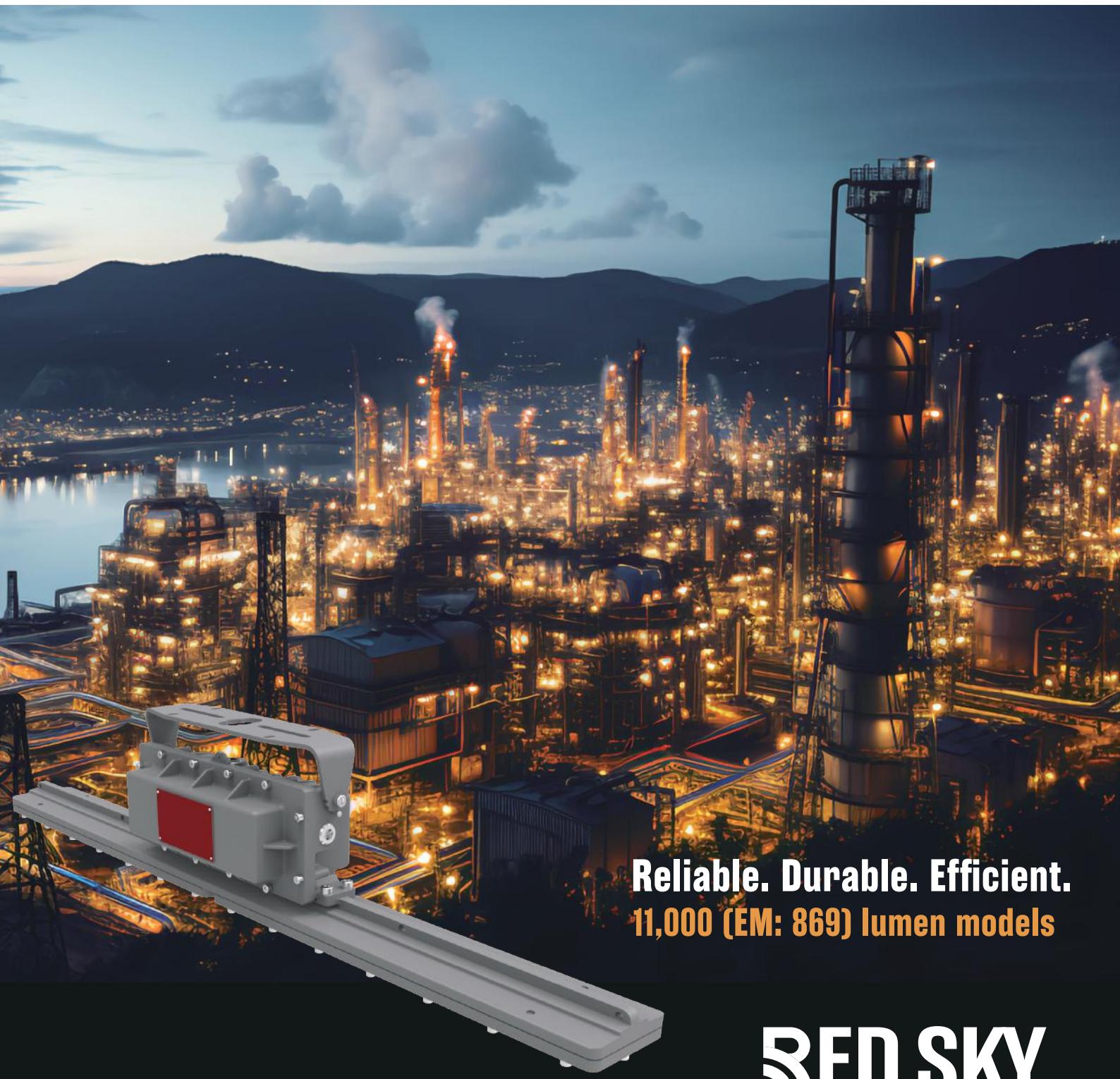


# LINEAR TUFF EMERGENCY SERIES

## LED LIGHTING FOR HAZARDOUS AREAS

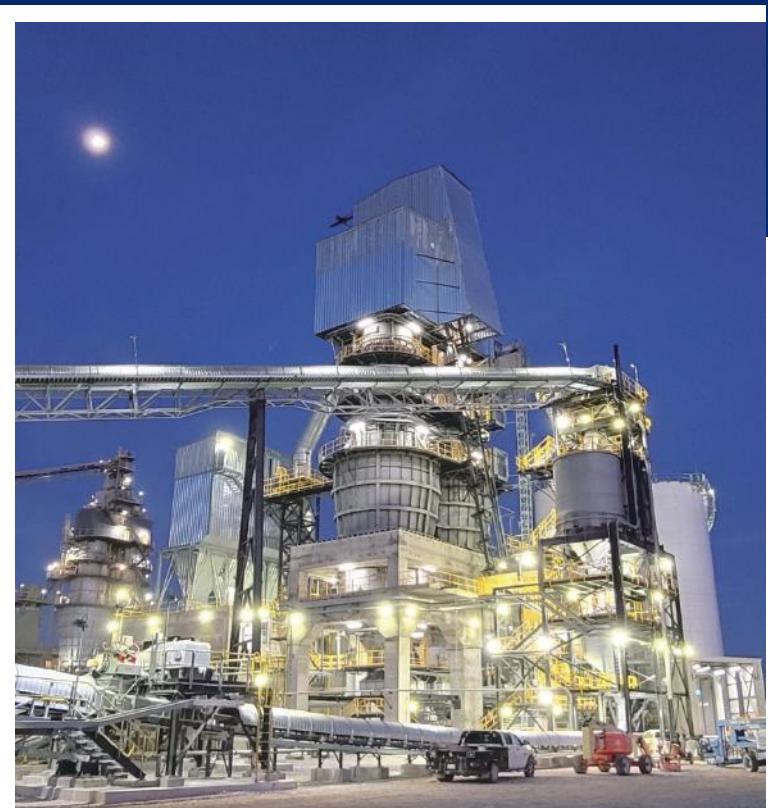


**Reliable. Durable. Efficient.**  
**11,000 (EM: 869) lumen models**

