

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: P945691

Luminaire Tested: **GALN-SB1C-827-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945691
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-SB1C-827-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6822 lumens
Efficiency: N/A
Efficacy: 125.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

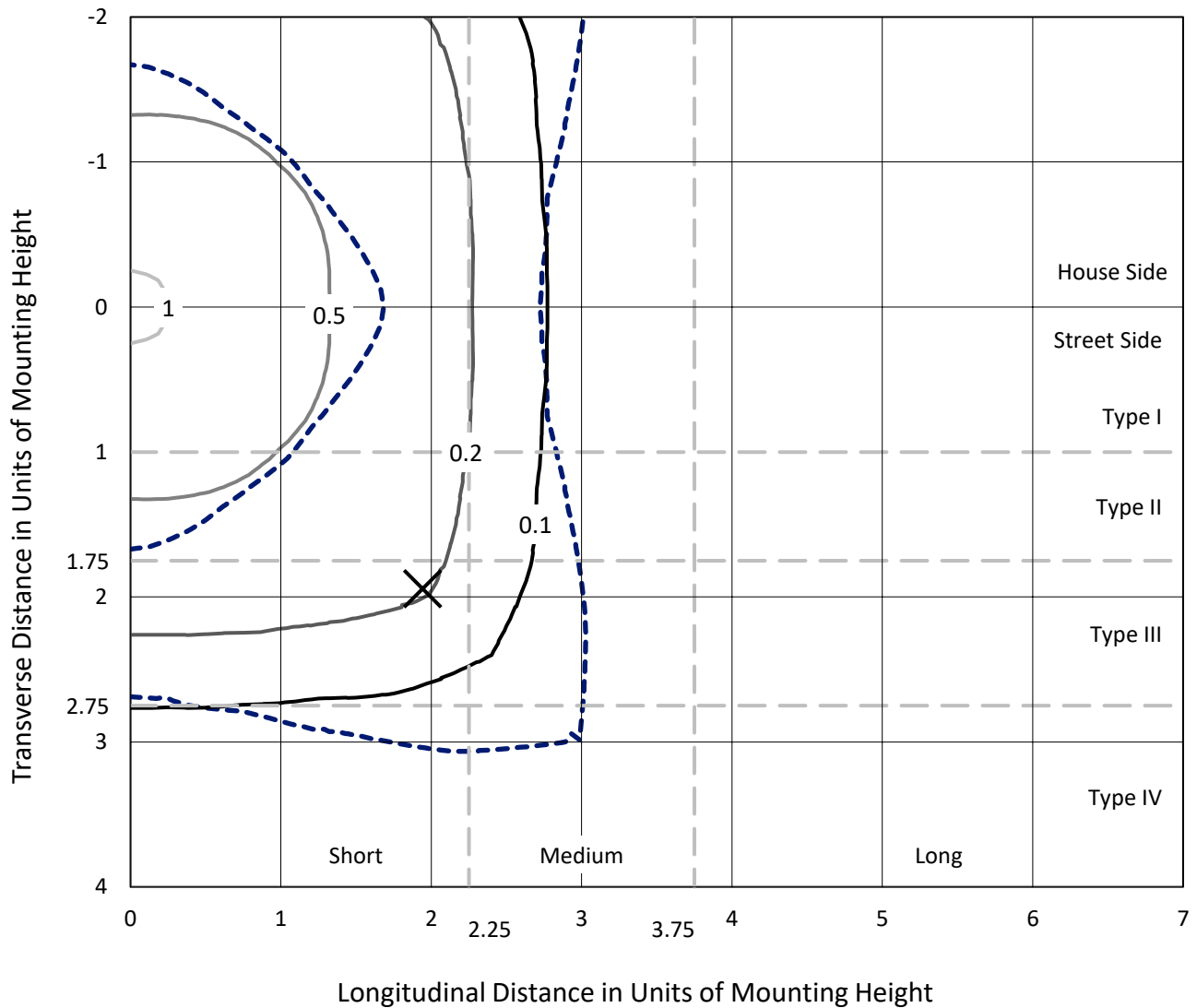
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

