RED SKY

SERIOUSLY SAFE LIGHTS™

LINEAR LOW PROFILE SERIES

Technical Specification Sheet





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

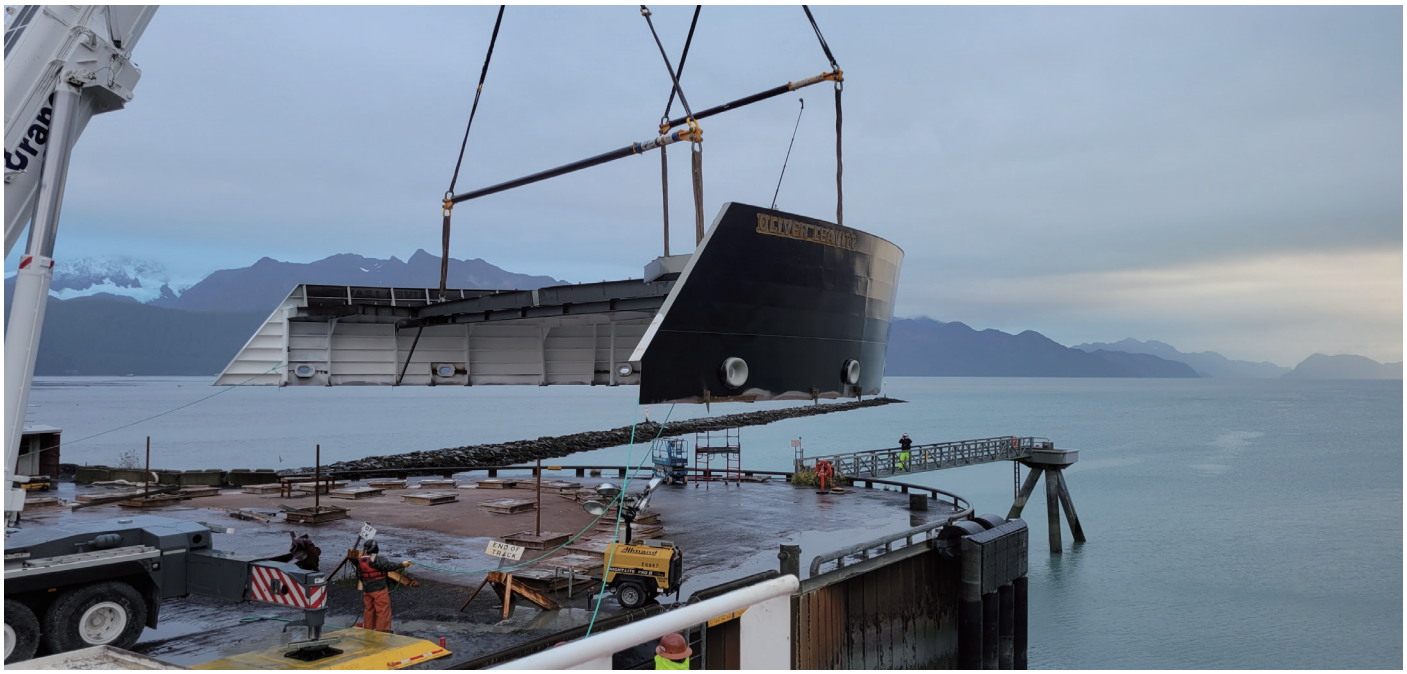
- Majority of orders delivered within 14 days
- Same day shipping for products in stock
- Real-time order tracking for full transparency

TOP-NOTCH SERVICES

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

SUSTAINABLE SOLUTIONS

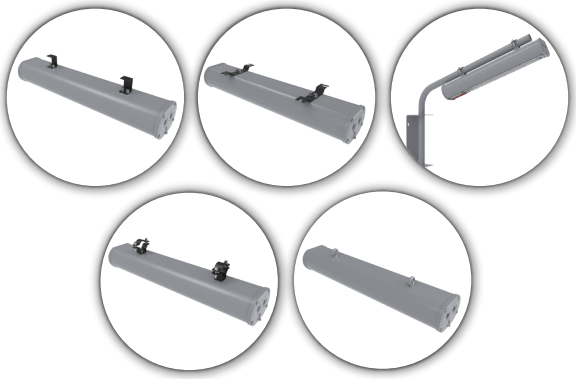
- High luminous efficacy LEDs for energy savings
- Conscious product design
- Recyclable materials for products and packaging



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>150,000hrs of maintenance-free operation.

