



red**dot** winner 2024  
lighting design

# MODULAR MAX SERIES

LED LIGHTING FOR HAZARDOUS AREAS  
FLOOD & HIGHBAY



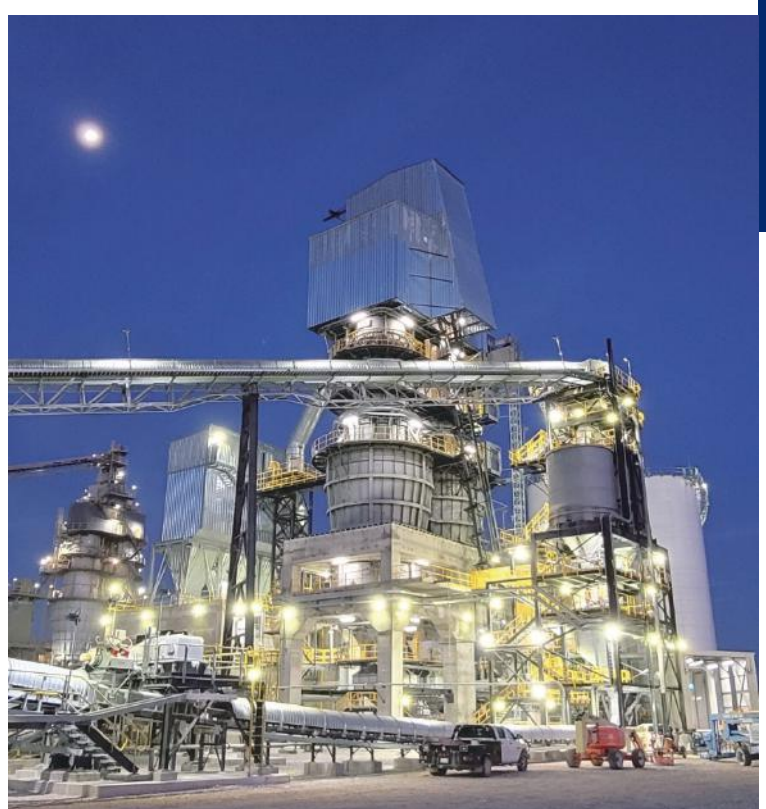
**Reliable. Durable. Efficient.**  
**15,000 to 66,000 lumen models**

**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





# MODULAR MAX SERIES



The Modular Max Series packs powerful performance with a high lumen output of up to 70,000 lumens and excellent luminous efficacy of up to 166 lm/W. This is achieved while maintaining a lightweight and compact design, making it over 25% lighter than comparable C1D2/C2D1 floodlights.

Certified for C1D2/C2D1 hazardous locations, the Modular Max Series withstands even the harshest environments. Its craftsmanship and rigorous testing ensure optimal performance under extreme conditions, maintaining high output from -49°F to +149°F (-45°C to +65°C). An outstanding thermal design and robust quality provide durable operation.

Versatile, intelligent design allows equal use as a floodlight or high bay solution. Unique product structure design simplifies installation and manufacturing. The light housing utilizes recyclable metal alloys, supporting sustainability. Additional accessories reduce light pollution, Red Sky Lighting is committed to responsible, efficient, and eco-friendly solutions. The Modular Max Series delivers unprecedented performance for demanding industrial applications.





## FEATURES



### Compact and Light-Weight Design

### Offering 15,000-66,000 Lm Wide Range Selection

### Safe and Reliable Heat Transfer, Can be Used in High/Low Ambient Temperatures

-49°F to +149°F for 15,000 - 30,000 Lm  
-49°F to +131°F for 37,000 - 66,000 Lm

### Easy Installation

Easy Wiring, More Room for Wiring

### Warranty

Standard: 7 Years  
Extended: 10 years

## RATINGS

|                                       |                                           |
|---------------------------------------|-------------------------------------------|
| Class I Division 2, Groups A, B, C, D | UL 1598 Wet Locations                     |
| Class II Division 1 Group E, F, G     | UL 1598A Marine Outside Type (Salt Water) |
| Class II Division 2, Groups F, G      | IP66/67, NEMA 4X                          |
| Class III                             | IK10                                      |
| Simultaneous Presence                 | 3G Vibration (ANSI C136.31)               |
| Class I, Zone 2, Group IIC            | Salt Spray 720 hrs (ISO 9227)             |
| Zone 20, 21 & 22                      |                                           |

## CERTIFICATIONS

UL844  
UL1598  
UL1598A  
CSA C22.2 No. 250.0  
CSA C22.2 No. 137  
DLC Premium\*  
FCC 47 CFR 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

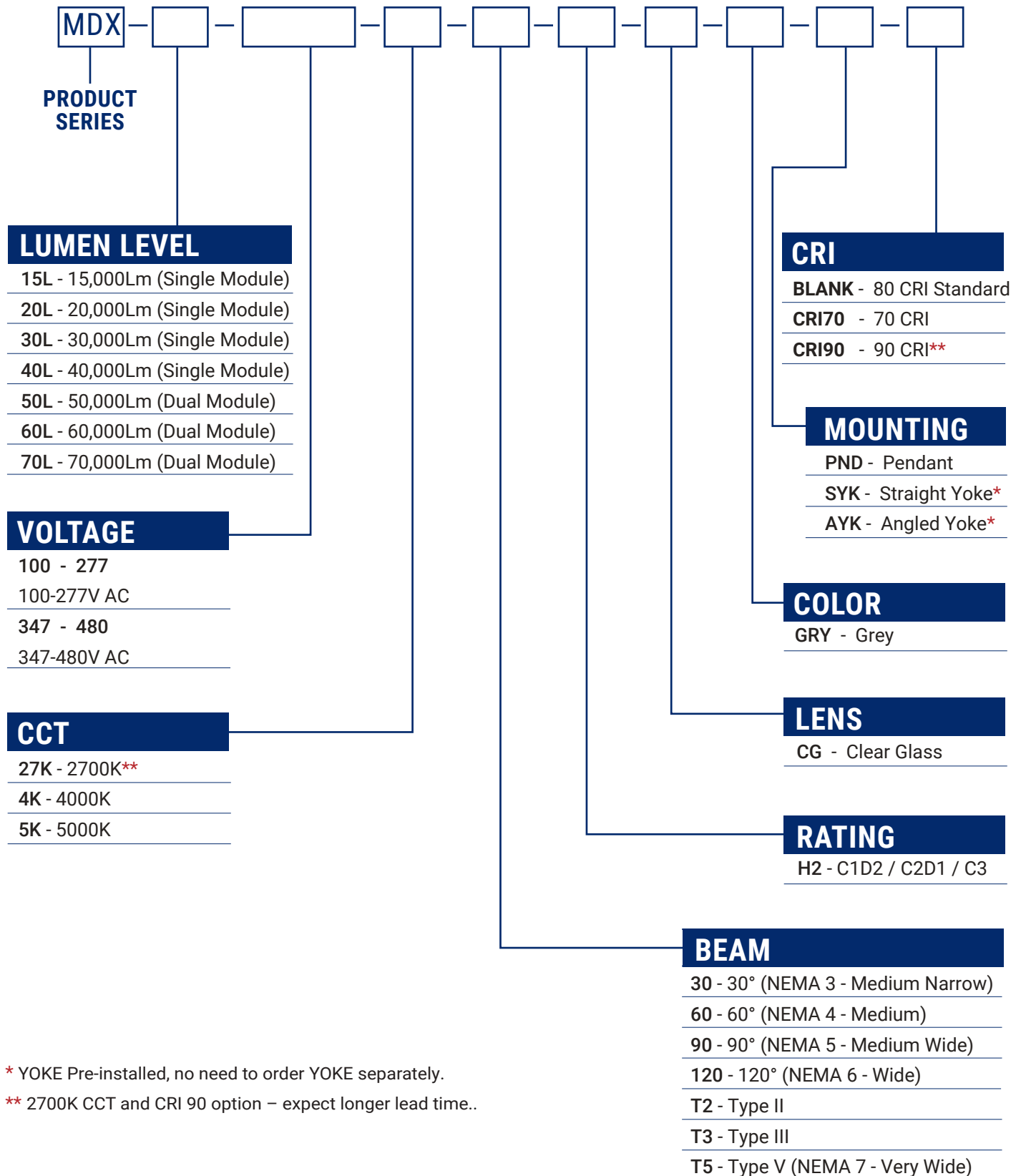
| Specification                      | MDX-15L                                               | MDX-20L  | MDX-30L  | MDX-40L                       | MDX-50L                            | MDX-60L                  | MDX-70L  |
|------------------------------------|-------------------------------------------------------|----------|----------|-------------------------------|------------------------------------|--------------------------|----------|
| Electrical Parameters              |                                                       |          |          |                               |                                    |                          |          |
| Power                              | 90W                                                   | 120W     | 190W     | 260W                          | 310W                               | 380W                     | 440W     |
| Rated Input Current(120V AC)       | 0.833A                                                | 1.111A   | 1.759A   | 2.407A                        | 2.870A                             | 3.519A                   | 4.074A   |
| Rated Input Current(277V AC)       | 0.361A                                                | 0.481A   | 0.762A   | 1.043A                        | 1.244A                             | 1.524A                   | 1.765A   |
| Rated Input Current(347V AC)       | 0.288A                                                | 0.384A   | 0.608A   | 0.833A                        | 0.993A                             | 1.217A                   | 1.409A   |
| Rated Input Current(480V AC)       | 0.208A                                                | 0.278A   | 0.440A   | 0.602A                        | 0.718A                             | 0.880A                   | 1.019A   |
| Voltage/Frequency                  | 100-277V AC, 347-480V AC 50/60Hz                      |          |          |                               |                                    |                          |          |
| Power Factor                       | >0.90                                                 |          |          |                               |                                    |                          |          |
| THD                                | <20%                                                  |          |          |                               |                                    |                          |          |
| L70                                | 230,000 hrs@149°F                                     |          |          |                               | 230,000 hrs@131°F                  |                          |          |
| Dimming                            | 0-10V, Range 10% - 100%                               |          |          |                               |                                    |                          |          |
| Surge Protection                   | 10KV                                                  |          |          |                               |                                    |                          |          |
| Supply Wire                        | 12-18AWG, Rated 90°C min                              |          |          |                               |                                    | 12-17AWG, Rated 90°C min |          |
| Warranty                           | Standard: 7 Years, Extended: 10 years                 |          |          |                               |                                    |                          |          |
| Optical Parameters                 |                                                       |          |          |                               |                                    |                          |          |
| Lumen Output*                      | 15,074Lm                                              | 19,854Lm | 29,148Lm | 37,730Lm                      | 47,974Lm                           | 59,028Lm                 | 66,313Lm |
| Lumen Efficacy*                    | 166Lm/W                                               |          |          |                               |                                    |                          |          |
| Available Beam Angle               | 30° / 60° / 90° / 120° / T2 / T3 / T5                 |          |          |                               |                                    |                          |          |
| Correlated Color Temperature (CCT) | 2700K / 4000K / 5000K                                 |          |          |                               |                                    |                          |          |
| Color Rendering Index (CRI)        | 80 CRI                                                |          |          |                               |                                    |                          |          |
| Mechanical Parameters              |                                                       |          |          |                               |                                    |                          |          |
| Housing Material                   | Copper-free (< 0.4%) die-cast aluminum                |          |          |                               |                                    |                          |          |
| Hardware                           | Stainless steel 316                                   |          |          |                               |                                    |                          |          |
| Lens Material                      | Tempered Glass                                        |          |          |                               |                                    |                          |          |
| Mounting Options                   | Pendant, Straight Yoke, Angled Yoke, Chain, Stanchion |          |          |                               |                                    |                          |          |
| Product Weight                     | 21.8lbs / 9.9kg                                       |          |          |                               | 36.3lbs / 16.5kg                   |                          |          |
| Package Weight                     | 23.9lbs / 10.9kg                                      |          |          |                               | 40.1lbs / 18.2kg                   |                          |          |
| Cable Entry                        | (5) 3/4" NPT**                                        |          |          |                               |                                    |                          |          |
| Product Dimensions(L×W×H)          | 14.1×9.8×7.4 in (357×250×189 mm)                      |          |          |                               | 9.9×14.1×7.4 in (505×357×189 mm)   |                          |          |
| Package Dimensions(L×W×H)          | 19.7×13.4×11.8 in (500×340×300 mm)                    |          |          |                               | 23.6×19.7×11.8 in (600×500×300 mm) |                          |          |
| Environmental Parameters           |                                                       |          |          |                               |                                    |                          |          |
| Corrosion Resistance               | Salt Spray 720 hrs ( ISO 9227 )                       |          |          |                               |                                    |                          |          |
| Vibration Resistance               | 3G ( ANSI C136.31 )                                   |          |          |                               |                                    |                          |          |
| Ambient Operating Temperature      | -49°F ~ +149°F (-45°C ~ 65°C)                         |          |          | -49°F ~ +131°F (-45°C ~ 55°C) |                                    |                          |          |
| T-Code Rating                      | CID2 – T3C, C2D1 – T4                                 |          |          |                               |                                    |                          |          |
| EPA wind rating (FT2)              | 1.753 (Yoke), 1.888 (Stanchion)                       |          |          |                               | 2.864 (Yoke), 2.999 (Stanchion)    |                          |          |

