Proteus - XPL1A

Hazardous Location (C1D1) LED Linear Luminaire

Product Description

The Proteus Hazardous Location LED luminaire is designed for installations where moisture, dirt, corrosion and vibration may be present. For use in locations made hazardous by the presence of flammable vapors or gases as defined by the NEC, Proteus fixtures are available in class C1D1 in 40W with a two-foot length or in 80W with a four-foot length. Proteus Series is ideal for retrofit of existing HPS/MH & FL and offers higher efficacy for increased energy savings, lower maintenance costs and shorter paybacks.

Certifications

- Class I, Division 1, Group C,D
- Class I, Division 2, Group A, B, C, D²
- UL 844 Hazardous Location
- UL 924 Emergency Lighting ¹
- UL 1598 Wet Location ²
- UL 1598A Marine ²
- UL 8750 LED Safety 2
- IP 66 Rated
- IK07
- 5G Vibration
- 1000 hrs Salt Spray
- CSA C22.2 No. 137-M1981
- IECEx Ex nR II C T6 Gc
- Meets FCC Part 15, Subpart B, Class B standards for conducted and radiated emissions

Construction

- Heavy duty die-cast copper-free aluminum housing
- Stainless steel hardware
- 3/4" NPT threaded conduit wires access ports
- Weight 2': 17.9 lbs ; 4': 26.7 lbs ; 4'EM: 29.8lbs
- RoHS Compliant
- · Captive bolts on power supply cover

Optical System

- Heavy-duty tempered glass lens creates uniform light distribution and maximizes lumen output
- Diffused lens optional³
- \bullet CCT: 5000K, 3000K $^{2,3},$ or 4000K 2,3
- CRI: 70

Electrical

- Input voltage of 120-277VAC or 347-480VAC ²
- Input frequency of 50/60Hz
- Power Factor of:
 - Non-Emergency Models: ≥0.9Emergency Models: ≥0.95
- THD <20%
- 6Kv for 40W and 10Kv for 80W surge protection²
- Battery Backup Mode
 - Output Power of 6W
 - · Charge Time of 24 hours
 - Emergency Run Time of 90 min
- Reported L70 hours >140,000 Operation Hours @ 60° C 2

Environmental

- Ambient Operating Temperature
 - Non-Emergency Models: -40°F (-40°C) ~ 140°F (60°C)
 - C1D1 T6 Class I, Division 1, Group C, D,
 - •C1D2T3C Class I, Division 2, Group A, B, C, D,
 - Emergency Models: -4°F (-20°C) ~ 113°F (45°C)
 - C1D1 T6 Class I, Division 1, Group C, D,

• Ambient Operating Humidity of 10%~90% RH

Finish

• RAL 7037 (Dusty Gray) polyester powder coat

Installation

- Prewired with 2' flying leads
- $\bullet \ {\sf Allows \ wiring \ without \ opening \ power \ supply \ cover}$
- Integrated 3/4" NPT threaded hub for pendant mount
- Universal trunnion bracket available, with legacy bolt patern (drill rigs)
- For installations where power surge may be possible, NICOR recommends installing additional surge protection at the electrical distribution panel

Warranty

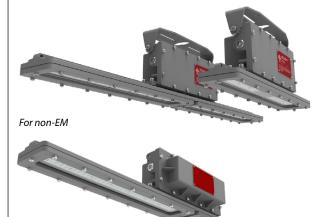
- 5-year limited system warranty standard
- Warranty does not cover product failure due to an overvoltage event (power surge)
- 1 For EM Models only
- 2 For non-EM Models only
- 3 Consult Factory for Lead Time & MOQ

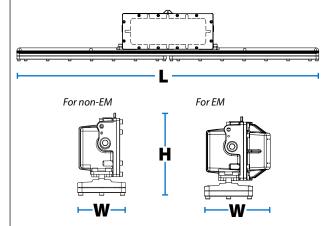
Project

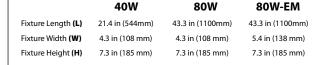
Catalog

Type

Date









For EM





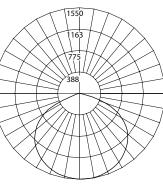




Photometric Data

XPL1A 40W 5000K

120-277 Input Voltage (VAC) System Level Power (W) 38.1 120V Current (A) 0.32 277V Current (A) 0.14 Delivered Lumens (Lm) 4426 System Efficacy (Lm/W) 116.3 Correlated Color Temp (K) 4982 Color Rendering Index (CRI) 72.3 Power Factor 0.95 THD <20 Beam Angle 115.5° Spacing Criteria 1.36



