LINEAR TUFF EMERGENCY SERIES

LED LIGHTING FOR HAZARDOUS AREAS

Reliable. Durable. Efficient.

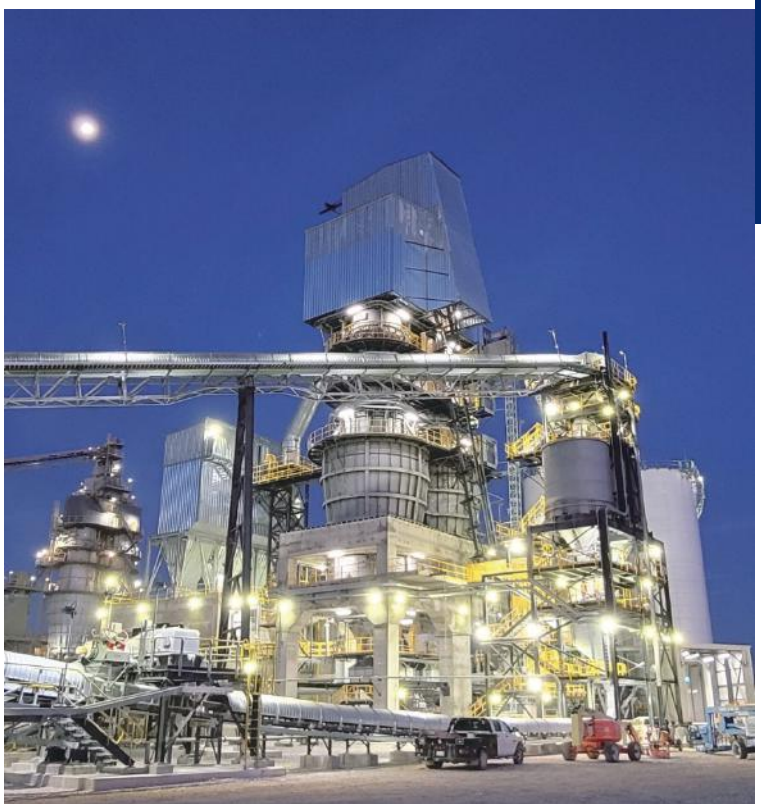
11,000 (EM: 869) lumen models

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

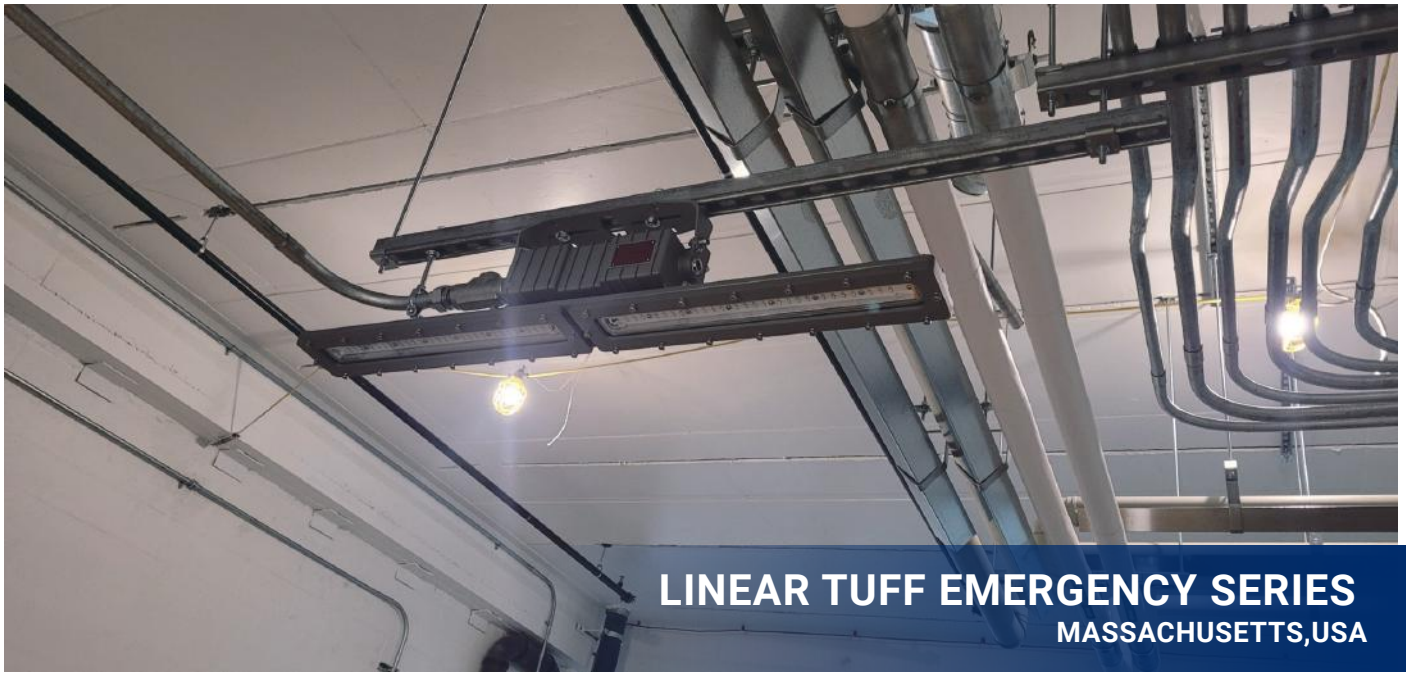
WHY CHOOSE RED SKY

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

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

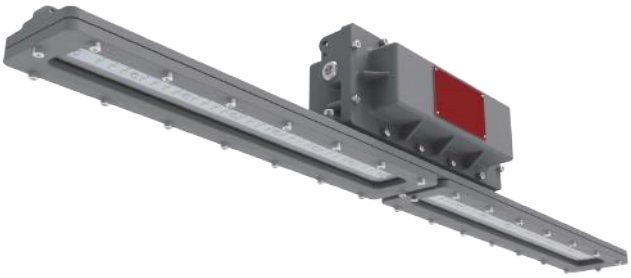
TOP-NOTCH SERVICES
- Team of experts for seamless support
- Energy audit services, lighting simulation services
- Hassle-free return policy and management

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



LINEAR TUFF EMERGENCY SERIES
MASSACHUSETTS,USA

FEATURES



- Best-in-class system efficacy-Up to 140Lm/W
- Charge time 24h, Discharge time 1.5h
- Instant on/off operation
- Wide ambient temp. range from - 20°C to +45 °C (-4°F ~ +113°F)
- Safe and reliable heat transfer - Offering a T-rating of T6 (CID1)
- Shock-and vibration-resistant - Durable LEDs with solder-less board connection
- All exposed fasteners with quality stainless steel 316
- Thermal shock and impact resistant tempered glass
- Slim and compact design

RATINGS

Class I, Division 1, Groups C and D
Class I, Zone 1, Group IIB
IP66
IK07
Salt Spray 720 hrs (ISO 9227)