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

\*\* Shipped with 4 blind plugs, top entry open for pendant, 1 side entry on long side open for yoke mount (15L, 20L, 30L, 40L), 1 side entry on short side open for yoke mount(50L, 60L, 70L).

# ORDERING INFORMATION

**EXAMPLE:** MDX-20L-100-277-5K-120-H2-CG-GRY-AYK BLANK



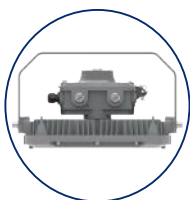
\* YOKE Pre-installed, no need to order YOKE separately.

\*\* 2700K CCT and CRI 90 option – expect longer lead time..

# MOUNTING ACCESSORIES



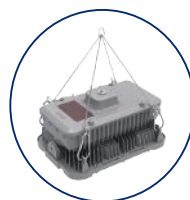
Pendant



Straight Yoke



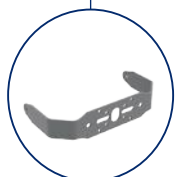
Angled Yoke



Chain



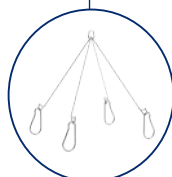
Stanchion



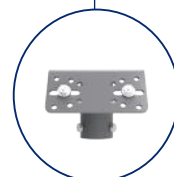
MDX-S YOKE S  
MDX-S YOKE D



MDX-A YOKE S  
MDX-A YOKE D



CHAIN02



STAN01  
STAN02

| Mounting Method | PN           | Description                                                                                                                      | MPN Code  |
|-----------------|--------------|----------------------------------------------------------------------------------------------------------------------------------|-----------|
| Straight Yoke   | MDX-S YOKE S | Straight Yoke, 0-90 Degrees Adjustable, SUS304, Powder-Coated Grey RAL 7037, only available with 15L/20L/30L/40L                 | 309050348 |
|                 | MDX-S YOKE D | Straight Yoke, 0-90 Degrees Adjustable, SUS304, Powder-Coated Grey RAL 7037, only available with 50L/60L/70L                     | 309050350 |
| Angled Yoke     | MDX-A YOKE S | 45-Degree Angled Yoke, 0-90 Degrees Adjustable, SUS304, Powder-Coated Grey RAL 7037, only available with MDX 15L/20L/30L/40L     | 309050349 |
|                 | MDX-A YOKE D | 45-Degree Angled Yoke, 0-90 Degrees Adjustable, SUS304, Powder-Coated Grey RAL 7037, only available with 50L/60L/70L             | 309050351 |
| Chain           | CHAIN02      | Chain Hang Kit, 4pcs×3ft, SUS304                                                                                                 | 309050358 |
| 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 7037 | 309050300 |
|                 | STAN02**     | Slip-Fit Stanchion Mount Kit for $\Phi$ 2 inch (2 3/8 inch OD) Poles, Non-threaded, SUS304, Powder-Coated Grey RAL 7037          | 309050362 |

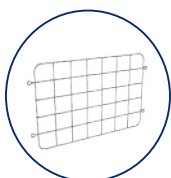
\* Requires A Straight Yoke, only available with 15L/20L/30L/40L

\*\* Requires A Straight Yoke, only available with 50L/60L/70L

## OTHER ACCESSORIES



HOOK02



MDX-WG



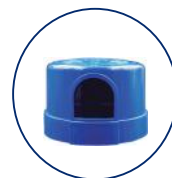
SFCB01



MDX-VISO



DPY02



DPY02

| PN       | Description                                                                                                                                                                                | MPN Code  |
|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| HOOK02   | M10 Hook with 3/4 inch NPT Threads, SUS316                                                                                                                                                 | 309050331 |
| MDX-SWG  | Wire Guard for Glass Lens                                                                                                                                                                  | 309050360 |
| MDX-DWG  | Wire Guard for Glass Lens, only available with 50L/60L/70L                                                                                                                                 | 309050361 |
| SFCB01   | 3ft Safety Cable Kit, SUS304                                                                                                                                                               | 106060018 |
| MDX-VISO | Visor, AL6061, Powder-Coated Grey RAL 7037                                                                                                                                                 | 309050359 |
| GLCO-03  | 3 ft Cord (SOOW 14 AWG × 3, 105 degrees Celsius, 600V) with Cable Gland, for C1D2 and Non-Hazardous Only                                                                                   | 204020003 |
| GLCO-10  | 10 ft Cord (SOOW 14 AWG × 3, 105 degrees Celsius, 600V) with Cable Gland, for C1D2 and Non-Hazardous Only                                                                                  | 204020004 |
| DPY02*   | Crane Damper Bracket, SUS304, Fixed with M12 Bolts                                                                                                                                         | 309050367 |
| PCLV **  | Auto dusk-to-dawn photocontrol, 120-277VAC, 50/60Hz, Turn-on: 1.5FC, 1.5:1 Off/On Ratio, 5-20s Turn-off Delay, IP66, NEMA 3-pin, Twistlock, Non-dimmable, -40°C to +70°C (-40°F to +158°F) | 103070042 |
| PCHV **  | Auto dusk-to-dawn photocontrol, 347-480VAC, 50/60Hz, Turn-on: 1.5FC, 1.5:1 Off/On Ratio, 5-20s Turn-off Delay, IP66, NEMA 3-pin, Twistlock, Non-dimmable, -40°C to +70°C (-40°F to +158°F) | 103070043 |

\* only available with MDX 15L/20L/30L/40L

\*\* UL773-compliant optional accessory, ship uninstalled in the same box as the fixture.





