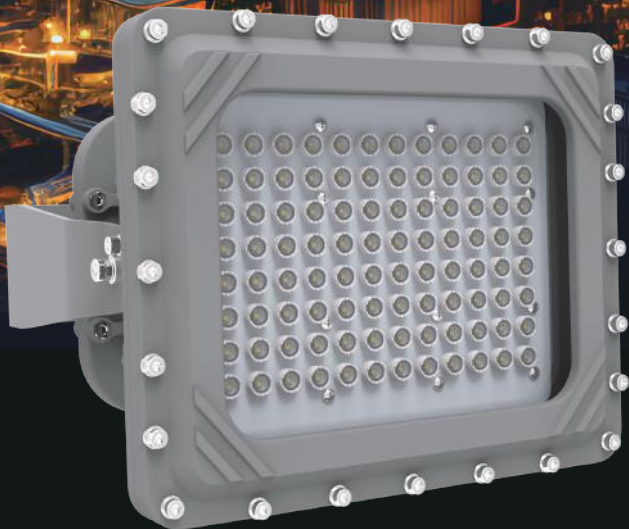


# BLOCK SERIES H1

LED LIGHTING FOR HARSH AND HAZARDOUS AREAS  
FLOOD & HIGHBAY



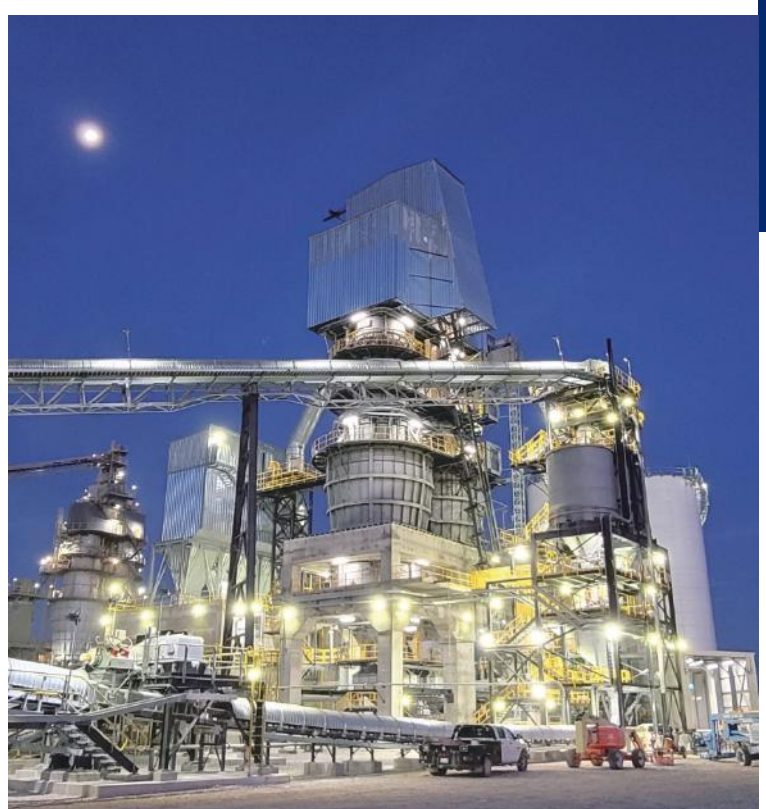
**Reliable. Durable. Efficient.**  
**12,000 to 22,000 lumen models**

**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

# BLOCK SERIES



Designed to withstand hazardous environments, the Block Series excels with a luminous efficacy of 150 lumens per watt. It is certified for use in hazardous locations requiring explosion-proof fixtures where flammable gases, vapors and combustible dusts are present. Applications include oil and gas rigs, petrochemical plants, and other hazardous corrosive facilities.

With 10kV built-in surge protection, the Block Series enhances safety and working conditions. Its dimmable driver helps reduce light pollution, enhance the working environment, and save on energy costs. Its self-contained LED and driver compartment, coupled with external cooling fins, ensures reliable heat dissipation even in extreme temperatures up to 140°F (60°C) while its robust design and quality enable operation under temperatures as low as -40°F (-40°C). The remarkable 121,000-hour LED fixture life at 140°F (60°C) guarantees long-term operation of the facility. A rugged copper-free aluminum body and frame provide superior corrosion resistance for long-lasting durability.