Easy and Through Wiring

Built-in WAGO RAIL-MOUNT TERMINAL BLOCKS TOPJOB® S with 6mm² 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

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
CE
ROHS

TECHNICAL PARAMETERS

Specification	LLP-20	LLP-40	LLP-50	LLP-60	LLP-80	LLP-100
Electrical Parameters						
Power	20W	40W	50W	60W	80W	100W
Voltage/Frequency (50/60Hz)	120-277V AC 50/60Hz					
Power Factor	>90%					
THD	<20%					
L70	150,000 Hours@55°C					
Dimming	0-10V					
Surge Protection	6KV Line-to ground					
Warranty	Fixture: 5 Year, Battery: 1 Year					
Optical Parameters						
Lumen Output*	2,208Lm	4,164Lm	6,067Lm	6,448Lm	7,943Lm	9,399Lm
Lumen Efficacy*	120Lm/W					
Available Beam Angle	110°					
Correlated Color Temperature (CCT)	4000K/5700K/Red/Green/Blue/Amber					
Color Rendering Index (CRI)	Ra>70					
Mechanical Parameters						
Finish	Polyster powder coating for uniform corrosion resistance					
Hardware	Stainless steel 316					
Lens Material	Polycarbonate					
Mounting Options	Low Ceiling, High Ceiling, Wall, Eyebolt, Pole					
Product Weight	A: 6.3Kg/13.89 Lb B: 6.7Kg/14.77 Lb	A: 6.3Kg/13.89 Lb B: 6.7Kg/14.77 Lb C: 9.5Kg/20.94 Lb D: 9.9Kg/21.83 Lb	C: 9.5Kg/20.94 Lb D: 9.9Kg/21.83 Lb			
Cable Entry	4×M20/M25 2 at each end					
Product Dimensions(L×W×H)	A: 747×158×111 mm B: 864×158×111 mm	A: 747×158×111 mm B: 864×158×111 mm C: 1332×158×111 mm D: 1449×158×111 mm	C: 1332×158×111 mm D: 1449×158×111 mm			
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)		

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

ORDERING INFORMATION

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

LLP — 60 — 120-277 — 57K — HAR — X1 — CP — 1A — EM12 — M20

FIXTURE

WATTAGE

20 - 20W
40 - 40W
50 - 50W
60 - 60W
80 - 80W
100 - 100W

FIXTURE

120 - 277
120-277V AC

CCT

57K- 5700K
4K - 4000K
RD - Red
GN - Green
BU - Blue
AM - Amber

INTERNAL CODE

CABLE ENTRIES

M20 - 4 X M20 X 1.5
M25 - 4 X M25 X 1.5

BATTERY

BLANK - Standard (Non Emergency)
EM6 - 6W 180mins*
EM12 - 12W 90mins* (Emergency Standard)