**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

### ⚡ TOP-NOTCH SERVICES

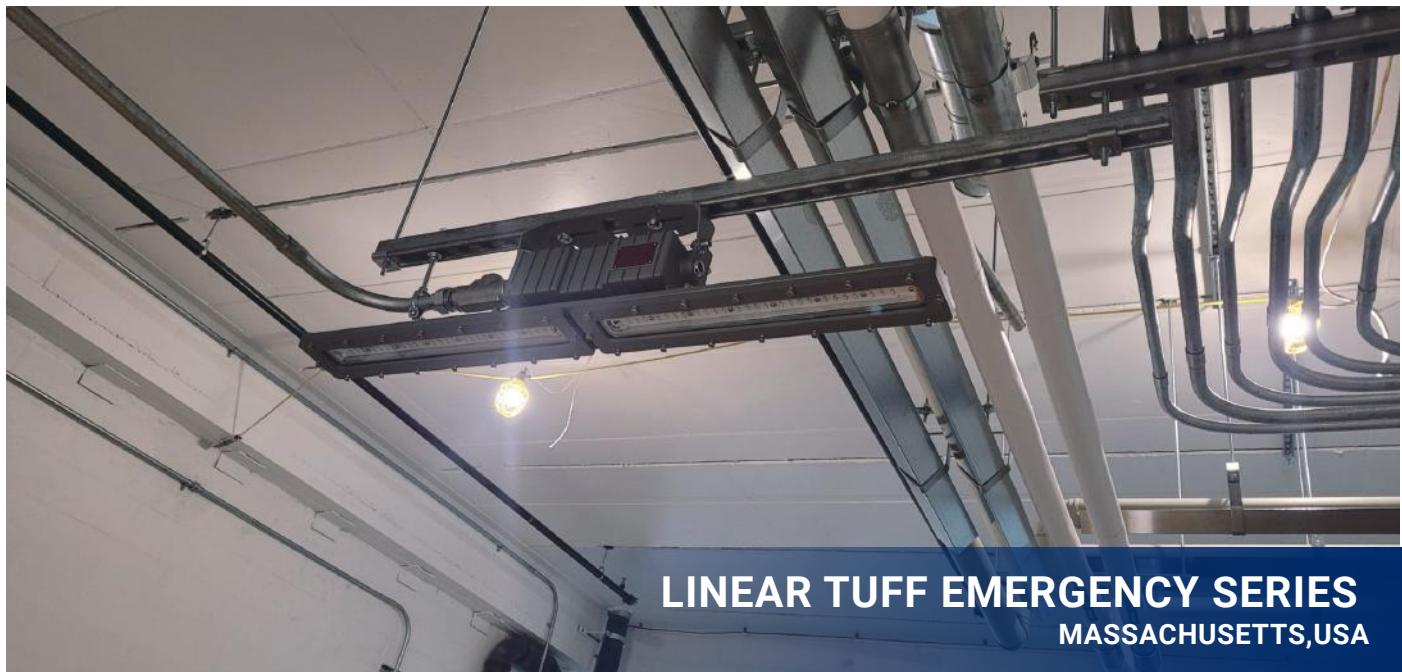
- Team of experts for seamless support
- Energy audit services, lighting simulation services
- Hassle-free return policy and management