With three optic options ranging from spot to flood, the Block Series offers flexibility for a variety of applications. Red Sky Lighting backs the Block Series with an industry-leading 10-year warranty and factory replacement. Choose the Block Series for exceptional performance, advanced safety, and unmatched durability in hazardous industrial environments.





## FEATURES



25°  
NEMA 3 - Narrow



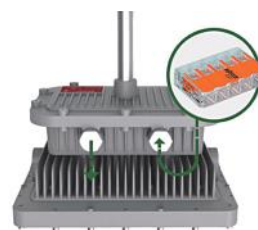
60°  
NEMA 4 - Medium



120°  
NEMA 6 - Wide

### Excellent Heat Dissipation

Safe and reliable heat transfer - Offering a T-rating of T6 (CID1)  
Self-contained LED and Driver compartment with external air-flow fins designed to perform in high ambient temperatures up to +140°F and as low as -40°F.



### Rugged Construction

Built to withstand extreme temperatures, vibration, water and dust. Copper-free aluminum body and frame for corrosion-resistant.

### Long Fixture Life

L70 >121,000 Hours@140°F

### 3 Optic Options

25° / 60° / 120° available for different applications from spot to flood for optimal light distribution.

## RATINGS

|                                       |                                           |
|---------------------------------------|-------------------------------------------|
| Class I Division 1, Groups C, D       | UL 1598 Wet Locations                     |
| Class I Division 2, Groups A, B, C, D | UL 1598A Marine Outside Type (Salt Water) |
| Class II Division 2, Groups F, G      | IP66                                      |
| Class III                             | IK09                                      |
| Class I, Zone 1, Group IIB            | Salt Spray 720 hrs (ISO 9227)             |
| Class I, Zone 2, Group IIC            | NEMA 4X                                   |
| Zone 22, Group IIIB                   |                                           |

## CERTIFICATIONS

UL844  
UL1598  
UL1598A  
CSA C22.2 NO. 250.0  
CSA C22.2 No. 137  
DLC Standard\*  
FCC Part 15, Subpart B

\* Not all product variations listed on this page are DLC qualified. Visit [www.designlights.org/search](http://www.designlights.org/search) to confirm qualification.

