

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: P939463

Luminaire Tested: **GALN-SB2A-827-U-T1**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939463  
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-SB2A-827-U-T1  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7717 lumens  
Efficiency: N/A  
Efficacy: 134.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G3

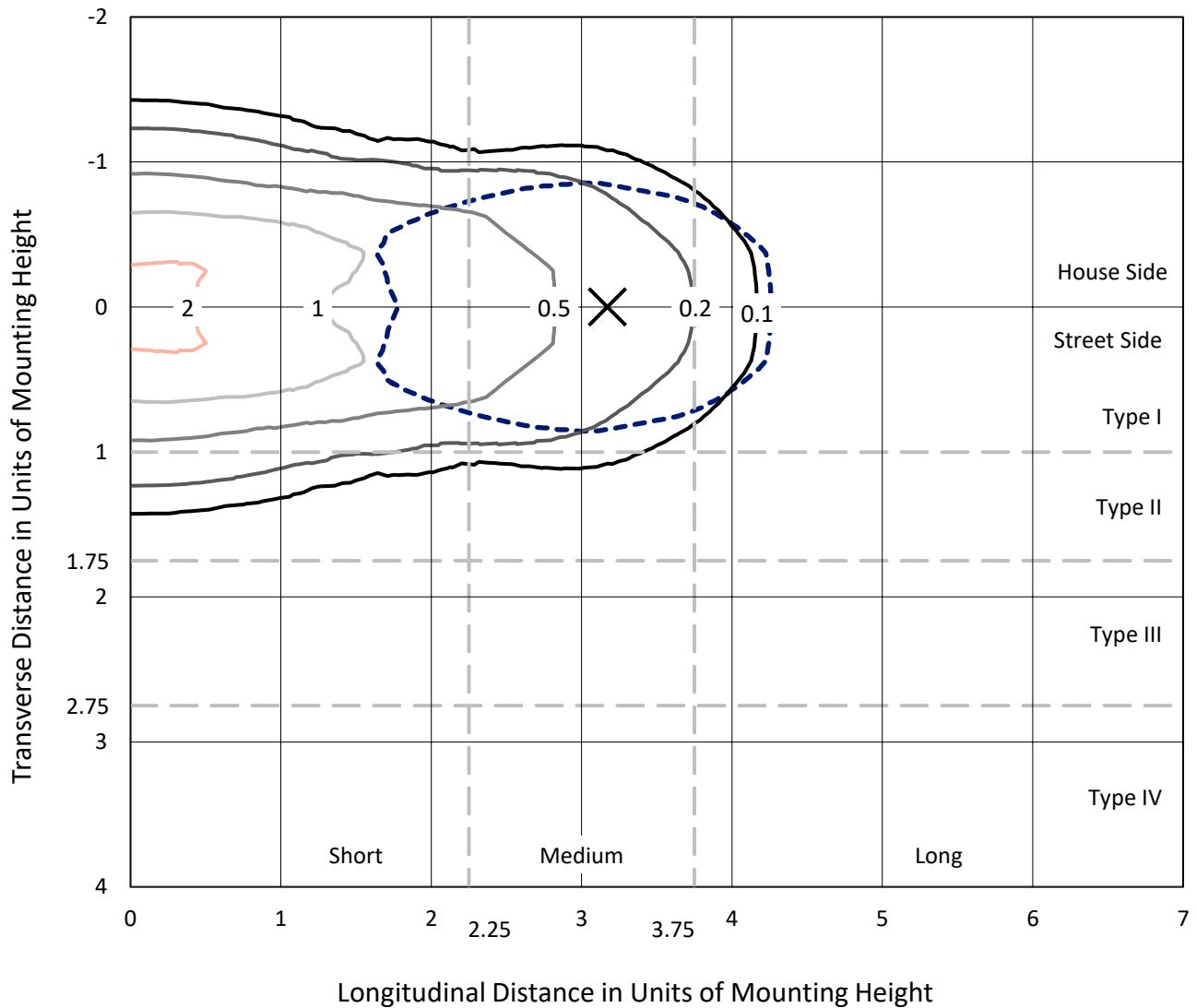
Input Watts (W): 57.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

