

LINEAR LOW PROFILE SERIES

HAZARDOUS LOCATION LED LUMINAIRE



Reliable. Durable. Efficient.
2,700 to 12,000 lumen models



RED SKY
SERIOUSLY SAFE LIGHTS™

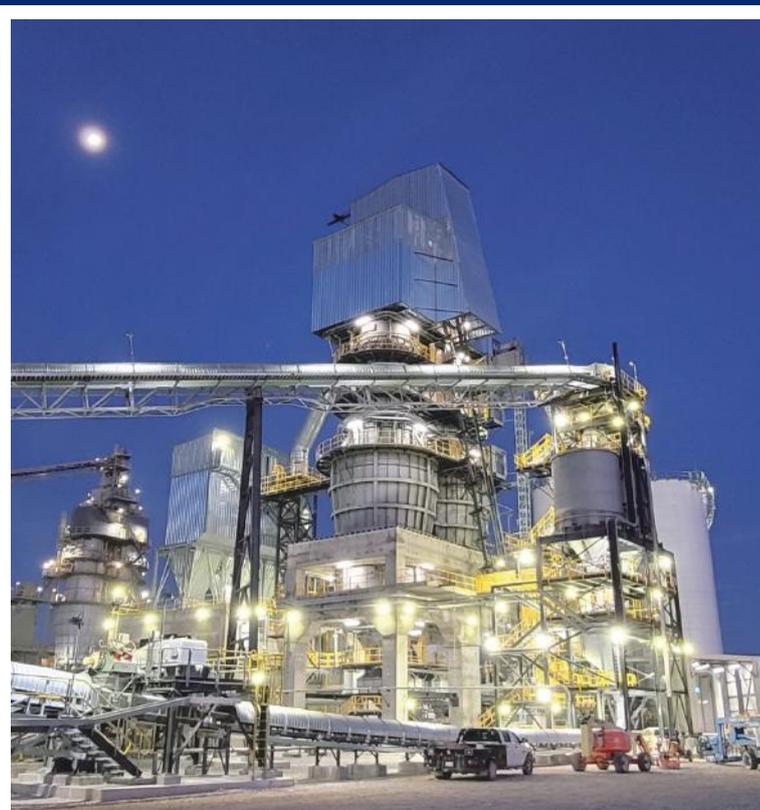
PIONEERING INDUSTRIAL ILLUMINATION FOR HARSH & HAZARDOUS CONDITIONS

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

❧ 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

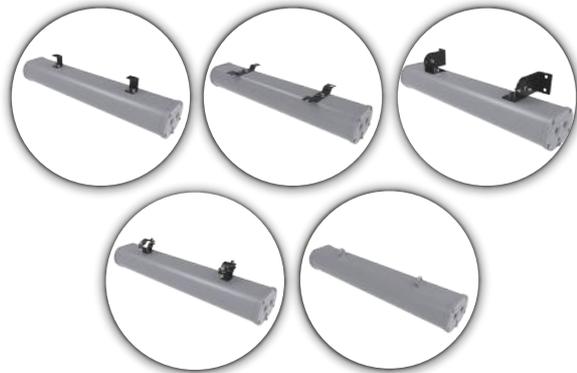
- High luminous efficacy LEDs for energy savings
- Conscious product design
- Recyclable materials for products and packaging



FEATURES



Multi-mounting Options



Safe and reliable performance

Offering a T-code of T6(Gas) and T80°C(Dust), much cooler than conventional fixtures, with operating ambient temperature up to 55°C, LED Life L70>470,000 hrs of maintenance-free operation.

Easy and Through Wiring

Built-in WAGO RAIL-MOUNT TERMINAL BLOCKS TOPJOB® S with 4mm² max conductor for easy wiring
 Captive screw applied for secure fastening and quick re-installation of wiring compartment
 2 cable entries on each end for in-out connection

RATINGS

Zone 1&2
 Zone 21&22
 IP66
 IK10
 Salt Spray 720 hrs (ISO 9227)

CERTIFICATIONS

ATEX & UKEX
 II 2G Ex db eb mb IIC T6/T5 Gb
 II 2D Ex tb IIIC T80°C Db
IECEX
 Ex db eb mb IIC T6/T5 Gb
 Ex tb IIIC T80°C Db

