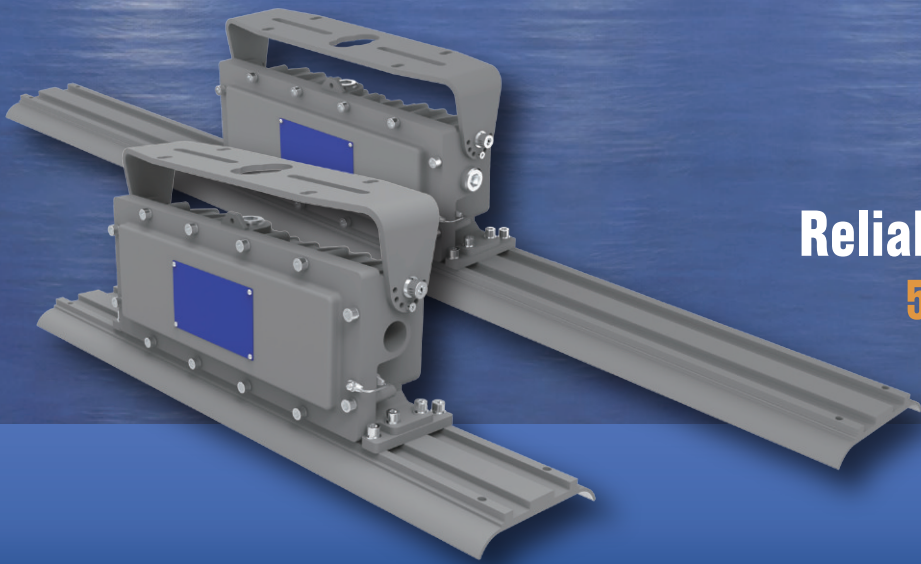


# LINEAR EMERGENCY HARSH SERIES

## LED LIGHTING FOR HARSH INDUSTRIAL ENVIRONMENTS



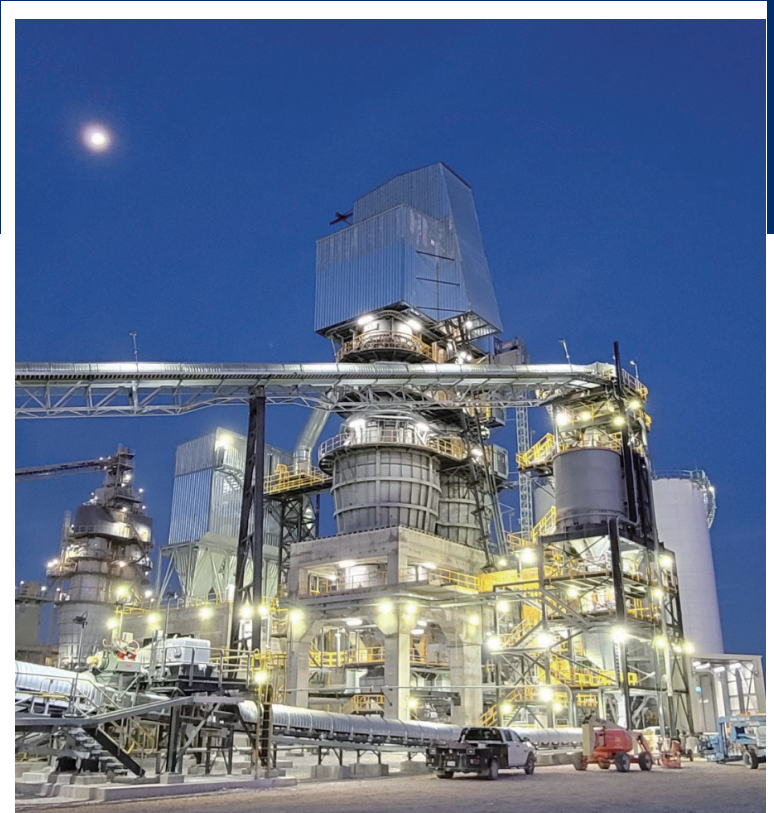
**Reliable. Durable. Efficient.**  
**5,800 to 12,500 (EM:2,800)**  
**lumen models**