### ⚡ 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

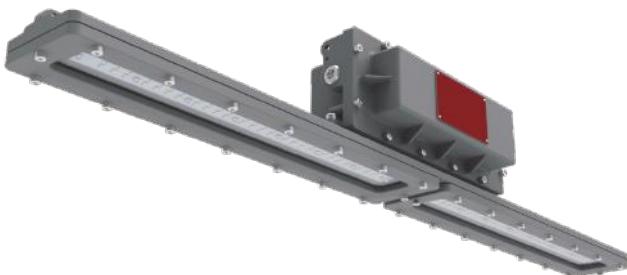
- High luminous efficacy LEDs for energy savings
- Conscious product design
- Recyclable materials for products and packaging



## LINEAR 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 (ASTM B117)

### 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
<b>Electrical Parameters</b>	
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
Surge Protection	10KV
Charge Time	24 hours
Emergency Run Time	90mins
Battery	Nickel-Cadmium
Warranty	LEDs:10 Years, Driver:7 Years, Battery:5 Years
<b>Optical Parameters</b>	
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
<b>Mechanical Parameters</b>	
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)
<b>Environmental Parameters</b>	
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 optional, DLC available with 70 CRI only, none 90 CRI.

# ORDERING INFORMATION

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

LNT

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

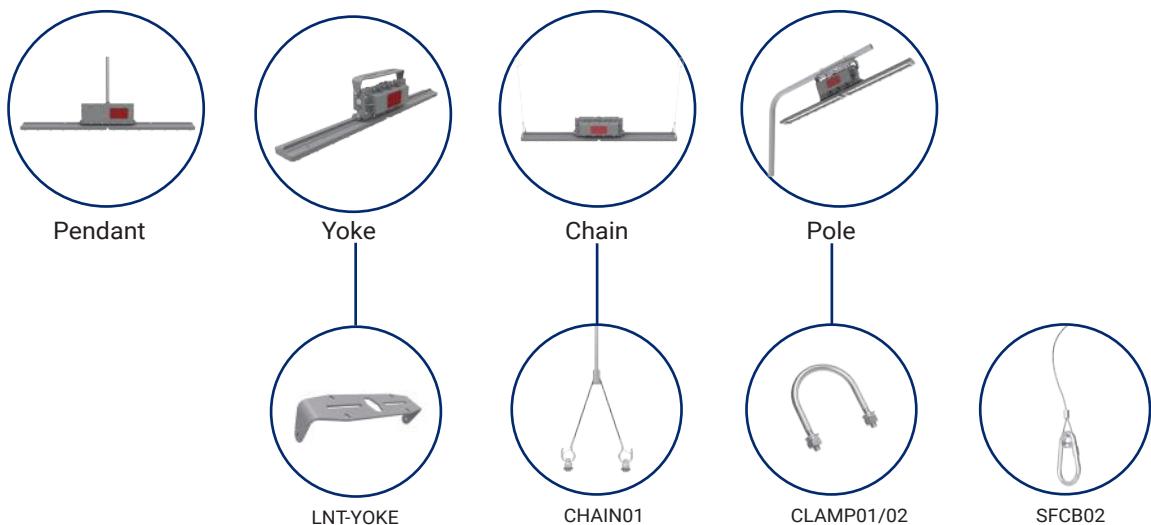
\* LNT-YOKE Pre-installed as standard

\*\* Only available with 110°



LINEAR TUFF EMERGENCY SERIES

## MOUNTING ACCESSORIES



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
	SFCB02	Safety Cable Kit, SS304	309050058

## 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

## Emergency 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

## Emergency 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 100–277Vac models.

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

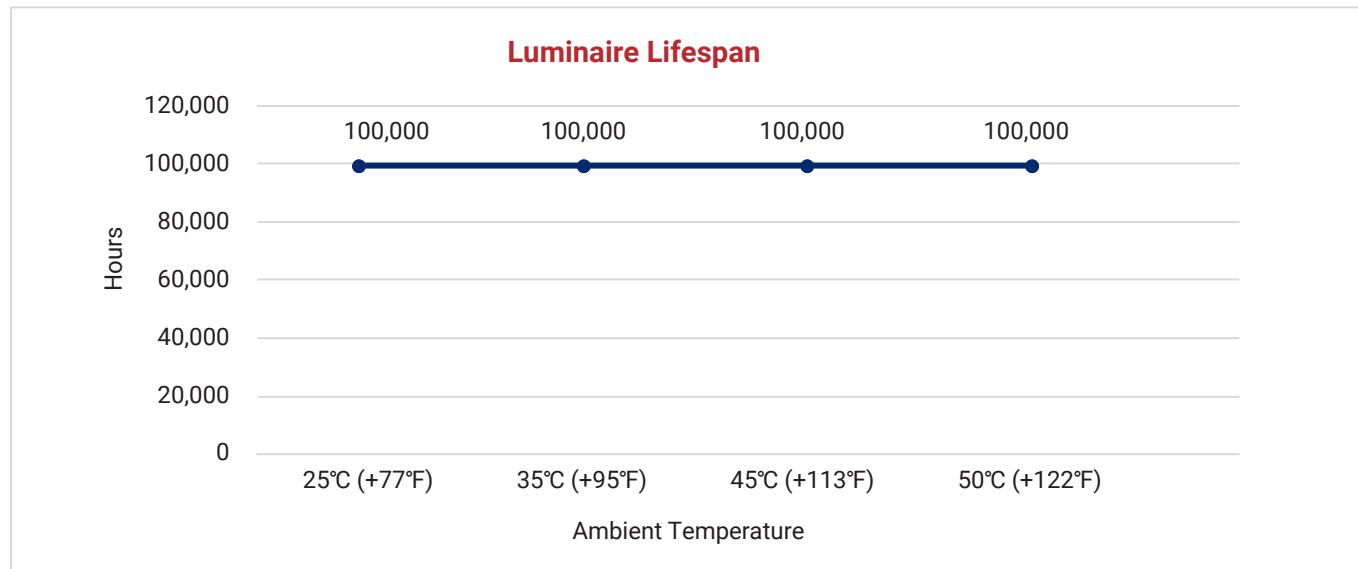
Note: LXX# = nominal lumens. Verify lumen package before ordering.