ROHS
CE LVD/EMC
EN62471

TECHNICAL PARAMETERS

Specification	LLP-20	LLP-40	LLP-50	LLP-60	LLP-80	LLP-100
Electrical Parameters						
Power	20W	40W	50W	60W	80W	100W
Rated Input Current (220V AC)	0.101A	0.202A	0.253A	0.303A	0.404A	0.505A
Voltage/Frequency	120-277V AC 50/60Hz					
Power Factor	≥0.90*					
THD	≤20%					
L70	470,000 hrs@55°C					
Dimming	0-10V, Range 10-100%					
Surge Protection	6KV					
Supply Wire	1mm ² -4mm ² , Rated 90°C					
Warranty	Fixture: 5 Years, Battery: 1 Year					
Optical Parameters						
Lumen Output**	2,674 Lm	4,886 Lm	7,122 Lm	8,231 Lm	10,295 Lm	12,158 Lm
Lumen Output(EM)**	EM6 - 6W (1,087Lm@180Mins) /EM12 - 12W (1,962Lm@90Mins)					
Lumen Efficacy**	130Lm/W					
Available Beam Angle	110°					
Correlated Color Temperature (CCT)	4000K/5700K/Red/Green/Blue/Amber					
Color Rendering Index (CRI)	Ra>70					
Mechanical Parameters						
Housing Material	Marine Grade Aluminium					
Hardware	Stainless steel 316					
Lens Material	Polycarbonate					
Mounting Options	Low Ceiling, High Ceiling, Wall, Eyebolt, Pole					
Product Weight***	A: 6.3kg/13.89 lbs B: 6.7kg/14.77 lbs	A: 6.3kg/13.89 lbs B: 6.7kg/14.77 lbs C: 9.5kg/20.94 lbs	C: 9.5kg/20.94 lbs D: 9.9kg/21.83 lbs			
Package Weight***	A: 7.5kg/16.53 lbs B: 8.0kg/17.64 lbs	A: 7.5kg/16.53 lbs B: 8.0kg/17.64 lbs C: 11.3kg/24.91 lbs	C: 11.3kg/24.91 lbs D: 11.8kg/26.01 lbs			
Cable Entry	(4) M20/M25					
Product Dimensions (LxWxHmm)***	A: 747x158x111 B: 864x158x111	A: 747x158x111 B: 864x158x111 C: 1332x158x111	C: 1332x158x111 D: 1449x158x111			
Package Dimensions (LxWxHmm)***	A: 809x220x170 B: 920x220x170	A: 809x220x170 B: 920x220x170 C: 1388x220x170	C: 1388x220x170 D: 1505x220x170			
Environmental Parameters						
Ambient Operating Temperature	-40°C~+55°C, -20°C~+50°C(Emergency)					
T-Code Rating	T6(Gas Environment) T80°C(Dust Environment)			T5(Gas Environment) T80°C(Dust Environment)		
EPA wind rating (FT2/m2)	A: 1.528/0.142, B: 1.765/0.164, C: 2.722/0.253, D: 2.959/0.275					

