LINEAR SERIES

LED LIGHTING FOR HARSH AND HAZARDOUS AREAS
AREA & LOWBAY



Reliable. Durable. Efficient.

4,000 to 12,000 lumen models

RED SKY

SERIOUSLY SAFE LIGHTS™

PIONEERING INDUSTRIAL ILLUMINATION FOR HARSH & HAZARDOUS CONDITIONS



- A leading manufacturer of premium LED lights for demanding work conditions
- Headquartered in California, products assembled in the USA
- Servicing global clients across 4 continents in metal processing, oil & gas, marine, manufacturing
- Renowned for quality, dependability, client care and uncompromising safety standards

WHY CHOOSE RED SKY

SERIOUSLY SAFE LIGHTS

- Rigorously tested in our professional labs
- Surpassing industry certifications and safety protocols
- Crafted with highest grade components for maximum durability

FAST DELIVERY

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

TOP-NOTCH SERVICES

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

SUSTAINABLE SOLUTIONS

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



LINEAR SERIES



With its rugged copper-free aluminum construction, the Linear Series is rated for hazardous environments up to Class I Division 2, protecting against combustible dust, gases, and vapors. Featuring a maintenance-free design, the Linear Series ensures over 147,000 hours of reliable light output at temperatures up to 149°F (65°C), while its robust design and quality enable operation under temperatures as low as -40°F (-40°C).

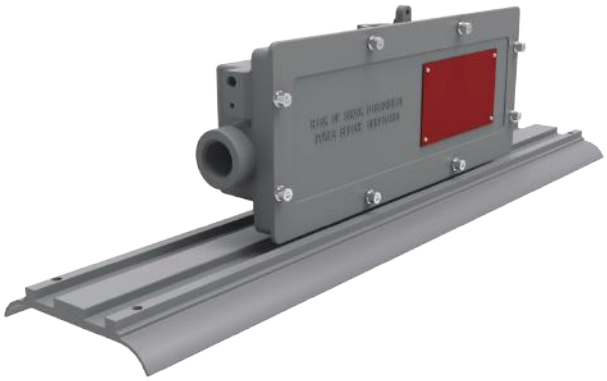
With durable materials and first-in-class craftsmanship, it withstands extreme temperatures, vibration, water, and dust — ensuring long-lasting performance even in the most punishing industrial settings. Its dimmable 1-10V driver and high luminous efficacy of up to 150 lumens per watt help maximize energy savings without compromising illumination levels.

For easy installation, the Linear Series includes a built-in wiring compartment with three 3⁄4" NPT conduit entries and WAGO connectors. It also offers multiple mounting options for suspended, wall, or surface installations. An optional bracket allows for simple retrofits of existing fixtures.

Purpose-built for industrial use, the Linear Series is a purpose-built solution delivering durable, efficient linear lighting for demanding hazardous work environments. Red Sky Lighting backs the Linear Series with an industry-leading 10-year warranty and factory replacement. Choose the Linear Series for exceptional performance, advanced safety, and unmatched durability in hazardous industrial environments.



FEATURES

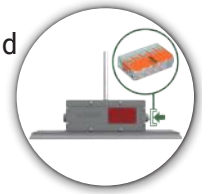


Rugged Construction

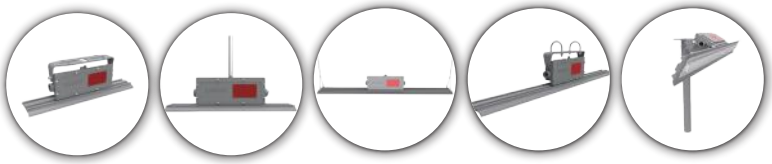
Built to withstand extreme temperatures, vibration, water and dust.
Copper-free aluminum body and frame for corrosion-resistant

Easy and Through Wiring

Built-in wiring compartment with three NPT ¾" entries and WAGO 221 lever connectors for easy wiring



Multiple Mounting Options



Long Fixture Life

L70 >147,000 Hours@149°F
Maintenance-free and safe operation

RATINGS

Class I Division 2, Groups A, B, C, D	Simultaneous Presence
Class II Division 1 Group E, F, G	UL 1598 Wet Locations
Class II Division 2, Groups F, G	UL 1598A Marine Outside Type
Class III	(Salt Water)
Class I, Zone 2, Group IIC	IP66
Zone 21, Group IIIC	IK08
	Salt Spray 720 hrs (ISO 9227)

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 to confirm qualification.

