RED SKY

SERIOUSLY SAFE LIGHTS™

# CRANE MASTER SERIES

## Technical Specification Sheet





# 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

### FAST DELIVERY

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

### TOP-NOTCH SERVICES

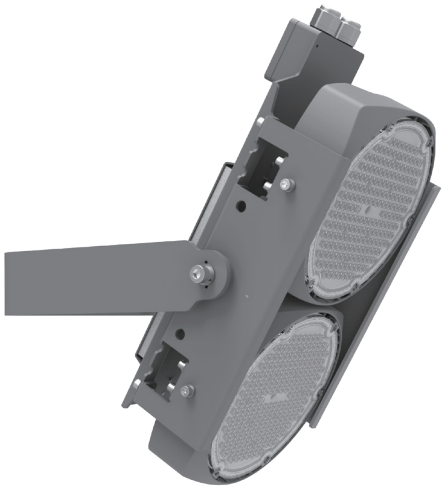
- Team of experts for seamless support
- Energy audit services, lighting simulation services
- Hassle-free return policy and management

### 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 ( 0.5~4mm2)

## The damper bracket is rotatable and ensures light is constantly targeted where required

# RATINGS

IP67
IK08

# CERTIFICATIONS

CE EMC/LVD
UKCA
ROHS

# TECHNICAL PARAMETERS

| Specification | CMF-150 | CMF-300 | CMF-420 | CMF-560 |
|---|---|---|---|---|
| **Electrical Parameters** | | | | |
| Power | 150W | 300W | 420W | 560W |
| Voltage/Frequency | 100-240V AC 50/60Hz | | | |
| Power Factor | ＞90% | | | |
| THD | <20% | | | |
| L70 | 140,000 Hours@50℃ | | | |
| Warranty | 5 years | | | |
| **Optical Parameters** | | | | |
| Lumen Output* | 20,439Lm | 42,425Lm | 58,852Lm | 79,230Lm |
| Lumen Efficacy* | 140Lm/W | | | |
| Available Beam Angle | 30°/60°/90°/30*120°(PC)<br>120°(Glass) | | | |
| Correlated Color Temperature (CCT) | 4000K/5700K | | | |
| Color Rendering Index (CRI) | Ra>70 | | | |
| **Mechanical Parameters** | | | | |
| Finish | Polyster powder coating for uniform corrosion resistance | | | |
| Hardware | Stainless steel 316 | | | |
| Lens Material | Clear Glass or Clear PC | | | |
| Mounting Options | Yoke | | | |
| Product Weight | 16.5lbs/7.5kg | 30.9lbs/14kg | 39.7lbs/18kg | 50.7lbs/23kg |
| Cable Entry | 2 x M20 | | | |
| Product Dimensions(L×W×H) | 10.2x9.1x5.8 in (260x230x148 mm)<br>22x11x6.7 in (559x280x171 mm) | | 24.9x11x6.7 in (632x280x171 mm)<br>19.2x16.5x6.7 in (487x420x171 mm) | |
| **Environmental Parameters** | | | | |
| Ambient Operating Temperature | -40°C~+55°C | | | |
| Optimal Operating Temperature | 25°C | | | |

* Value calculated based on 5700K and clear glass ,varies to different spec.

# ORDERING INFORMATION

**EXAMPLE:** CMF-300-100-240-57K-HAR-90-CG-GRY-YKE

CMF — 300 — 100-240 — 57K — HAR — 90 — CG — GRY — YKE

**FIXTURE**

## WATTAGE

**150** - 150W
**300** - 300W
**420** - 420W
**560** - 560W

## VOLTAGE

**100 - 240**
100-240V AC

## CCT

**57K** - 5700K
**4K** - 4000K

## INTERNAL CODE

## MOUNTING

**YKE** - Yoke

## COLOR

**GRY** - Grey

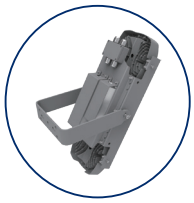
## LENS

**CG** - Clear Glass
**CP** - Clear PC

## BEAM

**30** - 30°
**60** - 60°
**90** - 90°
**120** - 120°
**32** - 30° x 120°

# MOUNTING ACCESSORIES



Yoke
(SUS304)



SC05

| Pard Number | Description | MPN Code |
|---|---|---|
| SC05 | Safety Cable Kit, CMF SERIES, SUS304 | 106060018 |