**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

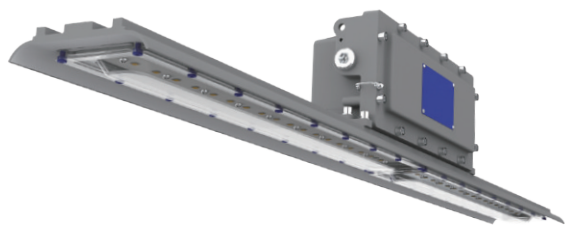
- High luminous efficacy LEDs for energy savings
- Conscious product design
- Recyclable materials for products and packaging



## LINEAR EMERGENCY HARSH SERIES

ILLINOIS, USA

### FEATURES



- ❧ Best-in-class system efficacy -Up to 150 Lm/W
- ❧ Charge time 24h, Emergency run time 90 mins, Rated load 15W in emergency mode
- ❧ Wide ambient temp.range from 0°C to +50°C ( 32°F ~ +122°F)
- ❧ Instant on/off operation
- ❧ Shock-and vibration-resistant - Durable LEDs with solder -less board connection
- ❧ All exposed fasteners with quality stainless steel 316
- ❧ UV stable and impact resistant clear or diffused PC lens
- ❧ Slim and compact design

### RATINGS

IP66  
IK08 (PC)  
Salt Spray 720 hrs (ASTM B117)  
NMEA 4X

### CERTIFICATIONS

UL 924  
CSA C22.2 No. 141-15  
FCC Part 15, Subpart B

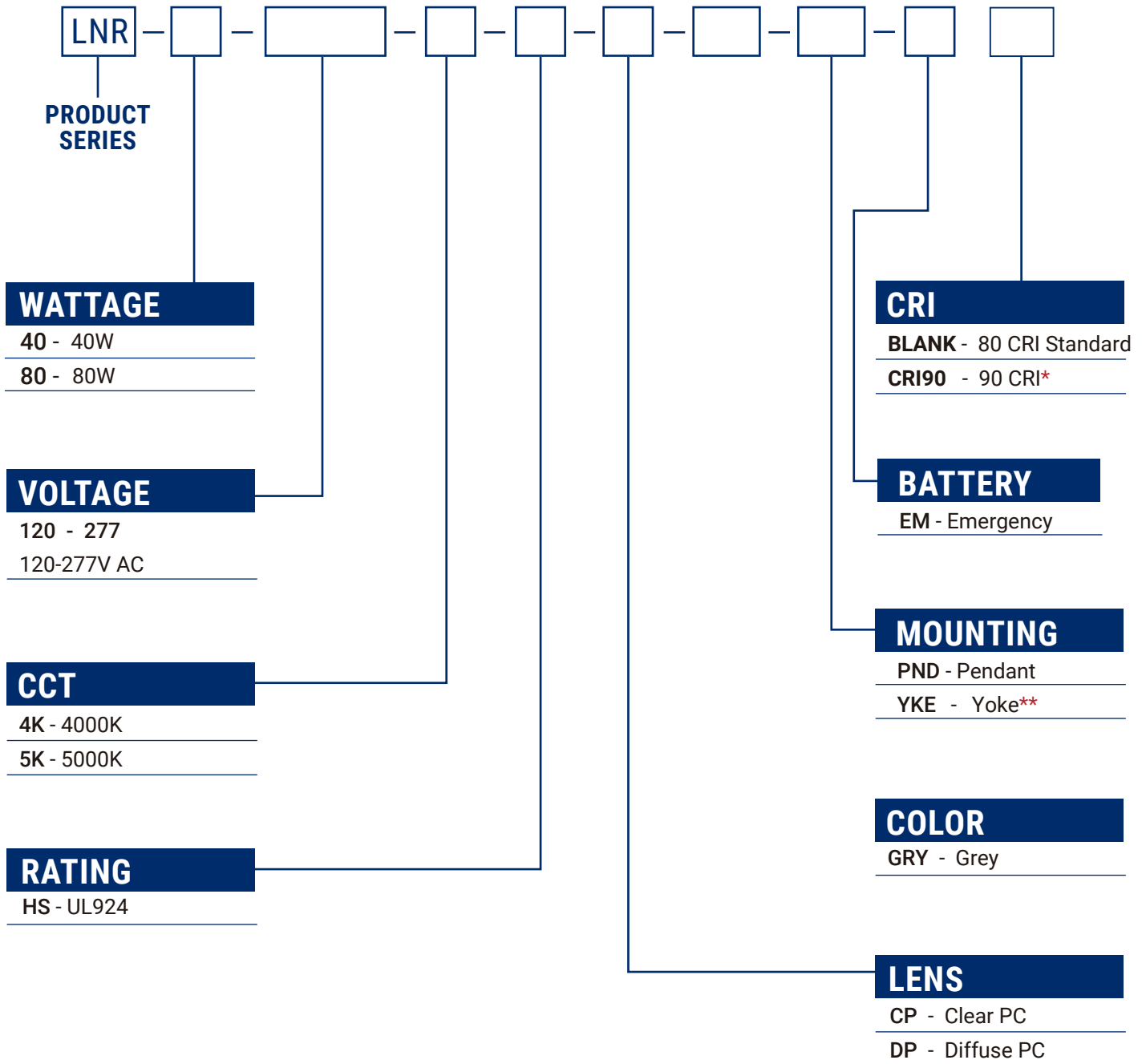
# TECHNICAL PARAMETERS

Specification	LNR-EM-40	LNR-EM-80
<b>Electrical Parameters</b>		
Power	40W	80W
Rated Input Current	0.371A@120V AC, 0.161A@277V AC	0.741A@120V AC, 0.321A@277V AC
Voltage/Frequency	120-277V AC 50/60Hz	
Power Factor	≥0.90	
THD	<20%	
L70	120,000 hrs@122°F	
Surge Protection	10KV	
Supply Wire	12-18AWG, Rated 90°C	
Charge Time	24 hours	
Emergency Run Time	90mins	