TECHNICAL PARAMETERS

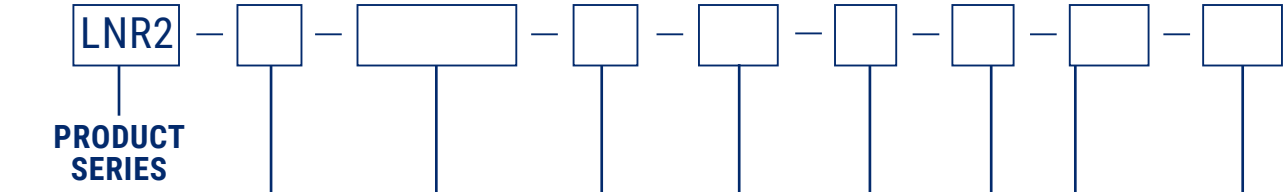
Specification	LNR2-30	LNR2-40	LNR2-60	LNR2-80
Electrical Parameters				
Power	30W	40W	60W	80W
Rated Input Current(100V AC) Rated Input Current(277V AC) Rated Input Current(347V AC) Rated Input Current(480V AC)	0.277A 0.120A / /	0.370A 0.160A 0.128A 0.092A	0.555A 0.240A 0.192A 0.138A	0.740A 0.320A 0.256A 0.185A
Voltage/Frequency	100-277V AC, 347-480V AC 50/60Hz			
Power Factor	≥0.90			
THD	<20%			
L70	147,000 hrs@149°F			
Dimming*	0-10V, Range 10-100%			
Surge Protection(100-277Vac) Surge Protection(347-480Vac)	10KV /	10KV L\N-FG 4KV, L-N 2KV	6KV 6KV	
Supply Wire	12-18AWG， Rated 90°C			
Warranty	LEDs: 10 years, Driver: 7 years			
Optical Parameters				
Lumen Output**	4,426Lm	5,795Lm	9,185Lm	12,026Lm
Lumen Efficacy**	150Lm/W			
Correlated Color Temperature (CCT)	3000K/4000K/5000K			
Color Rendering Index (CRI)	Ra>70			
Mechanical Parameters				
Housing Material	Copper-free (< 0.4%) aluminum			
Hardware	Stainless steel 316			
Lens Material	Polycarbonate			
Mounting Options	Pendant, Yoke, Chain, Pole, Stanchion			
Product Weight	11.0lbs/5.0kg		14.68lbs/6.66kg	
Package Weight	13.1lbs/6.0kg		16.78lbs/7.66kg	
Cable Entry	(3) 3/4" NPT			
Product Dimensions(L×W×H)	23.6×5.0×6.6in(600×127×168mm)		47.2×5.0×6.6in(1200×127×168mm)	
Package Dimensions(L×W×H)	26.4×5.9×7.9in(670×150×200mm)		50.4×6.3×8.3in(1280×160×210mm)	
Environmental Parameters				
Ambient Operating Temperature	C1D2@-40°F ~ 149°F (-40°C ~ 65°C), C2D1@-40°F ~ 122°F (-40°C ~ 50°C)			
T-Code Rating	T4A			
EPA wind rating (FT2)	1.463(Yoke), 1.448(Stanchion)		1.972(Yoke), 1.957(Stanchion)	

* LNR2-40-347-480V Dimming Unavailable

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

ORDERING INFORMATION

EXAMPLE: LNR2-40-100-277-5K-HAR-H2-CP-GRY-PND



PRODUCT SERIES

WATTAGE

30 - 30W* (2ft)
40 - 40W (2ft)
60 - 60W (4ft)
80 - 80W (4ft)