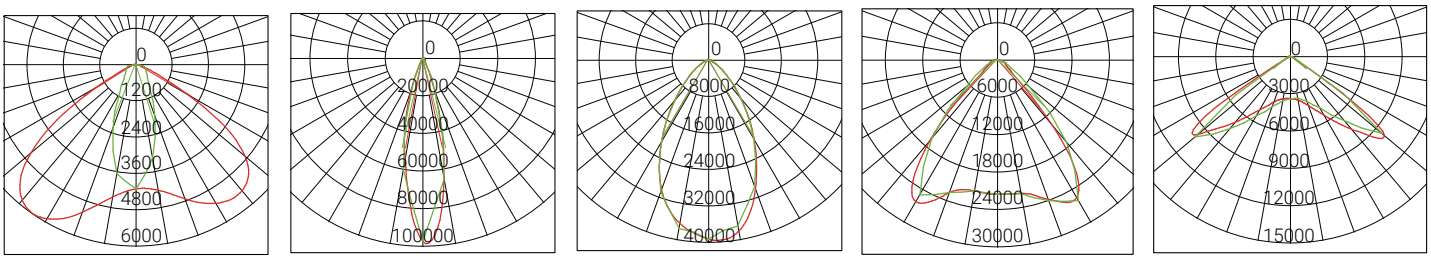
* The Damper Bracket is only suitable for single and dual modules.

# LUMEN TABLE

| Part Number | Wattage (W) | CCT | Beam | Lens | Lumen Output (Lm) | Efficiency (Lm/W) |
|---|---|---|---|---|---|---|
| **Voltage 100-240VAC** | | | | | | |
| CMF-150-100-240-57K-HAR-120-CG-GRY-YKE | 150 | 5700K | 120° | Clear Glass | 20,439 | 146 |
| CMF-150-100-240-57K-HAR-90-CP-GRY-YKE | 150 | 5700K | 90° | Clear PC | 19,108 | 136 |
| CMF-150-100-240-57K-HAR-60-CP-GRY-YKE | 150 | 5700K | 60° | Clear PC | 19,410 | 138 |
| CMF-150-100-240-57K-HAR-30–CP-GRY-YKE | 150 | 5700K | 30° | Clear PC | 18,249 | 130 |
| CMF-150-100-240-57K-HAR-32-CP-GRY-YKE | 150 | 5700K | 30°x120° | Clear PC | 18,562 | 132 |
| CMF-300-100-240-57K-HAR-120-CG-GRY-YKE | 300 | 5700K | 120° | Clear Glass | 42,425 | 151 |
| CMF-300-100-240-57K-HAR-90-CP-GRY-YKE | 300 | 5700K | 90° | Clear PC | 40,071 | 142 |
| CMF-300-100-240-57K-HAR-60-CP-GRY-YKE | 300 | 5700K | 60° | Clear PC | 39,449 | 140 |
| CMF-300-100-240-57K-HAR-30-CP-GRY-YKE | 300 | 5700K | 30° | Clear PC | 36,491 | 129 |
| CMF-300-100-240-57K-HAR-32-CP-GRY-YKE | 300 | 5700K | 30°x120° | Clear PC | 40,574 | 144 |
| CMF-420-100-240-57K-HAR-120-CG-GRY-YKE | 420 | 5700K | 120° | Clear Glass | 58,852 | 143 |
| CMF-420-100-240-57K-HAR-90-CP-GRY-YKE | 420 | 5700K | 90° | Clear PC | 56,477 | 137 |
| CMF-420-100-240-57K-HAR-60-CP-GRY-YKE | 420 | 5700K | 60° | Clear PC | 54,459 | 132 |
| CMF-420-100-240-57K-HAR-30-CP-GRY-YKE | 420 | 5700K | 30° | Clear PC | 52,166 | 126 |
| CMF-420-100-240-57K-HAR-32-CP-GRY-YKE | 420 | 5700K | 30°x120° | Clear PC | 55,377 | 134 |
| CMF-560-100-240-57K-HAR-120-CG-GRY-YKE | 560 | 5700K | 120° | Clear Glass | 79,230 | 145 |
| CMF-560-100-240-57K-HAR-90-CP-GRY-YKE | 560 | 5700K | 90° | Clear PC | 75,361 | 137 |
| CMF-560-100-240-57K-HAR-60-CP-GRY-YKE | 560 | 5700K | 60° | Clear PC | 73,028 | 133 |
| CMF-560-100-240-57K-HAR-30-CP-GRY-YKE | 560 | 5700K | 30° | Clear PC | 69,638 | 127 |
| CMF-560-100-240-57K-HAR-32-CP-GRY-YKE | 560 | 5700K | 30°x120° | Clear PC | 72,627 | 132 |

For additional information, please contact your sales representative.