Battery	LiFePO <sub>4</sub>	
Warranty	LEDs:10 Years, Driver:7 Years, Battery:3 Years	
<b>Optical Parameters</b>		
Lumen Output*	5,857Lm	12,291Lm
Lumen Output (EM)*	2,778Lm	2,822Lm
Lumen Efficacy*	150Lm/w	
Available Beam Angle	110°	
Correlated Color Temperature (CCT)	4000K/5000K	
Color Rendering In	80 CRI	
<b>Mechanical Parameters</b>		
Housing Material	Marine Grade Aluminium	
Hardware	Stainless steel 316	
Lens Material	Polycarbonate	
Mounting Options	Pendant, Yoke, Chain, Pole	
Product Weight	16.5lbs/7.5kg	18.3lbs/8.3kg
Package Weight	18.6lbs/8.6kg	20.4lbs/9.4kg
Cable Entry	(3) 3/4" NPT	
Product Dimensions(L×W×H)	23.6×5.0×6.8in(600×127×173 mm)	47.2×5.0×6.8in(1200×127×173 mm)
Package Dimensions(L×W×H)	26.6×7.1×9.1in(675×180×230 mm)	50.2×7.1×9.1in(1275×180×230 mm)
<b>Environmental Parameters</b>		
Ambient Operating Temperature	32°F~+122°F(0°C~+50°C)	
Ambient Operating Humidity	10%~90% RH	
EPA wind rating (FT <sup>2</sup> /m <sup>2</sup> )	1.463/0.140	1.972/0.180

\* Value calculated based on 5000K, 80 CRI and Clear PC ,varies to different spec. 90 CRI optional.

# ORDERING INFORMATION

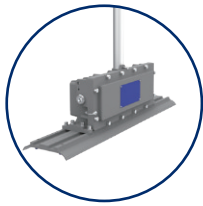
**EXAMPLE:** LNR -40-120-277-5K-HS-CP-GRY-PND-EM



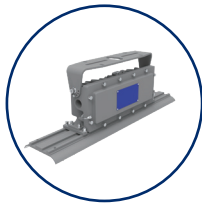
\* CRI 90 option – expect longer lead time.

\*\* LNR-YOKE Pre-installed as standard.