CERTIFICATIONS

UL 844
CSA C22.2 No. 137
CSA C22.2 No. 30
UL 924
CSA C22.2 No. 141-15
FCC Part 15, Subpart B

TECHNICAL PARAMETERS

Specification	LNT-EM-80
Electrical Parameters	
Power	80W
Rated Input Current	0.741A@120VAC, 0.321A@277VAC
Voltage/Frequency	120-277V AC 50/60Hz
Power Factor	≥0.90
THD	<20%
L70	480,000 hrs@113°F
Dimming	0-10V,Range 10-100%
Supply Wire	12-18AWG，Rated 90°C
Charge Time	24 hours
Emergency Run Time	90mins
Battery	Nickel-Cadmium
Warranty	LEDs:10 Years, Driver:7 Years, Battery:5 Years
Optical Parameters	
Lumen Output*	11,140Lm
Lumen Output (EM)*	869Lm
Lumen Efficacy*	140Lm/w
Available Beam Angle	60° / 110° / T2
Correlated Color Temperature (CCT)	3000K/4000K/5000K
Color Rendering Index (CRI)	80 CRI
Mechanical Parameters	
Housing Material	Marine Grade Aluminium
Hardware	Stainless steel 316
Lens Material	Tempered glass
Mounting Options	Pendant, Yoke, Chain, Pole
Product Weight	26.9lbs/12.2kg
Package Weight	29lbs/13.3kg
Cable Entry	(3) 3/4" NPT
Product Dimensions(L×W×H)	43.3×5.8×7.3in(1100×148×185 mm)
Package Dimensions(L×W×H)	47.1×7.9×10.1in(1197×200×256 mm)
Environmental Parameters	
Ambient Operating Temperature	-4°F~+113°F(-20°C~+45°C)
T-Code Rating	C1D1-T6
Ambient Operating Humidity	10%～90% RH
EPA wind rating (FT2/m2)	2.616/0.243