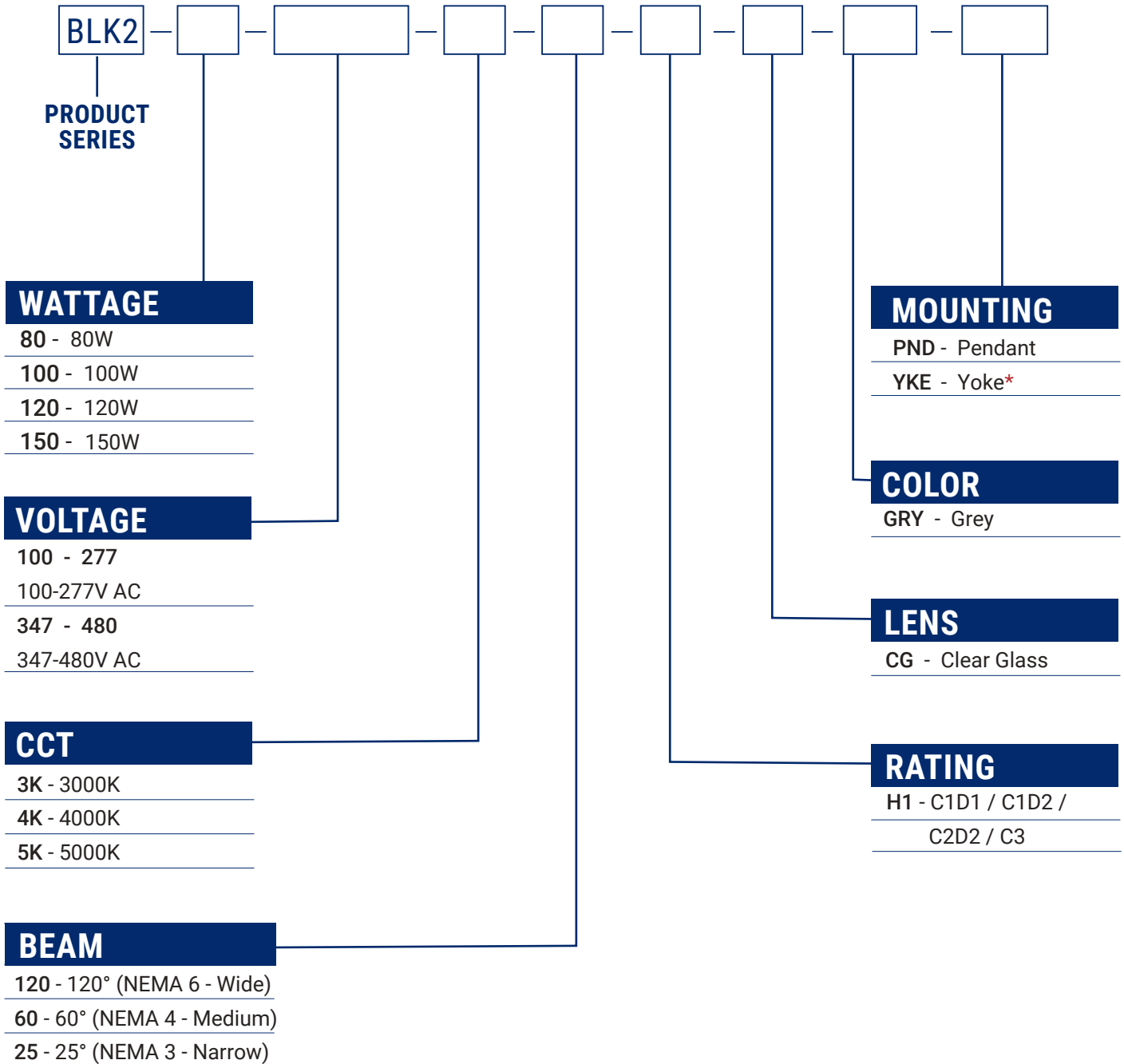
# TECHNICAL PARAMETERS

| Specification                      | BLK2-H1-80                        | BLK2-H1-100 | BLK2-H1-120    | BLK2-H1-150 |
|------------------------------------|-----------------------------------|-------------|----------------|-------------|
| Electrical Parameters              |                                   |             |                |             |
| Power                              | 80W                               | 100W        | 120W           | 150W        |
| Rated Input Current(100V AC)       | 0.740A                            | 0.925A      | 1.111A         | 1.388A      |
| Rated Input Current(277V AC)       | 0.320A                            | 0.401A      | 0.481A         | 0.601A      |
| Rated Input Current(347V AC)       | 0.256A                            | 0.320A      | 0.384A         | 0.480A      |
| Rated Input Current(480V AC)       | 0.185A                            | 0.231A      | 0.277A         | 0.347A      |
| Voltage/Frequency                  | 100-277V AC, 347-480V AC 50/60Hz  |             |                |             |
| Power Factor                       | ≥0.90                             |             |                |             |
| THD                                | <20%                              |             |                |             |
| L70                                | 121,000 hrs@140°F                 |             |                |             |
| Dimming                            | 0-10V, Range 10-100%              |             |                |             |
| Surge Protection                   | 6KV                               |             |                |             |
| Supply Wire                        | 12-18AWG , Rated 90°C             |             |                |             |
| Warranty                           | LEDs: 10 years, Driver: 7 years   |             |                |             |
| Optical Parameters                 |                                   |             |                |             |
| Lumen Output*                      | 12,320Lm                          | 14,162Lm    | 17,680Lm       | 21,227Lm    |
| Lumen Efficacy*                    | 150Lm/W                           |             |                |             |
| Available Beam Angle               | 25° / 60° / 120°                  |             |                |             |
| Correlated Color Temperature (CCT) | 3000K/4000K/5000K                 |             |                |             |
| Color Rendering Index (CRI)        | Ra>70                             |             |                |             |
| Mechanical Parameters              |                                   |             |                |             |
| Housing Material                   | die-cast aluminum                 |             |                |             |
| Hardware                           | Stainless steel 316               |             |                |             |
| Lens Material                      | Tempered Glass                    |             |                |             |
| Mounting Options                   | Pendant, Yoke, Stanchion          |             |                |             |
| Product Weight                     | 33.5lbs/15.2kg                    |             | 33.7lbs/15.3kg |             |
| Package Weight                     | 35.6lbs/16.2kg                    |             | 35.8lbs/16.3kg |             |
| Cable Entry                        | (3) 3/4" NPT                      |             |                |             |
| Product Dimensions(L×W×H)          | 12.9×10.7×8.4in (328×271×214mm)   |             |                |             |
| Package Dimensions(L×W×H)          | 15.1×13.9×10in (383×353×255mm)    |             |                |             |
| Environmental Parameters           |                                   |             |                |             |
| Vibration Resistance               | 1.5G ( ANSI C136.31 )             |             |                |             |
| Ambient Operating Temperature      | -40°F ~ +140°F (-40°C ~ +60°C)    |             |                |             |
| T-Code Rating                      | C1D1 – T6, C1D2 – T4A, C2D2 – T4A |             |                |             |
| EPA wind rating (FT2)              | 1.715 (Yoke), 1.735 (Stanchion)   |             |                |             |