VOLTAGE

100 - 277
100-277V AC
347 - 480
347-480V AC

CCT

3K - 3000K
4K - 4000K
5K - 5000K

INTERNAL CODE

MOUNTING

PND - Pendant
YKE - Yoke**

COLOR

GRY - Grey

LENS

CP - Clear PC
DP - Diffuse PC

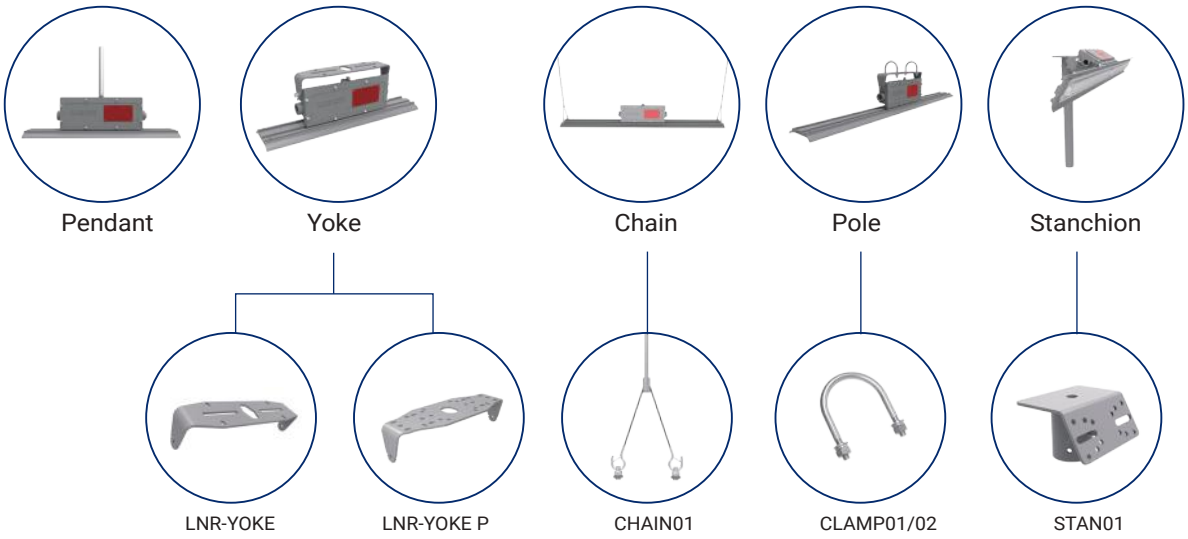
RATING

H2 - C1D2 / C2D1 / C3

* unavailable in 347-480V AC

** LNR-YOKE Pre-installed

MOUNTING ACCESSORIES



Mounting Method	PN	Description	MPN Code
Yoke	LNR-YOKE	Yoke Mount, LNR SERIES, SS304, Power Coated Grey RAL7037	309050042
	LNR-YOKE P*	Retrofit Yoke Mount, LNR SERIES, SS304, Power Coated Grey RAL7037	309050332
Chain	CHAIN01	Chain Hang Kit, LNR&LNT SERIES, SS304	309050071
Pipe clamp	CLAMP01	Pipe Clamp Kit for Round pole Φ 1 7/8(48mm), SS304	309050047
	CLAMP02	Pipe Clamp Kit for Round pole Φ 2 3/8(60mm), SS304	309050046
Stanchion	STAN01**	Slip–Fit Stanchion Mount Kit for Φ2" (2 3/8" OD) Poles Non-threaded, SUS304, powder coated, RAL7037	309050300

* Retrofit Bracket Compatibility Chart

For customers trying to retrofit an existing fixture, use the table below as a guide to select the best bracket to suit your need

Manufacturer	Part Number	Retrofit Yoke
Crouse Hinds	DP057MTK	√
Dialight	LTXW4	√
	LTXW4LP	√
AZZ™ Rig-A-Lite™	53050	√
Appleton	RMLSB	√

** Requires A Yoke Mount

OTHER ACCESSORIES



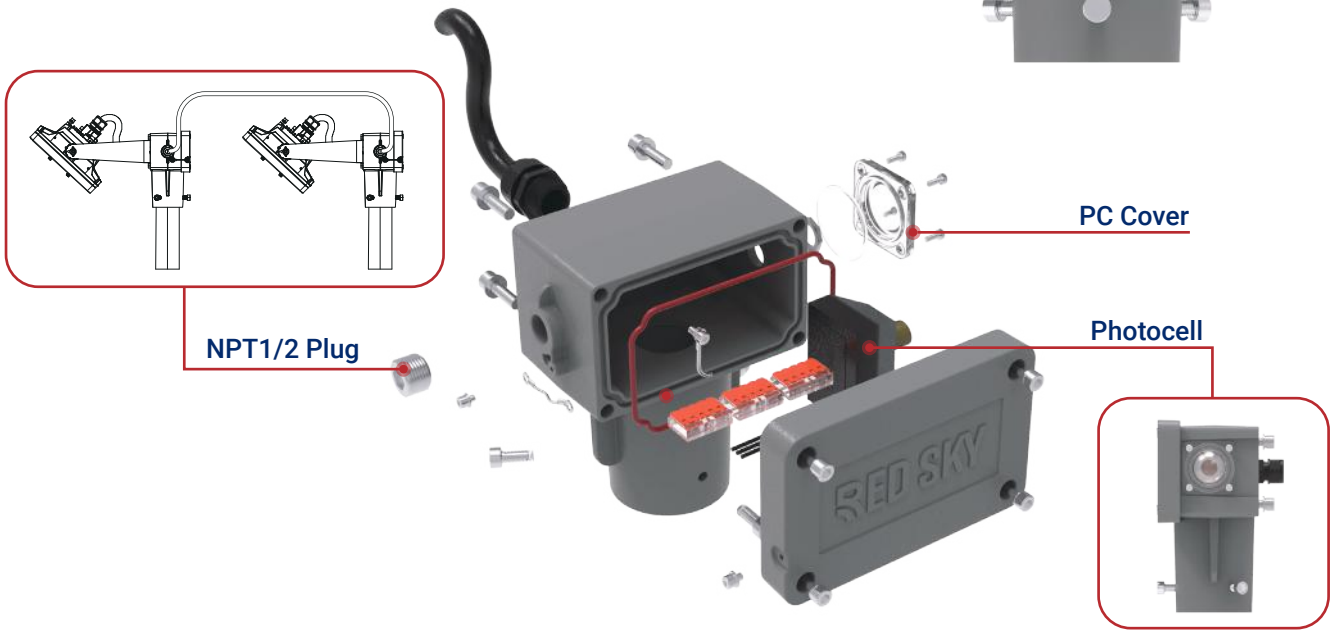
SFCB03

PN	Description	MPN Code
SFCB03	Safety Cable Kit, LNR SERIES, SS304	309050049
GLCO-03	3ft Cord (SOOW 14AWG*3, 105°C, 600V) with cable gland, for C1D2 and non-hazardous only	204020003
GLCO-10	10ft Cord (SOOW 14AWG*3, 105°C, 600V) with cable gland, for C1D2 and non-hazardous only	204020004