## LUMEN MAINTENANCE

Hours Ambient	0	15,000	30,000	45,000	60,000	75,000	90,000	100,000	150,000
25°C	100%	99%	98%	97%	96%	95%	94%	93%	90%
35°C	100%	99%	98%	97%	96%	95%	94%	93%	90%
45°C	100%	99%	98%	97%	96%	95%	94%	93%	90%
50°C	100%	99%	98%	97%	96%	95%	94%	93%	90%

## 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 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

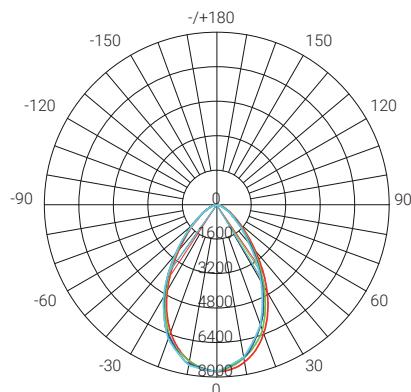
# THE RIGHT BEAM PATTERN FOR YOUR APPLICATION

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

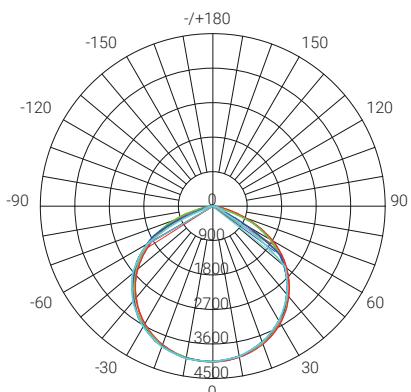
RSL offers complimentary lighting design services for our products using industry-leading AGI32 software, tailored for projects of all sizes in harsh and hazardous locations. We assist you in determining the number of fixtures needed, the types of lights to use, their optimal placement, and how to maximize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

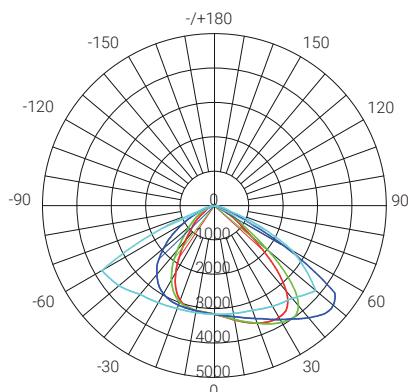
Beam	NEMA/IESNA Type	Beam Description	Beam Projection Distance
30°	NEMA 3	Medium Narrow	
60°	NEMA 4	Medium	
90°	NEMA 5	Medium Wide	
120°	NEMA 6	Wide	
T1	Type I	Asymmetric distributions, well suited for narrow areas, such as Conveyor belts, Aislesways, Catwalks, Loading docks and Tunnels.	
T2	Type II	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.	



**60°**  
**NEMA 4 - Medium**



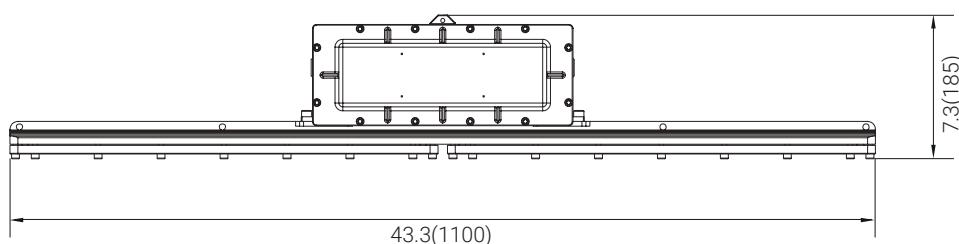
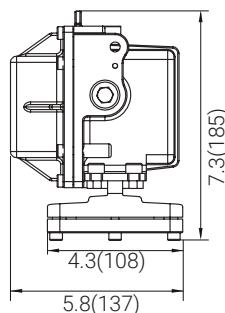
**110°**  
**NEMA 6 - Wide**