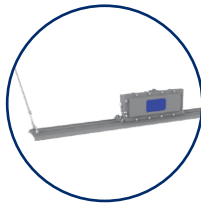
# MOUNTING ACCESSORIES



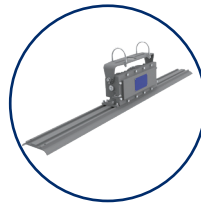
Pendant



Yoke



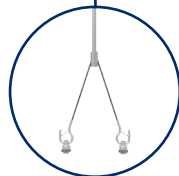
Chain



Pole



LNR-YOKE



CHAIN01



CLAMP01/02



SFCB03

Mounting Method	PN	Description	MPN Code
Yoke	LNR-YOKE	Yoke Mount, SUS304, Powder-Coated Grey RAL 7037	210010009
Chain	CHAIN01	Chain Hang Kit, SUS304	210100110
Pole	CLAMP01	Pipe Clamp Kit for Round Pole 1-7/8 inch OD (48 mm), SUS304	210010011
	CLAMP02	Pipe Clamp Kit for Round Pole 2-3/8 inch OD (60 mm), SUS304	210010010
	SFCB03	Safety Cable Kit, SS304	210010012

# REPLACEMENT PARTS (ORDERED SEPARATELY)

Part Number	Description	MPN Code
LNR-40-100-277-Driver	Replacement Driver Kit for LNR-40-120-277-EM Fixtures	303010057
LNR-80-100-277-Driver	Replacement Driver Kit for LNR-80-120-277-EM Fixtures	303010058
LNR-EM Driver	Replacement Emergency Backup Driver Kit ( Battery included ) for LNR-EM Fixtures	303010107
LNR-*-EM Battery	Replacement Battery for LNR-*-EM	303040004
CP004-A-01	Replacement Clear PC Lens for LNR2, LNR EM, LLP, LNH	303030012
DP004-A-01	Replacement Diffuse PC Lens for LNR2, LNR EM, LLP, LNH	303030013

PN	Wattage (W)	CCT	CRI	Beam	Lens	Lumen Output (Lm)	Efficiency (Lm/W)
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**Voltage 100-277VAC 80 CRI • STANDARD**

LNR-40-120-277-5K-HS-CP-GRY-PND-EM	40	5000K	80	110°	Clear PC	5,857	148
LNR-40-120-277-5K-HS-DP-GRY-PND-EM	40	5000K	80	110°	Diffuse PC	5,060	127
LNR-80-120-277-5K-HS-CP-GRY-PND-EM	80	5000K	80	110°	Clear PC	12,291	150
LNR-80-120-277-5K-HS-DP-GRY-PND-EM	80	5000K	80	110°	Diffuse PC	9,988	126

**Emergency Mode: Voltage 100-277VAC 80 CRI • STANDARD**

LNR-40-120-277-5K-HS-CP-GRY-PND-EM	15	5000K	80	110°	Clear PC	2,778	189
LNR-40-120-277-5K-HS-DP-GRY-PND-EM	15	5000K	80	110°	Diffuse PC	2,124	141
LNR-80-120-277-5K-HS-CP-GRY-PND-EM	15	5000K	80	110°	Clear PC	2,822	191
LNR-80-120-277-5K-HS-DP-GRY-PND-EM	15	5000K	80	110°	Diffuse PC	2,281	153

**Voltage 100-277VAC 90 CRI**

LNR-40-120-277-5K-HS-CP-GRY-PND-EM CRI90	40	5000K	90	110°	Clear Glass	4,894	124
LNR-40-120-277-5K-HS-DP-GRY-PND-EM CRI90	40	5000K	90	110°	Clear Glass	4,826	122
LNR-80-120-277-5K-HS-CP-GRY-PND-EM CRI90	80	5000K	90	110°	Clear Glass	10,497	132
LNR-80-120-277-5K-HS-DP-GRY-PND-EM CRI90	80	5000K	90	110°	Diffuse Glass	9,526	121

**Emergency Mode: Voltage 100-277VAC 90 CRI**

LNR-40-120-277-5K-HS-CP-GRY-PND-EM CRI90	15	5000K	90	110°	Clear PC	2,328	155
LNR-40-120-277-5K-HS-DP-GRY-PND-EM CRI90	15	5000K	90	110°	Diffuse PC	2,026	135
LNR-80-120-277-5K-HS-CP-GRY-PND-EM CRI90	15	5000K	90	110°	Clear PC	2,427	161
LNR-80-120-277-5K-HS-DP-GRY-PND-EM CRI90	15	5000K	90	110°	Diffuse PC	2,176	145

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

This table lists only selected lumen packages. For additional model parameters, please contact our sales team.

