

LINE SERIES

Hazardous Location Lighting

Unique hinge-design of driver housing LED, features the industry's most versatile and flexible mounting options. The Line is the ideal solution for many hazardous, high vibration, and corrosive environments.

Compliance

NEC/CEC Standard

UL 844 Hazardous Locations

Class I Division 2, Groups A, B, C, D

Class II Division 1, Groups E, F, G

Class II Division 2, Groups F, G

Class III

Class I, Zone 2, Group IIC

CSA C22.2 No.137

CSA C22.2 No.250.0:21

FCC

UL 1598 Wet Locations

UL 1598A Marine Outside Type (Salt Water)

UL 8750 LED Safety

IP66/67 | IK10 | 5G | NEMA 4X

Technical Data

Electrical

Rated Power	30W / 40W / 45W / 60W / 80W
Input Voltage	100-277, 347-480V/AC
Input Frequency	50/60Hz
Power Factor	> 0.95
Driver Efficiency	≥ 90%
DC output Ripple & Noise	<200mVP-P

Optical

Lumen Output	5100lm ~ 13,600lm
Luminous Efficacy (Lumens per Watt)	170 lm/W
Beam Angle	30° / 60° / 90° / 110° / T2 / T3 / T4
Color Temperature	3000K 4000K 5000K
CRI	Ra>70

Environmental

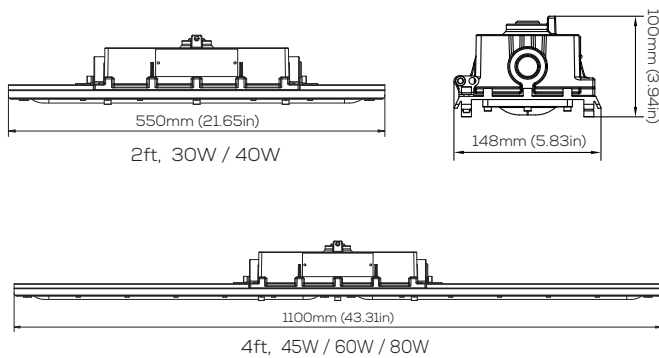
Ambient Operating Temperature	-40°C ~ +70°C
Ambient Operating Humidity	10%~90% RH
Atmospheric pressure	86~106KPa
T-Code(NEC/CEC)	C1D2: T5 (65°C), T4A (70°C) C2D1: T5 (65°C)

Technical

Lens Material	Polycarbonate
Mounting Options	Pendant / Ceiling / Wall mount / Stanchion / U-Bracket
Cable Entries	3/4" NPT, 1-1/2" NPT
Net Weight	2ft: 3.4kg (7.5 lbs) 4ft: 5.15kg (11.35 lbs)

Dimensions

unit: mm(in)