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

# ORDERING INFORMATION

**EXAMPLE:** BLK2-80-100-277-5K-120-H1-CG-GRY-PND



\* BLK-YOKE Pre-installed, Contact sales for other Yoke options.

## MOUNTING ACCESSORIES



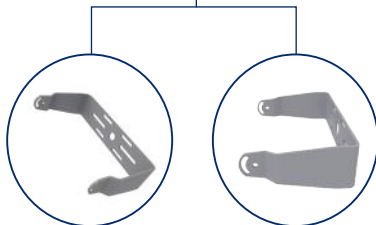
Pendant



Yoke



Stanchion



BLK-YOKE

BLK-360Y



STAN01

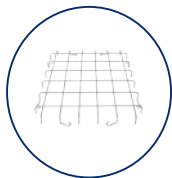
| Mounting Method | PN       | Description                                                                                                                     | MPN Code  |
|-----------------|----------|---------------------------------------------------------------------------------------------------------------------------------|-----------|
| Yoke            | BLK-YOKE | Yoke Mount SUS304, Powder-Coated Grey RAL 7037                                                                                  | 309050055 |
|                 | BLK-360Y | 360-Degrees Rotation Yoke Mount, SUS304, Powder-Coated Grey RAL 7037                                                            | 201010115 |
| Stanchion       | STAN01*  | Slip-Fit Stanchion Mount Kit for $\Phi 2$ inch (2-3/8 inch OD, 60mm OD) Poles, Non-Threaded, SUS304, Powder-Coated Grey RAL 703 | 309050300 |

\* Requires A Yoke Mount

## OTHER ACCESSORIES



SFCB01



BLK-WG



BLK-VISO



HOOK02

| PN       | Description                                | MPN Code  |
|----------|--------------------------------------------|-----------|
| SFCB01   | Safety Cable Kit, SUS304                   | 106060018 |
| BLK-WG   | Lens Wire Guard, SUS304                    | 106060013 |
| BLK-VISO | Visor, SUS304, Powder-Coated Grey RAL 7037 | 101040169 |
| HOOK02   | M10 Hook with 3/4 inch NPT Threads, SUS316 | 309050331 |

## **REPLACEMENT PARTS (ORDERED SEPARATELY)**

| Part Number             | Description                                          | MPN Code  |
|-------------------------|------------------------------------------------------|-----------|
| BLK2-80-100-277-Driver  | Replacement Driver Kit for BLK2-80-100-277 Fixtures  | 303010020 |
| BLK2-100-100-277-Driver | Replacement Driver Kit for BLK2-100-100-277 Fixtures | 303010021 |
| BLK2-120-100-277-Driver | Replacement Driver Kit for BLK2-120-100-277 Fixtures | 303010022 |
| BLK2-150-100-277-Driver | Replacement Driver Kit for BLK2-150-100-277 Fixtures | 303010023 |
| BLK2-80-347-480-Driver  | Replacement Driver Kit for BLK2-80-347-480 Fixtures  | 303010024 |
| BLK2-100-347-480-Driver | Replacement Driver Kit for BLK2-100-347-480 Fixtures | 303010025 |
| BLK2-120-347-480-Driver | Replacement Driver Kit for BLK2-120-347-480 Fixtures | 303010026 |
| BLK2-150-347-480-Driver | Replacement Driver Kit for BLK2-150-347-480 Fixtures | 303010027 |