* Only the PF value of LLP-20-120-277-*-EM is ≥0.8

** Value calculated based on 5700K and Clear PC, varies to different spec.

***A: Single Lens / Single Access

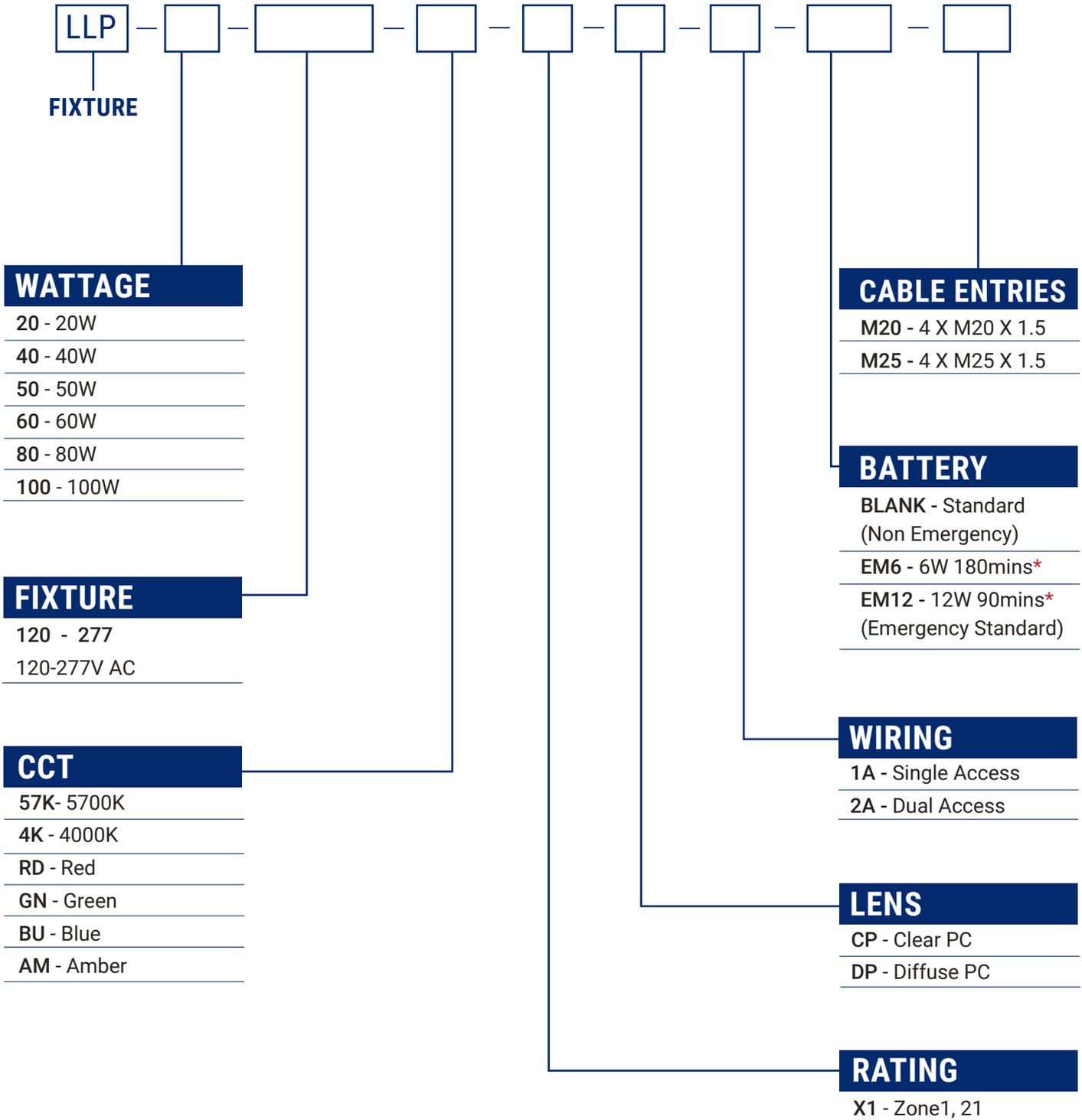
B: Single Lens / Dual Access

C: Dual Lens / Single Access

D: Dual Lens / Dual Access

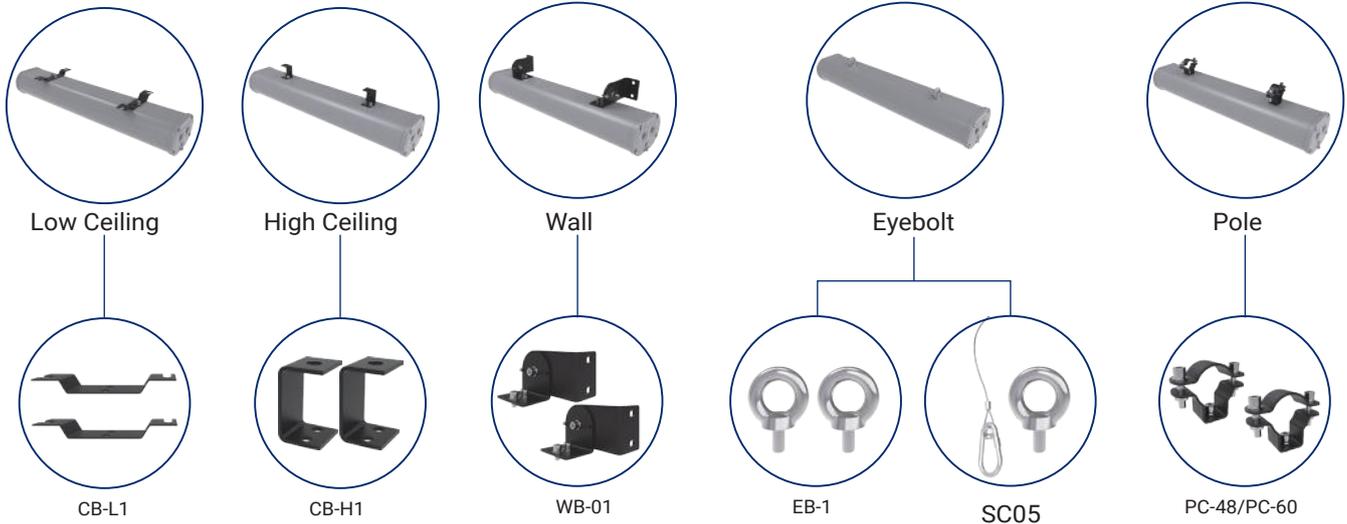
ORDERING INFORMATION

EXAMPLE: LLP-60-120-277-57K-X1-CP-1A-EM12-M20



* Emergency only applies to A and C models only, see page 9.