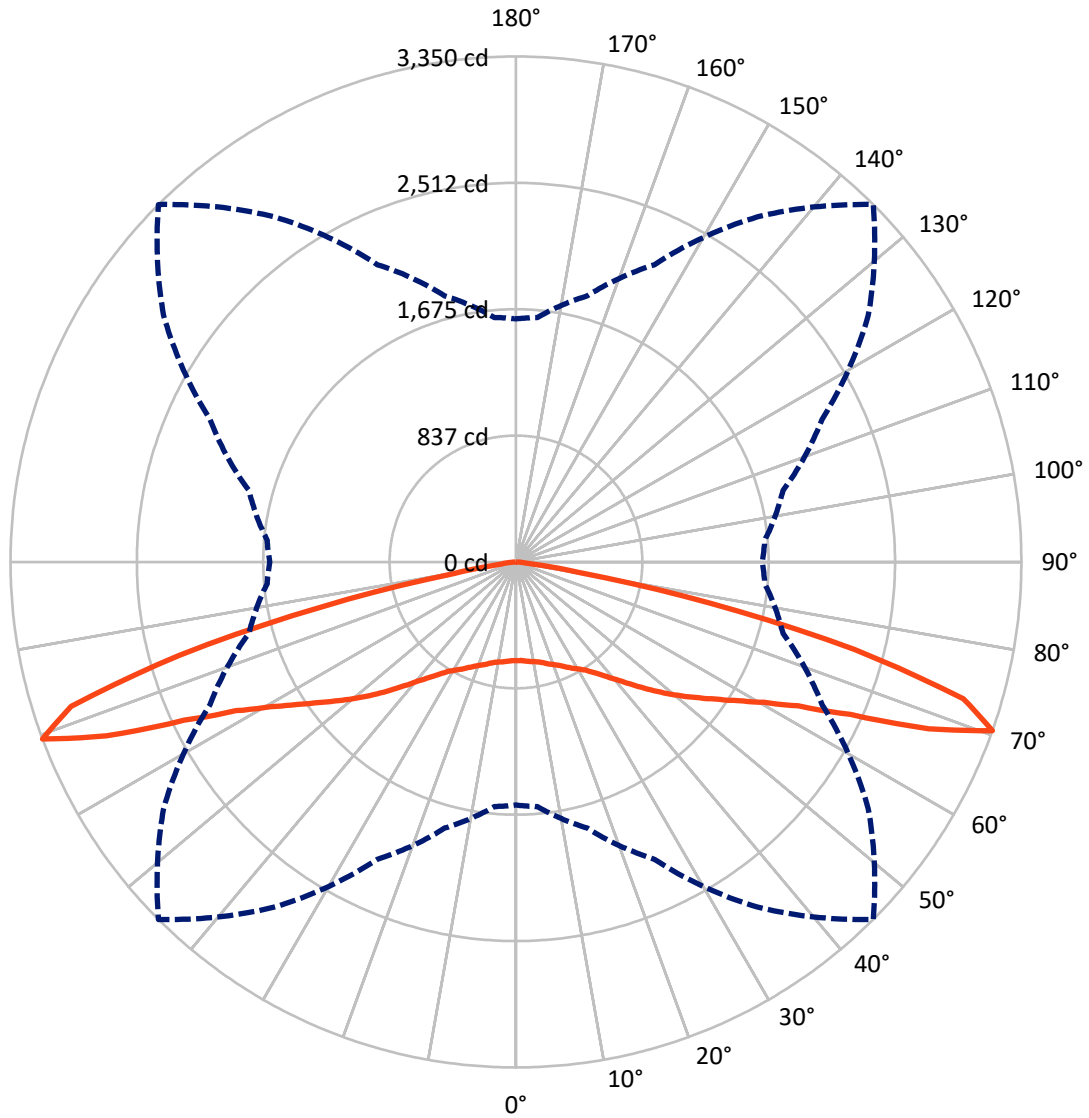
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 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
House Side	Lumens	3411.0	0.0	3411.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3411.0	0.0	3411.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	6822.0	0.0	6822.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.5	0.9
10°-20°	196.9	2.9
20°-30°	351.8	5.2
30°-40°	570.3	8.4
40°-50°	928.9	13.6
50°-60°	1416.3	20.8
60°-70°	2106.9	30.9
70°-80°	1148.3	16.8
80°-90°	39.1	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°	6822.0	100.0
0°-180°	6822.0	100.0