## **LUMEN TABLE**

| PN                                    | Wattage (W) | CCT   | Beam | Lens        | Lumen Output (Lm) | Efficiency (Lm/W) |
|---------------------------------------|-------------|-------|------|-------------|-------------------|-------------------|
| <b>Voltage 100-277V AC</b>            |             |       |      |             |                   |                   |
| BLK2-80-100-277-5K-120-H1-CG-GRY-YKE  | 80          | 5000K | 120° | Clear Glass | 12,320            | 151               |
| BLK2-80-100-277-5K-60-H1-CG-GRY-YKE   | 80          | 5000K | 60°  | Clear Glass | 11,180            | 136               |
| BLK2-80-100-277-5K-25-H1-CG-GRY-YKE   | 80          | 5000K | 25°  | Clear Glass | 11,797            | 154               |
| BLK2-100-100-277-5K-120-H1-CG-GRY-YKE | 100         | 5000K | 120° | Clear Glass | 14,162            | 148               |
| BLK2-100-100-277-5K-60-H1-CG-GRY-YKE  | 100         | 5000K | 60°  | Clear Glass | 12,799            | 132               |
| BLK2-100-100-277-5K-25-H1-CG-GRY-YKE  | 100         | 5000K | 25°  | Clear Glass | 14,460            | 150               |
| BLK2-120-100-277-5K-120-H1-CG-GRY-YKE | 120         | 5000K | 120° | Clear Glass | 17,680            | 146               |
| BLK2-120-100-277-5K-60-H1-CG-GRY-YKE  | 120         | 5000K | 60°  | Clear Glass | 16,497            | 132               |
| BLK2-120-100-277-5K-25-H1-CG-GRY-YKE  | 120         | 5000K | 25°  | Clear Glass | 17,393            | 150               |
| BLK2-150-100-277-5K-120-H1-CG-GRY-YKE | 150         | 5000K | 120° | Clear Glass | 21,227            | 147               |
| BLK2-150-100-277-5K-60-H1-CG-GRY-YKE  | 150         | 5000K | 60°  | Clear Glass | 18,695            | 128               |
| BLK2-150-100-277-5K-25-H1-CG-GRY-YKE  | 150         | 5000K | 25°  | Clear Glass | 21,829            | 144               |
| <b>Voltage 347-480V AC</b>            |             |       |      |             |                   |                   |
| BLK2-80-347-480-5K-120-H1-CG-GRY-YKE  | 80          | 5000K | 120° | Clear Glass | 11,951            | 152               |
| BLK2-80-347-480-5K-60-H1-CG-GRY-YKE   | 80          | 5000K | 60°  | Clear Glass | 10,946            | 138               |
| BLK2-80-347-480-5K-25-H1-CG-GRY-YKE   | 80          | 5000K | 25°  | Clear Glass | 12,184            | 156               |
| BLK2-100-347-480-5K-120-H1-CG-GRY-YKE | 100         | 5000K | 120° | Clear Glass | 14,736            | 152               |
| BLK2-100-347-480-5K-60-H1-CG-GRY-YKE  | 100         | 5000K | 60°  | Clear Glass | 13,323            | 135               |
| BLK2-100-347-480-5K-25-H1-CG-GRY-YKE  | 100         | 5000K | 25°  | Clear Glass | 14,970            | 154               |
| BLK2-120-347-480-5K-120-H1-CG-GRY-YKE | 120         | 5000K | 120° | Clear Glass | 18,122            | 153               |
| BLK2-120-347-480-5K-60-H1-CG-GRY-YKE  | 120         | 5000K | 60°  | Clear Glass | 16,184            | 135               |
| BLK2-120-347-480-5K-25-H1-CG-GRY-YKE  | 120         | 5000K | 25°  | Clear Glass | 17,790            | 154               |
| BLK2-150-347-480-5K-120-H1-CG-GRY-YKE | 150         | 5000K | 120° | Clear Glass | 21,640            | 150               |
| BLK2-150-347-480-5K-60-H1-CG-GRY-YKE  | 150         | 5000K | 60°  | Clear Glass | 19,234            | 131               |
| BLK2-150-347-480-5K-25-H1-CG-GRY-YKE  | 150         | 5000K | 25°  | Clear Glass | 21,982            | 149               |

For additional information, please contact your sales representative.