* Value calculated based on 5000K and Clear glass ,varies to different spec.
70 CRI & 90 CRI optional, DLC available with 70 CRI only.

ORDERING INFORMATION

EXAMPLE: LNT-80-120-277-5K-110-H1-CG-GRY-PND-EM BLANK

PRODUCT SERIES

WATTAGE
80 - 80W

VOLTAGE
120 - 277
120-277V AC

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

BEAM
110 - 110° (NEMA 6 - Wide)
60 - 60° (NEMA 4 - Medium)
T2 - Type II

CRI
BLANK - 80 CRI Standard
CRI70 - 70 CRI

BATTERY
EM - Emergency

MOUNTING
PND - Pendant
YKE - Yoke*

COLOR
GRY - Grey

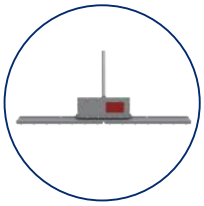
LENS
CG - Clear Glass
DG - Diffuse Glass**

RATING
H1 - C1D1

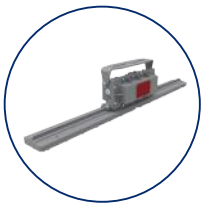
* LNT-YOKE Pre-installed as standard

** Only available with 110°

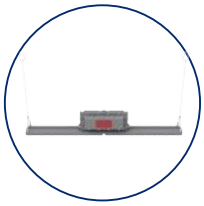
MOUNTING ACCESSORIES



Pendant



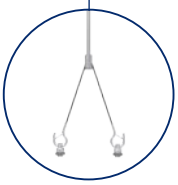
Yoke



Chain

Pole

LNT-YOKE



CHAIN01

CLAMP01/02

Mounting Method	PN	Description	MPN Code
Yoke	LNT-YOKE	Yoke Mount, SUS304, Powder-Coated Grey RAL 7037	309050067
Chain	CHAIN01	Chain Hang Kit, SUS304	309050071
Pole	CLAMP01	Pipe Clamp Kit for Round Pole 1-7/8 inch OD (48 mm), SUS304	309050047
	CLAMP02	Pipe Clamp Kit for Round Pole 2-3/8 inch OD (60 mm), SUS304	309050046

OTHER ACCESSORIES

SFCB02

PN	Description	MPN Code
SFCB02	Safety Cable Kit, SS304	309050058
SP1	10kV Surge Protector, 120~277V	309050060

REPLACEMENT PARTS (ORDERED SEPARATELY)

Part Number	Description	MPN Code
LNT-80-100-277-Driver	Replacement Driver Kit for LNT-80-120-277-EM Fixtures	303010059
LNT-EM Driver	Replacement Emergency Backup Driver Kit (Battery included) for LNT-EM Fixtures	303010108
CG005-A-01	Replacement Clear Glass Lens for LNT2, LNT EM	303030014
DG005-A-01	Replacement Diffuse Glass Lens for LNT2, LNT EM	303030015