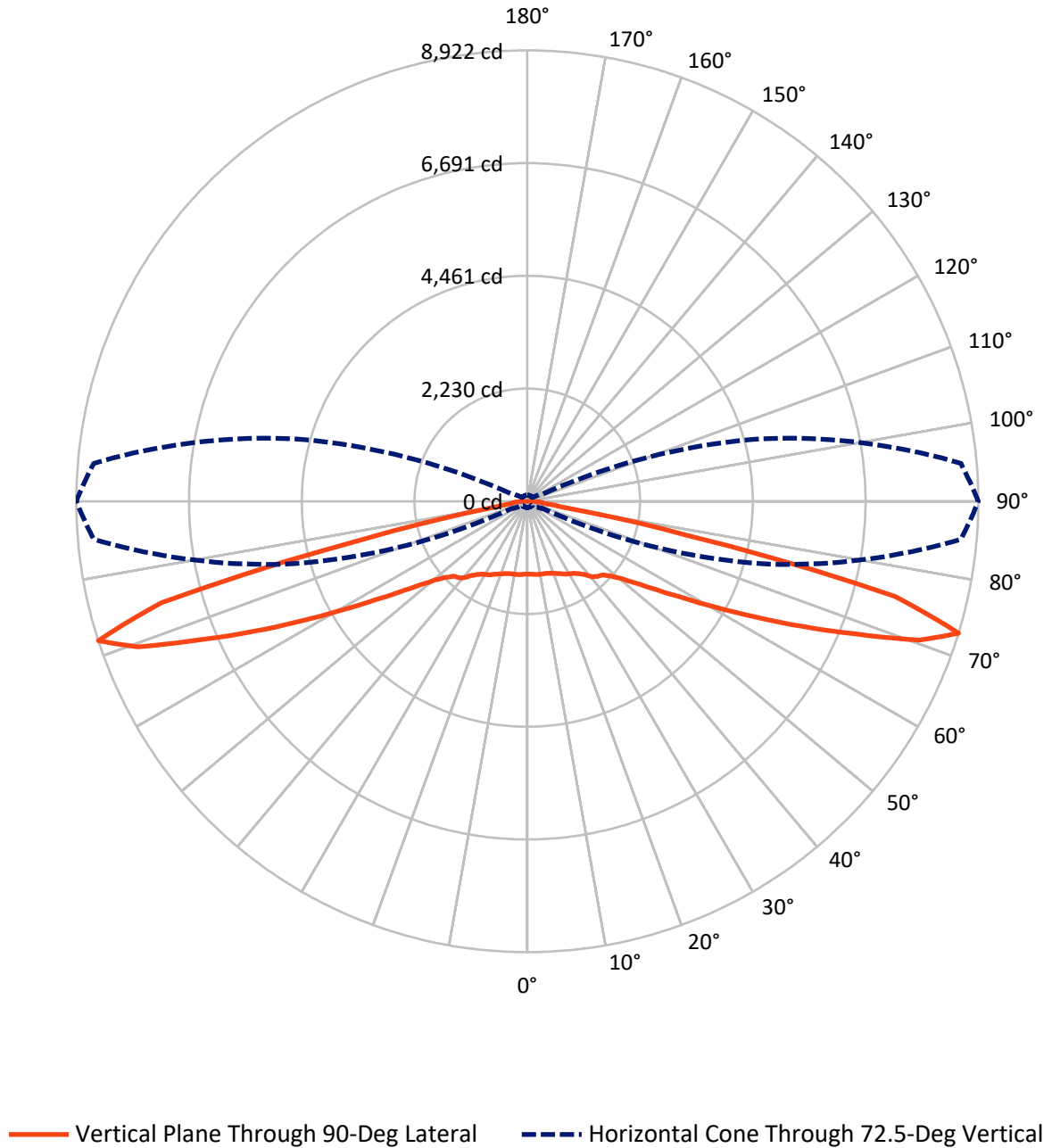
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 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	3858.5	0.0	3858.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	3858.5	0.0	3858.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	7717.0	0.0	7717.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	139.8	1.8
10°-20°	427.5	5.5
20°-30°	712.8	9.2
30°-40°	980.4	12.7
40°-50°	1197.3	15.5
50°-60°	1384.8	17.9
60°-70°	1651.2	21.4
70°-80°	1152.4	14.9
80°-90°	70.8	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°	7717.0	100.0
0°-180°	7717.0	100.0

