Proteus - XPL1B

Hazardous Location (C1D2) 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 C1D2 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 2, Group A, B, C, D
- · Class II, Division 1, Group E, F, G
- · Class III, Division 1
- UL 844 Hazardous Location
- UL 924 Emergency Lighting ¹
- UL 1598 Wet Location 2
- UL 1598A Marine 2
- IP 66 Rated
- IK08
- 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': 13.6 lbs; 4': 19.1 lbs; 2'EM: 18.7 lbs; 4'EM: 22.7 lbs
- 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
- CCT: 5000K, 3000K ^{2,3}, or 4000K ^{2,3}
- CRI: 70

Electrical

- Input voltage of 120-277VAC or 347-480VAC
- Input frequency of 50/60Hz
- Power Factor of:
 - Non-Emergency Models: ≥0.9 · Emergency Models:
- THD < 20%
- 6Kv for 40W and 80W surge protection²
- Battery Backup Mode¹
 - Output Power of 12W
 - · Charge Time of 24 hours
 - Emergency Run Time of 90 min
- Reported L70 hours >120,000 Operation Hours @ 50°C2

Environmental

- Ambient Operating Temperature
 - Non-Emergency Models: -40°F (-40°C) ~ 122°F (50°C) •C1D2T3C Class I, Division 2, Group A, B, C, D Class II, Division 1, Groups E, F, G C2D1 T4A

• C3D1 T4A Class III. Division 1

- 32°F (0°C) ~ 122°F (50°C) Emergency Models: • C2D1 T6 Class II, Division 1, Group E, F, G • C1D2 T4A/T4 Class I, Division 2, Group A, B, C, D
- Ambient Operating Humidity of 10%~90% RH² and 5%~95% RH¹

• RAL 7037 (Dusty Gray) polyester powder coat

Installation

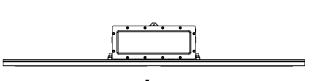
- Prewired with 2' flying leads
- Allows wiring without opening power supply cover
- Integrated 3/4" NPT threaded hub for pendant mount
- Universal trunnion bracket available, with legacy bolt patern (drill rigs)
- For installations where power surge may be possible, NICOR recommends installing additional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

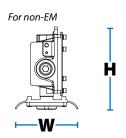
- 5-year limited system warranty standard
- Warranty does not cover product failure due to an overvoltage event (power surge)
- 1 For EM Models only
- 2 For non-EM Models only
- 3 Consult Factory for Lead Time & MOQ

NICOR, Inc. 2200 Midtown Place NE, Albuquerque, NM 87107 P: 800.821.6283 F:

Project Catalog Type Date







For EM



	40W	40W-EM	
Fixture Length (L)	23.6 in (600mm)	23.6 in (600mm)	
Fixture Width (W)	5 in (127 mm)	5 in (127 mm)	
Fixture Height (H)	6.6 in (192 mm)	8.1 in (205 mm)	
	80W	80W-EM	
Fixture Length (L)	47.2 in (1200mm)	47.2 in (1200mm)	
Fixture Width (W)	5 in (127 mm)	5 in (127 mm)	
Fixture Height (H)	6.6 in (192 mm)	8 1 in (205 mm)	







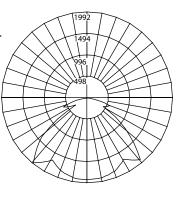




Photometric Data

XPL1B 40W 5000K

Input Voltage (VAC) 120-277 System Level Power (W) 40.9 120V Current (A) 0.341 277V Current (A) 0.148 Delivered Lumens (Lm) 5533 System Efficacy (Lm/W) 135.3 Correlated Color Temp (K) 5167 Color Rendering Index (CRI) 72 Power Factor 0.95 THD <20% 105.9° Beam Angle Spacing Criteria 1.46



	ensity Summa Candle Power	
Angle	Along	Across
0	1914	1914
5	1906	1914
15	1860	1872
25	1743	1771
35	1779	1602
45	1519	1396
55	775	1039
65	472	698
75	276	319
85	0	29
90	0	5