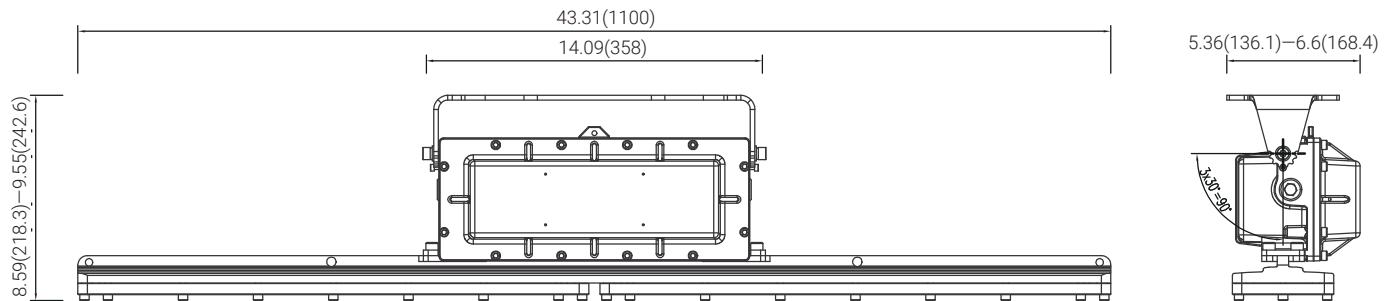
**Type II**

## **DIMENSIONS**

unit: in(mm)