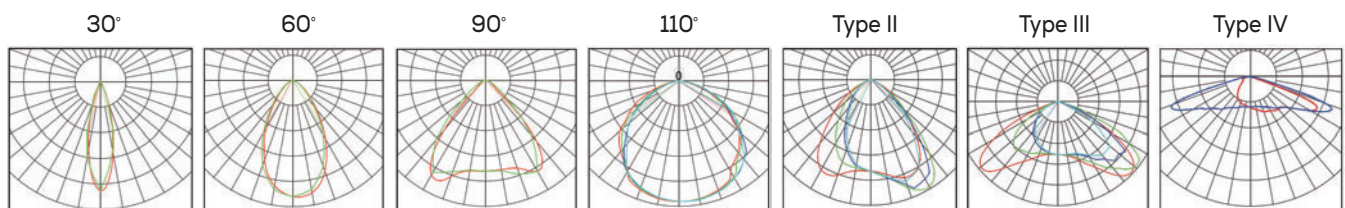


Warranty

10-year limited system warranty

Lumen Maintenance: L70 > 150,000 hours @ 25°C

Beam Distribution

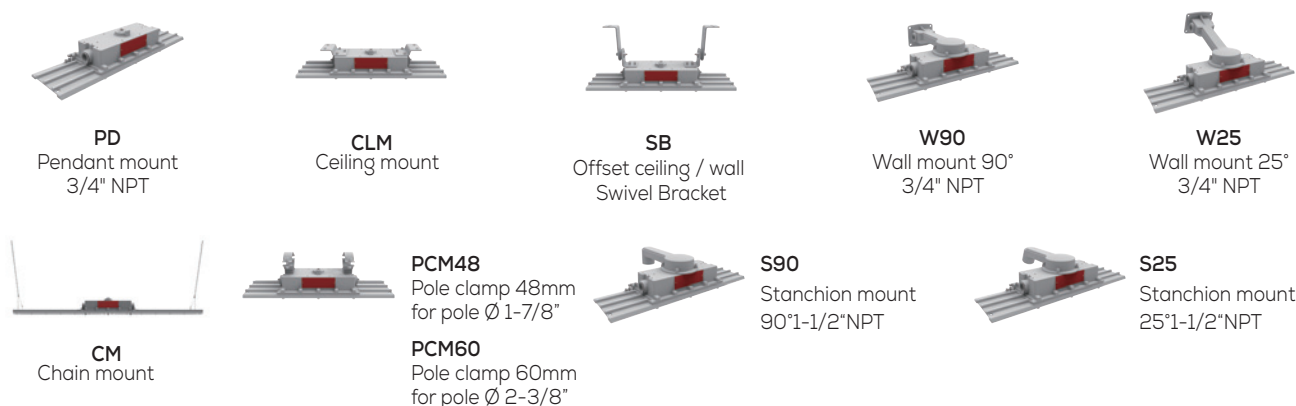


Ordering Information and Mounting Accessories

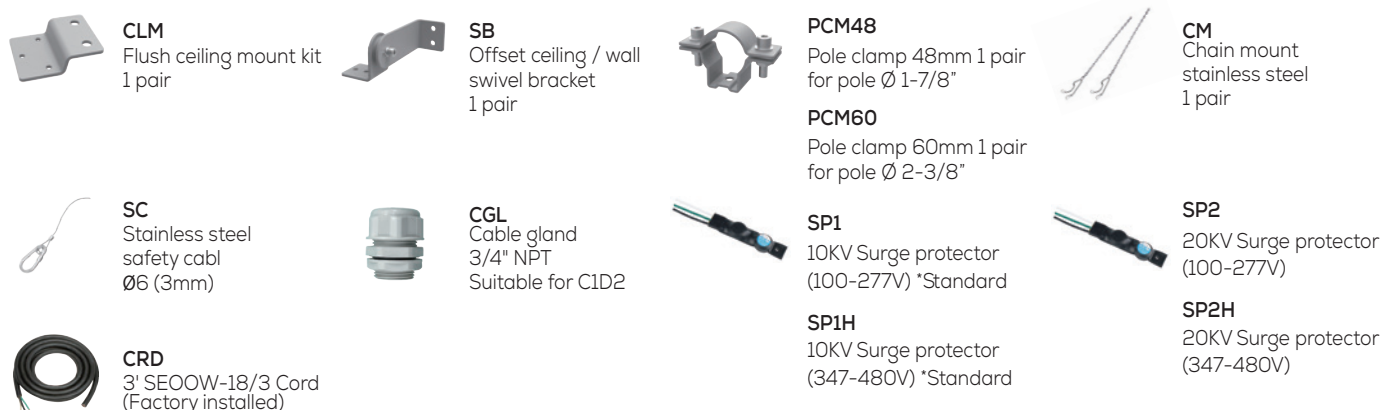
LNE	30	L	3K	110	2	CP	GR	PD	XX
Model LNE		Voltage L - 100-277V/AC H - 347-480V/AC ¹		Optics 30 - 30° 60 - 60° 90 - 90° 110 - 110° T2 - T2 T3 - T3 T4 - T4	Ex. Level 2 - C1D2, C2D1	Lens CP - Clear polycarbonate DP - Diffuse polycarbonate	Color GR - Gray	Mount Style PD - Pendant mount (3/4" NPT) CLM - Ceiling mount SB - Offset ceiling / wall swivel bracket CM - Chain mount PCM48 - Pole clamp 48mm for pole Ø 1-7/8" PCM60 - Pole clamp 60mm for pole Ø 2-3/8" W90 - Wall mount 90° W25 - Wall mount 25° S90 - Stanchion-90° (1-1/2" NPT) S25 - Stanchion-25° (1-1/2" NPT)	Accessories SC - Stainless steel safety cable SP1 - 10KV surge protector (100-277V) *Standard SP1H - 10KV surge protector (347-480V) *Standard SP2 - 20KV surge protector (100-277V) SP2H - 20KV surge protector (347-480V) CRD - 3' SEOOW-18/3 Cord CGL - Cable Gland 3/4" NPT
Power 30 - 5,100 lm (30W) 40 - 6,800 lm (40W) 45 - 7,650 lm (45W) 60 - 10,200 lm (60W) 80 - 13,600 lm (80W)		Color Temp 3K - 3000K (Soft white) 4K - 4000K (Neutral white) 5K - 5000K (Cool white)							

