

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: P945775

Luminaire Tested: **GALN-SB1C-850-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945775
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-850-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 5000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7504 lumens
Efficiency: N/A
Efficacy: 137.9 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

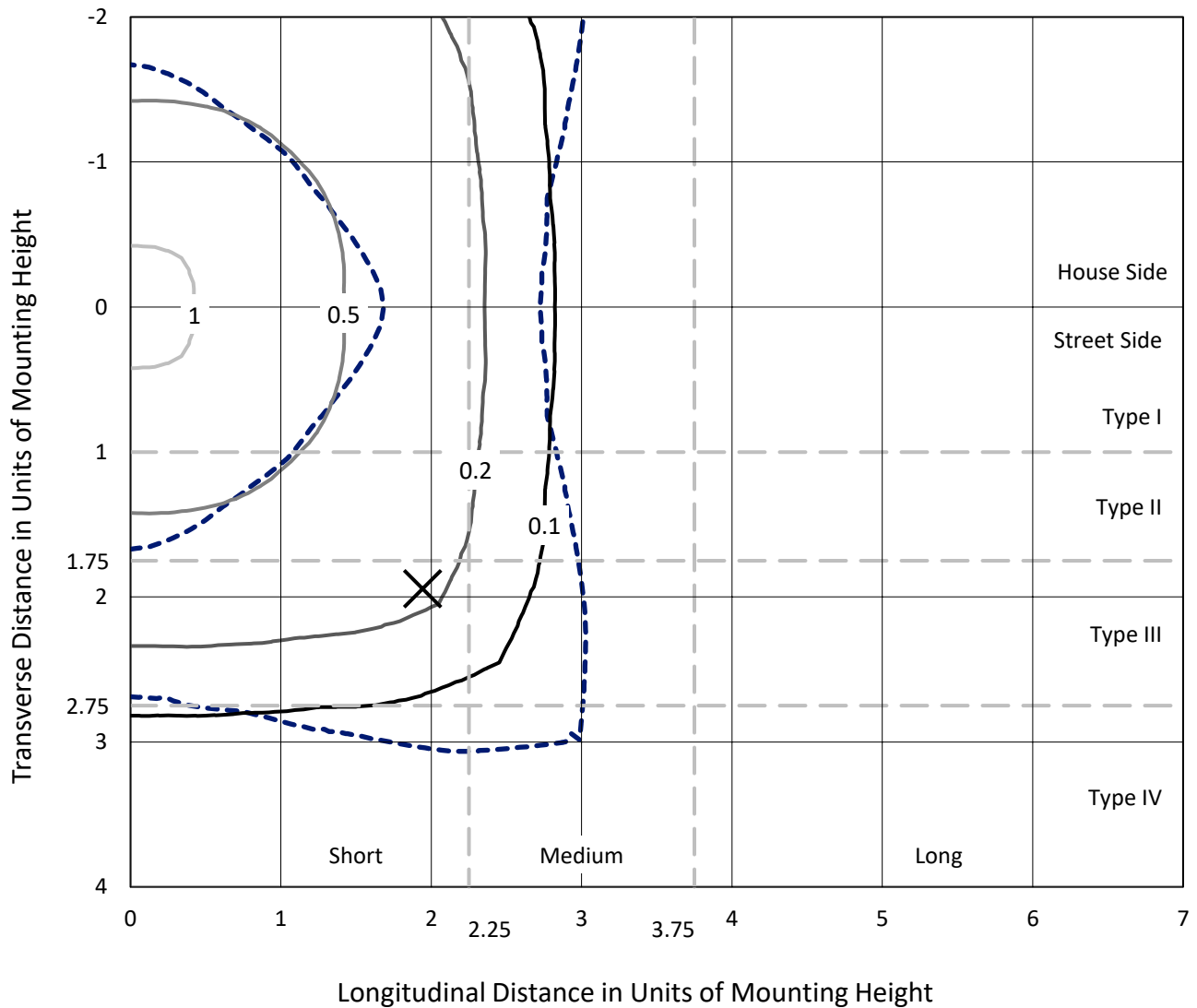
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

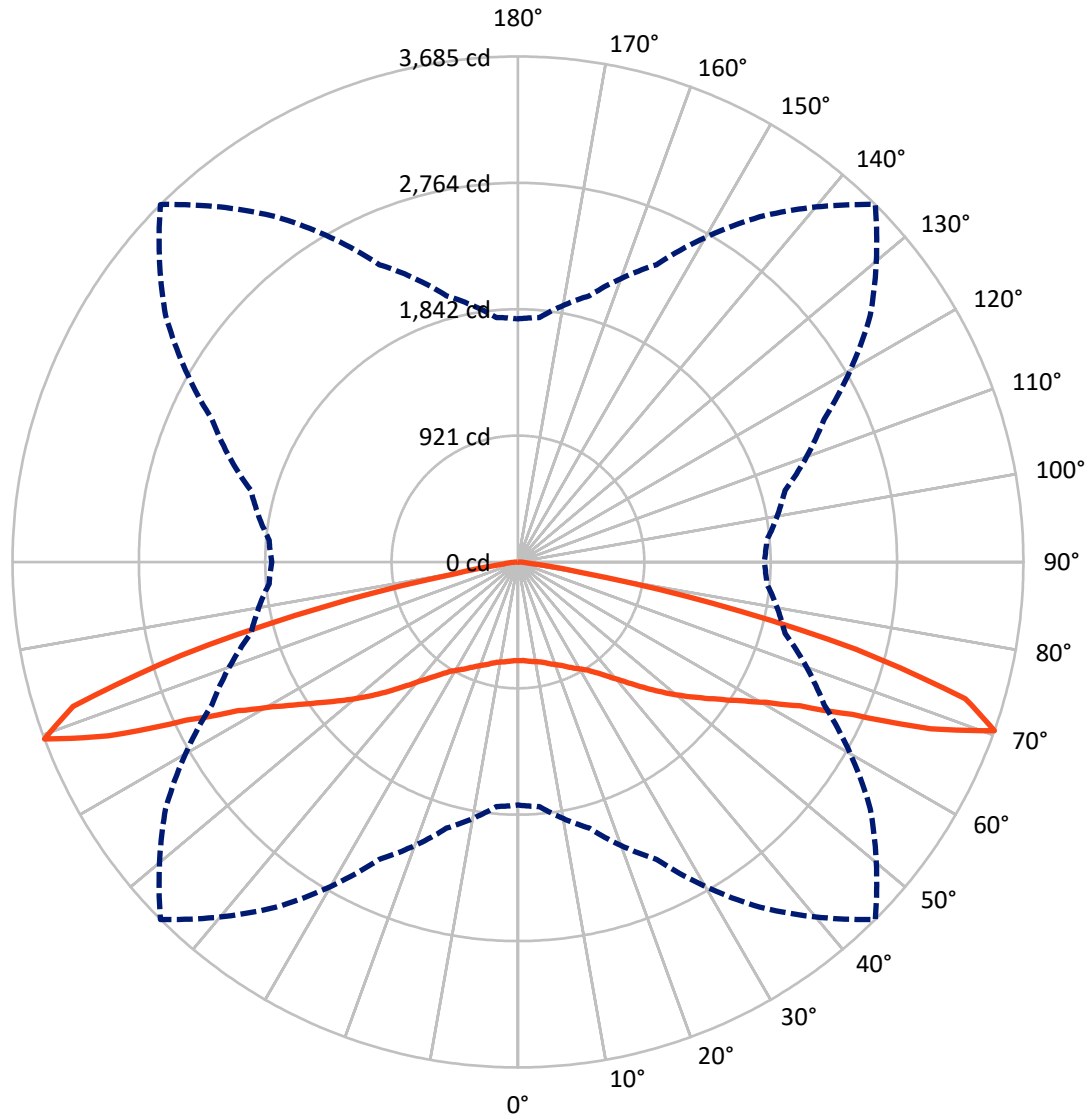
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 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
House Side	Lumens	3752.0	0.0	3752.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3752.0	0.0	3752.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	7504.0	0.0	7504.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.8	0.9
10°-20°	216.5	2.9
20°-30°	387.0	5.2
30°-40°	627.3	8.4
40°-50°	1021.8	13.6
50°-60°	1557.8	20.8
60°-70°	2317.6	30.9