LUMEN TABLE

PN	Wattage (W)	CCT	CRI	Beam	Lens	Lumen Output (Lm)	Efficiency (Lm/W)
Voltage 100-277VAC 80 CRI • STANDARD							
LNT-80-120-277-5K-60-H1-CG-GRY-PND-EM	80	5000K	80	60	Clear Glass	8,923	110
LNT-80-120-277-5K-T2-H1-CG-GRY-PND-EM	80	5000K	80	T2	Clear Glass	10,421	128
LNT-80-120-277-5K-110-H1-CG-GRY-PND-EM	80	5000K	80	110°	Clear Glass	11,140	140
LNT-80-120-277-5K-110-H1-DG-GRY-PND-EM	80	5000K	80	110°	Diffuse Glass	8,694	107
Emergrncy Mode: Voltage 100-277VAC 80 CRI • STANDARD							
LNT-80-120-277-5K-60-H1-CG-GRY-PND-EM	6	5000K	80	60	Clear Glass	770	129
LNT-80-120-277-5K-T2-H1-CG-GRY-PND-EM	6	5000K	80	T2	Clear Glass	949	134
LNT-80-120-277-5K-110-H1-CG-GRY-PND-EM	6	5000K	80	110°	Clear Glass	869	140
LNT-80-120-277-5K-110-H1-DG-GRY-PND-EM	6	5000K	80	110°	Diffuse Glass	852	106
Voltage 100-277VAC 70 CRI							
LNT-80-120-277-5K-60-H1-CG-GRY-PND-EM CRI70	80	5000K	70	60	Clear Glass	9,555	118
LNT-80-120-277-5K-T2-H1-CG-GRY-PND-EM CRI70	80	5000K	70	T2	Clear Glass	11,159	137
LNT-80-120-277-5K-110-H1-CG-GRY-PND-EM CRI70	80	5000K	70	110°	Clear Glass	11,460	142
LNT-80-120-277-5K-110-H1-DG-GRY-PND-EM CRI70	80	5000K	70	110°	Diffuse Glass	9,309	115
Emergrncy Mode: Voltage 100-277VAC 70 CRI							
LNT-80-120-277-5K-60-H1-CG-GRY-PND-EM CRI70	6	5000K	70	60	Clear Glass	824	138
LNT-80-120-277-5K-T2-H1-CG-GRY-PND-EM CRI70	6	5000K	70	T2	Clear Glass	1,016	143
LNT-80-120-277-5K-110-H1-CG-GRY-PND-EM CRI70	6	5000K	70	110°	Clear Glass	1,107	138
LNT-80-120-277-5K-110-H1-DG-GRY-PND-EM CRI70	6	5000K	70	110°	Diffuse Glass	912	113

347–480Vac models deliver the same lumen output as the 120–277Vac 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 LNT EM series LED is easy to retrofit in the same configuration as your existing HID luminaires. For example, a 80-watt Linear Tuff Emergency (LNT-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 140,000 hours of continuous operation.

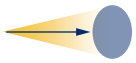
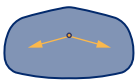
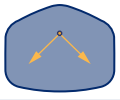
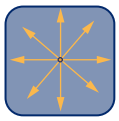
MODELS	Lumen Output (Lm)	MH Equivalent (W)	HPS Equivalent (W)
LNT-80-EM	11,140	250	310

THE RIGHT BEAM PATTERN FOR YOUR APPLICATION

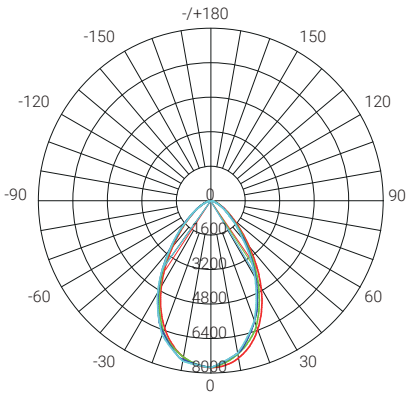
RSL optic package is engineered to deliver maximum footcandles efficiently where you need them, without wasted light or overspill.

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.

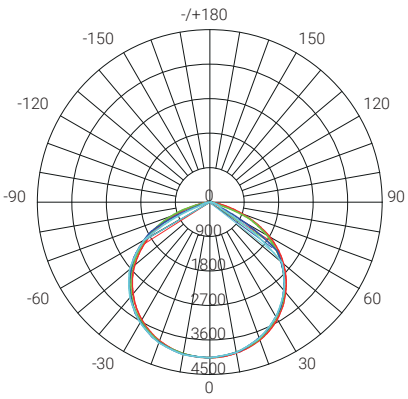
Simply fill out the form (https://dev.redskylighting.com/lighting-design) with a few key details, request a layout, and we'll bring your ideas to life within 2-5 business days.