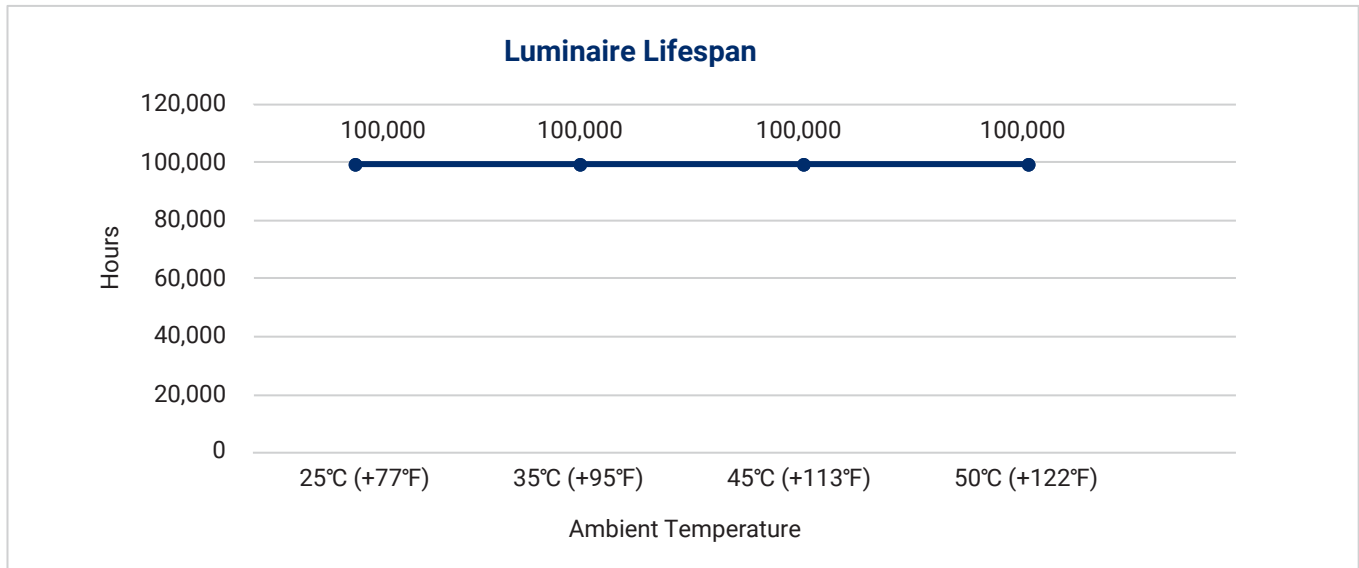
Note: LXX# = nominal lumens. Verify lumen package before ordering.

## LUMEN MAINTENANCE

Hours Ambient	0	15,000	30,000	45,000	60,000	75,000	90,000	100,000	150,000
25°C	100%	96%	92%	88%	84%	80%	76%	74%	63%
35°C	100%	96%	92%	88%	84%	80%	76%	74%	63%
45°C	100%	96%	92%	88%	84%	80%	76%	74%	63%
50°C	100%	96%	92%	88%	84%	80%	76%	74%	63%

## LUMINAIRE LIFESPAN

Ambient Temperature	Luminaire Lifespan (Hours)	Rated Service Life - Years (24/7 Operation)	Rated Service Life - Years (12/7 Operation)
25°C (+77°F)	100,000	11	23
35°C (+95°F)	100,000	11	23
45°C (+113°F)	100,000	11	23
50°C (+122°F)	100,000	11	23



Information shown for reference only and may vary by configuration.

## A DIRECT RETROFIT FROM HID TO LED

The LNR EM series LED is easy to retrofit in the same configuration as your existing HID luminaires. For example, a 80-watt Linear Emergency (LNR-80-EM) delivers virtually the same illumination as its equivalent 250 watt Metal Halide luminaire while providing 80% reduction in energy costs and up to 120,000 hours of continuous operation.