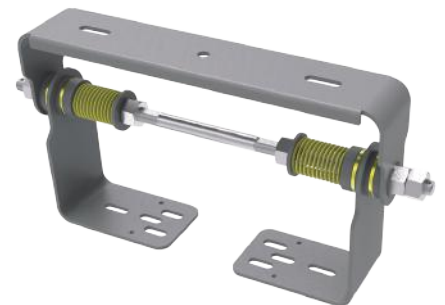
# CRANE DAMPER BRACKET



The **Damper bracket** is specifically engineered to support MDX series floodlights, effectively minimizing vibrations when installed on moving cranes. This bracket ensures that your luminaire remains directed downward, regardless of its position along the crane boom, providing consistent illumination over the intended target area.

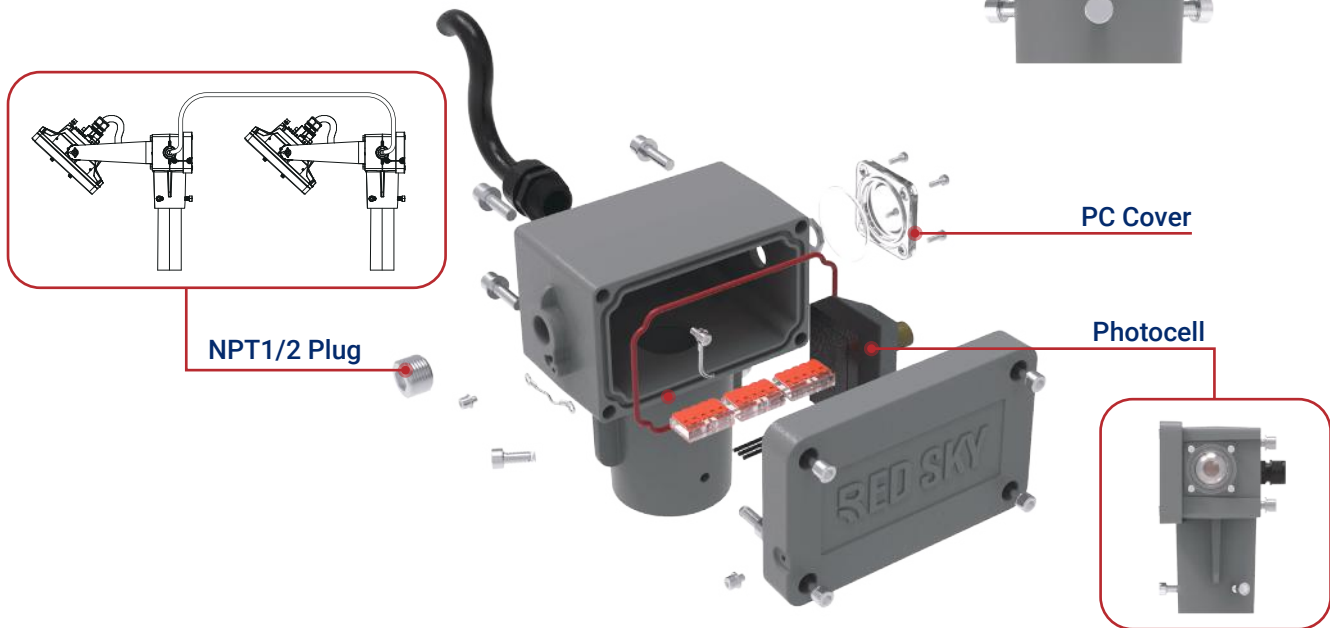
## APPLICATION

- Harbour cranes
- Gantry cranes
- Offshore/Marine cranes



# SLIP-FIT JUNCTION BOX

The **Junction Box** is a multi-piece assembly featuring a copper-free, cast-aluminum housing, front cover, and cable gland. The design accommodates both stanchion installation and other mounting options. It is compatible with 2" (2 3/8" OD) and 1.5" (1.9" OD) poles, both NPT-threaded and non-threaded.



## FEATURES

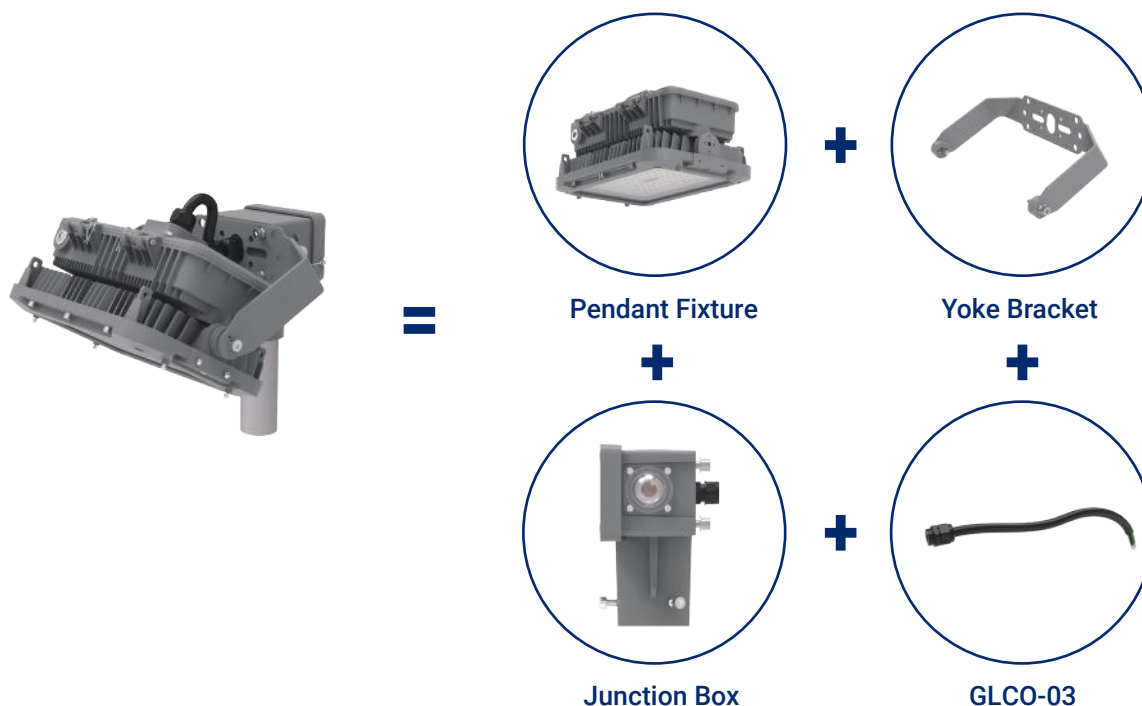
- Weather-resistant finish suitable for wet locations and marine environments
- WAGO 211 lever connectors (5-pole, UL/CSA, 20-10 AWG) for easy, hassle-free wiring
- Wiring access cover with captive screws and a rear hub featuring NPT 1/2" threads for daisy-chain wiring
- Optional C1D2 Photocell Sensor built-in
- Ambient temperature range: -45°C to +65°C (-49°F to 149°F)
- Shock and vibration-resistant design

## CERTIFICATIONS & RATINGS

UL844  
UL1598  
UL1598A  
CSA C22.2 NO. 250.0  
CSA C22.2 No. 137  
Class I Division 2, Groups A, B, C, D  
UL 1598 Wet Locations  
UL 1598A Marine Outside Type (Salt Water)  
IP66  
IK10  
Salt Spray 720 hrs (ISO 9227)

# SLIP-FIT JUNCTION BOX

## INSTALLATION EXAMPLE



## ORDERING INFORMATION

| Part Number  | Description                                                                                          | MPN Code  |
|--------------|------------------------------------------------------------------------------------------------------|-----------|
| JB01         | 1.5" (1.9" OD) and 2"(2 3/8" OD) NPT-threaded Slip-Fit Junction box                                  | 309050379 |
| JB02-P       | 1.5" (1.9" OD) and 2"(2 3/8" OD) NPT-threaded Slip-Fit Junction box + Sensor (120V)                  | 309050380 |
| JB03-P       | 1.5" (1.9" OD) and 2"(2 3/8" OD) NPT-threaded Slip-Fit Junction box + Sensor (208-277V)              | 309050381 |
| JB04         | 1.5" (1.9" OD) and 2"(2 3/8" OD) Non-threaded Slip-Fit Junction box                                  | 309050382 |
| JB05-P       | 1.5" (1.9" OD) and 2"(2 3/8" OD) Non-threaded Slip-Fit Junction box + Sensor (120V)                  | 309050383 |
| JB06-P       | 1.5" (1.9" OD) and 2"(2 3/8" OD) Non-threaded Slip-Fit Junction box + Sensor (208-277V)              | 309050384 |
| MDX-A YOKE S | 45°Angled YOKE, 0-90° adjustable, SUS304 powder coated, RAL7037, available only with 15L/20L/30L/40L | 310010115 |
| MDX-A YOKE D | 45°Angled YOKE, 0-90° adjustable, SUS304 powder coated, RAL7037, available only with 50L/60L/70L     | 310010117 |
| GLCO-03      | 3ft Cord (SOOW 14AWG*3, 105°C, 600V) with cable gland, for C1D2 and non-hazardous only               | 204020003 |