WIRING

1A - Single Access
2A - Dual Access

LENS

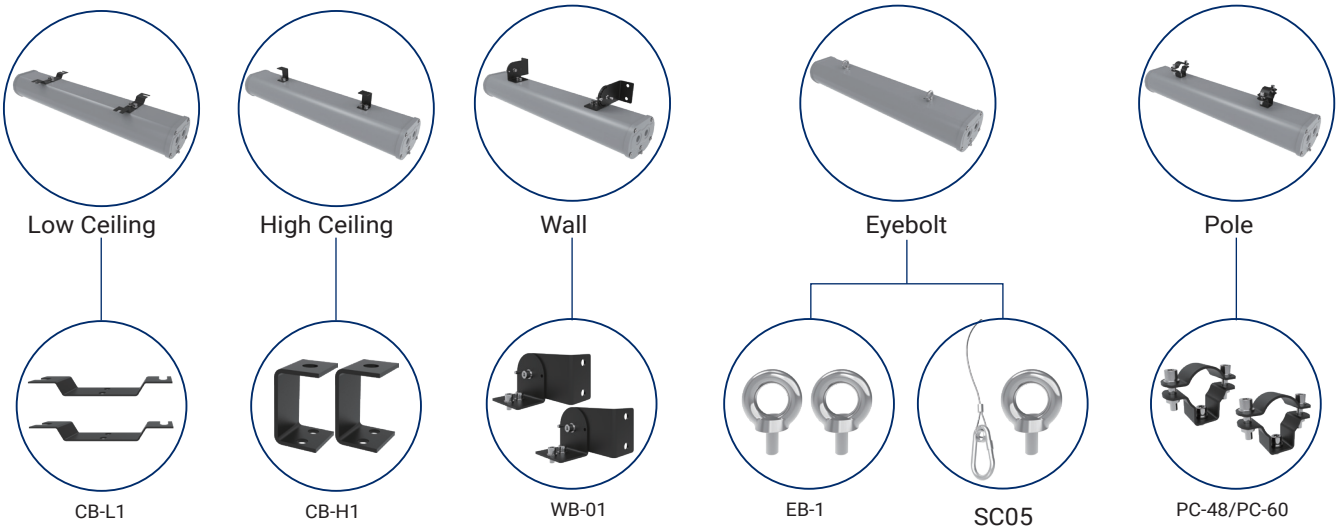
CP - Clear PC
DP - Diffuse PC

RATING

X1 - Zone1, 21

* Emergency only applies to A or C models

MOUNTING ACCESSORIES



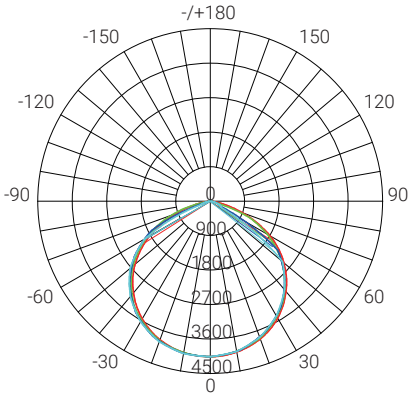
Mounting Method	PN	Description	MPN Code
Low Ceiling	CB-L1	Low Ceiling Mount Bracket 1 pair	309050220
High Ceiling	CB-H1	High Ceiling Mount Bracket 1 pair	309050222
Wall	WB-01	Wall Mount Swivel Bracket 1 pair	309050224
Eyebolt	EB-1	Eyebolt 1 pair	309050226
	SC05	3ft. safety Cable kit	309050228
Pole	PC-48	Dia 40-51mm range SS316 pole clamp 1 pair	309050230
	PC-60	Dia 54-62mm range SS316 pole clamp 1 pair	309050232

LUMEN TABLE

Part Number	Wattage (W)	CCT	Lens	Lumen Output (Lm)	Efficiency (Lm/W)
Voltage 120-277V AC					
LLP-20-120-277-57K-HAR-X1-CP-1A-M20	20	5700K	Clear PC	2,208	105
LLP-20-120-277-57K-HAR-X1-DP-1A-M20	20	5700K	Diffuse PC	1,805	89
LLP-40-120-277-57K-HAR-X1-CP-1A-M20	40	5700K	Clear PC	4,164	104
LLP-40-120-277-57K-HAR-X1-DP-1A-M20	40	5700K	Diffuse PC	3,426	86
LLP-50-120-277-57K-HAR-X1-CP-1A-M20	50	5700K	Clear PC	6,067	120
LLP-50-120-277-57K-HAR-X1-DP-1A-M20	50	5700K	Diffuse PC	4,792	99
LLP-60-120-277-57K-HAR-X1-CP-1A-M20	60	5700K	Clear PC	6,448	112
LLP-60-120-277-57K-HAR-X1-DP-1A-M20	60	5700K	Diffuse PC	5,513	91
LLP-80-120-277-57K-HAR-X1-CP-1A-M20	80	5700K	Clear PC	7,943	99
LLP-80-120-277-57K-HAR-X1-DP-1A-M20	80	5700K	Diffuse PC	7,254	93
LLP-100-120-277-57K-HAR-X1-CP-1A-M20	100	5700K	Clear PC	9,399	96
LLP-100-120-277-57K-HAR-X1-DP-1A-M20	100	5700K	Diffuse PC	9,043	91

For additional information, please contact your sales representative.