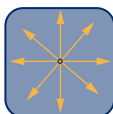
MODELS	Lumen Output (Lm)	MH Equivalent (W)	HPS Equivalent (W)
LNR-40-EM	5,857	150	150
LNR-80-EM	12,291	250	310

# THE RIGHT BEAM PATTERN FOR YOUR APPLICATION

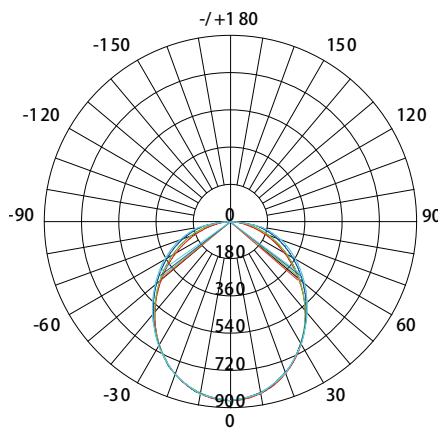
RSL optic package is engineered to deliver maximum footcandles efficiently where you need them, without wasted light or overspill.

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.

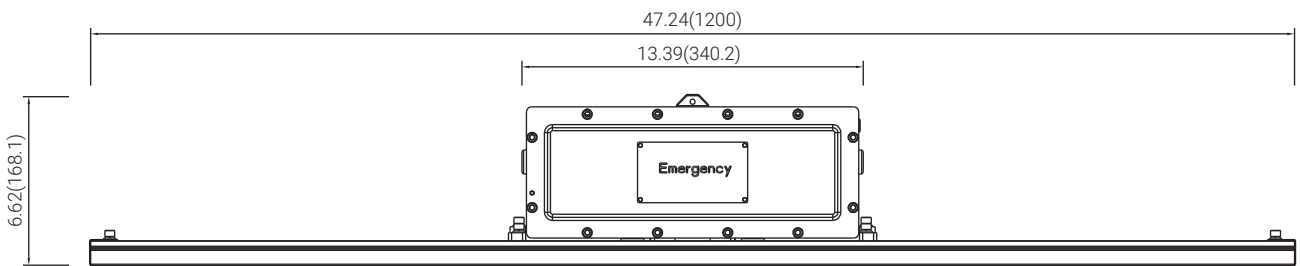
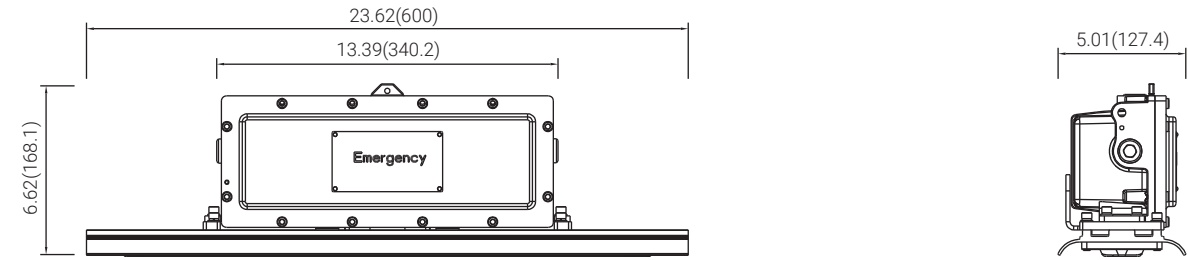
Beam	NEMA/IESNA Type	Beam Description	Beam Projection Distance
30°	NEMA 3	Medium Narrow	
60°	NEMA 4	Medium	
90°	NEMA 5	Medium Wide	
120°	NEMA 6	Wide	
T1	Type I	Asymmetric distributions, well suited for narrow areas, such as Conveyor belts, Aisleways, Catwalks, Loading docks and Tunnels.	
T2	Type II	Asymmetric 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 Type V (Square)	Very Wide: symmetrical pattern with excellent uniformity for large, open areas.	