¹ Only available for 60W or 80W (LNE-60 or LNE-80)

Mounting Options



Accessories



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		Zone1 / Zone 21	A place in which an explosive atmosphere is likely to occur in normal operation
Hazard Under Abnormal Conditions	Division 2	Zone2 / Zone 22	A place in which an explosive atmosphere is not likely to occur in normal operation, but may occur for short periods

Hazardous Atmosphere Category

Explosive atmosphere	Typical Hazard Material	Hazard Class	Division Group	NEC 505 / CEC 18
Gases, vapors, and liquids	A: Acetylene B: Hydrogen, etc. C: Ether, etc. D: Hydrocarbons, fuels, solvents, etc.	Class I	Group A Group B Group C Group D	IIC IIC or IIB+H2 IIB IIA
Dusts	E: Metal dusts (conductive and explosive) F: Carbon dusts (some are conductive, and all are explosive) G: Flour, starch, grain, combustible plastic or chemical dust (explosive)	Class II	Group E Group F Group G	IIIC IIIC IIIB
Fibers and flyings	Textiles, wood-working, etc. (easily ignitable, but not likely to be explosive)	Class III	Not Applicable	IIIA

IP Codes

Solid Objects	Liquids
0 - No protection	0 - No special protection
1 - Objects > 50mm diameter	1 - Vertically dripping water
2 - Objects > 12.5mm diameter	2 - Vertically dripping water when enclosure tilted by 15°
3 - Objects > 2.5mm diameter	3 - Sprayed water up to 60°
4 - Objects > 1.0mm diameter	4 - Sprayed water from all directions
5 - Dust protected	5 - Water jets
6 - Dust tight	6 - Powerful water jets
	7 - Temporary submersion to a depth of 1m
	8 - Extended submersion to a depth of >1m

IK Codes

IK Code	Impact energy, J
IK01	0.14
IK02	0.2
IK03	0.35
IK04	0.5
IK05	0.7
IK06	1
IK07	2
IK08	5
IK09	10
IK10	20
IK11	50

Temperature Classification

Marking	NEC500 CEC	NEC 505 IEC-GROUP II
450°C	T1	T1
300°C	T2	
280°C	T2A	
260°C	T2B	T2
230°C	T2C	
215°C	T2D	
200°C	T3	
180°C	T3A	
165°C	T3B	T3
160°C	T3C	
135°C	T4	
120°C	T4A	T4
100°C	T5	T5
85°C	T6	T6

Zone classification and Equipment protection level (EPL)

Gas Zones	Definition	ATEX Category	EPL	Required Protection
Methane	Mines with methane and dust. Equipment remains energised in explosive atmosphere	M1	Ma	Two Faults
Methane	Mines with methane and dust. Equipment is de-energised in explosive atmosphere	M2	Mb	Severe Normal Operation
Zone 0	Explosive atmosphere present continuously or for long periods, frequently	1G	Ga	Two Faults
Zone 1	Explosive atmosphere is likely to occur under normal conditions, occasionally	2G	Gb	One Fault
Zone 2	Explosive atmosphere is unlikely to occur under normal conditions, short periods	3G	Gc	Normal Operation
Dust Zones	Definition	ATEX Category	EPL	Required Protection
Zone 20	Explosive atmosphere present continuously or for long periods, frequently	1D	Da	Two Faults
Zone 21	Explosive atmosphere is likely to occur under normal conditions, occasionally	2D	Db	One Fault
Zone 22	Explosive atmosphere is unlikely to occur under normal conditions, short periods	3D	Dc	Normal Operation