

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P946216

Luminaire Tested: **GALN-SB1D-940-U-5MQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946216  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB1D-940-U-5MQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 90 CRI, 4000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7725 lumens  
Efficiency: N/A  
Efficacy: 97.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G2

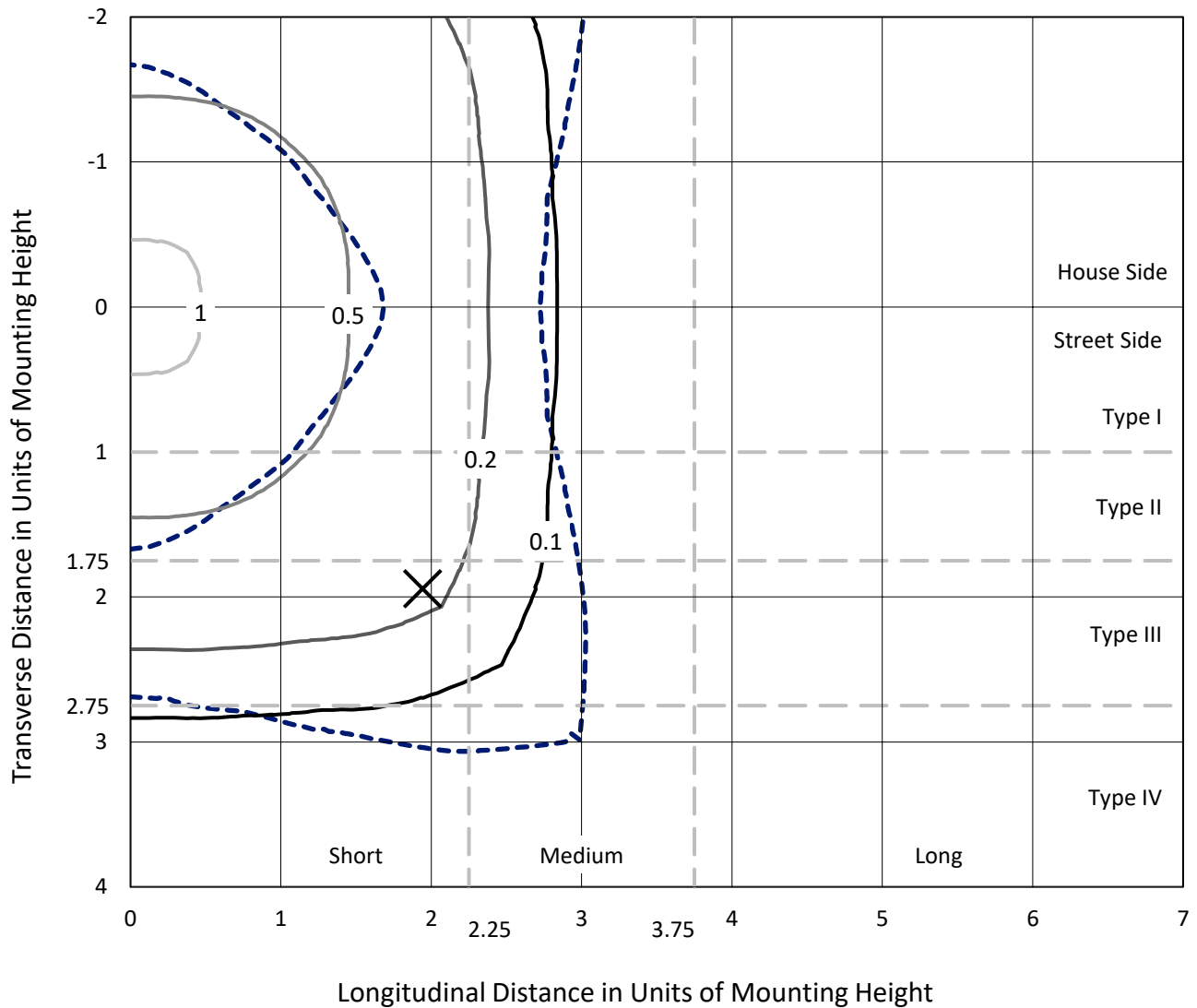
Input Watts (W): 79.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