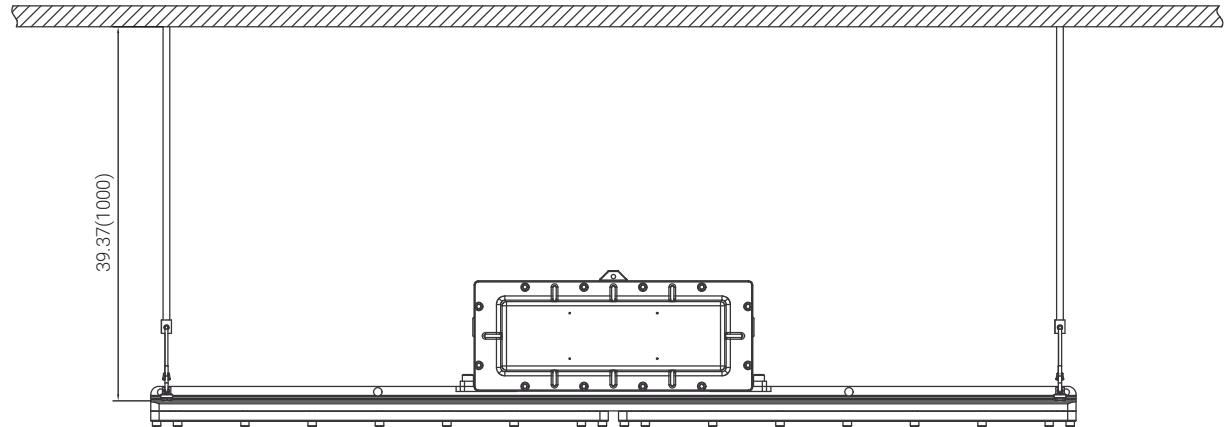
**Pendant**



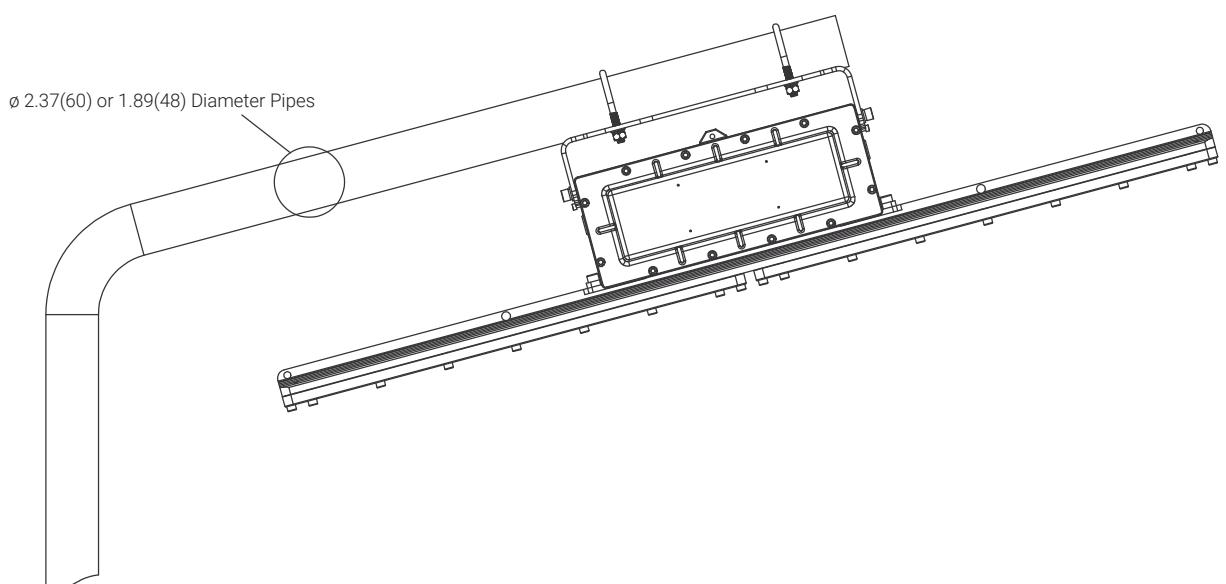
**Yoke**

# DIMENSIONS

unit: in(mm)



Chain



Pole

# HAZARDOUS LOCATION LIGHTING BASICS

## Atmosphere Groups

## Temperature Classification

Substance	Hazard Class	Division Groups	Zone Groups	Max. Surface Temperatures	NEC®500 CEC®	NEC®500/IEC-Group II	
Acetylene	Class I Flammable 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		
Propane		Group D	IIA	260°C(500°F)	T2B	T2	
Methane		Group D	IIA <sup>2</sup>	230°C(446°F)	T2C		
Combustible Metal Dusts	Class II Combustible 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		
Combustible Dusts not in Group E or F (Flour, Grain, Wood, Plastics, Chemicals)		Group G	IIIB <sup>3</sup>	180°C(356°F)	T3A	T3	
Combustible Fibers and Flyings	Class III Fibers and Flyings	Not Applicable	IIIA <sup>3</sup>	165°C(329°F)	T3B		
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.							

## Classification of Divisions and Zones

Hazard Level	Division Scheme	Zone Scheme	Definitions
Continuous Hazard	Division 1	Zone 0 / Zone 20	A place in which an explosive atmosphere is continually present
Intermittent Hazard		Zone 1 / Zone 21	A place in which an explosive atmosphere is likely to occur in normal operation