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

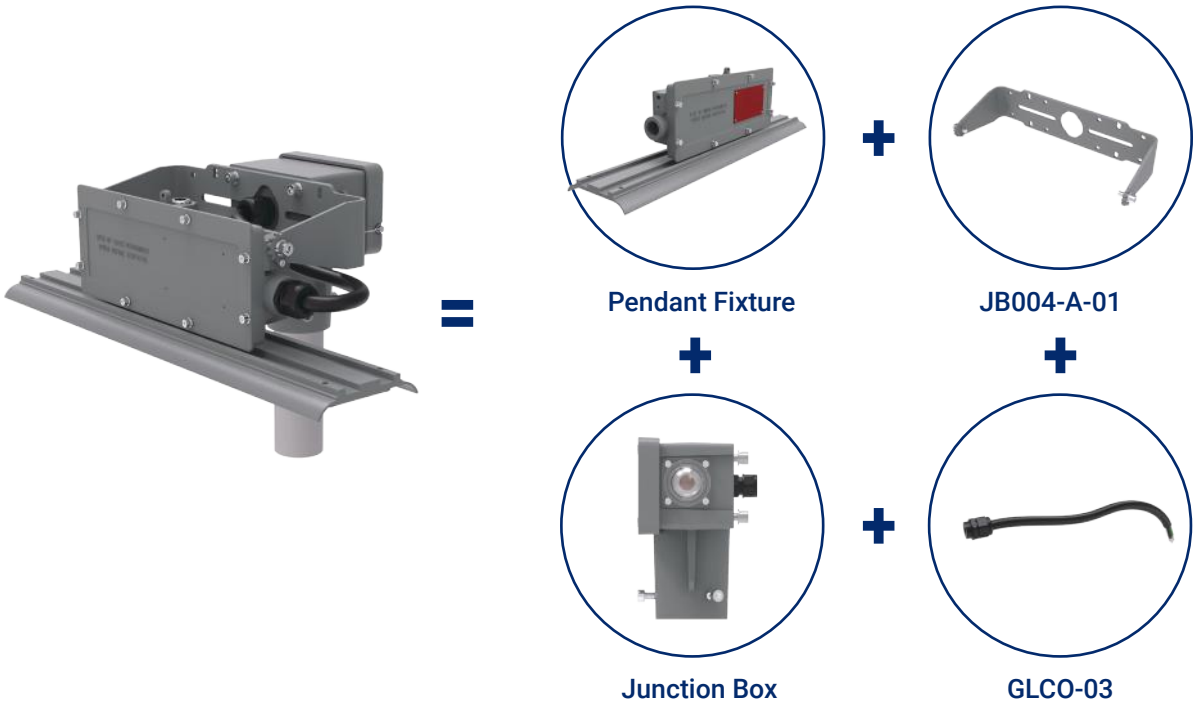
- Weather-resistant finish suitable for wet locations and marine environments
- WAGO 211 lever connectors (5-pole, UL/CSA, 20-10 AWG) for easy, hassle-free wiring
- Wiring access cover with captive screws and a rear hub featuring NPT 1/2” threads for daisy-chain wiring
- Optional C1D2 Photocell Sensor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

CERTIFACATIONS & 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)
NEMA 3R
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
JB004-A-01	LNR2 Custom Bracket Assembly	309050389
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
LNR2-30-100-277-Driver	Replacement Driver Kit for LNR2-30-100-277 Fixtures	303010042
LNR2-40-100-277-Driver	Replacement Driver Kit for LNR2-40-100-277 Fixtures	303010043
LNR2-60-100-277-Driver	Replacement Driver Kit for LNR2-60-100-277 Fixtures	303010044
LNR2-80-100-277-Driver	Replacement Driver Kit for LNR2-80-100-277 Fixtures	303010045
LNR2-40-347-480-Driver	Replacement Driver Kit for LNR2-40-347-480 Fixtures	303010046
LNR2-60-347-480-Driver	Replacement Driver Kit for LNR2-60-347-480 Fixtures	303010047
LNR2-80-347-480-Driver	Replacement Driver Kit for LNR2-80-347-480 Fixtures	303010048
LNR2-CP	Replacement Clear PC Lens for LNR2 Fixtures, order 1 for 30/40W, 2 for 60/80W Fixtures	303030012
LNR2-DP	Replacement Diffuse PC Lens for LNR2 Fixtures, order 1 for 30/40W, 2 for 60/80W Fixtures	303030013