## PHOTOMETRIC

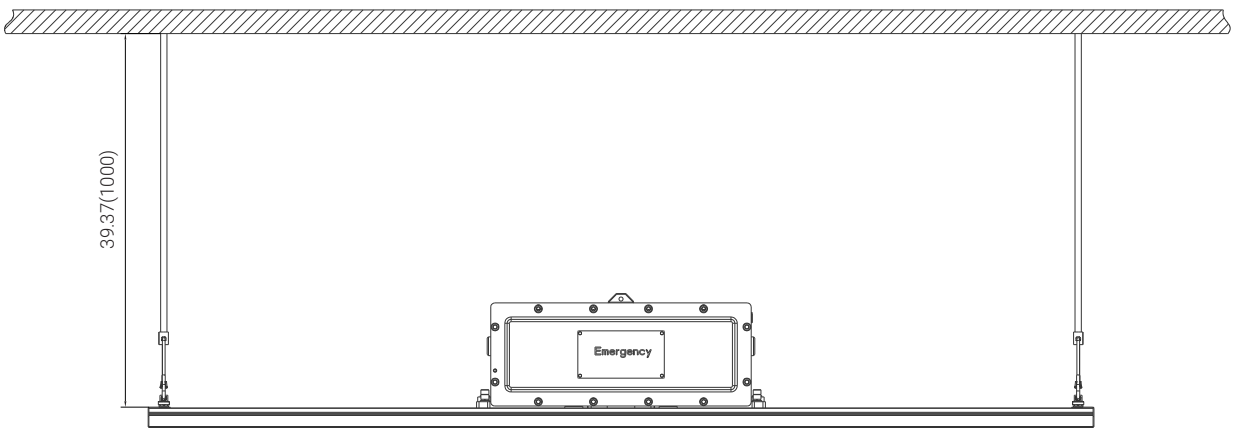


110°  
NEMA 6 - Wide

unit: in(mm)