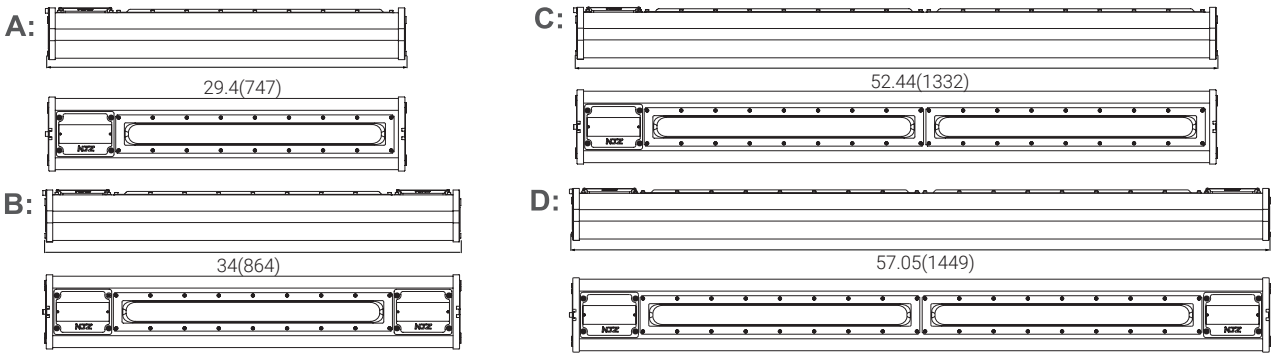
PHOTOMETRIC

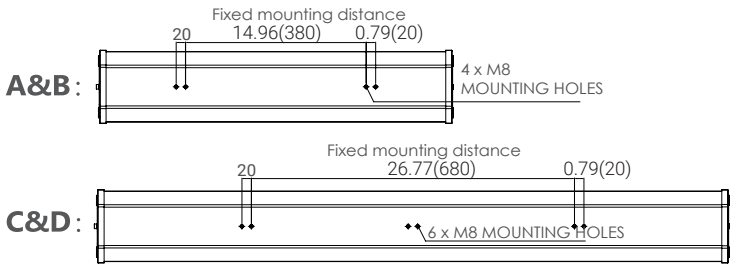


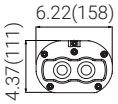
110°

DIMENSIONS

unit: in(mm)







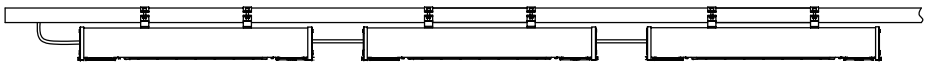
A:	Single Lens / Single Access*	LLP-20/40
B:	Single Lens / Dual Access	LLP-20/40
C:	Dual Lens / Single Access*	LLP-40/50/60/80/100
D:	Dual Lens / Dual Access	LLP-40/50/60/80/100

* Emergency only applies to A or C models

THROUGH WIRING

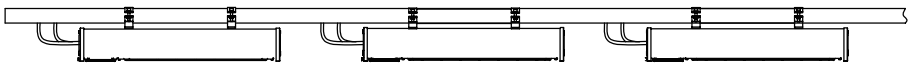
In-out connection can be made on one or both sides for quick installation