LUMEN TABLE

PN	Wattage (W)	CCT	Beam	Lens	Lumen Output (Lm)	Efficiency (Lm/W)
Voltage 100-277V AC						
LNR2-30-100-277-5K-HAR-110-H2-CP-GRY-YKE	30	5000K	110°	Clear PC	4,426	152
LNR2-30-100-277-5K-HAR-110-H2-DP-GRY-YKE	30	5000K	110°	Diffuse PC	3,949	136
LNR2-40-100-277-5K-HAR-110-H2-CP-GRY-YKE	40	5000K	110°	Clear PC	5,795	151
LNR2-40-100-277-5K-HAR-110-H2-DP-GRY-YKE	40	5000K	110°	Diffuse PC	5,171	135
LNR2-60-100-277-5K-HAR-110-H2-CP-GRY-YKE	60	5000K	110°	Clear PC	9,185	158
LNR2-60-100-277-5K-HAR-110-H2-DP-GRY-YKE	60	5000K	110°	Diffuse PC	8,256	143
LNR2-80-100-277-5K-HAR-110-H2-CP-GRY-YKE	80	5000K	110°	Clear PC	12,026	155
LNR2-80-100-277-5K-HAR-110-H2-DP-GRY-YKE	80	5000K	110°	Diffuse PC	10,785	139
Voltage 347-480V AC						
LNR2-40-347-480-5K-HAR-110-H2-CP-GRY-YKE	40	5000K	110°	Clear PC	5,902	153
LNR2-40-347-480-5K-HAR-110-H2-DP-GRY-YKE	40	5000K	110°	Diffuse PC	5,372	139
LNR2-60-347-480-5K-HAR-110-H2-CP-GRY-YKE	60	5000K	110°	Clear PC	9,597	157
LNR2-60-347-480-5K-HAR-110-H2-DP-GRY-YKE	60	5000K	110°	Diffuse PC	8,621	141
LNR2-80-347-480-5K-HAR-110-H2-CP-GRY-YKE	80	5000K	110°	Clear PC	12,182	157
LNR2-80-347-480-5K-HAR-110-H2-DP-GRY-YKE	80	5000K	110°	Diffuse PC	10,993	142

For additional information, please contact your sales representative.

A DIRECT RETROFIT FROM HID TO LED

The LNR series LED is easy to retrofit in the same configuration as your existing HID luminaires. For example, a 80-watt Linear (LNR2-80) delivers virtually the same illumination as its equivalent 250 watt Metal Halide luminaire while providing 80% reduction in energy costs and up to 147,000 hours of continuous operation.

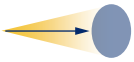
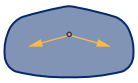
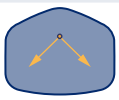
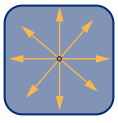
MODELS	Lumen Output (Lm)	MH Equivalent (W)	HPS Equivalent (W)
LNR2-20	4,426	100	100
LNR2-40	5,795	150	150
LNR2-60	9,185	200	250
LNR2-80	12,026	250	310

THE RIGHT BEAM PATTERN FOR YOUR APPLICATION

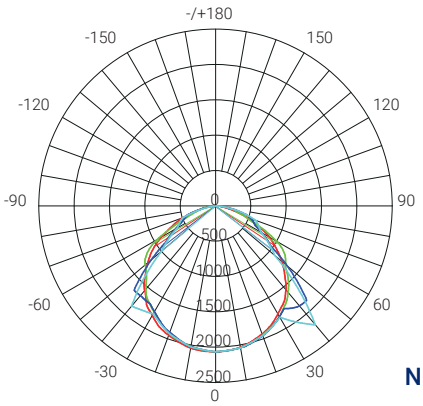
RSL optic package is engineered to deliver maximum footcandles efficiently where you need them, without wasted light or overspill.

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.	

