

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: P939293

Luminaire Tested: **GALN-SB1D-827-U-T1**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939293  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB1D-827-U-T1  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 2700K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8757 lumens  
Efficiency: N/A  
Efficacy: 110.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G3

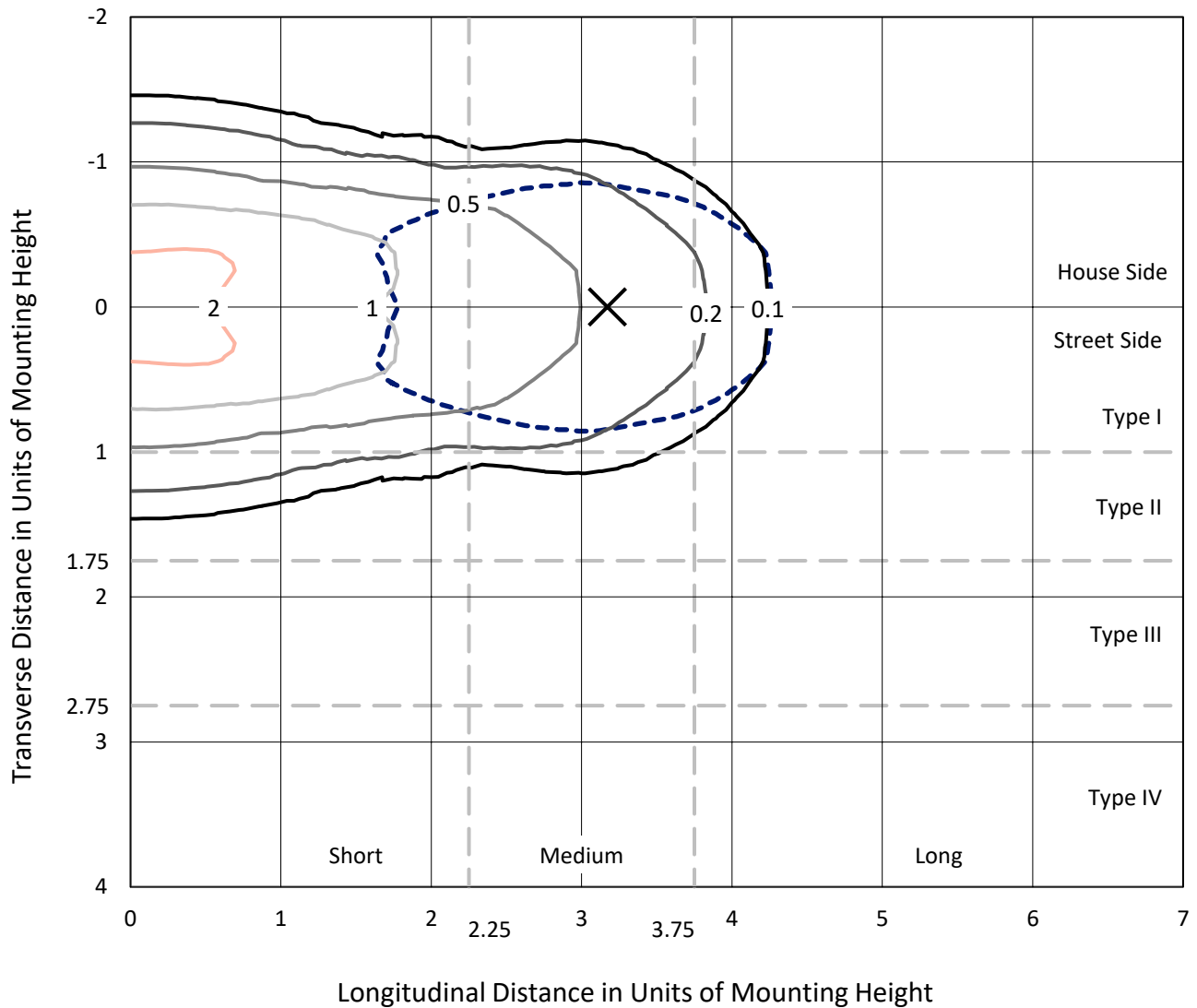
Input Watts (W): 79.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