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

| Part Number            | Description                                         | MPN Code  |
|------------------------|-----------------------------------------------------|-----------|
| MDX-15L-100-277-Driver | Replacement driver kit for MDX-15L-100-277 Fixtures | 303010001 |
| MDX-15L-347-480-Driver | Replacement driver kit for MDX-15L-347-480 Fixtures | 303010002 |
| MDX-20L-100-277-Driver | Replacement driver kit for MDX-20L-100-277 Fixtures | 303010003 |
| MDX-20L-347-480-Driver | Replacement driver kit for MDX-20L-347-480 Fixtures | 303010004 |
| MDX-30L-100-277-Driver | Replacement driver kit for MDX-30L-100-277 Fixtures | 303010005 |
| MDX-30L-347-480-Driver | Replacement driver kit for MDX-30L-347-480 Fixtures | 303010006 |
| MDX-40L-100-277-Driver | Replacement driver kit for MDX-40L-100-277 Fixtures | 303010007 |
| MDX-40L-347-480-Driver | Replacement driver kit for MDX-40L-347-480 Fixtures | 303010008 |
| MDX-50L-100-277-Driver | Replacement driver kit for MDX-50L-100-277 Fixtures | 303010009 |
| MDX-50L-347-480-Driver | Replacement driver kit for MDX-50L-347-480 Fixtures | 303010010 |
| MDX-60L-100-277-Driver | Replacement driver kit for MDX-60L-100-277 Fixtures | 303010011 |
| MDX-60L-347-480-Driver | Replacement driver kit for MDX-60L-347-480 Fixtures | 303010012 |
| MDX-70L-100-277-Driver | Replacement driver kit for MDX-70L-100-277 Fixtures | 303010013 |
| MDX-70L-347-480-Driver | Replacement driver kit for MDX-70L-347-480 Fixtures | 303010014 |

| PN                                          | Wattage (W) | CCT   | CRI | Beam | Lens        | Lumen Output (Lm) | Efficiency (Lm/W) |
|---------------------------------------------|-------------|-------|-----|------|-------------|-------------------|-------------------|
| <b>Voltage 100-277VAC 80 CRI • STANDARD</b> |             |       |     |      |             |                   |                   |
| MDX-15L-100-277-5K-120-H2-CG-GRY-PND        | 90          | 5000K | 80  | 120  | Clear Glass | 15,047            | 166               |
| MDX-15L-100-277-5K-30-H2-CG-GRY-PND         | 90          | 5000K | 80  | 30   | Clear Glass | 15,126            | 166               |
| MDX-15L-100-277-5K-60-H2-CG-GRY-PND         | 90          | 5000K | 80  | 60   | Clear Glass | 15,349            | 168               |
| MDX-15L-100-277-5K-90-H2-CG-GRY-PND         | 90          | 5000K | 80  | 90   | Clear Glass | 15,657            | 171               |
| MDX-15L-100-277-5K-T2-H2-CG-GRY-PND         | 90          | 5000K | 80  | T2   | Clear Glass | 14,341            | 157               |
| MDX-15L-100-277-5K-T3-H2-CG-GRY-PND         | 90          | 5000K | 80  | T3   | Clear Glass | 14,899            | 163               |
| MDX-15L-100-277-5K-T5-H2-CG-GRY-PND         | 120         | 5000K | 80  | T5   | Clear Glass | 13,621            | 150               |
| MDX-20L-100-277-5K-120-H2-CG-GRY-PND        | 120         | 5000K | 80  | 120  | Clear Glass | 19,854            | 163               |
| MDX-20L-100-277-5K-30-H2-CG-GRY-PND         | 120         | 5000K | 80  | 30   | Clear Glass | 19,881            | 163               |
| MDX-20L-100-277-5K-60-H2-CG-GRY-PND         | 120         | 5000K | 80  | 60   | Clear Glass | 19,787            | 164               |
| MDX-20L-100-277-5K-90-H2-CG-GRY-PND         | 120         | 5000K | 80  | 90   | Clear Glass | 19,972            | 165               |
| MDX-20L-100-277-5K-T2-H2-CG-GRY-PND         | 120         | 5000K | 80  | T2   | Clear Glass | 18,600            | 155               |
| MDX-20L-100-277-5K-T3-H2-CG-GRY-PND         | 120         | 5000K | 80  | T3   | Clear Glass | 19,241            | 160               |
| MDX-20L-100-277-5K-T5-H2-CG-GRY-PND         | 120         | 5000K | 80  | T5   | Clear Glass | 17,611            | 147               |
| MDX-30L-100-277-5K-120-H2-CG-GRY-PND        | 190         | 5000K | 80  | 120  | Clear Glass | 29,148            | 154               |
| MDX-30L-100-277-5K-30-H2-CG-GRY-PND         | 190         | 5000K | 80  | 30   | Clear Glass | 29,751            | 155               |
| MDX-30L-100-277-5K-60-H2-CG-GRY-PND         | 190         | 5000K | 80  | 60   | Clear Glass | 30,193            | 157               |
| MDX-30L-100-277-5K-90-H2-CG-GRY-PND         | 190         | 5000K | 80  | 90   | Clear Glass | 30,257            | 159               |
| MDX-30L-100-277-5K-T2-H2-CG-GRY-PND         | 190         | 5000K | 80  | T2   | Clear Glass | 28,230            | 148               |
| MDX-30L-100-277-5K-T3-H2-CG-GRY-PND         | 190         | 5000K | 80  | T3   | Clear Glass | 28,797            | 152               |
| MDX-30L-100-277-5K-T5-H2-CG-GRY-PND         | 190         | 5000K | 80  | T5   | Clear Glass | 26,805            | 140               |
| MDX-40L-100-277-5K-120-H2-CG-GRY-PND        | 260         | 5000K | 80  | 120  | Clear Glass | 37,730            | 149               |
| MDX-40L-100-277-5K-30-H2-CG-GRY-PND         | 260         | 5000K | 80  | 30   | Clear Glass | 38,649            | 152               |
| MDX-40L-100-277-5K-60-H2-CG-GRY-PND         | 260         | 5000K | 80  | 60   | Clear Glass | 38,575            | 152               |
| MDX-40L-100-277-5K-90-H2-CG-GRY-PND         | 260         | 5000K | 80  | 90   | Clear Glass | 38,572            | 152               |
| MDX-40L-100-277-5K-T2-H2-CG-GRY-PND         | 260         | 5000K | 80  | T2   | Clear Glass | 35,838            | 141               |
| MDX-40L-100-277-5K-T3-H2-CG-GRY-PND         | 260         | 5000K | 80  | T3   | Clear Glass | 36,960            | 146               |
| MDX-40L-100-277-5K-T5-H2-CG-GRY-PND         | 260         | 5000K | 80  | T5   | Clear Glass | 34,220            | 135               |
| MDX-50L-100-277-5K-120-H2-CG-GRY-PND        | 310         | 5000K | 80  | 120  | Clear Glass | 47,974            | 155               |
| MDX-50L-100-277-5K-30-H2-CG-GRY-PND         | 310         | 5000K | 80  | 30   | Clear Glass | 51,920            | 169               |
| MDX-50L-100-277-5K-60-H2-CG-GRY-PND         | 310         | 5000K | 80  | 60   | Clear Glass | 49,168            | 160               |
| MDX-50L-100-277-5K-90-H2-CG-GRY-PND         | 310         | 5000K | 80  | 90   | Clear Glass | 49,073            | 160               |
| MDX-50L-100-277-5K-T2-H2-CG-GRY-PND         | 310         | 5000K | 80  | T2   | Clear Glass | 45,610            | 169               |
| MDX-50L-100-277-5K-T3-H2-CG-GRY-PND         | 310         | 5000K | 80  | T3   | Clear Glass | 47,983            | 156               |
| MDX-50L-100-277-5K-T5-H2-CG-GRY-PND         | 310         | 5000K | 80  | T5   | Clear Glass | 43,799            | 143               |
| MDX-60L-100-277-5K-120-H2-CG-GRY-PND        | 380         | 5000K | 80  | 120  | Clear Glass | 59,028            | 155               |
| MDX-60L-100-277-5K-30-H2-CG-GRY-PND         | 380         | 5000K | 80  | 30   | Clear Glass | 60,719            | 160               |
| MDX-60L-100-277-5K-60-H2-CG-GRY-PND         | 380         | 5000K | 80  | 60   | Clear Glass | 60,995            | 160               |
| MDX-60L-100-277-5K-90-H2-CG-GRY-PND         | 380         | 5000K | 80  | 90   | Clear Glass | 61,510            | 161               |
| MDX-60L-100-277-5K-T2-H2-CG-GRY-PND         | 380         | 5000K | 80  | T2   | Clear Glass | 56,202            | 147               |
| MDX-60L-100-277-5K-T3-H2-CG-GRY-PND         | 380         | 5000K | 80  | T3   | Clear Glass | 58,570            | 153               |
| MDX-60L-100-277-5K-T5-H2-CG-GRY-PND         | 380         | 5000K | 80  | T5   | Clear Glass | 54,246            | 143               |
| MDX-70L-100-277-5K-120-H2-CG-GRY-PND        | 440         | 5000K | 80  | 120  | Clear Glass | 66,313            | 151               |
| MDX-70L-100-277-5K-30-H2-CG-GRY-PND         | 440         | 5000K | 80  | 30   | Clear Glass | 68,251            | 156               |
| MDX-70L-100-277-5K-60-H2-CG-GRY-PND         | 440         | 5000K | 80  | 60   | Clear Glass | 68,952            | 152               |
| MDX-70L-100-277-5K-90-H2-CG-GRY-PND         | 440         | 5000K | 80  | 90   | Clear Glass | 69,079            | 157               |
| MDX-70L-100-277-5K-T2-H2-CG-GRY-PND         | 440         | 5000K | 80  | T2   | Clear Glass | 64,066            | 146               |
| MDX-70L-100-277-5K-T3-H2-CG-GRY-PND         | 440         | 5000K | 80  | T3   | Clear Glass | 65,733            | 148               |
| MDX-70L-100-277-5K-T5-H2-CG-GRY-PND         | 440         | 5000K | 80  | T5   | Clear Glass | 62,020            | 140               |

347–480Vac models deliver the same lumen output as the 100–277Vac models.