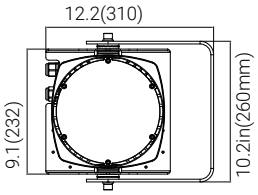
# PHOTOMETRIC

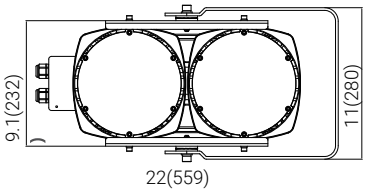


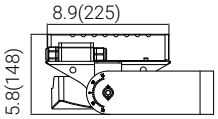

30*120° 30° 60° 90° 120°

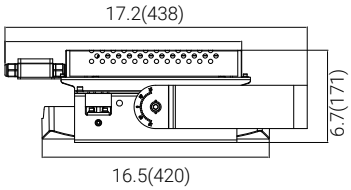
# DIMENSIONS

**unit: in(mm)**

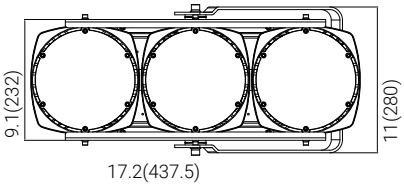


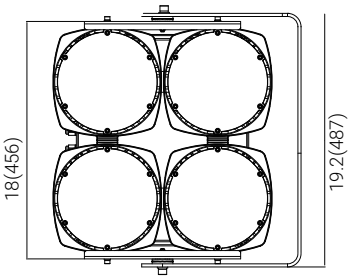



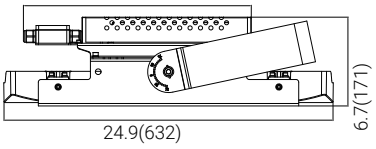




150W 300W



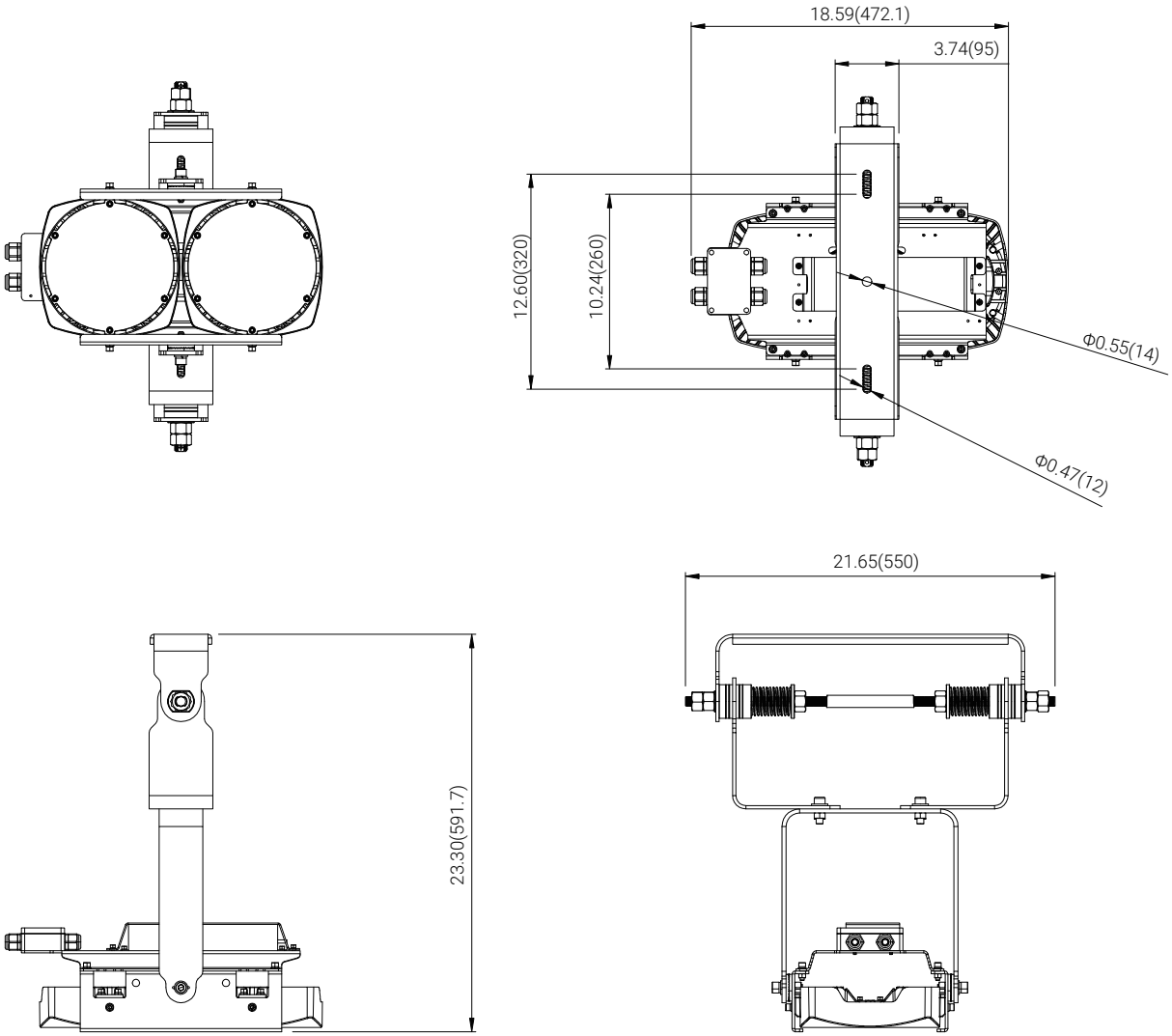




420W 560W

## YOKE

# DIMENSIONS

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®500/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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