Hazard Under Abnormal Conditions	Division 2	Zone 2 / Zone 22	A place in which an explosive atmosphere is not likely to occur in normal operation, but may occur for short periods

## IP Codes

1st No.	Solid Objects
0	No protection
1	Objects greater than 50mm
2	Objects greater than 12.5mm
3	Objects greater than 2.5mm
4	Objects greater than 1mm
5	Dust protected
6	Dust proof

2nd No.	Liquids
0	No protection
1	Vertically dripping
2	Dripping up to 15°
3	Limited spraying
4	Splashing from all directions
5	Hosing jets from all directions
6	Strong hosing jets from all directions
7	Temporary immersion
8	Continuous immersion
9	Steam-jet cleaning

## IK Ratings

IK Code	Level of Protection Achieved
IK00	Not protected
IK01	Protected against 0.14 joules impact
IK02	Protected against 0.2 joules impact
IK03	Protected against 0.35 joules impact
IK04	Protected against 0.5 joules impact
IK05	Protected against 0.7 joules impact
IK06	Protected against 1 joules impact
IK07	Protected against 2 joules impact
IK08	Protected against 5 joules impact
IK09	Protected against 10 joules impact
IK10	Protected against 20 joules impact



**+1 (262) 456-5002**  
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[www.redskylighting.com](http://www.redskylighting.com)

**RED SKY LIGHTING LLC**  
9370 Pittsburgh Ave.  
Rancho Cucamonga, CA 91730, USA

#### **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.

Rev.05 01/26