70°-80°	1263.2	16.8
80°-90°	43.0	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°	7504.0	100.0
0°-180°	7504.0	100.0

Coefficient of Utilization



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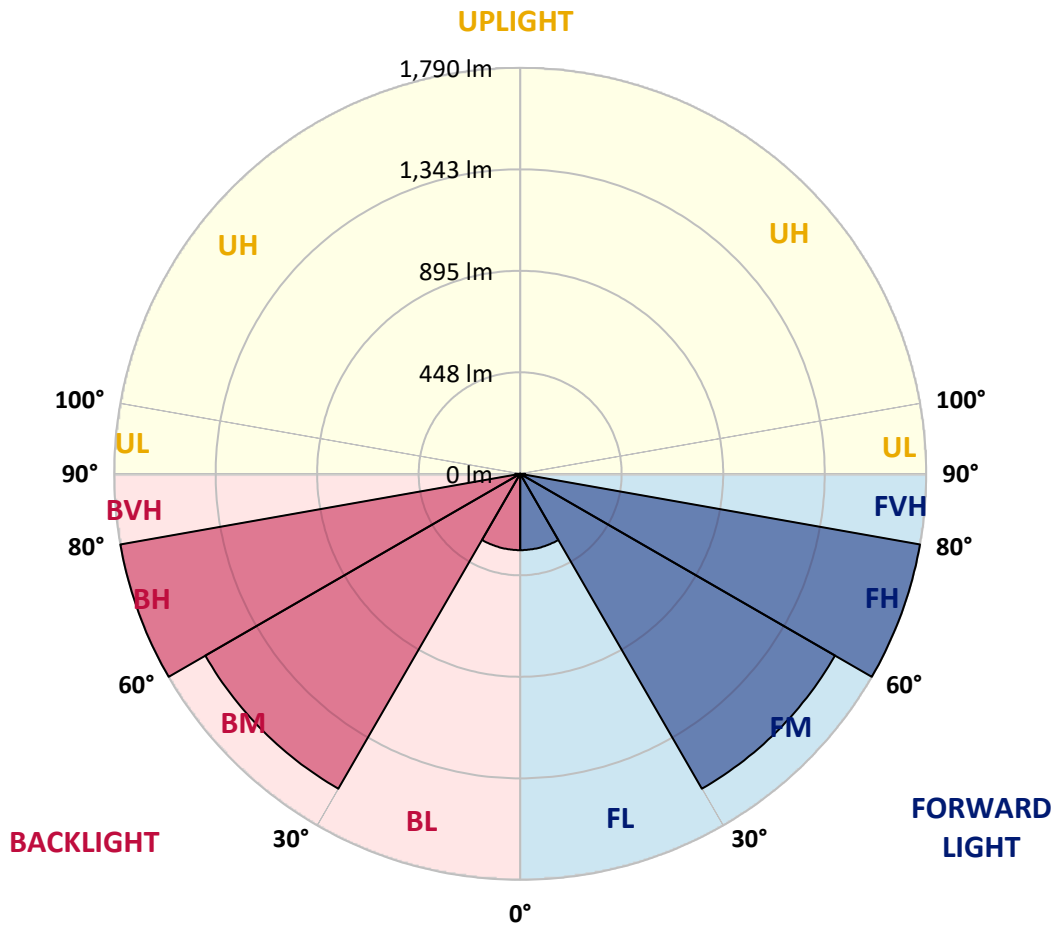
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	336.7	4.5			
FM (30°-60°)	1603.4	21.4			
FH (60°-80°)	1790.4	23.9			G1/1800
FVH (80°-90°)	21.5	0.3			G1/100
BL (0°-30°)	336.7	4.5	B1/500		
BM (30°-60°)	1603.4	21.4	B2/2500		
BH (60°-80°)	1790.4	23.9	B3/2500		G1/1800
BVH (80°-90°)	21.5	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°	718.8	718.8	718.8	718.8	718.8	718.8	718.8	718.8	718.8	718.8
2.5°	722.2	722.9	721.4	720.7	719.9	718.8	719.2	721.1	722.6	722.2
5°	728.2	729.0	727.8	727.5	726.0	725.6	725.6	727.5	728.6	727.8
7.5°	735.0	736.1	734.3	733.9	733.1	732.4	732.0	733.9	735.0	735.0
10°	741.4	742.5	741.0	739.9	739.1	739.1	738.4	739.9	741.8	741.4
12.5°	748.2	748.9	747.4	746.7	746.7	747.8	746.7	747.4	748.9	748.2