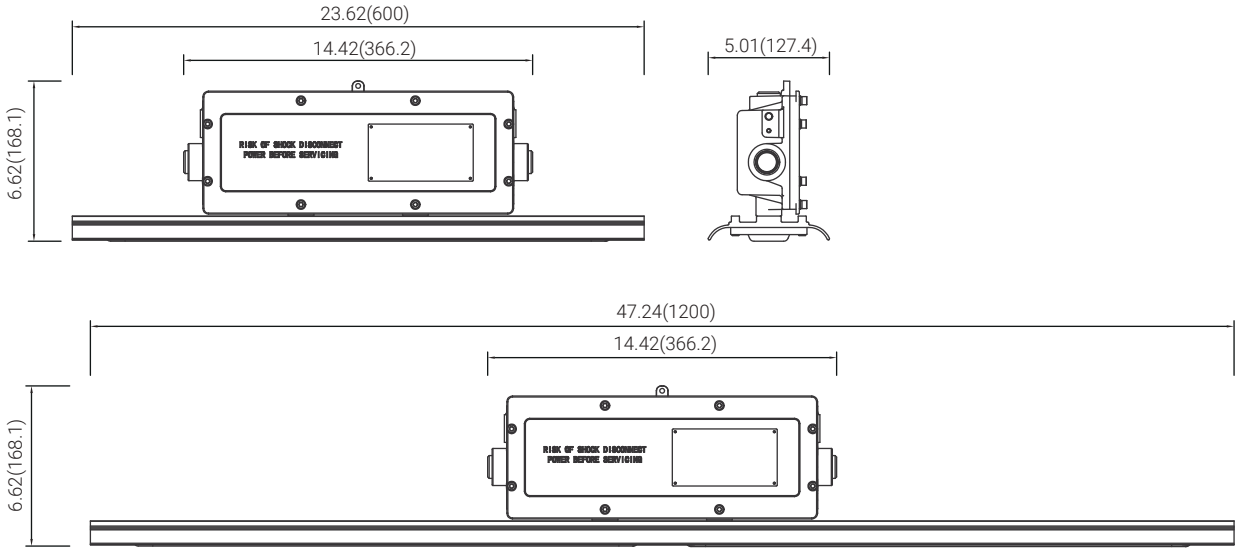
PHOTOMETRIC



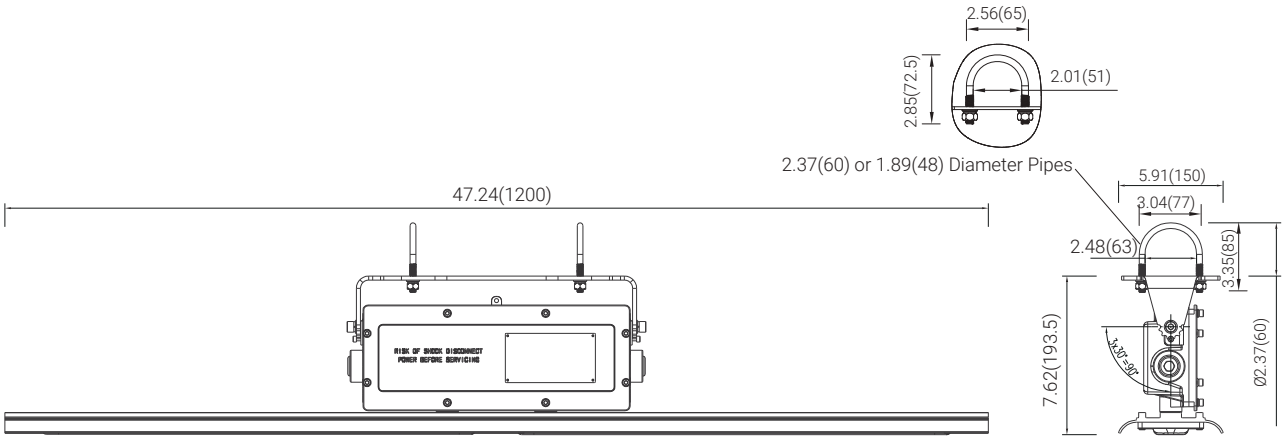
110°
NEMA 6 - Wide

DIMENSIONS

unit: in(mm)



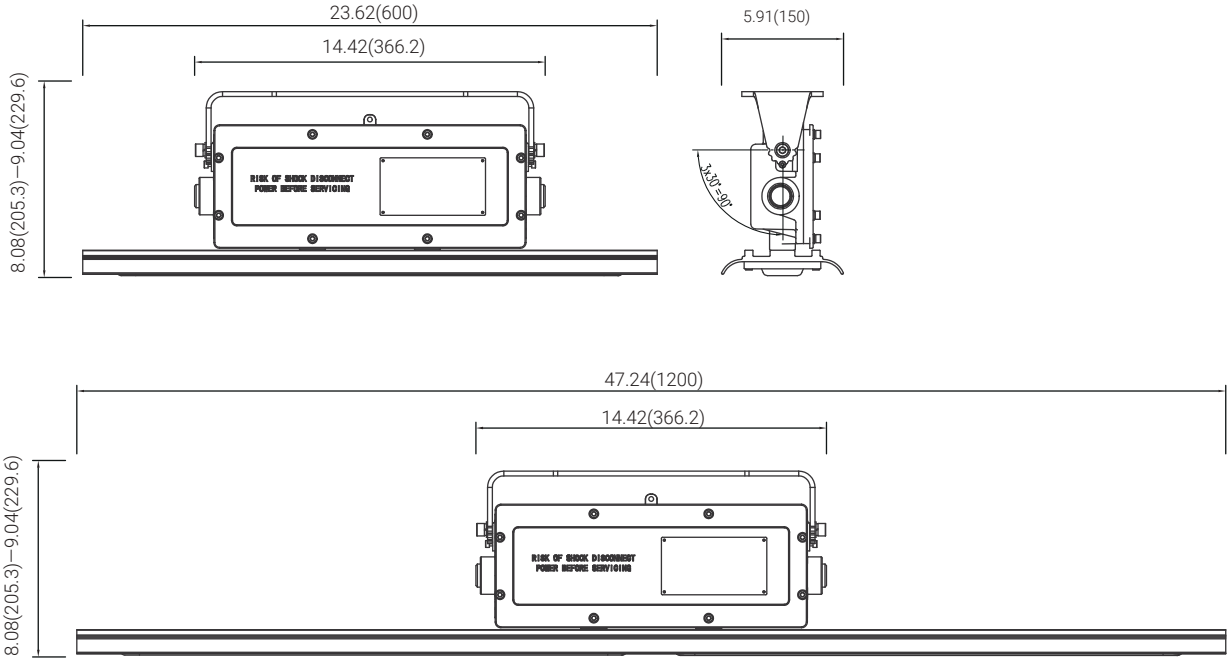
Pendant



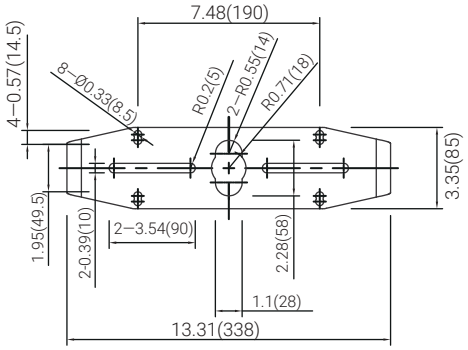
Pole

DIMENSIONS

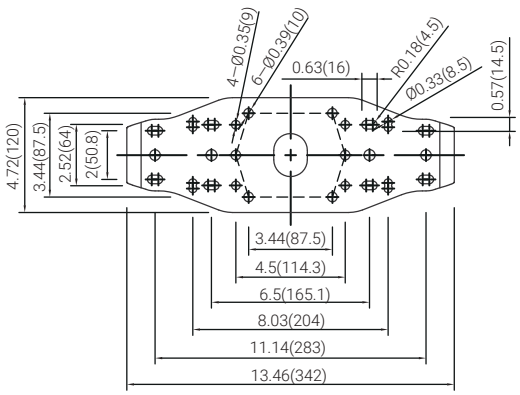
unit: in(mm)