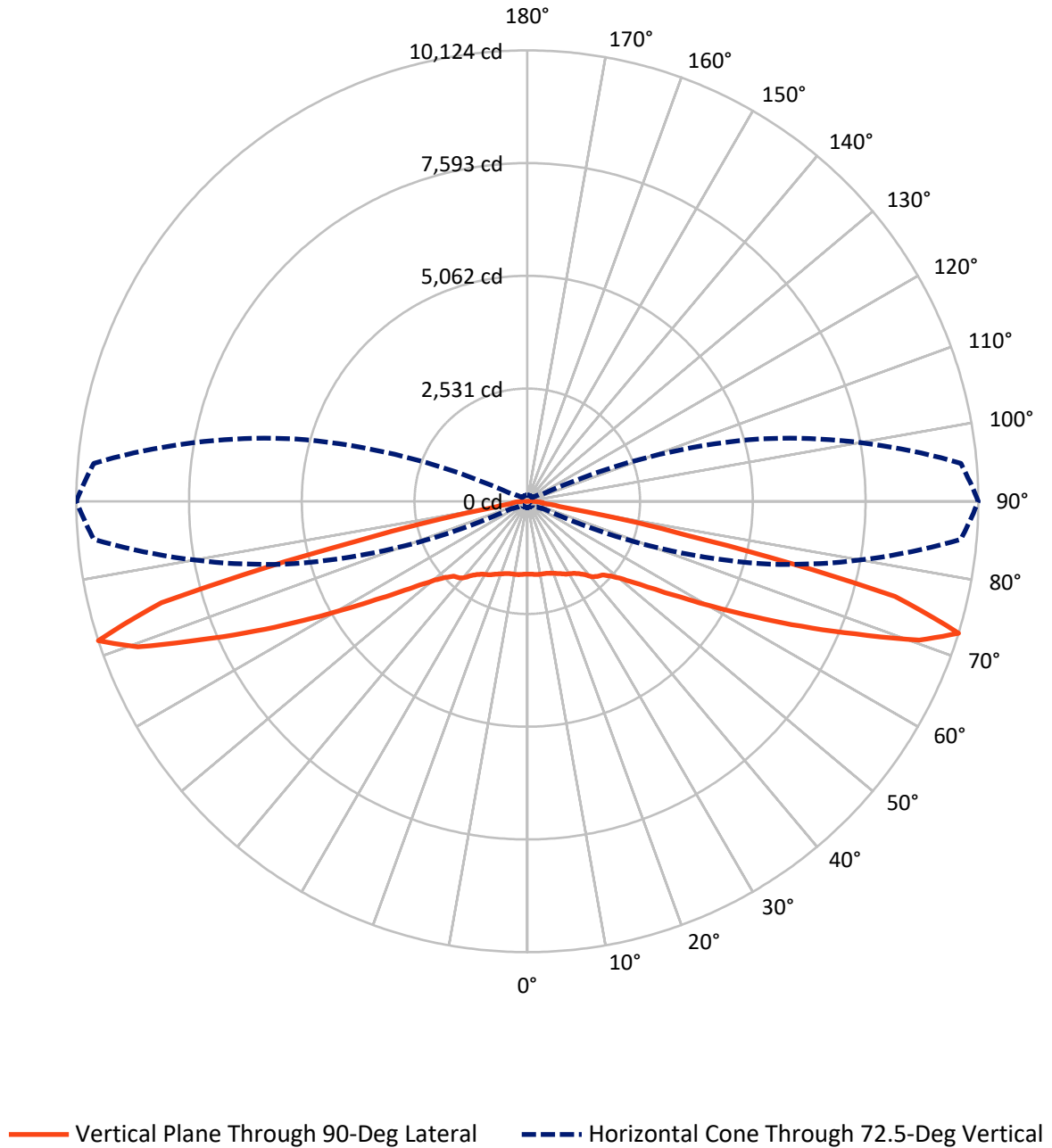
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4378.5	0.0	4378.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	4378.5	0.0	4378.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	8757.0	0.0	8757.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	158.7	1.8
10°-20°	485.1	5.5
20°-30°	808.9	9.2
30°-40°	1112.5	12.7
40°-50°	1358.7	15.5
50°-60°	1571.4	17.9
60°-70°	1873.7	21.4
70°-80°	1307.7	14.9
80°-90°	80.3	0.9
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°	8757.0	100.0
0°-180°	8757.0	100.0