Cone of Light Tabulation						
Mounted height (Feet)	Footcandles Beam Center	Diameter (Feet)				
4	119.7	10.1				
6	53.2	12.7				
8	29.9	15.2				
10	19.2	17.7				
12	13.3	20.3				
14	9.8	23.0				
16	7.5	25.0				

Zonal Lumen Summary

Lumens

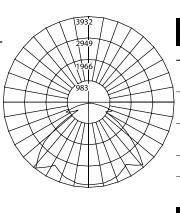
% of Luminaire

		0-30	1527	27.6%
		0-40	2567	46.4%
CCT Data M	ultiplier	0-60	4631	83.7%
XPL1B040U30GR	0.930	0-90	5533	100.0%
APLIDU40U3UUN	0.930	90-180	0	0.0%
XPL1B040U40GR	0.952	0-180	5533	100.0%

Zone

XPL1B 80W 5000K

Input Voltage (VAC)	120-277
System Level Power (W)	80.3
120V Current (A)	0.661
277V Current (A)	0.286
Delivered Lumens (Lm)	11548
System Efficacy (Lm/W)	143.8
Correlated Color Temp (K)	5116
Color Rendering Index (CRI)	72
Power Factor	0.95
THD	<20%
Beam Angle	111.5°
Spacing Criteria	1.30



	ensity Summa	
Angle	Along	Across
0	3806	3806
5	3784	3799
15	3679	3702
25	3443	2485
35	3096	3146
45	2944	2691
55	1968	2096
65	905	1266
75	444	528
85	0	35
90	0	7

Cone of Light Tabulation						
Mounted height (Feet)	Footcandles Beam Center	Diameter (Feet)				
4	237.9	11.7				
6	105.8	17.5				
8	59.5	23.3				
10	38.1	29.2				
12	26.4	35.0				
14	19.4	40.8				
16	14.9	46.6				

Zonal Lumen Summary

		Zone	Lumens	% of Luminaire
		0-30	3164	27.4%
CCT Data Multiplier		0-40	5220	45.2%
		0-60	9619	83.3%
XPL1B080U30GR	0.930	0-90	11548	100.0%
AI LIDOGOOGOGII	0.550	90-180	0	0.0%
XPL1B040U40GR	0.952	0-180	11548	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		
XPL1B040U30GR	5146	41	125.8		
XPL1B040U40GR	5267	41	128.8		
XPL1B040U50GR	5533	41	135.3		
XPL1B080U30GR	10740	80	133.7		
XPL1B080U40GR	10994	80	136.9		
XPL1B080U50GR	11548	80	143.8		



Ordering Information Example: XPL1A080U5						080U50GRTDEM				
Series	Version	Class/DIV	Wattage	Voltage	CCTs	Finish	Beam Angle	Lens	Mounting	Emergency
XPL	1	B (C1D2)	040 (40W)	U (120-277VAC)	50 (5000 K)	GR (Gray)	(110°)	(Clear)	3/4" Pendant	_ none
			080 (80W)		40 (4000 K) ^{2,3}			D (Diffused) ^{2,3}	T (Trunnion mount, factory	EM ¹ (emergency)
					30 (3000 K) ^{2,3}				installed)	(ee.geney)

Specifications and dimensions subject to change without notice.

- 1. Emergency Models are available only for 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 sepearately
Trunnion Mount Bracket	XPL1BRACKET	
C1D2 Heavy Duty Drill Rig Kit	XPL1BRIGKIT-HD	
C1D2 Standard Single Point Retention Kit	XPL1BRETENTIONKIT	
C1D2 Standard Drill Rig Kit	XPL1BRIGKIT-STD	
3' Heavy Duty DS Safety Cable	XP1DSCABLE-3	
3' Standard Safety Cable	XP1SAFETYCABLE-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.