	In	tensity Summa (Candle Power)	
	Angle	Along	Across
	0	1550	1550
	5	1549	1549
1	15	1530	1524
1	25	1466	1458
1	35	1360	1354
J	45	1207	1210
/	55	868	988
	65	410	668
	75	104	274
	85	0	16
	90	0	1

	Zone	Lumens	% of Luminaire
	0-30	1243	28.1%
Multiplier	0-40	2080	47.0%
Multipliel	0-60	3791	85.6%
0.906	0-90	4426	100.0%
0.052	90-180	0	0.0%
0.952	0-180	4426	100.0%

Mounted height

6

8

10

12

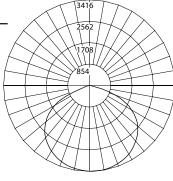
14

16

CCT Data Mul	tiplier	
XPL1A040U30GR	0.906	
XPL1A040U40GR	0.952	

XPL1A 80W	5000K
Input Voltage (VAC)	120-277
System Level Power (W)	80.8
120V Current (A)	0.67

277V Current (A) 0.29 Delivered Lumens (Lm) 9160 System Efficacy (Lm/W) 113.4 Correlated Color Temp (K) 4864 Color Rendering Index (CRI) >70 Power Factor 0.94 THD <20% Beam Angle 111.1° Spacing Criteria 1.34



Intensity Summary (Candle Power)						
Angle	Along	Across				
0	3415	3415				
5	3409	3412				
15	3349	3329				
25	3178	3160				
35	2893	2888				
45	2494	2478				
55	1673	1965				
65	736	1316				
75	201	577				
85	0	54				
90	0	3				

Cone of Light Tabulation							
Mounted height (Feet)	Footcandles Beam Center	Diameter (Feet)					
4	228.9	11.7					
6	101.7	17.5					
8	57.2	23.3					
10	36.6	29.2					
12	25.4	35.0					
14	18.7	40.8					
16	14.0	46.6					

Zonal Lumen Summary

Cone of Light Tabulation

Footcandles

119.7

53.2

29.9

19.2

13.3

9.8

7.5

Zonal Lumen Summary

Diameter

12.7

19.0

25.4

31.7

38.0

44.4

50.7

		Zone	Lumens	% of Luminaire
		0-30	2705	29.5%
CCT Data Multiplier		0-40	4478	48.9%
CCT Data N	lulupiler	0-60	7903	86.3%
XPL1A080U30GR	0.906	0-90	9160	100.0%
VDI 4 4 000114 0 CD	0.053	90-180	0	0.0%
XPL1A080U40GR 0.952		0-180	9160	100.0%

 $Fixture\ tested\ per\ LM-79-08.\ Photometric\ data\ is\ of\ the\ performance\ of\ a\ representative\ fixture.\ Results\ may\ vary\ in\ the\ field.$

	Performance Data							
Model Number	Lumens	Watts	Lumens/Watt					
XPL1A040U30GR	4011		105.3					
XPL1A040U40GR	4213	38.1	110.6					
XPL1A040U50GR	4426		116.3					
XPL1A080U30GR	8280		102.5					
XPL1A080U40GR	8723	80.8	107.9					
XPL1A080U50GR	9160		113.4					



Order	Ordering Information Example: XPL1A080U50GRTDEM									
Series	Version	Class/DIV	Wattage	Voltage	CCTs	Finish	Beam Angle	Lens	Mounting	Emergency
XPL	1	A (C1D1)	040 (40W)	U (120-277VAC)	50 (5000 K)	GR (Gray)	(110°)	(Clear)	3/4" Pendant	_ none
			080 (80W)	H (347-480V) ^{2,3}	40 (4000 K) ^{2,3}		60 (60°) ^{2,3}	D (Diffused) ^{2,3}	T (Trunnion mount, factory	EM ¹ (emergency)
					30 (3000 K) ^{2,3}		T2(Type II/Aisle) ^{2,3}		installed)	

Specifications and dimensions subject to change without notice.

- 1. Emergency Models are available only for 80W, 120-277VAC only, 5000K, 110°, Clear Lens, and 3/4" Pendant configuration.
- 2. Non-Emergency Models only
- 3. Consult factory for lead time and MOQ

Accessories		Accessories sold separately
Trunnion Mount Bracket	XPL1BRACKET	
C1D1 Drill Rig Kit	XPL1ARIGKIT	
C1D1 Heavy Duty Dual Point Retention Kit	XPL1ARETENTIONKIT	
3' Heavy Duty DS Safety Cable	XP1DSCABLE-3	

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.