**Coefficient of Utilization**



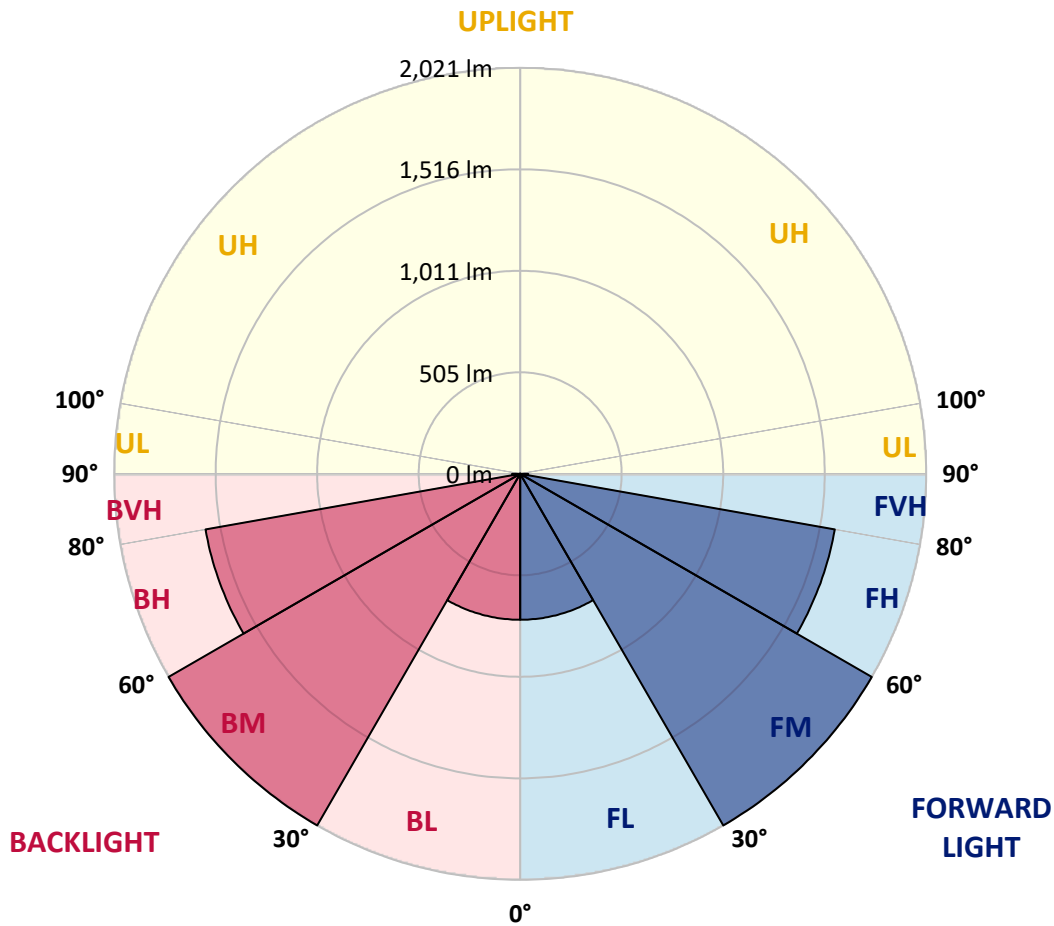
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	726.3	8.3			
FM (30°-60°)	2021.3	23.1			
FH (60°-80°)	1590.7	18.2			G1/1800
FVH (80°-90°)	40.2	0.5			G1/100
BL (0°-30°)	726.3	8.3	B2/1000		
BM (30°-60°)	2021.3	23.1	B2/2500		
BH (60°-80°)	1590.7	18.2	B3/2500		G3/2500
BVH (80°-90°)	40.2	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type I Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1636.3	1636.3	1636.3	1636.3	1636.3	1636.3	1636.3	1636.3	1636.3	1636.3
2.5°	1637.7	1639.6	1639.6	1638.2	1641.5	1638.7	1638.7	1637.3	1638.7	1637.3
5°	1646.1	1648.4	1649.4	1648.9	1653.1	1650.8	1650.8	1648.9	1649.4	1648.0
7.5°	1661.9	1665.2	1667.1	1669.4	1675.4	1672.6	1670.8	1665.2	1662.9	1659.1
10°	1667.1	1670.8	1676.8	1688.9	1702.9	1703.4	1697.8	1683.8	1673.1	1664.7
12.5°	1651.2	1656.3	1668.9	1693.6	1724.8	1737.3	1728.5	1705.2	1684.3	1669.4
15°	1631.2	1636.8	1655.9	1693.1	1739.2	1768.5	1767.6	1736.9	1703.4	1680.1
17.5°	1600.0	1605.6	1633.1	1685.2	1750.4	1798.8	1811.8	1780.1	1733.1	1702.0
20°	1543.7	1548.8	1587.0	1660.1	1754.1	1830.9	1864.8	1836.9	1778.3	1735.9
22.5°	1470.7	1478.6	1523.2	1616.8	1745.2	1864.4	1925.3	1906.3	1830.9	1772.2
25°	1392.5	1400.8	1453.0	1563.7	1722.4	1888.6	1997.0	1984.9	1890.4	1817.4
27.5°	1325.0	1333.8	1390.6	1511.1	1687.1	1897.9	2067.8	2073.8	1962.6	1867.2
30°	1271.9	1280.3	1340.8	1468.8	1641.5	1888.6	2129.7	2171.5	2036.1	1910.5
32.5°	1213.8	1224.5	1288.2	1417.1	1587.5	1866.2	2183.6	2277.2	2121.3	1957.0
35°	1140.2	1150.0	1217.0	1346.4	1516.7	1830.4	2228.8	2394.5	2243.2	2027.7
37.5°	1050.9	1060.2	1126.7	1258.0	1446.5	1780.1	2263.2	2526.6	2388.4	2129.7
40°	961.0	969.9	1032.3	1159.3	1362.2	1715.9	2275.3	2656.0	2555.0	2269.7