15°	756.5	756.9	756.5	757.6	759.5	763.3	759.9	759.1	759.9	758.0
17.5°	767.8	768.5	770.0	772.7	775.3	782.1	776.1	774.2	774.2	770.4
20°	781.7	782.9	785.1	789.6	793.0	799.4	793.4	790.8	789.6	784.7
22.5°	796.4	798.3	801.7	807.7	813.7	819.8	813.7	809.2	805.8	799.4
25°	813.4	815.6	820.9	830.7	839.0	847.6	840.5	831.4	824.7	815.6
27.5°	837.5	840.1	846.5	858.6	869.1	876.7	869.9	858.2	848.8	837.9
30°	871.4	874.0	881.6	894.4	901.5	906.4	901.9	892.9	881.6	869.1
32.5°	915.1	918.5	926.8	938.8	940.3	941.1	939.6	935.0	926.8	911.7
35°	970.5	974.2	983.6	993.4	991.9	993.4	991.2	989.7	983.6	966.3
37.5°	1038.3	1042.8	1052.6	1060.1	1056.4	1054.5	1054.9	1055.2	1051.8	1032.6
40°	1117.0	1123.0	1130.2	1138.1	1131.7	1126.1	1129.8	1132.8	1129.8	1110.2
42.5°	1198.0	1206.7	1214.2	1225.5	1220.2	1213.1	1218.4	1221.7	1215.3	1194.2
45°	1288.0	1296.3	1306.1	1323.1	1319.3	1311.8	1319.3	1320.1	1309.1	1284.3
47.5°	1381.1	1389.8	1404.5	1427.1	1425.6	1417.3	1427.1	1421.8	1407.8	1378.1
50°	1469.3	1481.3	1503.9	1535.6	1538.6	1528.4	1541.6	1531.4	1508.1	1470.8