MOUNTING ACCESSORIES



Mounting Method	PN	Description	MPN Code
Low Ceiling	CB-L1	Low Ceiling Mount Bracket, 1 Pair	309050220
High Ceiling	CB-H1	High Ceiling Mount Bracket, 1 Pair	309050222
Wall	WB-01	Wall Mount Swivel Bracket, 1 Pair	309050224
Eyebolt	EB-1	Eyebolt, 1 Pair	309050226
	SC05	Safety Cable Kit, SUS304	309050228
Pole	PC-48	40-51 mm Diameter Range SUS316 Pole Clamp, 1 Pair	309050230
	PC-60	54-62 mm Diameter Range SUS316 Pole Clamp, 1 Pair	309050232

REPLACEMENT PARTS (ORDERED SEPARATELY)

Part Number	Description	MPN Code
LLP-*-EM Battery	Replacement Battery for LLP-*-EM,2.5AH	303040009
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

LUMEN TABLE

Part Number	Size (ft)	Wattage (W)	CCT	Lens	Lumen Output (Lm)	Efficiency (Lm/W)
Voltage 120-277V AC						
LLP-20-120-277-57K-X1-CP-1A-M20	2ft	20	5700K	Clear PC	2,674	129
LLP-20-120-277-57K-X1-DP-1A-M20	2ft	20	5700K	Diffuse PC	2,300	111
LLP-40-120-277-57K-X1-CP-1A-M20	2ft	40	5700K	Clear PC	4,886	121
LLP-40-120-277-57K-X1-DP-1A-M20	2ft	40	5700K	Diffuse PC	4,190	104
LLP-40-120-277-57K-X1-CP-1A-M20	4ft	40	5700K	Clear PC	5,868	145
LLP-40-120-277-57K-X1-DP-1A-M20	4ft	40	5700K	Diffuse PC	4,897	120
LLP-50-120-277-57K-X1-CP-1A-M20	4ft	50	5700K	Clear PC	7,122	141
LLP-50-120-277-57K-X1-DP-1A-M20	4ft	50	5700K	Diffuse PC	5,931	117
LLP-60-120-277-57K-X1-CP-1A-M20	4ft	60	5700K	Clear PC	8,231	137
LLP-60-120-277-57K-X1-DP-1A-M20	4ft	60	5700K	Diffuse PC	6,829	113
LLP-80-120-277-57K-X1-CP-1A-M20	4ft	80	5700K	Clear PC	10,295	129
LLP-80-120-277-57K-X1-DP-1A-M20	4ft	80	5700K	Diffuse PC	8,600	108
LLP-100-120-277-57K-X1-CP-1A-M20	4ft	100	5700K	Clear PC	12,158	122
LLP-100-120-277-57K-X1-DP-1A-M20	4ft	100	5700K	Diffuse PC	10,127	101