**Coefficient of Utilization**



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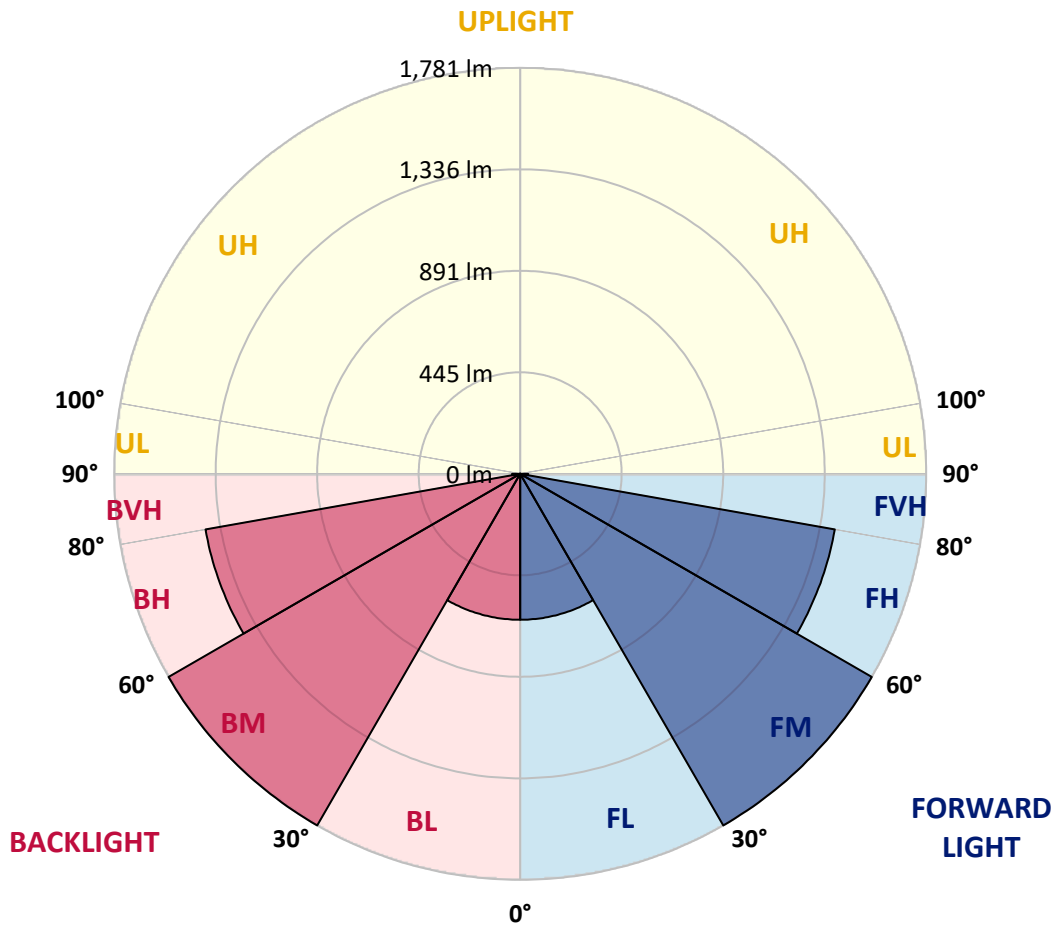
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	640.1	8.3			
FM (30°-60°)	1781.2	23.1			
FH (60°-80°)	1401.8	18.2			G1/1800
FVH (80°-90°)	35.4	0.5			G1/100
BL (0°-30°)	640.1	8.3	B2/1000		
BM (30°-60°)	1781.2	23.1	B2/2500		
BH (60°-80°)	1401.8	18.2	B3/2500		G3/2500
BVH (80°-90°)	35.4	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°	1442.0	1442.0	1442.0	1442.0	1442.0	1442.0	1442.0	1442.0	1442.0	1442.0
2.5°	1443.2	1444.9	1444.9	1443.6	1446.5	1444.1	1444.1	1442.8	1444.1	1442.8
5°	1450.6	1452.7	1453.5	1453.1	1456.8	1454.7	1454.7	1453.1	1453.5	1452.3
7.5°	1464.6	1467.4	1469.1	1471.1	1476.5	1474.0	1472.4	1467.4	1465.4	1462.1
10°	1469.1	1472.4	1477.7	1488.3	1500.7	1501.1	1496.1	1483.8	1474.4	1467.0
12.5°	1455.1	1459.6	1470.7	1492.4	1519.9	1531.0	1523.2	1502.7	1484.2	1471.1
15°	1437.5	1442.4	1459.2	1492.0	1532.6	1558.5	1557.7	1530.6	1501.1	1480.6
17.5°	1410.0	1414.9	1439.1	1485.1	1542.5	1585.1	1596.6	1568.7	1527.3	1499.8
20°	1360.4	1364.9	1398.5	1462.9	1545.8	1613.4	1643.4	1618.8	1567.1	1529.8
22.5°	1296.0	1303.0	1342.3	1424.8	1538.0	1643.0	1696.7	1679.9	1613.4	1561.8
25°	1227.1	1234.5	1280.4	1378.0	1517.9	1664.3	1759.9	1749.2	1665.9	1601.5
27.5°	1167.6	1175.4	1225.5	1331.7	1486.7	1672.5	1822.2	1827.5	1729.5	1645.4
30°	1120.9	1128.3	1181.6	1294.4	1446.5	1664.3	1876.7	1913.6	1794.3	1683.6
32.5°	1069.6	1079.0	1135.2	1248.8	1398.9	1644.6	1924.3	2006.7	1869.4	1724.6
35°	1004.8	1013.4	1072.5	1186.5	1336.6	1613.0	1964.1	2110.1	1976.8	1786.9
37.5°	926.1	934.3	992.9	1108.6	1274.7	1568.7	1994.4	2226.6	2104.8	1876.7
40°	846.9	854.7	909.7	1021.6	1200.4	1512.1	2005.1	2340.6	2251.6	2000.2