## A DIRECT RETROFIT FROM HID TO LED

The BLK series LED is easy to retrofit in the same configuration as your existing HID luminaires. For example, a 150-watt Block (BLK2-150) delivers virtually the same illumination as its equivalent 450 watt Metal Halide luminaire while providing 80% reduction in energy costs and up to 148,000 hours of continuous operation.

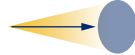
| MODELS   | Lumen Output (Lm) | MH Equivalent (W) | HPS Equivalent (W) |
|----------|-------------------|-------------------|--------------------|
| BLK2-80  | 12,320            | 250               | 310                |
| BLK2-100 | 14,162            | 320               | 360                |
| BLK2-120 | 17,680            | 400               | 400                |
| BLK2-150 | 21,227            | 450               | 400                |

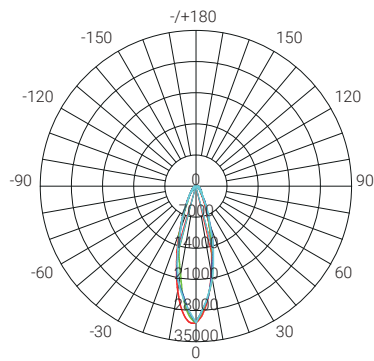
## THE RIGHT BEAM PATTERN FOR YOUR APPLICATION

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

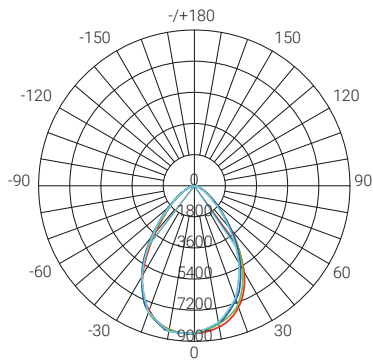
RSL offers complimentary lighting design services for our products using industry-leading AGI32 software, tailored for projects of all sizes in harsh and hazardous locations. We assist you in determining the number of fixtures needed, the types of lights to use, their optimal placement, and how to maximize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

Simply fill out the form (<https://dev.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.

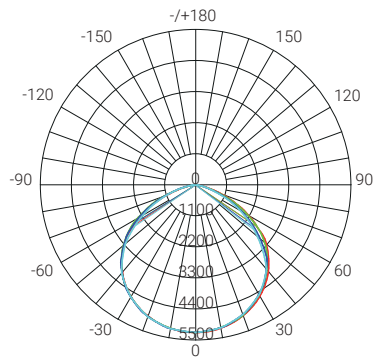
| Beam | NEMA/IESNA Type           | Beam Description                                                                                                                | Beam Projection Distance                                                              |
|------|---------------------------|---------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 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<br>Type V (Square) | Very Wide: symmetrical pattern with excellent uniformity for large, open areas.                                                 |  |