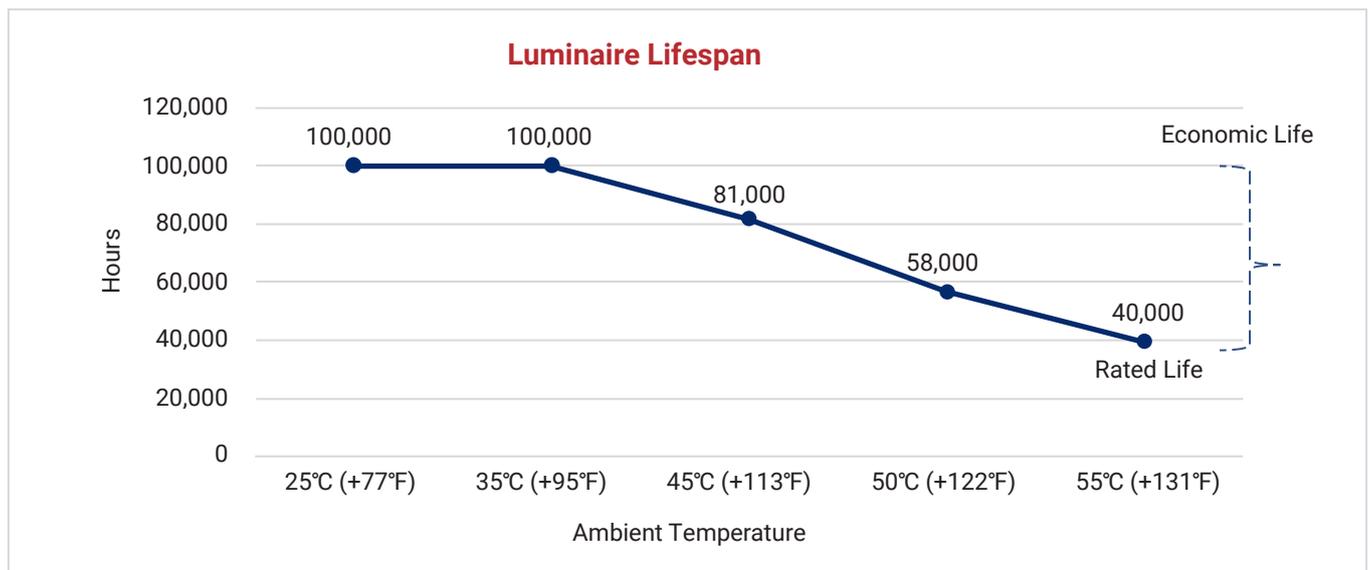
This table lists only selected lumen packages. For additional model parameters, please contact our sales team.
 Note: LXX# = nominal lumens. Verify lumen package before ordering.

LUMEN MAINTENANCE

Ambient \ Hours	0	15,000	30,000	45,000	60,000	75,000	90,000	100,000	150,000
25°C	100%	97%	96%	95%	94%	94%	92%	91%	88%
35°C	100%	97%	96%	95%	94%	93%	92%	91%	88%
45°C	100%	97%	96%	95%	94%	93%	92%	91%	88%
50°C	100%	97%	96%	95%	94%	93%	92%	91%	88%
55°C	100%	97%	96%	95%	94%	93%	92%	91%	88%

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)	81,000	9	18
50°C(+122°F)	58,000	7	13
55°C(+131°F)	40,000	5	9



Information shown for reference only and may vary by configuration.

A DIRECT RETROFIT FROM HID TO LED

The LLP series LED is easy to retrofit in the same configuration as your existing HID luminaires. For example, a 100-watt Low Profile Linear (LLP-100) delivers virtually the same illumination as its equivalent 200 watt MH luminaire while providing 50% reduction in energy costs and up to 150,000 hours of continuous operation.

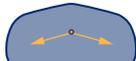
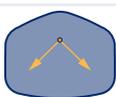
MODELS	Lumen Output (Lm)	MH Equivalent (W)	HPS Equivalent (W)
LLP-20	2,674	70	100
LLP-40	4,886	100	150
LLP-50	7,122	150	150
LLP-60	8,231	150	200
LLP-80	10,295	200	225
LLP-100	12,158	200	250

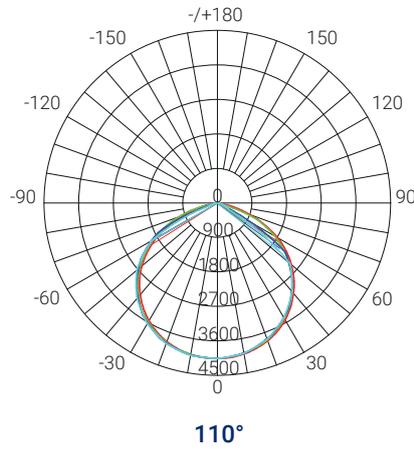
THE RIGHT BEAM PATTERN FOR YOUR APPLICATION

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.