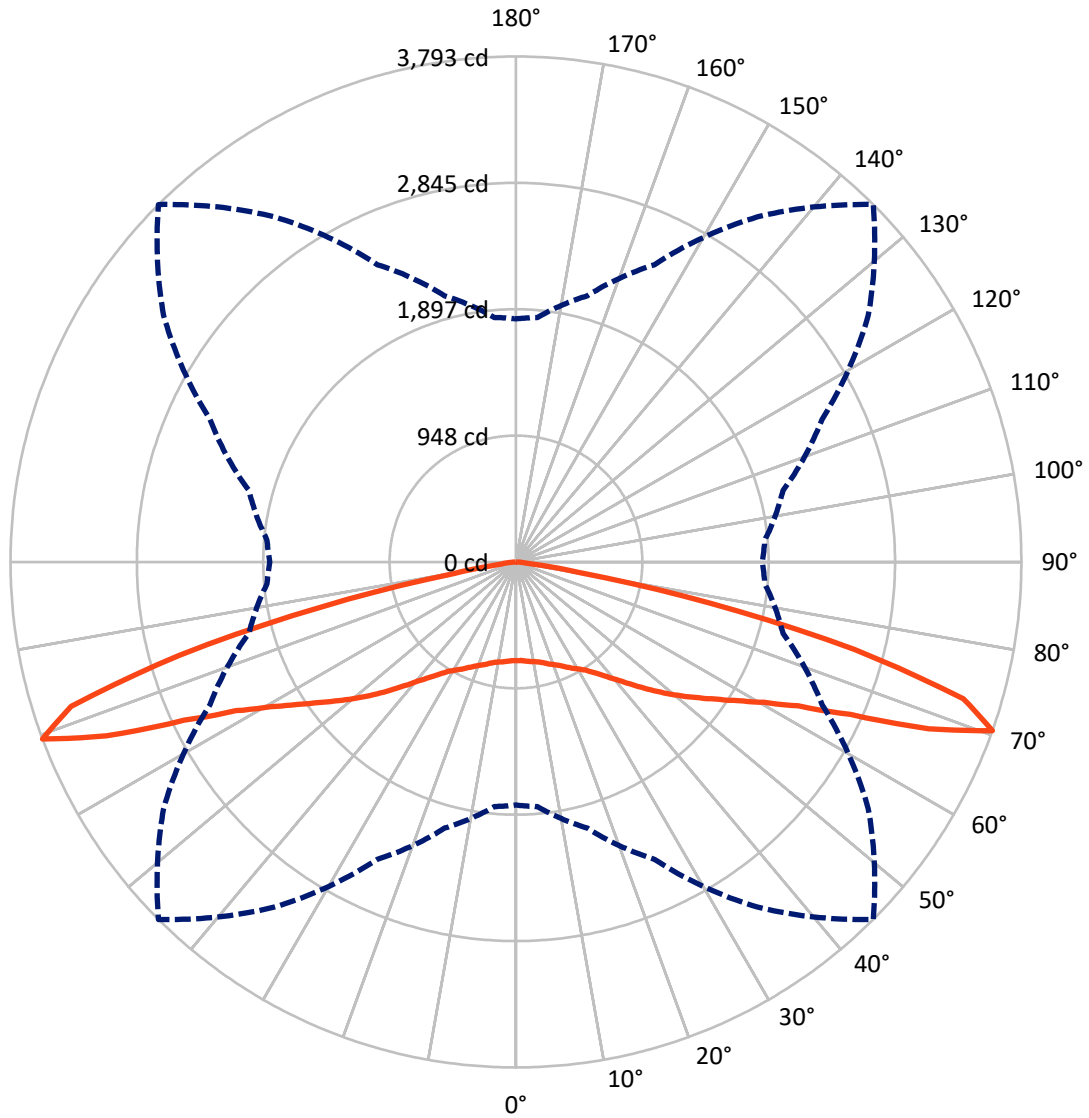
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3862.5	0.0	3862.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	3862.5	0.0	3862.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	7725.0	0.0	7725.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.9	0.9
10°-20°	222.9	2.9
20°-30°	398.4	5.2
30°-40°	645.8	8.4
40°-50°	1051.9	13.6
50°-60°	1603.7	20.8
60°-70°	2385.8	30.9
70°-80°	1300.4	16.8
80°-90°	44.3	0.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	7725.0	100.0
0°-180°	7725.0	100.0