**25°  
NEMA 3 - Narrow**



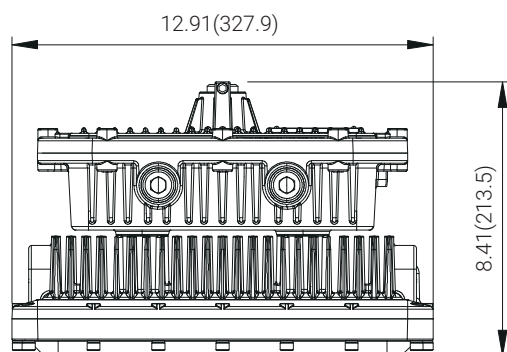
**60°  
NEMA 4 - Medium**



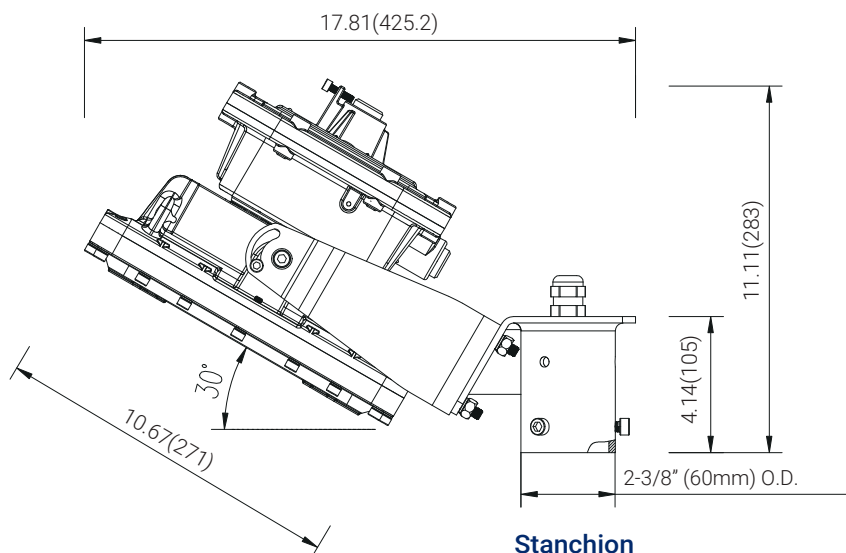
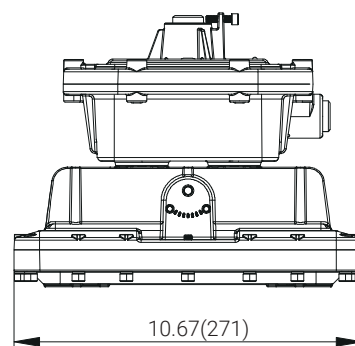
**120°  
NEMA 6 - Wide**

## DIMENSIONS

unit: in(mm)