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.	

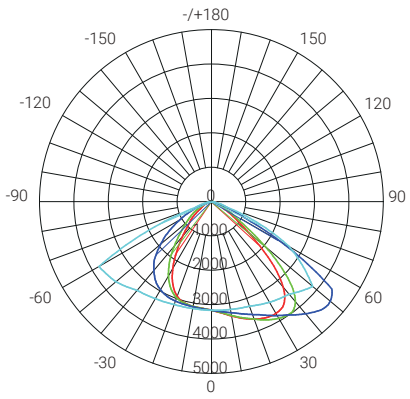
PHOTOMETRIC



60°
NEMA 4 - Medium



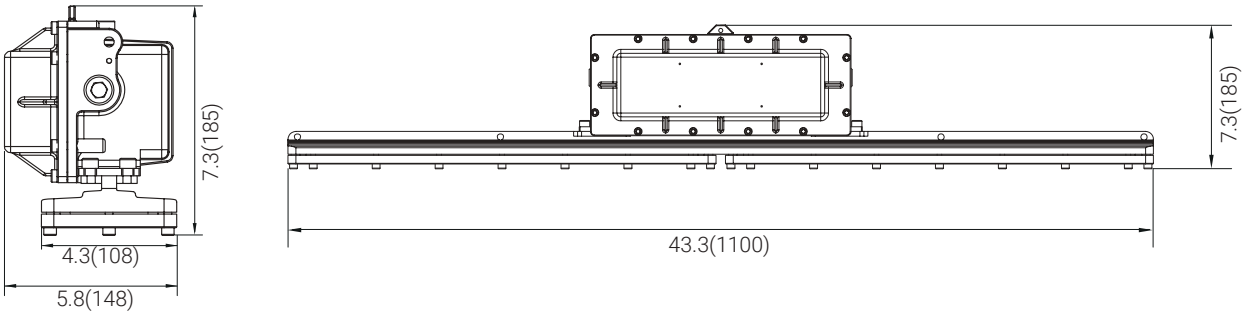
110°
NEMA 6 - Wide



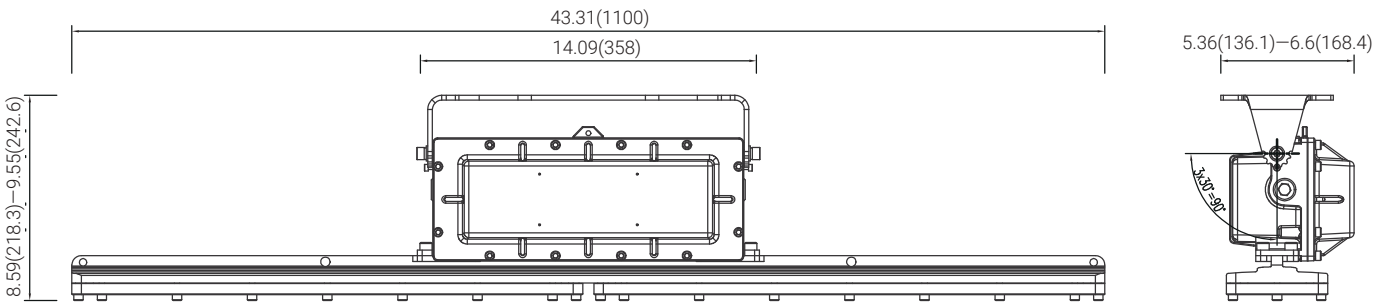
Type II

DIMENSIONS

unit: in(mm)