This table only lists part of the model lumen parameters, if you need other model parameters, please contact our sales.

| PN                                         | Wattage (W) | CCT   | CRI | Beam | Lens        | Lumen Output (Lm) | Efficiency (Lm/W) |
|--------------------------------------------|-------------|-------|-----|------|-------------|-------------------|-------------------|
| <b>Voltage 100-277VAC 70 CRI</b>           |             |       |     |      |             |                   |                   |
| MDX-15L-100-277-5K-120-H2-CG-GRY-PND CRI70 | 90          | 5000K | 70  | 120  | Clear Glass | 15,965            | 175               |
| MDX-15L-100-277-5K-30-H2-CG-GRY-PND CRI70  | 90          | 5000K | 70  | 30   | Clear Glass | 16,079            | 176               |
| MDX-15L-100-277-5K-60-H2-CG-GRY-PND CRI70  | 90          | 5000K | 70  | 60   | Clear Glass | 16,124            | 177               |
| MDX-15L-100-277-5K-90-H2-CG-GRY-PND CRI70  | 90          | 5000K | 70  | 90   | Clear Glass | 16,467            | 180               |
| MDX-15L-100-277-5K-T2-H2-CG-GRY-PND CRI70  | 90          | 5000K | 70  | T2   | Clear Glass | 15,000            | 165               |
| MDX-15L-100-277-5K-T3-H2-CG-GRY-PND CRI70  | 90          | 5000K | 70  | T3   | Clear Glass | 15,707            | 172               |
| MDX-15L-100-277-5K-T5-H2-CG-GRY-PND CRI70  | 120         | 5000K | 70  | T5   | Clear Glass | 14,384            | 157               |
| MDX-20L-100-277-5K-120-H2-CG-GRY-PND CRI70 | 120         | 5000K | 70  | 120  | Clear Glass | 20,460            | 173               |
| MDX-20L-100-277-5K-30-H2-CG-GRY-PND CRI70  | 120         | 5000K | 70  | 30   | Clear Glass | 20,632            | 174               |
| MDX-20L-100-277-5K-60-H2-CG-GRY-PND CRI70  | 120         | 5000K | 70  | 60   | Clear Glass | 20,585            | 174               |
| MDX-20L-100-277-5K-90-H2-CG-GRY-PND CRI70  | 120         | 5000K | 70  | 90   | Clear Glass | 21,037            | 177               |
| MDX-20L-100-277-5K-T2-H2-CG-GRY-PND CRI70  | 120         | 5000K | 70  | T2   | Clear Glass | 19,149            | 161               |
| MDX-20L-100-277-5K-T3-H2-CG-GRY-PND CRI70  | 120         | 5000K | 70  | T3   | Clear Glass | 20,021            | 169               |
| MDX-20L-100-277-5K-T5-H2-CG-GRY-PND CRI70  | 120         | 5000K | 70  | T5   | Clear Glass | 18,244            | 154               |
| MDX-30L-100-277-5K-120-H2-CG-GRY-PND CRI70 | 190         | 5000K | 70  | 120  | Clear Glass | 31,305            | 165               |
| MDX-30L-100-277-5K-30-H2-CG-GRY-PND CRI70  | 190         | 5000K | 70  | 30   | Clear Glass | 31,463            | 166               |
| MDX-30L-100-277-5K-60-H2-CG-GRY-PND CRI70  | 190         | 5000K | 70  | 60   | Clear Glass | 31,586            | 166               |
| MDX-30L-100-277-5K-90-H2-CG-GRY-PND CRI70  | 190         | 5000K | 70  | 90   | Clear Glass | 32,082            | 169               |
| MDX-30L-100-277-5K-T2-H2-CG-GRY-PND CRI70  | 190         | 5000K | 70  | T2   | Clear Glass | 29,275            | 154               |
| MDX-30L-100-277-5K-T3-H2-CG-GRY-PND CRI70  | 190         | 5000K | 70  | T3   | Clear Glass | 30,617            | 161               |
| MDX-30L-100-277-5K-T5-H2-CG-GRY-PND CRI70  | 190         | 5000K | 70  | T5   | Clear Glass | 27,970            | 147               |
| MDX-40L-100-277-5K-120-H2-CG-GRY-PND CRI70 | 260         | 5000K | 70  | 120  | Clear Glass | 39,864            | 159               |
| MDX-40L-100-277-5K-30-H2-CG-GRY-PND CRI70  | 260         | 5000K | 70  | 30   | Clear Glass | 39,904            | 159               |
| MDX-40L-100-277-5K-60-H2-CG-GRY-PND CRI70  | 260         | 5000K | 70  | 60   | Clear Glass | 40,085            | 160               |
| MDX-40L-100-277-5K-90-H2-CG-GRY-PND CRI70  | 260         | 5000K | 70  | 90   | Clear Glass | 40,632            | 162               |
| MDX-40L-100-277-5K-T2-H2-CG-GRY-PND CRI70  | 260         | 5000K | 70  | T2   | Clear Glass | 38,008            | 147               |
| MDX-40L-100-277-5K-T3-H2-CG-GRY-PND CRI70  | 260         | 5000K | 70  | T3   | Clear Glass | 39,521            | 153               |
| MDX-40L-100-277-5K-T5-H2-CG-GRY-PND CRI70  | 260         | 5000K | 70  | T5   | Clear Glass | 36,295            | 141               |
| MDX-50L-100-277-5K-120-H2-CG-GRY-PND CRI70 | 310         | 5000K | 70  | 120  | Clear Glass | 49,486            | 173               |
| MDX-50L-100-277-5K-30-H2-CG-GRY-PND CRI70  | 310         | 5000K | 70  | 30   | Clear Glass | 50,142            | 176               |
| MDX-50L-100-277-5K-60-H2-CG-GRY-PND CRI70  | 310         | 5000K | 70  | 60   | Clear Glass | 49,712            | 174               |
| MDX-50L-100-277-5K-90-H2-CG-GRY-PND CRI70  | 310         | 5000K | 70  | 90   | Clear Glass | 50,554            | 177               |
| MDX-50L-100-277-5K-T2-H2-CG-GRY-PND CRI70  | 310         | 5000K | 70  | T2   | Clear Glass | 46,072            | 162               |
| MDX-50L-100-277-5K-T3-H2-CG-GRY-PND CRI70  | 310         | 5000K | 70  | T3   | Clear Glass | 48,348            | 170               |
| MDX-50L-100-277-5K-T5-H2-CG-GRY-PND CRI70  | 310         | 5000K | 70  | T5   | Clear Glass | 44,020            | 154               |
| MDX-60L-100-277-5K-120-H2-CG-GRY-PND CRI70 | 380         | 5000K | 70  | 120  | Clear Glass | 60,933            | 172               |
| MDX-60L-100-277-5K-30-H2-CG-GRY-PND CRI70  | 380         | 5000K | 70  | 30   | Clear Glass | 62,368            | 176               |
| MDX-60L-100-277-5K-60-H2-CG-GRY-PND CRI70  | 380         | 5000K | 70  | 60   | Clear Glass | 61,877            | 176               |
| MDX-60L-100-277-5K-90-H2-CG-GRY-PND CRI70  | 380         | 5000K | 70  | 90   | Clear Glass | 62,902            | 179               |
| MDX-60L-100-277-5K-T2-H2-CG-GRY-PND CRI70  | 380         | 5000K | 70  | T2   | Clear Glass | 56,637            | 161               |
| MDX-60L-100-277-5K-T3-H2-CG-GRY-PND CRI70  | 380         | 5000K | 70  | T3   | Clear Glass | 59,504            | 169               |
| MDX-60L-100-277-5K-T5-H2-CG-GRY-PND CRI70  | 380         | 5000K | 70  | T5   | Clear Glass | 54,596            | 155               |
| MDX-70L-100-277-5K-120-H2-CG-GRY-PND CRI70 | 440         | 5000K | 70  | 120  | Clear Glass | 69,987            | 170               |
| MDX-70L-100-277-5K-30-H2-CG-GRY-PND CRI70  | 440         | 5000K | 70  | 30   | Clear Glass | 71,035            | 172               |
| MDX-70L-100-277-5K-60-H2-CG-GRY-PND CRI70  | 440         | 5000K | 70  | 60   | Clear Glass | 70,889            | 172               |
| MDX-70L-100-277-5K-90-H2-CG-GRY-PND CRI70  | 440         | 5000K | 70  | 90   | Clear Glass | 72,190            | 175               |
| MDX-70L-100-277-5K-T2-H2-CG-GRY-PND CRI70  | 440         | 5000K | 70  | T2   | Clear Glass | 65,473            | 159               |
| MDX-70L-100-277-5K-T3-H2-CG-GRY-PND CRI70  | 440         | 5000K | 70  | T3   | Clear Glass | 68,076            | 165               |
| MDX-70L-100-277-5K-T5-H2-CG-GRY-PND CRI70  | 440         | 5000K | 70  | T5   | Clear Glass | 62,659            | 152               |

347–480Vac models deliver the same lumen output as the 100–277Vac models.