On both ends of the connection



Dual Access

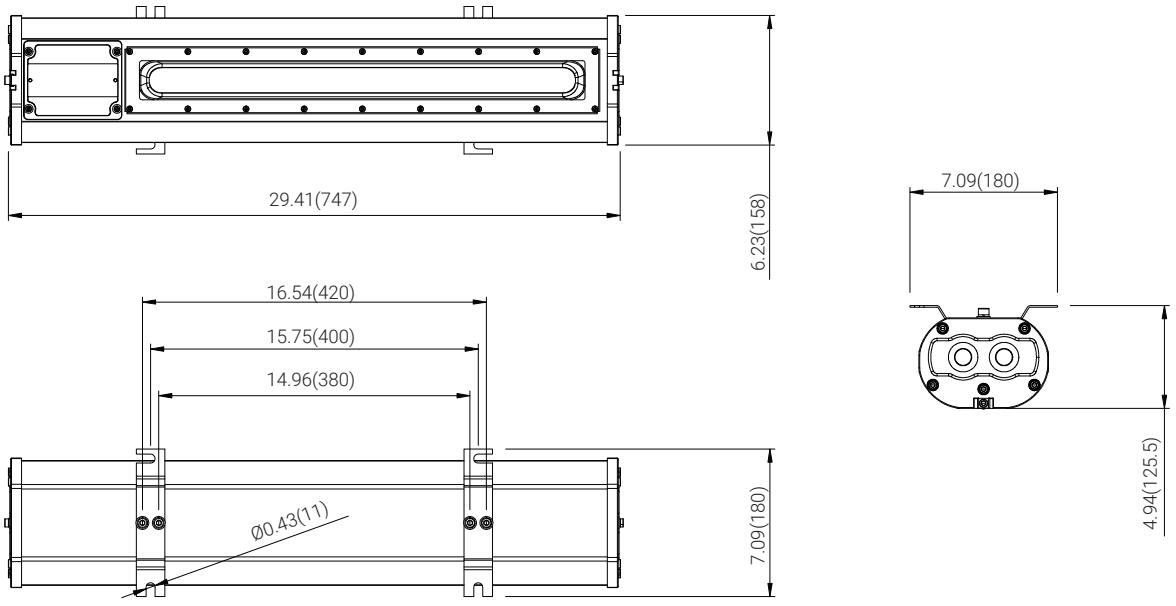
On end of the wire



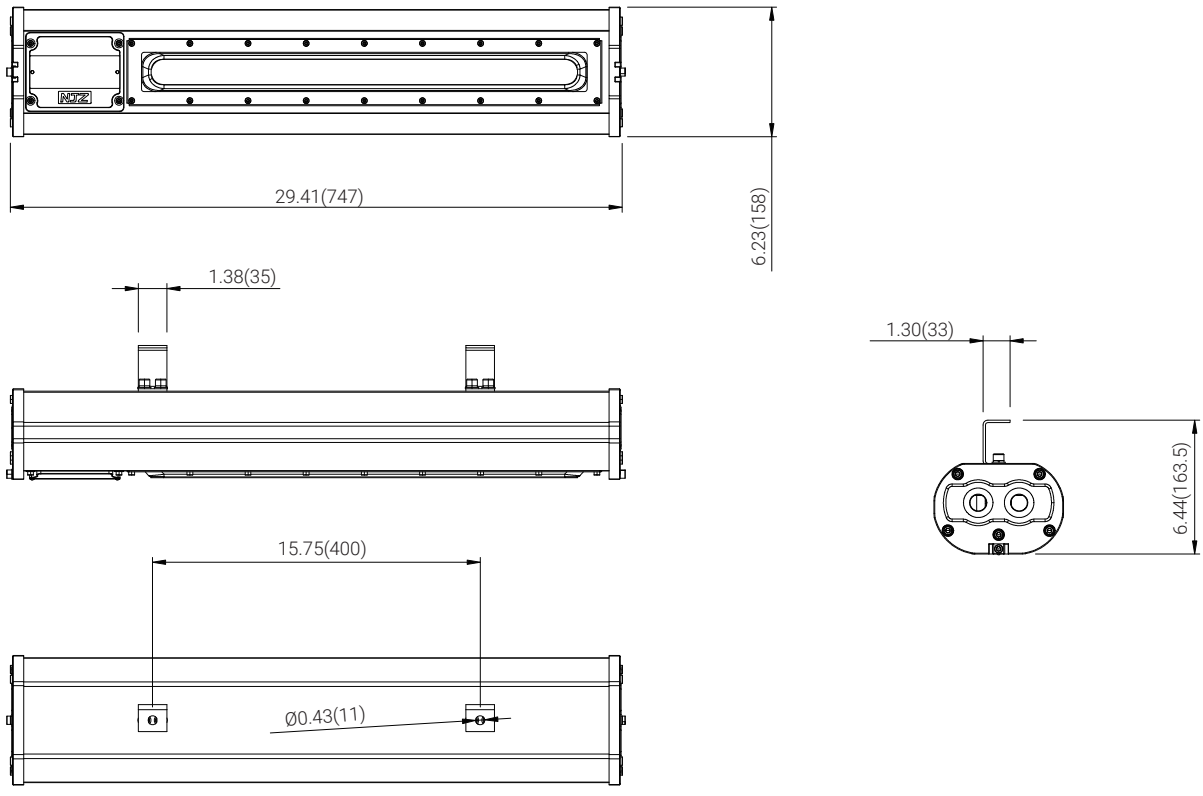
Single Access

DIMENSIONS

unit: in(mm)