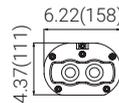
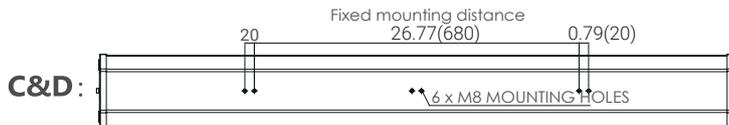
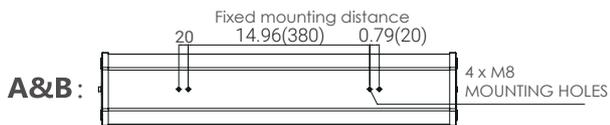
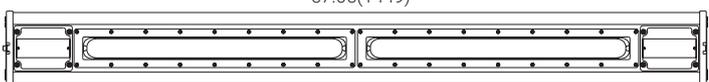
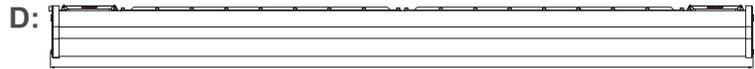
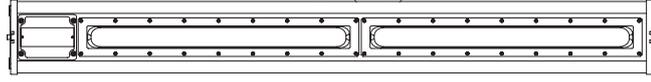
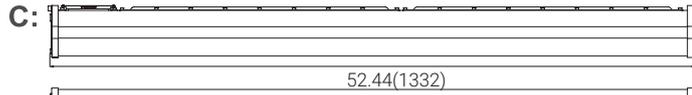
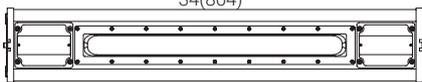
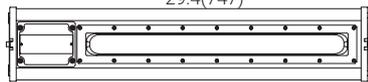
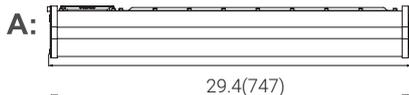
Simply fill out the form (<https://dev.redskylighting.com/lighting-design>) with a few key details, request a layout, and we'll bring your ideas to life within 2-5 business days.

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.	



DIMENSIONS

unit: in(mm)



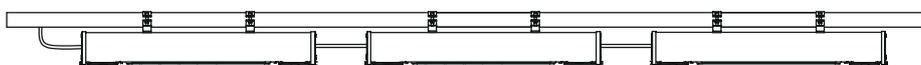
A:	Single Lens / Single Access*	LLP-20/40
B:	Single Lens / Dual Access	LLP-20/40
C:	Dual Lens / Single Access*	LLP-40/50/60/80/100
D:	Dual Lens / Dual Access	LLP-50/60/80/100

* Emergency only applies to A or C models

THROUGH WIRING

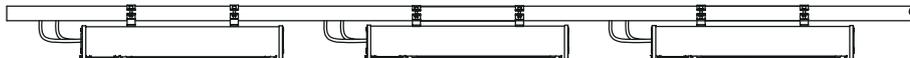
In-out connection can be made on one or both sides for quick installation