This table only lists part of the model lumen parameters, if you need other model parameters, please contact our sales.



| PN                                         | Wattage (W) | CCT   | CRI | Beam | Lens        | Lumen Output (Lm) | Efficiency (Lm/W) |
|--------------------------------------------|-------------|-------|-----|------|-------------|-------------------|-------------------|
| <b>Voltage 100-277VAC 90 CRI</b>           |             |       |     |      |             |                   |                   |
| MDX-15L-100-277-5K-120-H2-CG-GRY-PND CRI90 | 90          | 5000K | 90  | 120  | Clear Glass | 12,341            | 135               |
| MDX-15L-100-277-5K-30-H2-CG-GRY-PND CRI90  | 90          | 5000K | 90  | 30   | Clear Glass | 12,429            | 136               |
| MDX-15L-100-277-5K-60-H2-CG-GRY-PND CRI90  | 90          | 5000K | 90  | 60   | Clear Glass | 12,464            | 137               |
| MDX-15L-100-277-5K-90-H2-CG-GRY-PND CRI90  | 90          | 5000K | 90  | 90   | Clear Glass | 12,729            | 139               |
| MDX-15L-100-277-5K-T2-H2-CG-GRY-PND CRI90  | 90          | 5000K | 90  | T2   | Clear Glass | 11,595            | 127               |
| MDX-15L-100-277-5K-T3-H2-CG-GRY-PND CRI90  | 90          | 5000K | 90  | T3   | Clear Glass | 12,141            | 133               |
| MDX-15L-100-277-5K-T5-H2-CG-GRY-PND CRI90  | 120         | 5000K | 90  | T5   | Clear Glass | 11,119            | 122               |
| MDX-20L-100-277-5K-120-H2-CG-GRY-PND CRI90 | 120         | 5000K | 90  | 120  | Clear Glass | 15,815            | 134               |
| MDX-20L-100-277-5K-30-H2-CG-GRY-PND CRI90  | 120         | 5000K | 90  | 30   | Clear Glass | 15,948            | 134               |
| MDX-20L-100-277-5K-60-H2-CG-GRY-PND CRI90  | 120         | 5000K | 90  | 60   | Clear Glass | 15,912            | 134               |
| MDX-20L-100-277-5K-90-H2-CG-GRY-PND CRI90  | 120         | 5000K | 90  | 90   | Clear Glass | 16,261            | 137               |
| MDX-20L-100-277-5K-T2-H2-CG-GRY-PND CRI90  | 120         | 5000K | 90  | T2   | Clear Glass | 14,802            | 125               |
| MDX-20L-100-277-5K-T3-H2-CG-GRY-PND CRI90  | 120         | 5000K | 90  | T3   | Clear Glass | 15,476            | 130               |
| MDX-20L-100-277-5K-T5-H2-CG-GRY-PND CRI90  | 120         | 5000K | 90  | T5   | Clear Glass | 14,103            | 119               |
| MDX-30L-100-277-5K-120-H2-CG-GRY-PND CRI90 | 190         | 5000K | 90  | 120  | Clear Glass | 24,199            | 127               |
| MDX-30L-100-277-5K-30-H2-CG-GRY-PND CRI90  | 190         | 5000K | 90  | 30   | Clear Glass | 24,321            | 128               |
| MDX-30L-100-277-5K-60-H2-CG-GRY-PND CRI90  | 190         | 5000K | 90  | 60   | Clear Glass | 24,416            | 128               |
| MDX-30L-100-277-5K-90-H2-CG-GRY-PND CRI90  | 190         | 5000K | 90  | 90   | Clear Glass | 24,800            | 130               |
| MDX-30L-100-277-5K-T2-H2-CG-GRY-PND CRI90  | 190         | 5000K | 90  | T2   | Clear Glass | 22,630            | 119               |
| MDX-30L-100-277-5K-T3-H2-CG-GRY-PND CRI90  | 190         | 5000K | 90  | T3   | Clear Glass | 23,667            | 124               |
| MDX-30L-100-277-5K-T5-H2-CG-GRY-PND CRI90  | 190         | 5000K | 90  | T5   | Clear Glass | 21,621            | 114               |
| MDX-40L-100-277-5K-120-H2-CG-GRY-PND CRI90 | 260         | 5000K | 90  | 120  | Clear Glass | 30,815            | 123               |
| MDX-40L-100-277-5K-30-H2-CG-GRY-PND CRI90  | 260         | 5000K | 90  | 30   | Clear Glass | 30,846            | 123               |
| MDX-40L-100-277-5K-60-H2-CG-GRY-PND CRI90  | 260         | 5000K | 90  | 60   | Clear Glass | 30,985            | 123               |
| MDX-40L-100-277-5K-90-H2-CG-GRY-PND CRI90  | 260         | 5000K | 90  | 90   | Clear Glass | 31,408            | 125               |
| MDX-40L-100-277-5K-T2-H2-CG-GRY-PND CRI90  | 260         | 5000K | 90  | T2   | Clear Glass | 29,380            | 114               |
| MDX-40L-100-277-5K-T3-H2-CG-GRY-PND CRI90  | 260         | 5000K | 90  | T3   | Clear Glass | 30,550            | 119               |
| MDX-40L-100-277-5K-T5-H2-CG-GRY-PND CRI90  | 260         | 5000K | 90  | T5   | Clear Glass | 28,056            | 109               |
| MDX-50L-100-277-5K-120-H2-CG-GRY-PND CRI90 | 310         | 5000K | 90  | 120  | Clear Glass | 38,252            | 134               |
| MDX-50L-100-277-5K-30-H2-CG-GRY-PND CRI90  | 310         | 5000K | 90  | 30   | Clear Glass | 38,760            | 136               |
| MDX-50L-100-277-5K-60-H2-CG-GRY-PND CRI90  | 310         | 5000K | 90  | 60   | Clear Glass | 38,427            | 135               |
| MDX-50L-100-277-5K-90-H2-CG-GRY-PND CRI90  | 310         | 5000K | 90  | 90   | Clear Glass | 39,078            | 137               |
| MDX-50L-100-277-5K-T2-H2-CG-GRY-PND CRI90  | 310         | 5000K | 90  | T2   | Clear Glass | 35,614            | 125               |
| MDX-50L-100-277-5K-T3-H2-CG-GRY-PND CRI90  | 310         | 5000K | 90  | T3   | Clear Glass | 37,373            | 131               |
| MDX-50L-100-277-5K-T5-H2-CG-GRY-PND CRI90  | 310         | 5000K | 90  | T5   | Clear Glass | 34,028            | 119               |
| MDX-60L-100-277-5K-120-H2-CG-GRY-PND CRI90 | 380         | 5000K | 90  | 120  | Clear Glass | 47,101            | 133               |
| MDX-60L-100-277-5K-30-H2-CG-GRY-PND CRI90  | 380         | 5000K | 90  | 30   | Clear Glass | 48,210            | 136               |
| MDX-60L-100-277-5K-60-H2-CG-GRY-PND CRI90  | 380         | 5000K | 90  | 60   | Clear Glass | 47,831            | 136               |
| MDX-60L-100-277-5K-90-H2-CG-GRY-PND CRI90  | 380         | 5000K | 90  | 90   | Clear Glass | 48,623            | 138               |
| MDX-60L-100-277-5K-T2-H2-CG-GRY-PND CRI90  | 380         | 5000K | 90  | T2   | Clear Glass | 43,780            | 124               |
| MDX-60L-100-277-5K-T3-H2-CG-GRY-PND CRI90  | 380         | 5000K | 90  | T3   | Clear Glass | 45,997            | 131               |
| MDX-60L-100-277-5K-T5-H2-CG-GRY-PND CRI90  | 380         | 5000K | 90  | T5   | Clear Glass | 42,203            | 120               |
| MDX-70L-100-277-5K-120-H2-CG-GRY-PND CRI90 | 440         | 5000K | 90  | 120  | Clear Glass | 54,100            | 131               |
| MDX-70L-100-277-5K-30-H2-CG-GRY-PND CRI90  | 440         | 5000K | 90  | 30   | Clear Glass | 54,910            | 133               |
| MDX-70L-100-277-5K-60-H2-CG-GRY-PND CRI90  | 440         | 5000K | 90  | 60   | Clear Glass | 54,797            | 133               |
| MDX-70L-100-277-5K-90-H2-CG-GRY-PND CRI90  | 440         | 5000K | 90  | 90   | Clear Glass | 55,803            | 135               |
| MDX-70L-100-277-5K-T2-H2-CG-GRY-PND CRI90  | 440         | 5000K | 90  | T2   | Clear Glass | 50,611            | 123               |
| MDX-70L-100-277-5K-T3-H2-CG-GRY-PND CRI90  | 440         | 5000K | 90  | T3   | Clear Glass | 52,623            | 128               |
| MDX-70L-100-277-5K-T5-H2-CG-GRY-PND CRI90  | 440         | 5000K | 90  | T5   | Clear Glass | 48,435            | 117               |

347–480Vac models deliver the same lumen output as the 100–277Vac models.