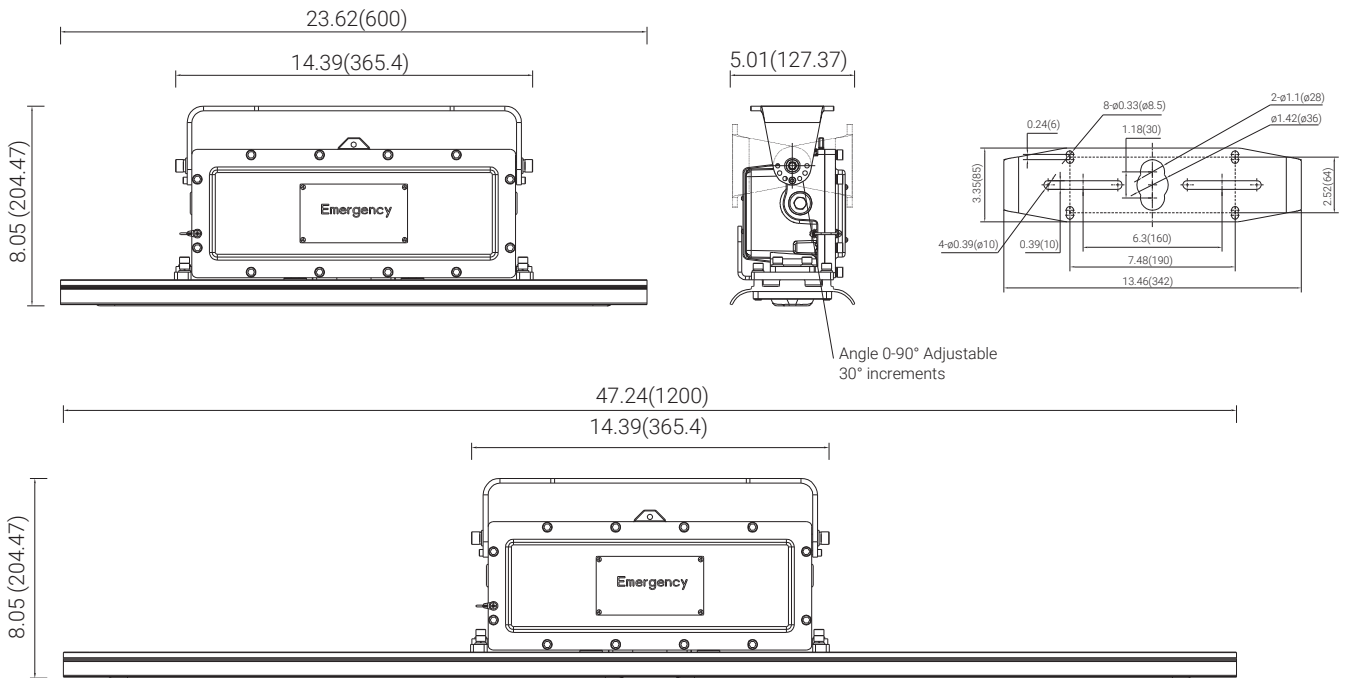


Pendant

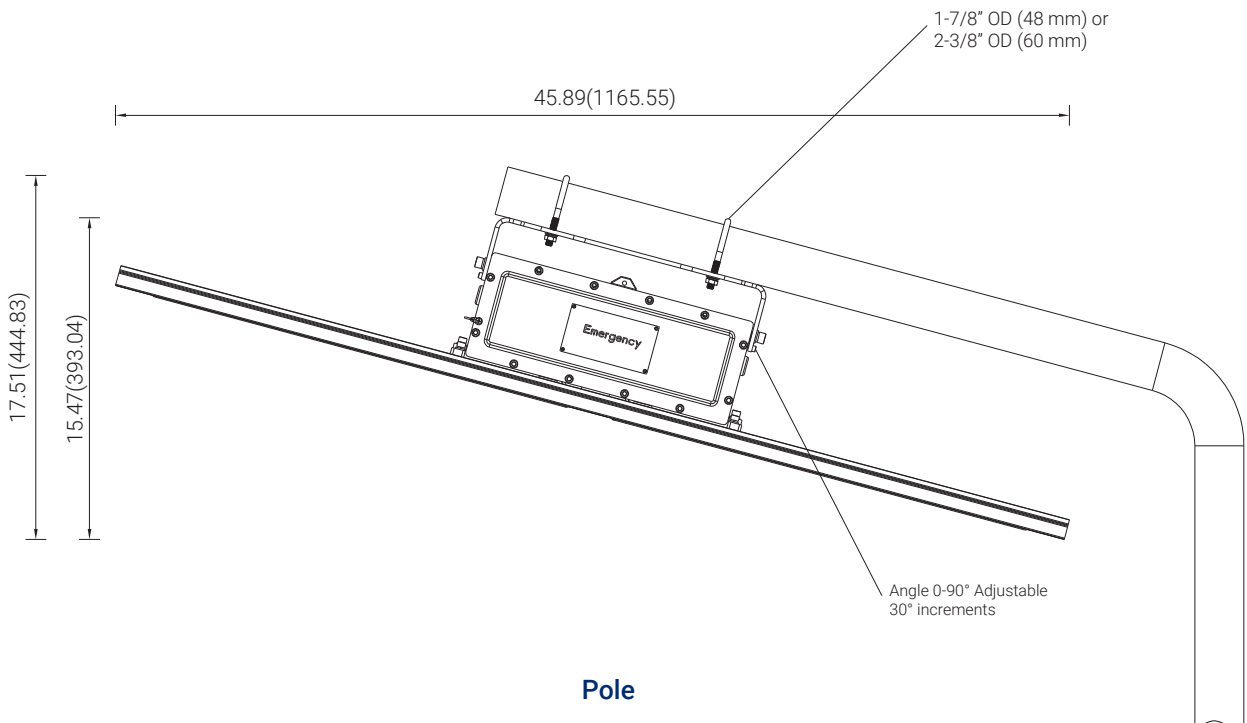


Chain

unit: in(mm)



## Yoke



## Pole

Let's light your next project—  
Email us at [\*\*contact@redskylighting.com\*\*](mailto:contact@redskylighting.com),  
call us at **1 (262) 456-5002**  
or visit [\*\*www.redskylighting.com\*\*](http://www.redskylighting.com) to get started.

**Disclaimer**

All product information is subject to change without notice.  
Please contact Red Sky Lighting or your sales representative for the most up-to-date specifications.