On both ends of the connection



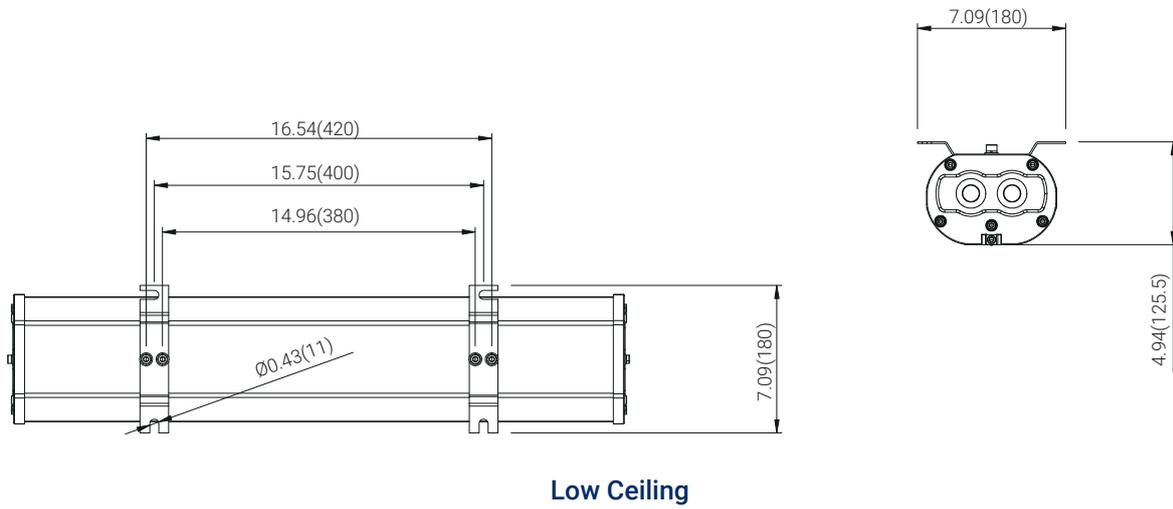
Dual Access

On end of the wire

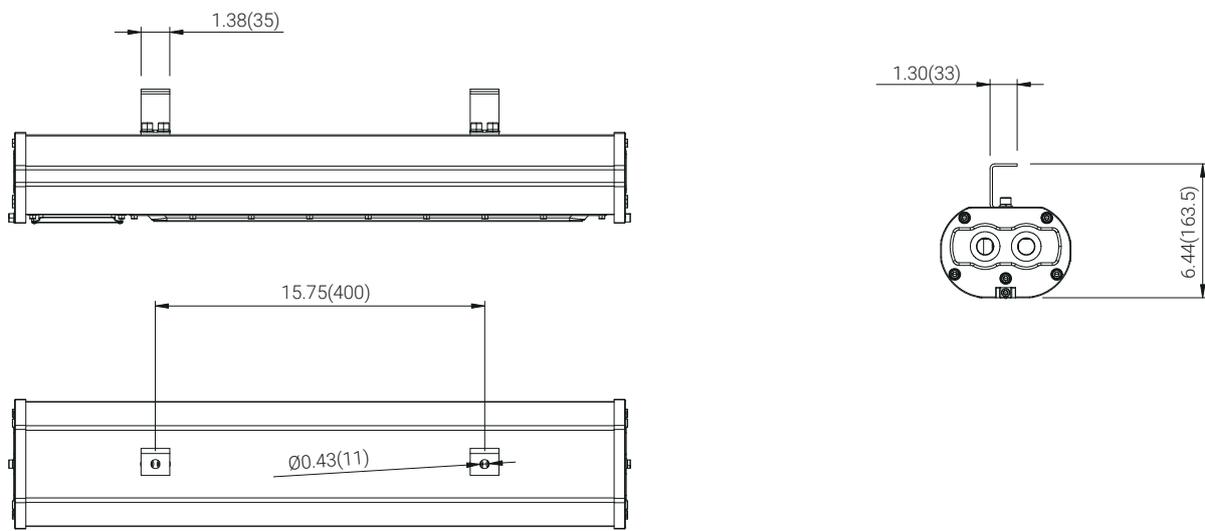


Single Access

unit: in(mm)