This table only lists part of the model lumen parameters, if you need other model parameters, please contact our sales.

## A DIRECT RETROFIT FROM HID TO LED

The MDX series LED is easy to retrofit in the same configuration as your existing HID luminaires. For example, a 90-watt Modular Max Floodlight (MDX-15L) delivers virtually the same illumination as its equivalent 400 watt HPS luminaire while providing 80% reduction in energy costs and up to 230,000 hours of continuous operation.

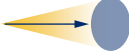
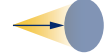
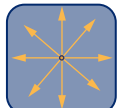
| MODELS  | Lumen Output (Lm) | MH Equivalent (W) | HPS Equivalent (W) |
|---------|-------------------|-------------------|--------------------|
| MDX-15L | 15,074            | 350               | 400                |
| MDX-20L | 19,854            | 450               |                    |
| MDX-30L | 29,148            | 750               |                    |
| MDX-40L | 37,009            | 1000              | 750                |
| MDX-50L | 47,974            | 1000~1500         | 1000               |
| MDX-60L | 59,028            |                   | N.A                |
| MDX-70L | 66,313            |                   |                    |

## 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.

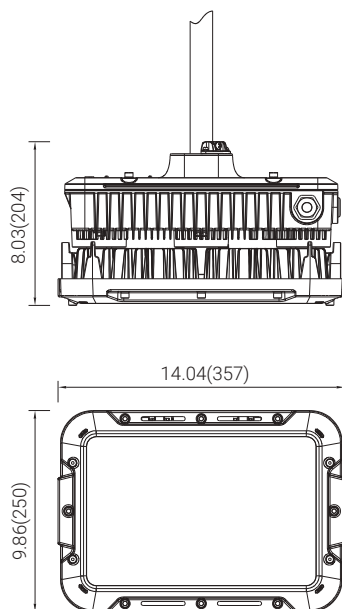
RSL offers complimentary lighting design services for our products using industry-leading AGI32 software, tailored for projects of all sizes in harsh and hazardous locations. We assist you in determining the number of fixtures needed, the types of lights to use, their optimal placement, and how to maximize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

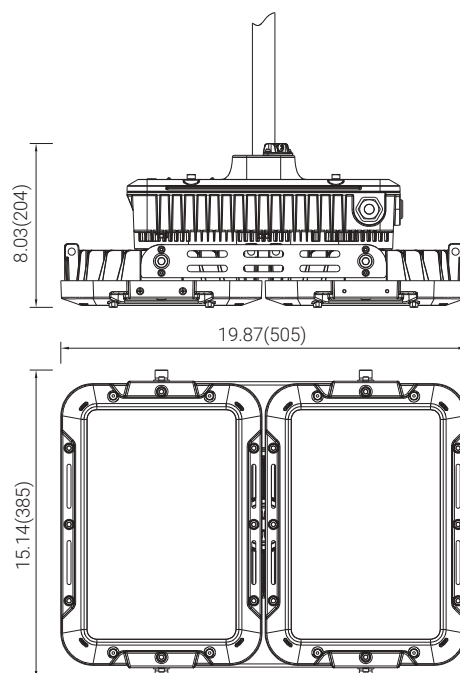
| Beam | NEMA/IESNA Type           | Beam Description                                                                                                                | Beam Projection Distance                                                              |
|------|---------------------------|---------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 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.                                                 |  |

# DIMENSIONS

unit: in(mm)

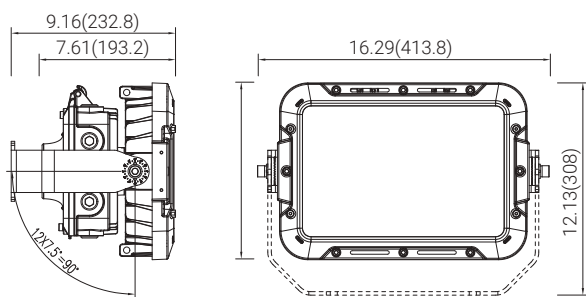


For 15L/20L/30L/40L

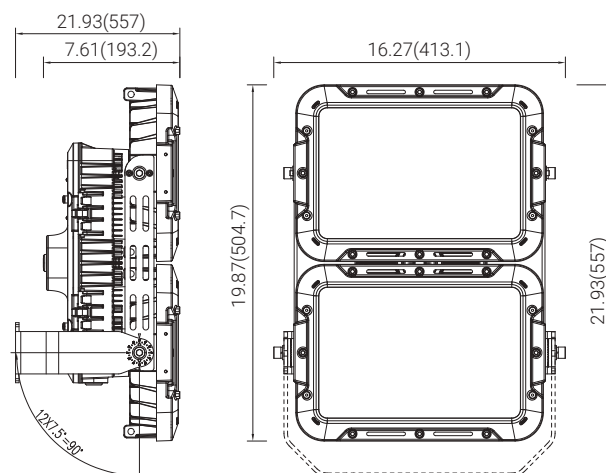


For 50L/60L/70L

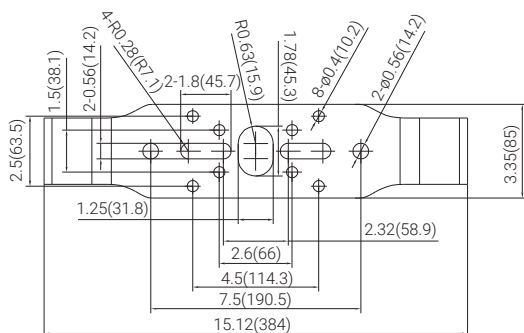
## Pendant



For 15L/20L/30L/40L



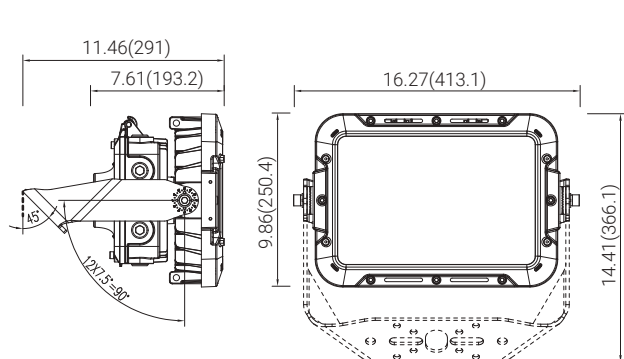
For 50L/60L/70L



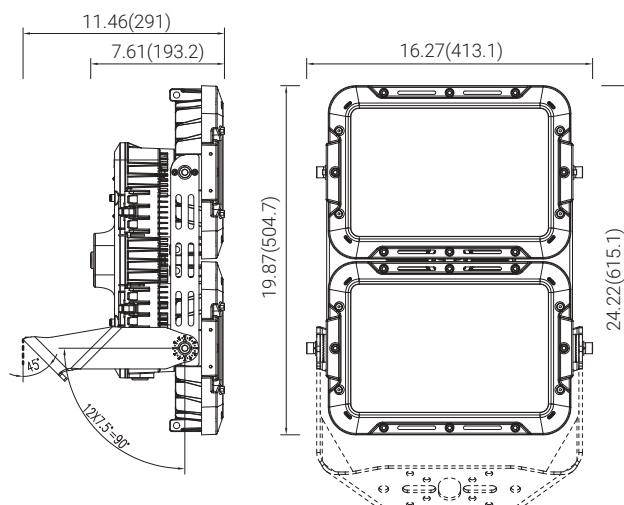
## Straight Yoke

# DIMENSIONS

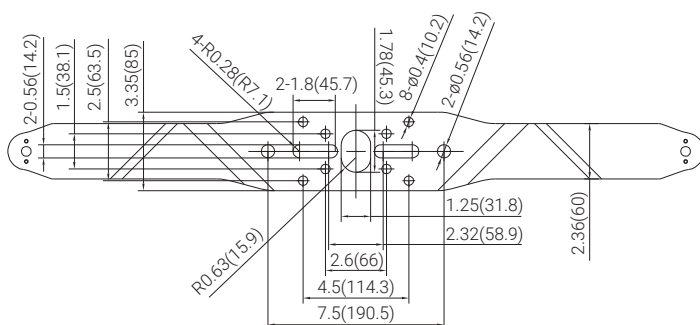
unit: in(mm)