Yoke



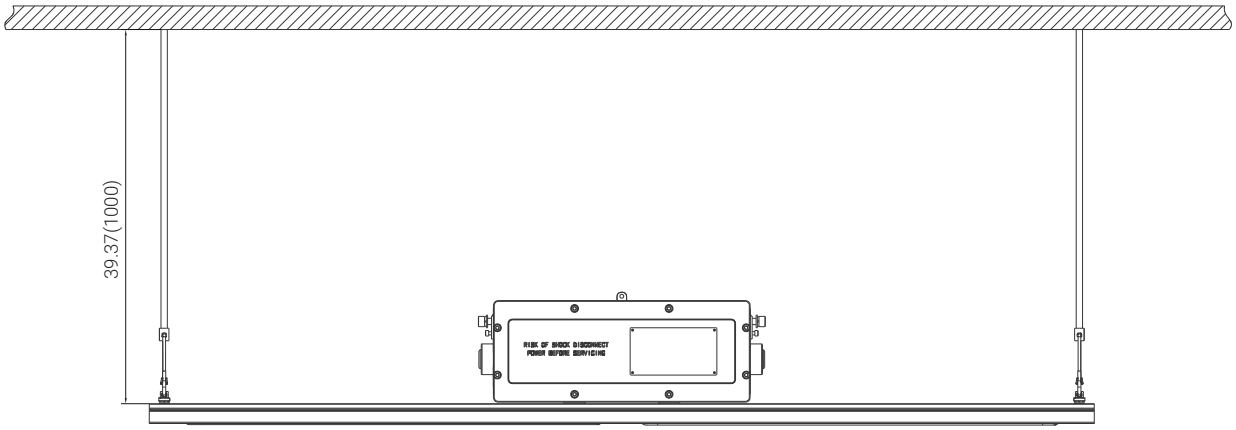
LNR-YOKE



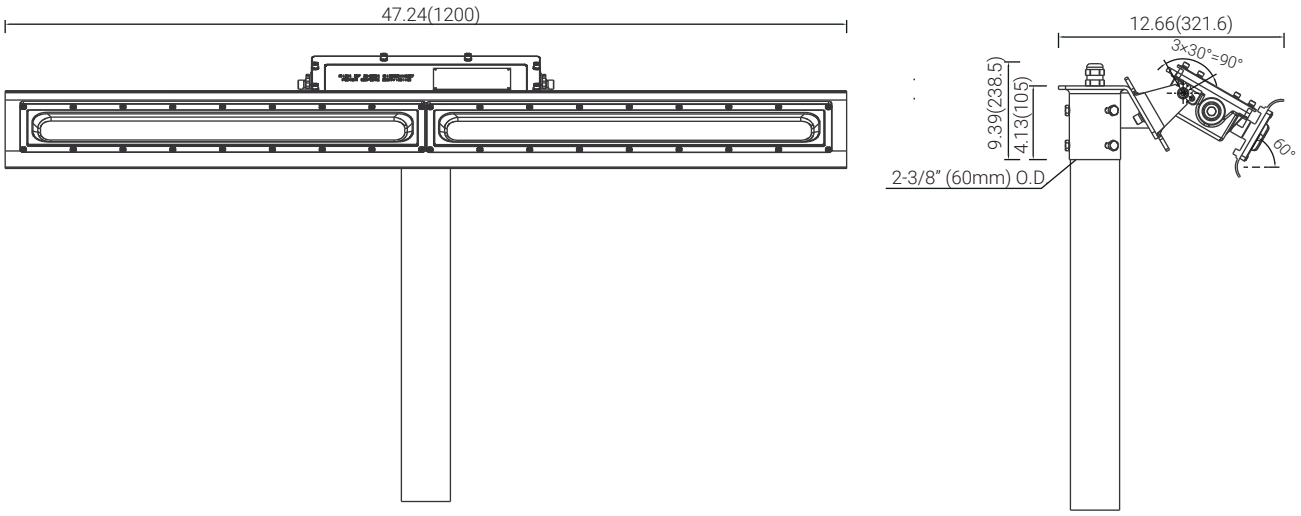
LNR-YOKE P

DIMENSIONS

unit: in(mm)



