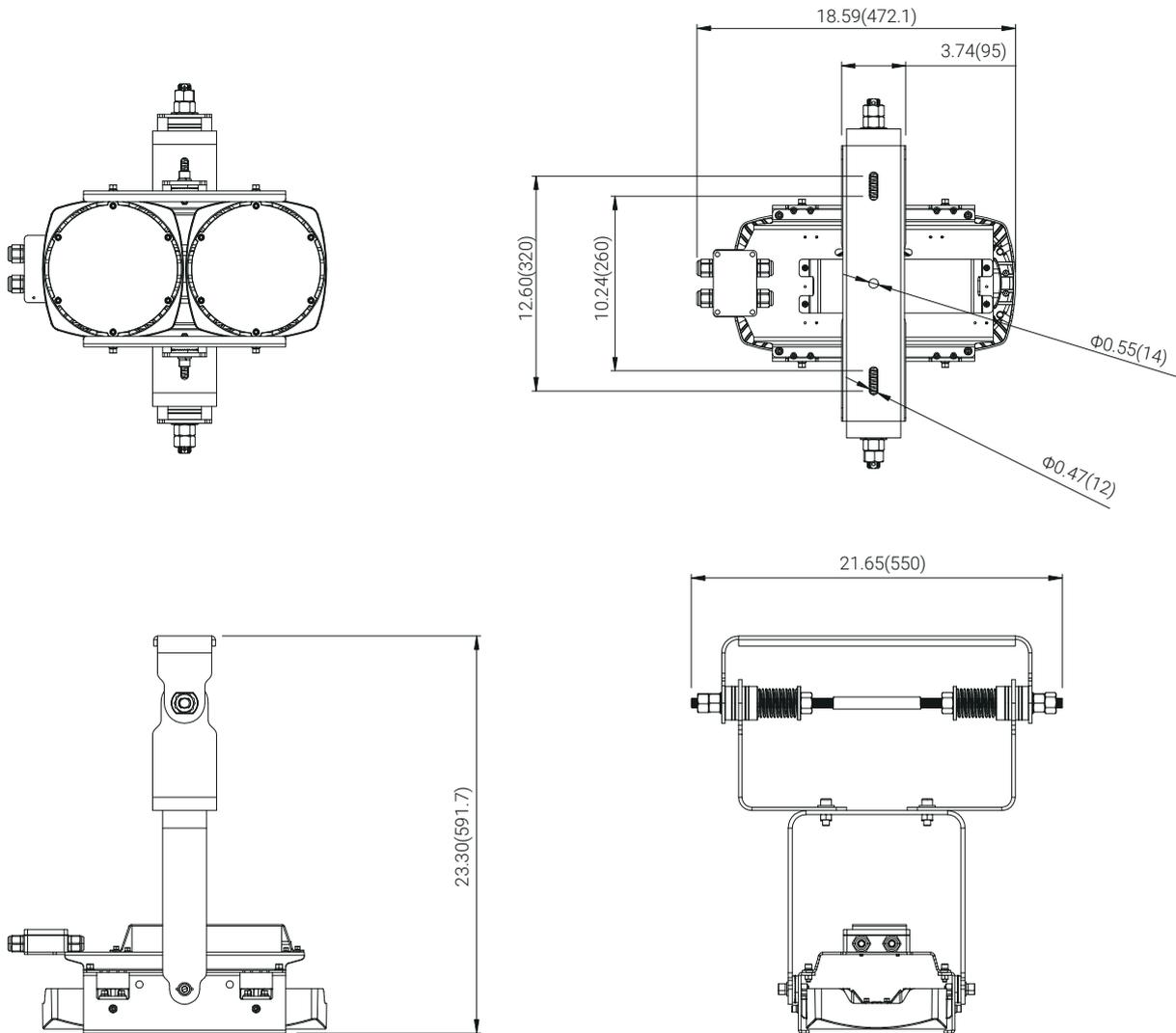
# DIMENSIONS

unit: in(mm)



YOKE

unit: in(mm)



**YOKE with Damper Bracket**

# 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(842)	T1	T1
Hydrogen		Group B	IIC	300(572)	T2	
Ethylene		Group C	IIB	280(536)	T2A	T2
Propane		Group D	IIA	260(500)	T2B	
Methane		Group D	IIA <sup>2</sup>	230(446)	T2C	
Combustible Metal Dusts	Class II Combustible Dusts	Group E <sup>1</sup>	IIIC <sup>3</sup>	215(419)	T2D	T3
Combustible Carbonaceous Dust		Group F	IIIB <sup>3</sup>	200(392)	T3	
Combustible Dusts not in Group E or F (Flour, Grain, Wood, Plastics, Chemicals)		Group G	IIIB <sup>3</sup>	180(256)	T3A	
Combustible Fibers and Flyings		Class III Fibers and Flyings	Not Applicable	IIIA <sup>3</sup>	165(329)	
				160(320)	T3C	
				135(275)	T4	T4
				120(248)	T4A	
				100(212)	T5	T5
				85(185)	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.