**Coefficient of Utilization**



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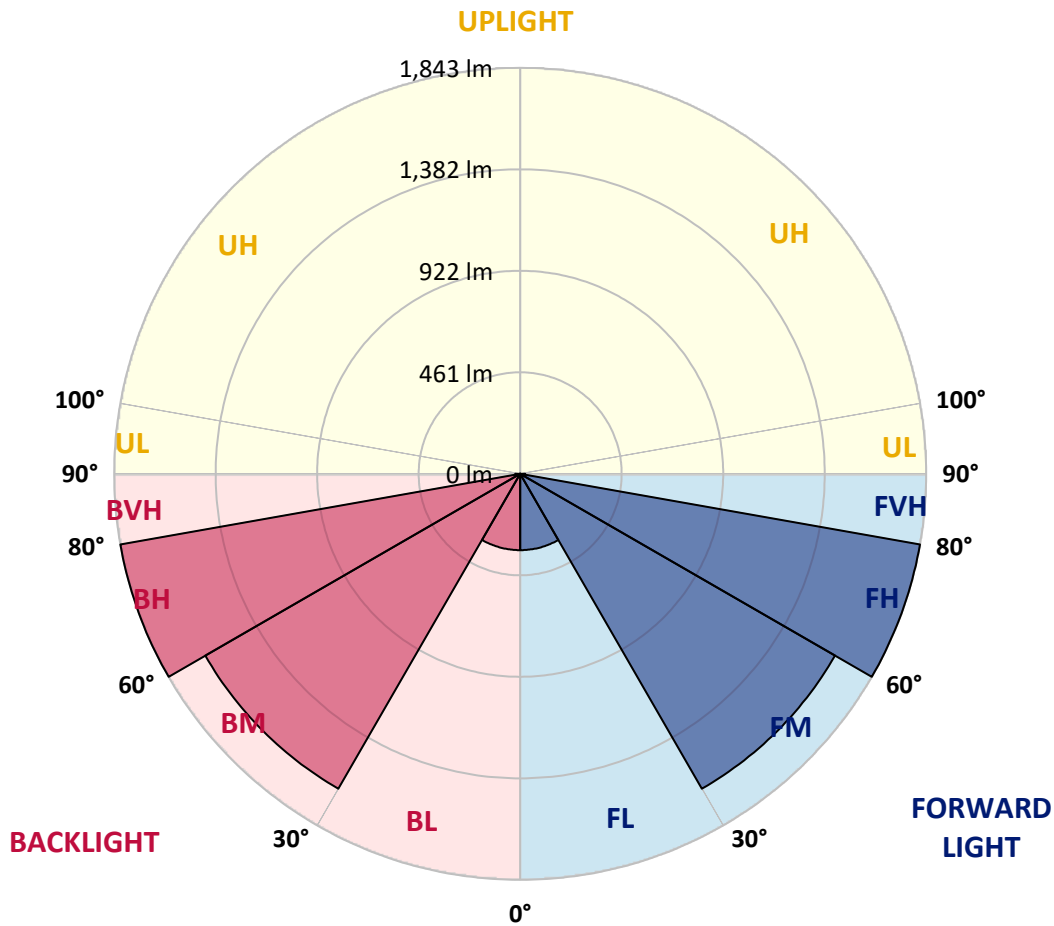
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	346.6	4.5			
FM (30°-60°)	1650.7	21.4			
FH (60°-80°)	1843.1	23.9			G2/5000
FVH (80°-90°)	22.1	0.3			G1/100
BL (0°-30°)	346.6	4.5	B1/500		
BM (30°-60°)	1650.7	21.4	B2/2500		
BH (60°-80°)	1843.1	23.9	B3/2500		G2/5000
BVH (80°-90°)	22.1	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	740.0	740.0	740.0	740.0	740.0	740.0	740.0	740.0	740.0	740.0
2.5°	743.5	744.2	742.7	741.9	741.1	740.0	740.4	742.3	743.9	743.5
5°	749.7	750.4	749.3	748.9	747.3	747.0	747.0	748.9	750.1	749.3
7.5°	756.7	757.8	755.9	755.5	754.7	753.9	753.5	755.5	756.7	756.7
10°	763.2	764.4	762.9	761.7	760.9	760.9	760.1	761.7	763.6	763.2
12.5°	770.2	771.0	769.4	768.7	768.7	769.8	768.7	769.4	771.0	770.2
15°	778.8	779.1	778.8	779.9	781.9	785.7	782.2	781.5	782.2	780.3
17.5°	790.4	791.2	792.7	795.4	798.1	805.1	798.9	797.0	797.0	793.1
20°	804.7	805.9	808.2	812.9	816.4	823.0	816.8	814.1	812.9	807.8
22.5°	819.9	821.8	825.3	831.5	837.7	843.9	837.7	833.1	829.6	823.0
25°	837.3	839.6	845.1	855.2	863.7	872.6	865.2	855.9	849.0	839.6
27.5°	862.1	864.9	871.4	883.9	894.7	902.5	895.5	883.5	873.8	862.5
30°	897.0	899.8	907.5	920.7	928.1	933.1	928.5	919.2	907.5	894.7
32.5°	942.0	945.5	954.1	966.5	968.0	968.8	967.2	962.6	954.1	938.5
35°	999.0	1002.9	1012.6	1022.7	1021.2	1022.7	1020.4	1018.8	1012.6	994.8
37.5°	1068.9	1073.5	1083.6	1091.3	1087.5	1085.5	1085.9	1086.3	1082.8	1063.0
40°	1149.9	1156.1	1163.5	1171.6	1165.0	1159.2	1163.1	1166.2	1163.1	1142.9