42.5°	878.7	886.6	943.8	1062.0	1267.7	1634.0	2259.5	2768.7	2704.4	2367.5
45°	802.8	809.8	860.5	970.8	1169.5	1534.4	2212.0	2889.7	2882.2	2437.3
47.5°	716.2	723.2	775.8	882.4	1071.3	1417.6	2131.5	3008.8	3129.3	2595.5
50°	610.6	616.7	670.6	780.5	969.4	1293.3	2019.8	3102.3	3441.1	2835.2
52.5°	485.4	491.9	544.5	654.3	848.4	1159.8	1872.8	3163.3	3801.4	3185.2
55°	361.1	365.8	411.4	510.1	698.6	1007.6	1688.5	3180.5	4210.0	3663.6
57.5°	262.0	264.8	294.1	367.7	529.6	817.2	1464.6	3135.8	4696.3	4277.0
60°	212.2	213.2	222.0	254.6	368.1	602.2	1194.2	2982.3	5224.1	5067.7
62.5°	192.7	192.7	195.0	203.8	249.0	397.4	867.0	2663.9	5790.0	6066.9
65°	179.2	179.2	180.1	184.3	196.4	253.2	547.3	2145.5	6267.0	7237.4
67.5°	167.1	167.5	167.1	168.5	175.5	187.1	317.4	1481.8	6523.9	8450.2
70°	154.5	155.4	153.1	153.1	158.7	159.2	198.7	812.6	6310.8	9466.7
72.5°	139.6	141.0	137.3	136.4	140.6	138.7	149.4	390.0	5418.2	9770.1
75°	126.6	128.4	120.1	117.7	117.7	116.3	121.5	200.1	3516.5	7969.9
77.5°	115.0	118.7	105.2	97.7	95.9	91.7	99.1	122.4	1538.1	3741.8
80°	94.9	100.1	86.6	77.7	74.5	69.8	78.2	85.6	457.5	868.9
82.5°	70.7	73.1	61.4	55.4	52.6	49.3	58.6	59.6	148.9	307.6
85°	45.1	46.1	37.7	32.6	31.2	29.8	37.2	32.6	56.8	226.2
87.5°	15.8	18.2	14.4	13.0	14.0	11.6	17.2	9.8	15.8	159.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°

1636.3  
1637.3  
1648.0  
1659.1  
1663.3  
1667.1  
1676.4  
1696.8  
1728.0  
1761.5  
1802.5  
1851.4  
1887.7  
1928.1  
1995.6  
2086.8  
2224.1  
2308.8  
2358.2  
2504.3  
2720.7  
3044.2  
3487.2  
4055.0  
4788.0  
5692.3  
6763.6  
7938.8  
9332.2  
10123.8  
8524.7  
3664.1  
832.1  
347.7  
328.6  
197.8  
0.0

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