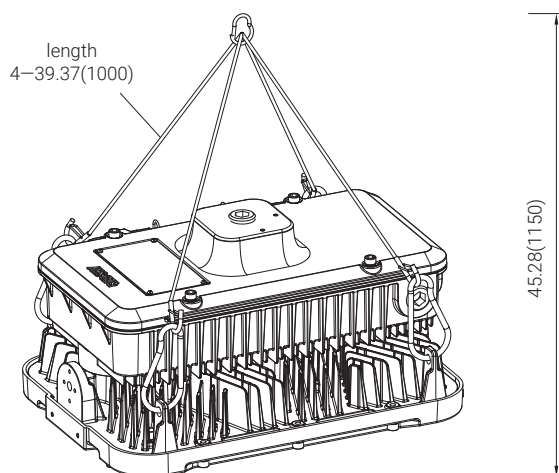
For 15L/20L/30L/40L



For 50L/60L/70L



Angled Yoke

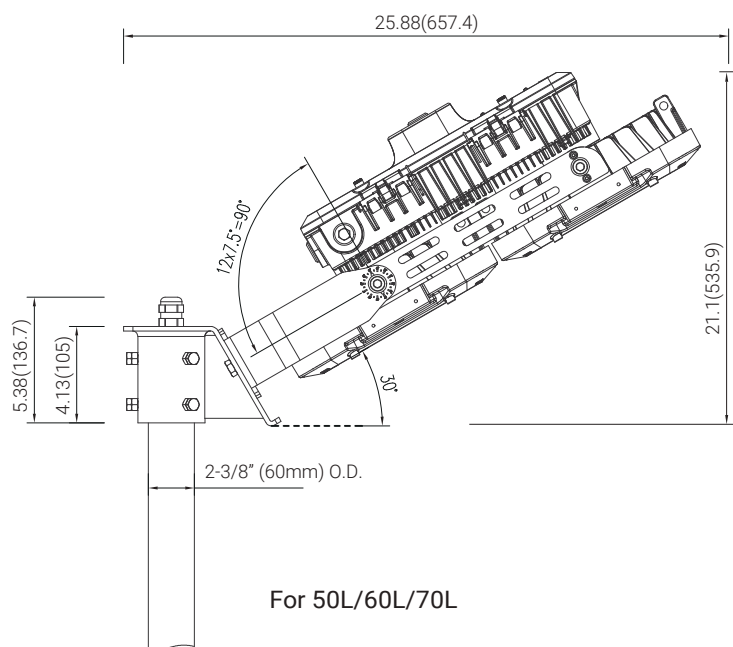
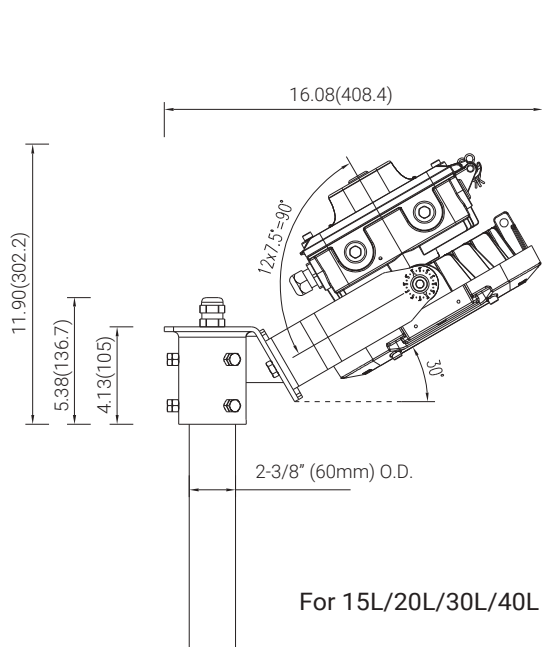


Chain

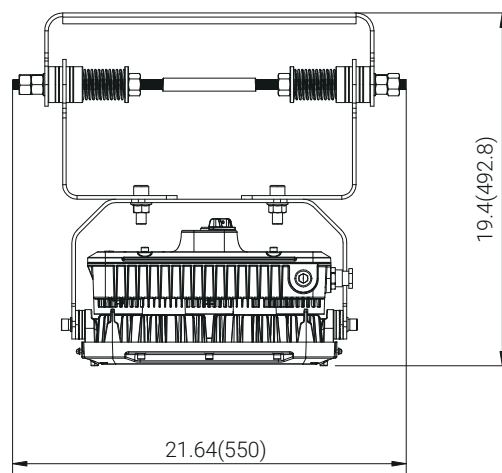
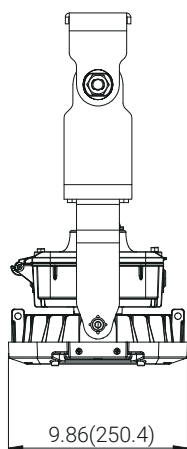
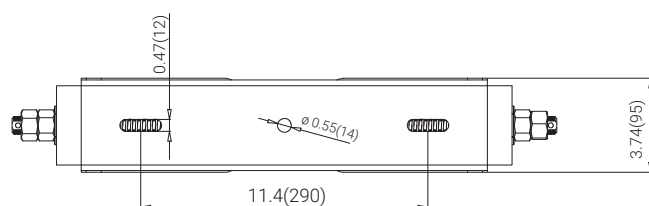


# DIMENSIONS

unit: in(mm)

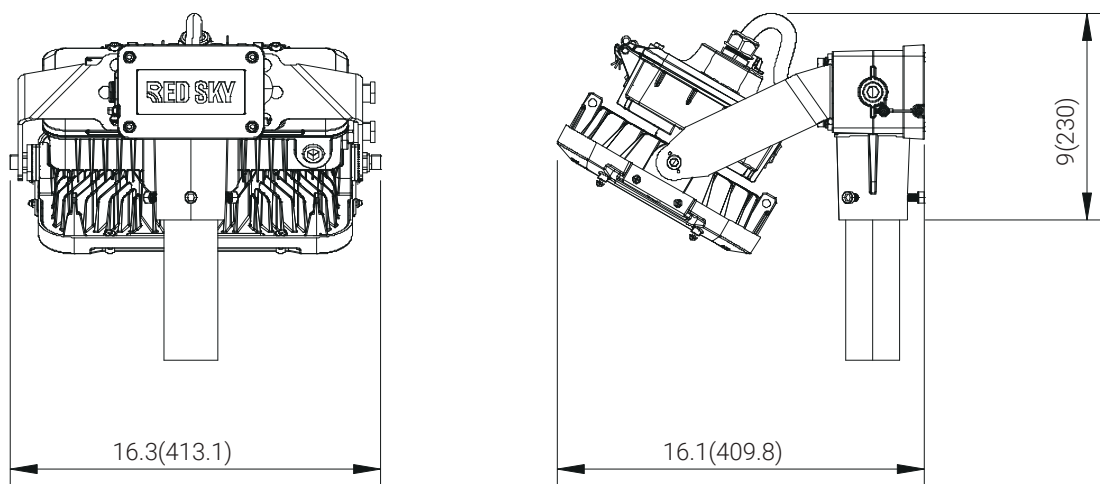
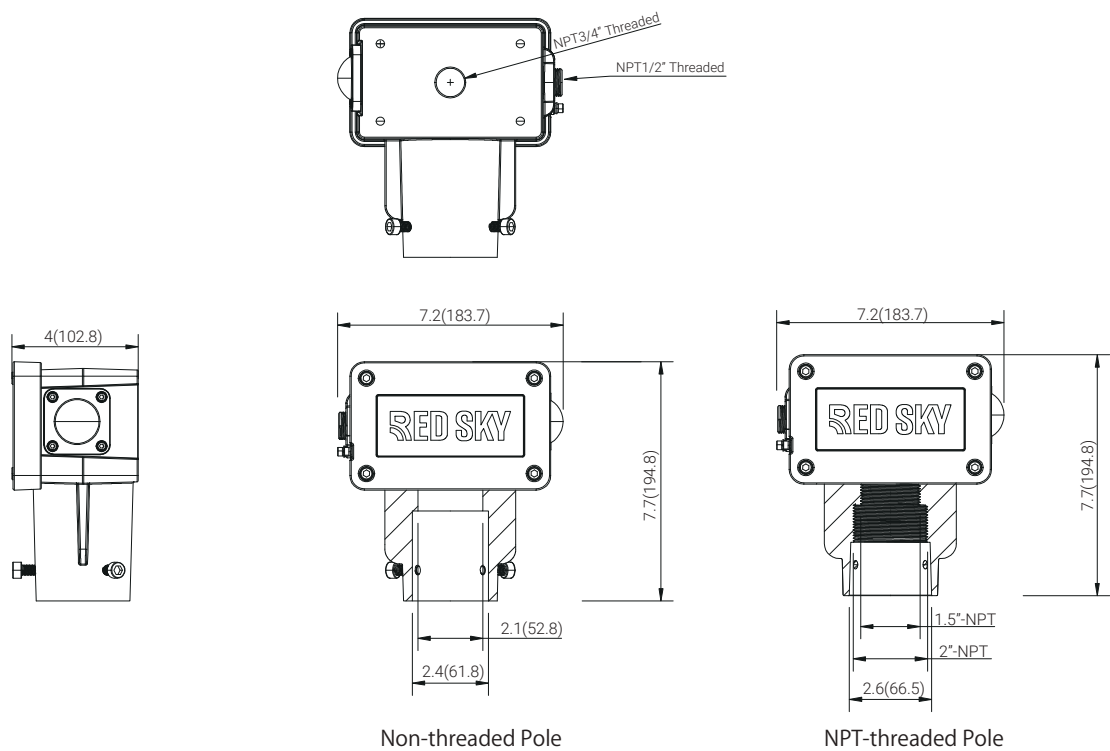


## Stanchion



## DPY02

unit: in(mm)



**Slip-fit Junction Box**

# 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<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.<br>Note 2: Methane is a Group IIA Gas for non-mining applications.<br>Note 3: Group IIIA, IIIB and IIIC have not been adopted by the Canadian Electrical Code. |                                  |                      |                   | 120°C(248°F)              | T4A          |                      |
|                                                                                                                                                                                                                            |                                  |                      |                   | 100°C(212°F)              | T5           | T5                   |
|                                                                                                                                                                                                                            |                                  |                      |                   | 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   |



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#### **Disclaimer**

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