42.5°	1233.3	1242.2	1250.0	1261.6	1256.2	1248.8	1254.2	1257.7	1251.1	1229.4
45°	1326.0	1334.5	1344.6	1362.1	1358.2	1350.4	1358.2	1358.9	1347.7	1322.1
47.5°	1421.8	1430.7	1445.8	1469.1	1467.5	1459.0	1469.1	1463.7	1449.3	1418.7
50°	1512.5	1524.9	1548.2	1580.8	1583.9	1573.4	1587.0	1576.5	1552.5	1514.1
52.5°	1597.8	1611.0	1647.9	1692.1	1703.3	1689.8	1708.0	1689.8	1653.7	1604.4
55°	1687.4	1702.2	1746.0	1803.8	1826.3	1816.2	1833.3	1805.7	1754.5	1694.8
57.5°	1792.9	1801.8	1854.2	1922.8	1960.9	1963.2	1970.9	1924.4	1862.3	1794.5
60°	1907.3	1919.7	1976.8	2059.0	2119.1	2138.5	2130.3	2061.3	1989.2	1911.2
62.5°	2053.9	2067.5	2135.8	2234.3	2329.3	2377.4	2345.6	2245.5	2156.3	2062.9
65°	2175.3	2190.5	2313.8	2489.5	2662.4	2759.0	2679.1	2494.9	2334.3	2202.5
67.5°	2087.3	2105.9	2299.4	2622.1	3052.2	3340.4	3066.9	2661.7	2347.1	2168.3
70°	1824.3	1841.8	2067.5	2461.9	3162.0	3793.3	3227.9	2534.5	2074.9	1874.8
72.5°	1211.2	1267.4	1495.9	1969.0	2823.4	3510.2	2851.3	1929.1	1387.6	1208.5
75°	401.8	446.8	602.7	1020.8	1891.0	2625.2	1800.3	903.3	477.4	343.6
77.5°	101.2	116.7	160.9	292.0	754.3	1494.7	679.1	238.5	129.9	90.8
80°	49.3	54.3	77.6	97.3	188.9	475.1	177.2	91.5	61.3	47.3
82.5°	27.1	27.5	43.8	55.1	70.2	122.9	72.9	53.5	35.3	28.7
85°	16.7	16.3	23.3	29.5	29.5	43.8	34.9	29.5	20.2	17.8
87.5°	6.6	6.6	8.5	9.3	8.1	11.2	8.9	9.7	7.8	7.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
740.0
743.9
749.7
756.7
763.2
769.8
780.3
793.1
807.8
822.6
839.3
862.1
894.7
938.9
994.8
1063.0
1142.9
1231.0
1324.8
1416.7
1513.3
1599.8
1686.7
1785.2
1898.8
2046.6
2180.8
2141.6
1848.0
1169.3
325.0
81.1
43.4
28.7
18.6
7.8
0.0

OF REPORT)