42.5°	774.3	781.3	831.7	935.9	1117.2	1440.0	1991.2	2439.8	2383.2	2086.3
45°	707.5	713.6	758.3	855.5	1030.6	1352.2	1949.3	2546.5	2539.9	2147.8
47.5°	631.2	637.3	683.7	777.6	944.1	1249.2	1878.4	2651.5	2757.7	2287.3
50°	538.1	543.4	591.0	687.8	854.3	1139.7	1779.9	2733.9	3032.5	2498.5
52.5°	427.8	433.5	479.8	576.6	747.7	1022.0	1650.3	2787.6	3349.9	2806.9
55°	318.3	322.4	362.6	449.5	615.6	887.9	1487.9	2802.8	3710.0	3228.5
57.5°	230.9	233.4	259.2	324.0	466.7	720.2	1290.7	2763.4	4138.6	3769.1
60°	187.0	187.8	195.6	224.3	324.4	530.7	1052.4	2628.1	4603.7	4465.9
62.5°	169.8	169.8	171.8	179.6	219.4	350.2	764.1	2347.6	5102.4	5346.4
65°	157.9	157.9	158.7	162.4	173.1	223.1	482.3	1890.7	5522.8	6377.9
67.5°	147.2	147.6	147.2	148.5	154.6	164.9	279.7	1305.8	5749.1	7446.7
70°	136.2	137.0	134.9	134.9	139.9	140.3	175.1	716.1	5561.3	8342.4
72.5°	123.0	124.3	121.0	120.2	123.9	122.2	131.7	343.7	4774.7	8609.8
75°	111.6	113.2	105.8	103.8	103.8	102.5	107.0	176.4	3098.9	7023.4
77.5°	101.3	104.6	92.7	86.1	84.5	80.8	87.4	107.9	1355.5	3297.4
80°	83.7	88.2	76.3	68.5	65.6	61.5	68.9	75.5	403.2	765.7
82.5°	62.3	64.4	54.1	48.8	46.3	43.5	51.7	52.5	131.2	271.1
85°	39.8	40.6	33.2	28.7	27.5	26.2	32.8	28.7	50.0	199.3
87.5°	13.9	16.0	12.7	11.5	12.3	10.3	15.2	8.6	13.9	140.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°

1442.0  
1442.8  
1452.3  
1462.1  
1465.8  
1469.1  
1477.3  
1495.3  
1522.8  
1552.3  
1588.4  
1631.5  
1663.5  
1699.2  
1758.6  
1839.0  
1960.0  
2034.6  
2078.1  
2206.9  
2397.6  
2682.6  
3073.1  
3573.4  
4219.4  
5016.3  
5960.4  
6995.9  
8223.8  
8921.5  
7512.3  
3228.9  
733.3  
306.4  
289.5  
174.3  
0.0

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