Coefficient of Utilization



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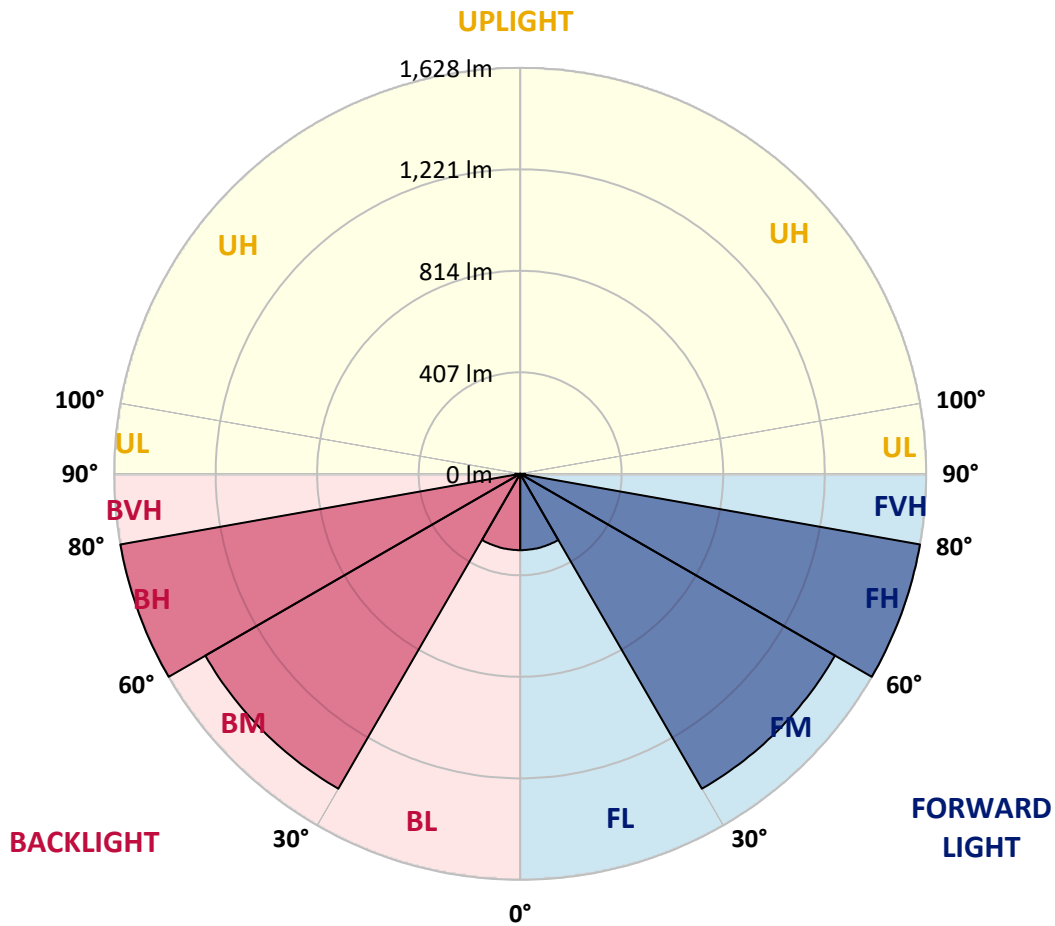
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	306.1	4.5			
FM (30°-60°)	1457.7	21.4			
FH (60°-80°)	1627.6	23.9			G1/1800
FVH (80°-90°)	19.5	0.3			G1/100
BL (0°-30°)	306.1	4.5	B1/500		
BM (30°-60°)	1457.7	21.4	B2/2500		
BH (60°-80°)	1627.6	23.9	B3/2500		G1/1800
BVH (80°-90°)	19.5	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-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	653.5	653.5	653.5	653.5	653.5	653.5	653.5	653.5	653.5	653.5
2.5°	656.6	657.2	655.9	655.2	654.5	653.5	653.8	655.5	656.9	656.6
5°	662.0	662.7	661.7	661.4	660.0	659.6	659.6	661.4	662.4	661.7
7.5°	668.2	669.2	667.5	667.2	666.5	665.8	665.5	667.2	668.2	668.2
10°	674.0	675.1	673.7	672.7	672.0	672.0	671.3	672.7	674.4	674.0
12.5°	680.2	680.9	679.5	678.8	678.8	679.8	678.8	679.5	680.9	680.2
15°	687.7	688.1	687.7	688.8	690.5	693.9	690.8	690.1	690.8	689.1
17.5°	698.0	698.7	700.1	702.5	704.9	711.0	705.5	703.8	703.8	700.4
20°	710.7	711.7	713.8	717.9	720.9	726.8	721.3	718.9	717.9	713.4
22.5°	724.0	725.7	728.8	734.3	739.8	745.3	739.8	735.7	732.6	726.8
25°	739.4	741.5	746.3	755.2	762.7	770.6	764.1	755.9	749.7	741.5
27.5°	761.4	763.8	769.6	780.5	790.1	797.0	790.8	780.2	771.6	761.7
30°	792.2	794.6	801.4	813.1	819.6	824.0	819.9	811.7	801.4	790.1
32.5°	831.9	835.0	842.5	853.5	854.9	855.5	854.2	850.1	842.5	828.8
35°	882.3	885.7	894.2	903.2	901.8	903.2	901.1	899.7	894.2	878.5
37.5°	943.9	948.0	956.9	963.8	960.4	958.6	959.0	959.3	956.2	938.8
40°	1015.5	1021.0	1027.5	1034.7	1028.8	1023.7	1027.1	1029.9	1027.1	1009.3