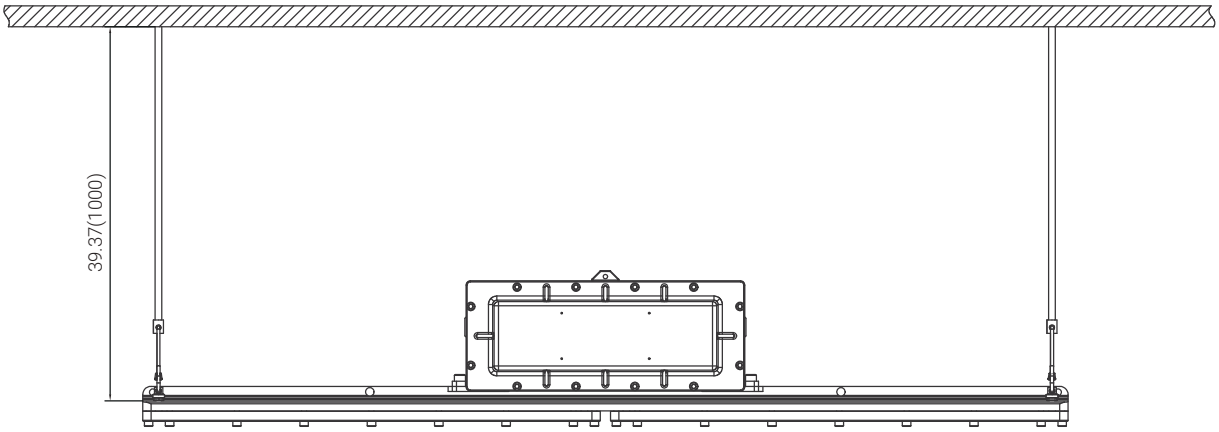
Pendant



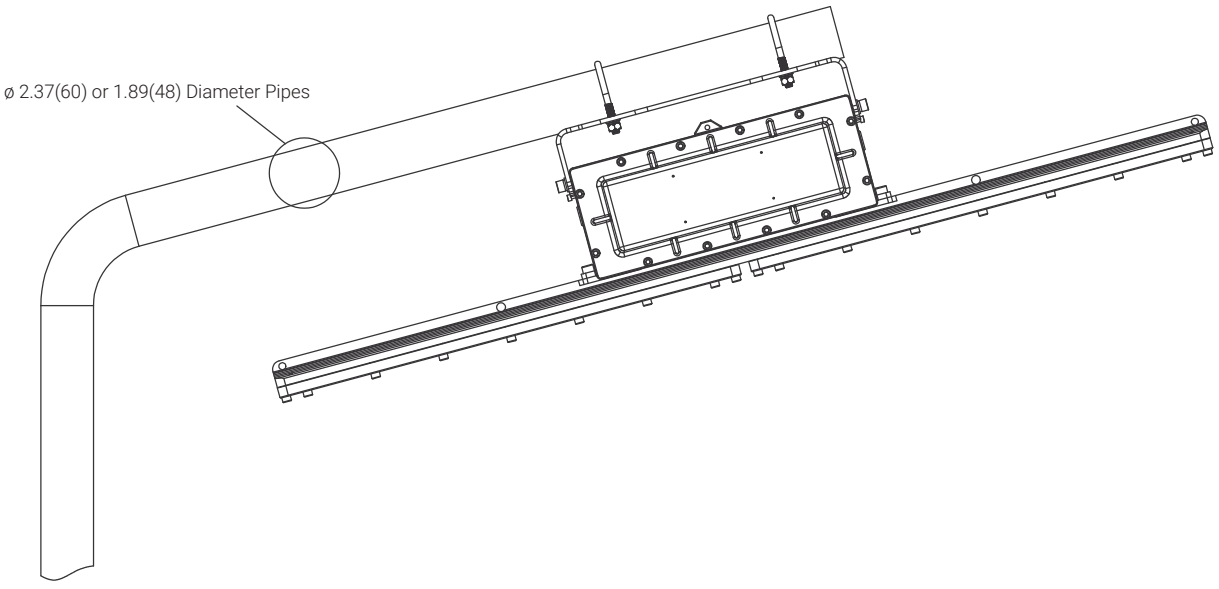
Yoke

DIMENSIONS

unit: in(mm)



Chain



Pole

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

RED SKY
SERIOUSLY SAFE LIGHTS™

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