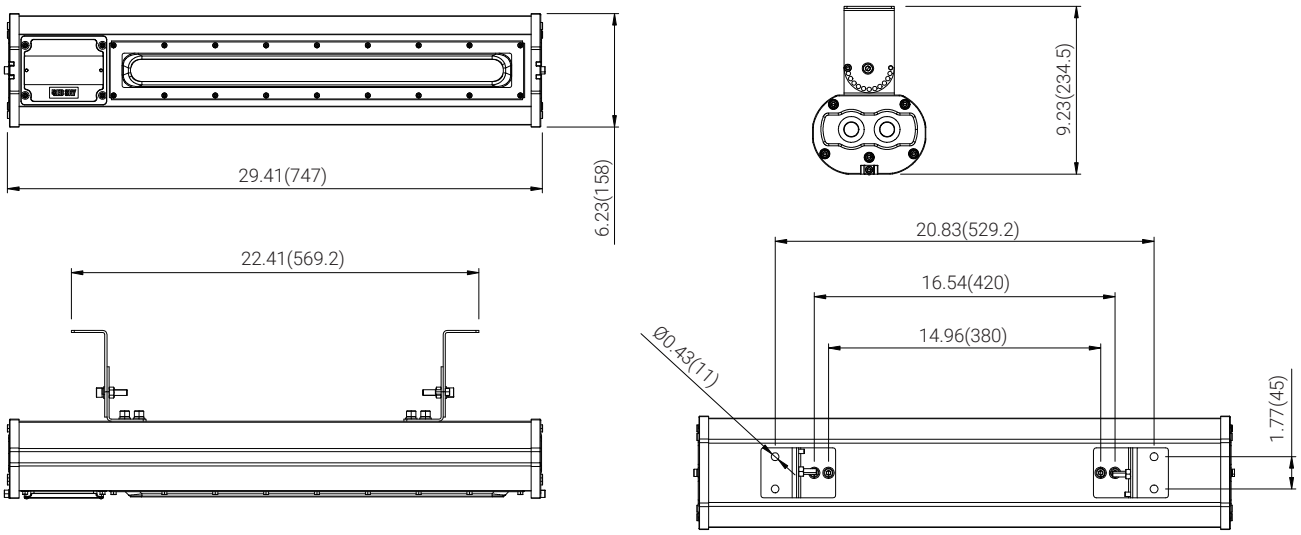
Low Ceiling



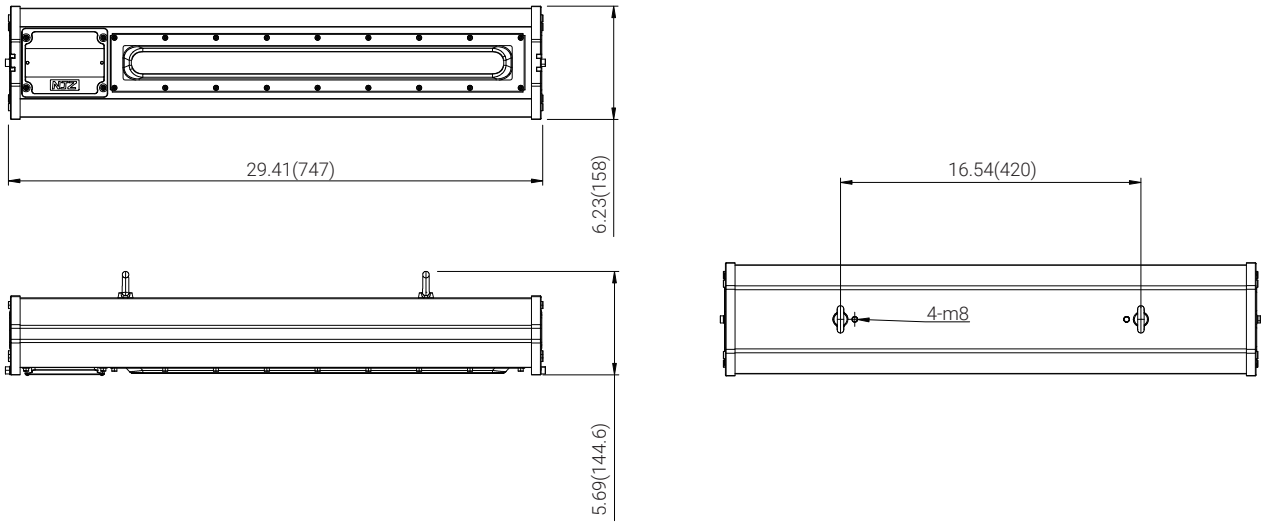
High Ceiling

DIMENSIONS

unit: in(mm)



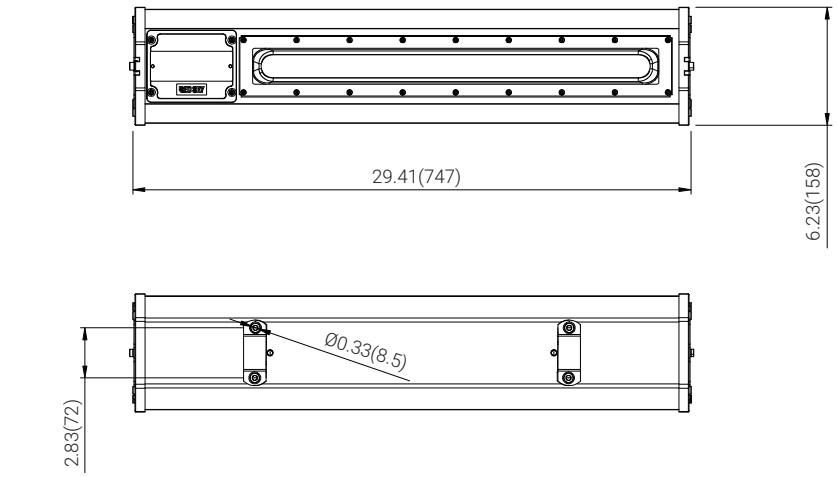
Wall

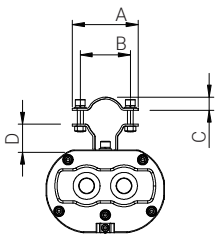


Eyebolt

DIMENSIONS

unit: in(mm)





	A	B	C	D
Dia 47-51mm range	3.62(92)	2.83(72)	0.57(14.5)	1.63(41.5)
Dia 58-62mm range	4.13(105)	3.31(84)	0.96(24.5)	1.8(45.5)

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(842)	T1	T1
300(572)	T2	
280(536)	T2A	T2
260(500)	T2B	
230(446)	T2C	
215(419)	T2D	
200(392)	T3	T3
180(256)	T3A	
165(329)	T3B	
160(320)	T3C	
135(275)	T4	T4
120(248)	T4A	
100(212)	T5	T5
85(185)	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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Rev.01 05/28/24