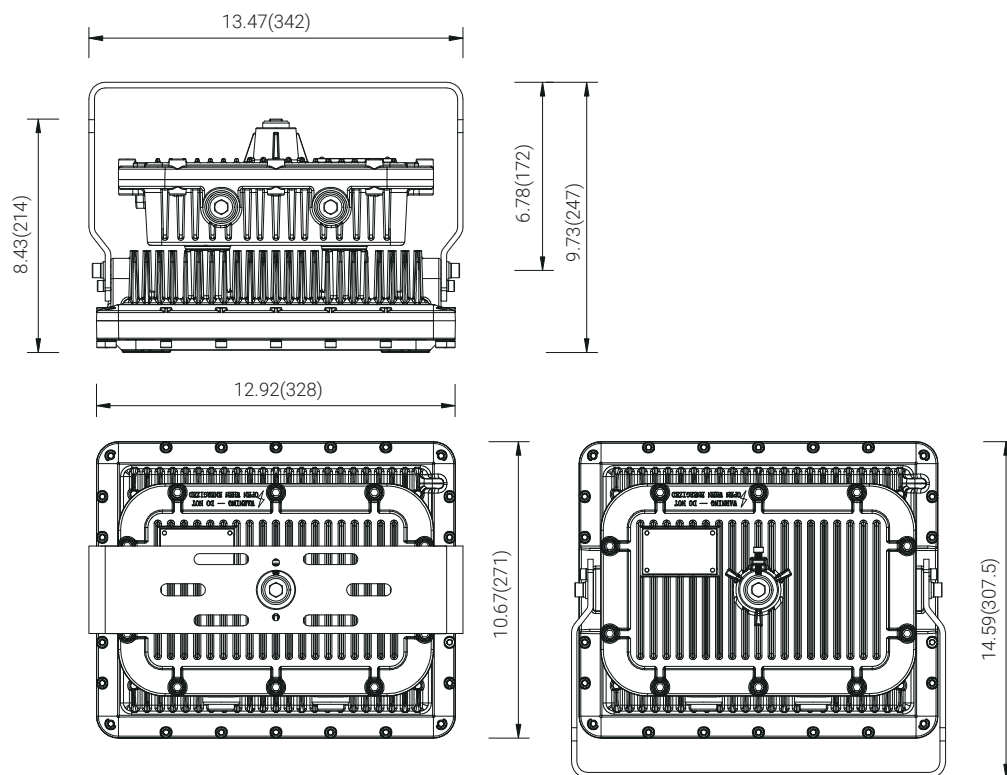


**Pendant**

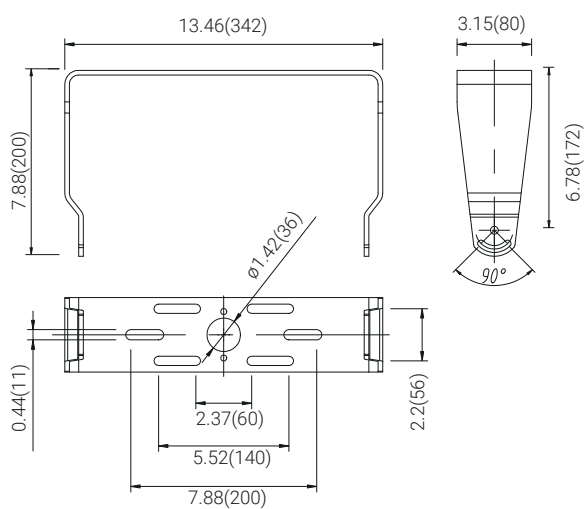


**Stanchion**

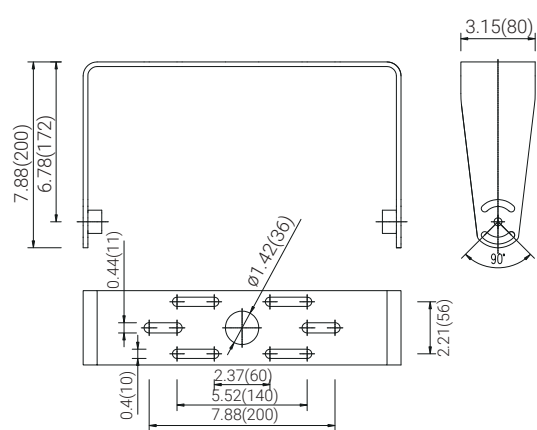
unit: in(mm)



Yoke



BLK-YOKE



BLK-360Y

# HAZARDOUS LOCATION LIGHTING BASICS

## Atmosphere Groups

| Substance                                                                                | Hazard Class                     | Division Groups      | Zone Groups       | Max. Surface Temperatures | NEC® 500 CEC® | NEC® 500/IEC-Group II |
|------------------------------------------------------------------------------------------|----------------------------------|----------------------|-------------------|---------------------------|---------------|-----------------------|
| Acetylene                                                                                | Class I<br>Flammable<br>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 <sup>2</sup>  | 230°C(446°F)              | T2C           |                       |
| Combustible Metal Dusts                                                                  | Class II<br>Combustible<br>Dusts | Group E <sup>1</sup> | IIIC <sup>3</sup> | 215°C(419°F)              | T2D           |                       |
| Combustible Carbonaceous Dust                                                            |                                  | Group F              | IIIB <sup>3</sup> | 200°C(392°F)              | T3            | T3                    |
| Combustible Dusts not in Group E or F<br>(Flour, Grain, Wood, Plastics, Chemicals)       |                                  | Group G              | IIIB <sup>3</sup> | 180°C(256°F)              | T3A           |                       |
|                                                                                          |                                  |                      |                   | 165°C(329°F)              | T3B           |                       |
|                                                                                          |                                  |                      |                   | 160°C(320°F)              | T3C           |                       |
| Combustible Fibers and Flyings                                                           | Class III Fibers and Flyings     | Not Applicable       | IIIA <sup>3</sup> | 135°C(275°F)              | T4            | T4                    |
| Note 1: Group E is applicable to Class II, Division 1 only.                              |                                  |                      |                   | 120°C(248°F)              | T4A           |                       |
| Note 2: Methane is a Group IIA Gas for non-mining applications.                          |                                  |                      |                   | 100°C(212°F)              | T5            | T5                    |
| Note 3: Group IIIA, IIIB and IIIC have not been adopted by the Canadian Electrical Code. |                                  |                      |                   | 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**

The product information provided is, to the best of Red Sky Lighting's knowledge, accurate as of the date of publication. However, purchasers and end-users of Red Sky Lighting's products should refer to the documentation available on [www.redskylighting.com](http://www.redskylighting.com) for the most up-to-date and controlling product specifications, installation manuals, sales terms and conditions, and warranty terms. To the extent any contract is formed for the sale of Red Sky Lighting's products, whether directly with Red Sky Lighting or through any third party, the versions of such documentation posted on [www.redskylighting.com](http://www.redskylighting.com) as of the date of sale shall govern and prevail over any inconsistent information that may be provided elsewhere. In the event of a conflict between the information contained in this document and that available on [www.redskylighting.com](http://www.redskylighting.com), the website documentation shall control.