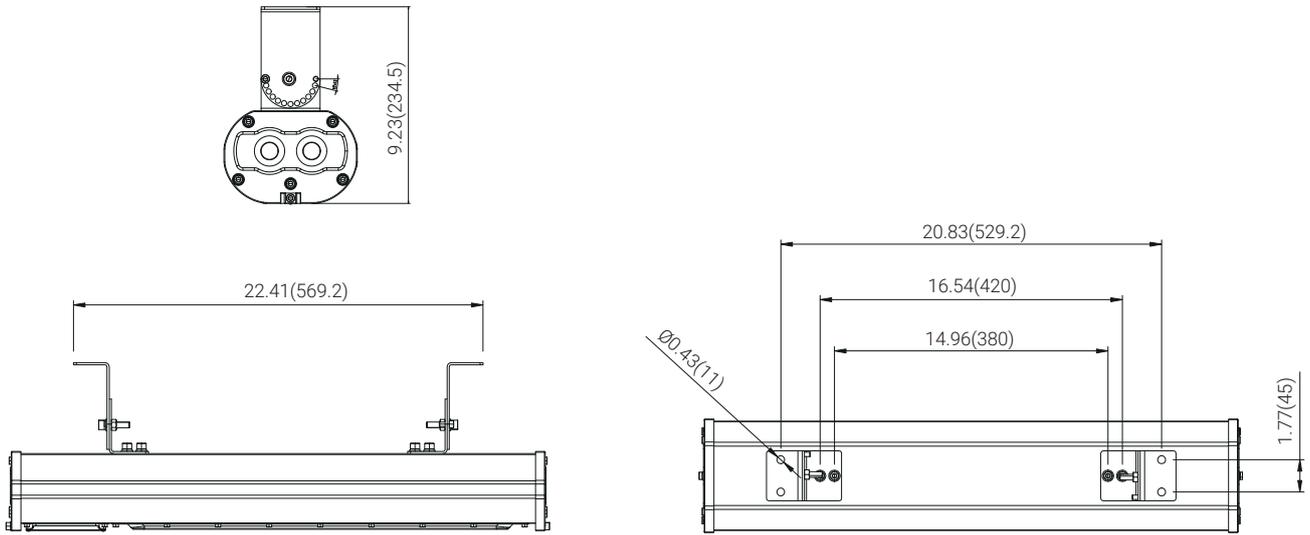


Low Ceiling

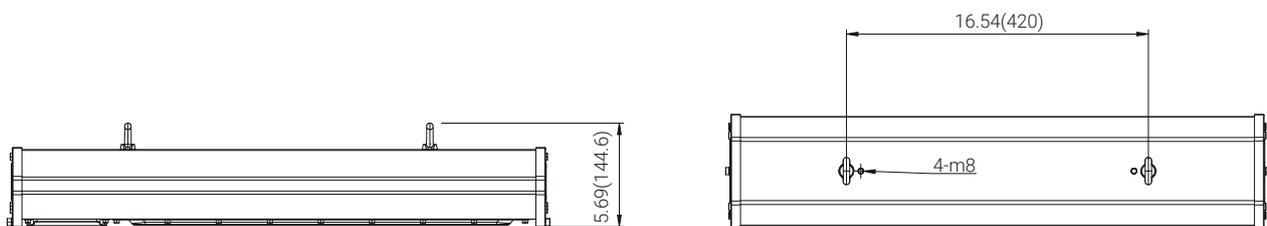


High Ceiling

unit: in(mm)

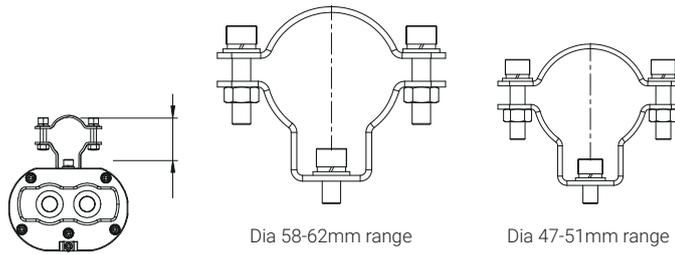
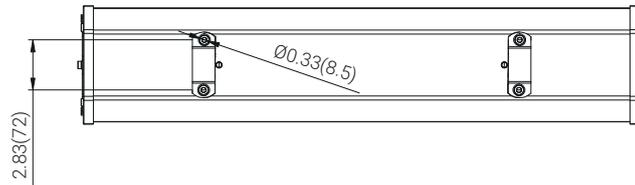


Wall



Eyebolt

unit: in(mm)



Pole

EMERGENCY TEST FUNCTION

Self-Testing function

Self-Testing/Self-Diagnostic is a way to automatically test emergency lighting operation without any additional outside interaction. This feature helps to reduce time and labor that comes with code-compliant testing which will overall reduce maintenance costs. This feature helps to ensure that testing is done as required by conducting one hundred eighty (180) second test every thirty (30) days and thirty (30) minute test every twelve (12) months. During the Self-Diagnostic testing period the light level is reduced to that of the emergency output light level. The unit continuously monitors battery health to ensure sufficient capacity is maintained to meet required minimum emergency times. The indicators LED will flash appropriate error codes to provide visible alerts.

The indicator states are as follows

LED Indicator Status	EM Driver Status/Mode
Solid Green	System OK/AC OK
Solid Red	Battery fault /LED output fault /Internal fault
Flashing Green, 0.25s on/ 0.25s off	Fast charge
Flashing Green, 0.5s on/ 0.5s off	Trickle charge
Green/Red alternative flashing	Self-testing underway
Flashing Red, 0.25s on/ 0.25s off	Normal working in EM mode.
Slow Flashing Red, 0.25s on/ 0.75s of	Normal working in EM mode and the voltage of battery is low.



Indicator LED

NOTE: If you purchased the luminaires before March 2026 (identified by: product input connector marked with PS1 & PS2), please refer to the following indicator states.

LED Indicator Status	EM Driver Status/Mode
Solid Green	System OK/AC OK
Solid Red	Normal working in EM mode
Flashing Green, 0.5s on/0.5s off	Self-testing underway
Flashing Red/Green, 0.5s/0.5s	Battery fault /LED output fault
Flashing Red, 0.5s on/0.5s off	Internal fault

HAZARDOUS LOCATION LIGHTING BASICS

Atmosphere Groups

Temperature Classification

Substance	Hazard Class	Division Groups	Zone Groups	Max. Surface Temperatures	NEC®500 CEC®	NEC®505/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	T2
Propane		Group D	IIA	260°C(500°F)	T2B	
Methane		Group D	IIA ²	230°C(446°F)	T2C	
Combustible Metal Dusts	Group E ¹	IIIC ³	215°C(419°F)	T2D		
Combustible Carbonaceous Dust	Class II Combustible Dusts	Group F	IIIB ³	200°C(392°F)	T3	T3
Combustible Dusts not in Group E or F (Flour, Grain, Wood, Plastics, Chemicals)		Group G	IIIB ³	180°C(256°F)	T3A	
Combustible Fibers and Flyings		Class III Fibers and Flyings	Not Applicable	IIIA ³	165°C(329°F)	
				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

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



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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.