42.5°	1089.1	1097.0	1103.9	1114.1	1109.3	1102.8	1107.6	1110.7	1104.9	1085.7
45°	1171.0	1178.5	1187.4	1202.8	1199.4	1192.6	1199.4	1200.1	1190.2	1167.6
47.5°	1255.6	1263.5	1276.8	1297.4	1296.0	1288.5	1297.4	1292.6	1279.9	1252.8
50°	1335.7	1346.7	1367.2	1396.0	1398.7	1389.5	1401.5	1392.2	1371.0	1337.1
52.5°	1411.1	1422.7	1455.3	1494.3	1504.2	1492.2	1508.3	1492.2	1460.4	1416.9
55°	1490.2	1503.2	1541.9	1592.9	1612.8	1603.9	1619.0	1594.6	1549.4	1496.7
57.5°	1583.3	1591.2	1637.5	1698.1	1731.6	1733.7	1740.6	1699.5	1644.7	1584.7
60°	1684.4	1695.3	1745.7	1818.3	1871.4	1888.5	1881.3	1820.4	1756.6	1687.8
62.5°	1813.8	1825.8	1886.1	1973.1	2057.0	2099.5	2071.4	1983.0	1904.3	1821.7
65°	1921.0	1934.4	2043.3	2198.5	2351.2	2436.5	2365.9	2203.3	2061.5	1945.0
67.5°	1843.3	1859.7	2030.6	2315.6	2695.4	2949.9	2708.4	2350.5	2072.8	1914.9
70°	1611.1	1626.5	1825.8	2174.1	2792.3	3349.9	2850.6	2238.2	1832.3	1655.6
72.5°	1069.6	1119.3	1321.0	1738.8	2493.4	3099.9	2518.0	1703.6	1225.4	1067.2
75°	354.8	394.6	532.2	901.4	1670.0	2318.3	1589.9	797.7	421.6	303.4
77.5°	89.4	103.1	142.1	257.9	666.1	1320.0	599.7	210.6	114.7	80.1
80°	43.5	47.9	68.5	86.0	166.8	419.6	156.5	80.8	54.1	41.8
82.5°	24.0	24.3	38.7	48.6	62.0	108.6	64.4	47.3	31.2	25.3
85°	14.7	14.4	20.5	26.0	26.0	38.7	30.8	26.0	17.8	15.8
87.5°	5.8	5.8	7.5	8.2	7.2	9.9	7.9	8.6	6.8	6.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
653.5
656.9
662.0
668.2
674.0
679.8
689.1
700.4
713.4
726.4
741.2
761.4
790.1
829.2
878.5
938.8
1009.3
1087.1
1170.0
1251.1
1336.4
1412.8
1489.5
1576.5
1676.8
1807.3
1925.8
1891.2
1632.0
1032.6
287.0
71.6
38.4
25.3
16.4
6.8
0.0

OF REPORT)