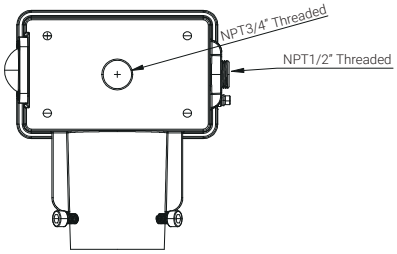
Chain

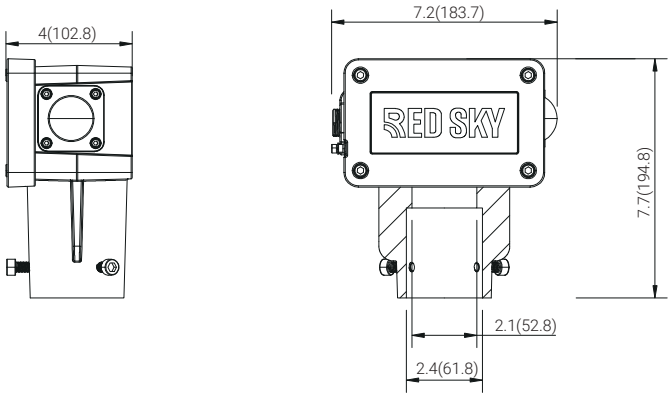


Stanchion

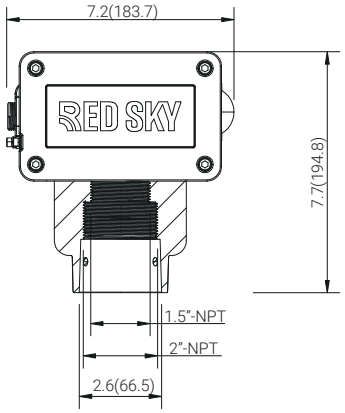
DIMENSIONS

unit: in(mm)

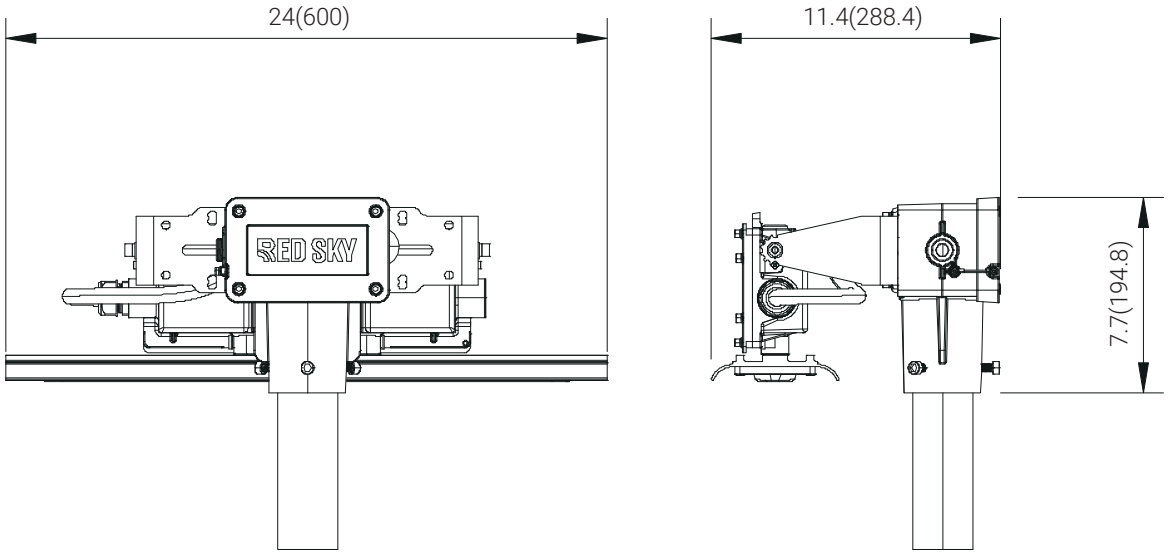




Non-threaded Pole



NPT-threaded Pole



Slip-fit Junction Box

HAZARDOUS LOCATION LIGHTING BASICS

Atmosphere Groups

Substance	Hazard Class	Division Groups	Zone Groups
Acetylene	Class I Flammable Gases	Group A	IIC
Hydrogen		Group B	IIC
Ethylene		Group C	IIB
Propane		Group D	IIA
Methane		Group D	IIA[2]
Combustible Metal Dusts	Class II Combustible Dusts	Group E[1]	IIIC[3]
Combustible Carbonaceous Dust		Group F	IIIB[3]
Combustible Dusts not in Group E or F (Flour, Grain, Wood, Plastics, Chemicals)		Group G	IIIB[3]
Combustible Fibers and Flyings	Class III Fibers and Flyings	Not Applicable	IIIA[3]

Note 1: Group E is applicable to Class II, Division 1 only.

Note 2: Methane is a Group IIA Gas for non-mining applications.

Note 3: Group IIIA, IIIB and IIIC have not been adopted by the Canadian Electrical Code.

Temperature Classification

Max. Surface Temperatures	NEC®500 CEC®	NEC®500/IEC-Group II
450°C(842°F)	T1	T1
300°C(572°F)	T2	
280°C(536°F)	T2A	T2
260°C(500°F)	T2B	
230°C(446°F)	T2C	
215°C(419°F)	T2D	
200°C(392°F)	T3	T3
180°C(256°F)	T3A	
165°C(329°F)	T3B	
160°C(320°F)	T3C	
135°C(275°F)	T4	T4
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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