52.5°	1552.1	1564.9	1600.7	1643.7	1654.6	1641.4	1659.1	1641.4	1606.4	1558.5
55°	1639.2	1653.5	1696.0	1752.2	1774.0	1764.2	1780.8	1754.1	1704.3	1646.3
57.5°	1741.6	1750.3	1801.2	1867.8	1904.8	1907.0	1914.6	1869.3	1809.1	1743.1
60°	1852.8	1864.8	1920.2	2000.1	2058.5	2077.3	2069.4	2002.3	1932.3	1856.5
62.5°	1995.2	2008.4	2074.7	2170.4	2262.7	2309.4	2278.5	2181.3	2094.6	2003.8
65°	2113.1	2127.8	2247.6	2418.2	2586.3	2680.1	2602.5	2423.5	2267.6	2139.5
67.5°	2027.6	2045.7	2233.6	2547.1	2964.9	3244.8	2979.2	2585.5	2280.0	2106.3
70°	1772.1	1789.1	2008.4	2391.5	3071.5	3684.8	3135.5	2461.9	2015.5	1821.1
72.5°	1176.5	1231.2	1453.1	1912.7	2742.6	3409.8	2769.7	1873.9	1347.9	1173.9
75°	390.3	434.0	585.4	991.6	1836.9	2550.1	1748.8	877.4	463.8	333.8
77.5°	98.3	113.4	156.3	283.7	732.7	1451.9	659.7	231.7	126.2	88.2
80°	47.8	52.7	75.3	94.6	183.5	461.5	172.2	88.9	59.5	46.0
82.5°	26.4	26.7	42.6	53.5	68.2	119.4	70.8	52.0	34.3	27.9
85°	16.2	15.8	22.6	28.6	28.6	42.6	33.9	28.6	19.6	17.3
87.5°	6.4	6.4	8.3	9.0	7.9	10.9	8.7	9.4	7.5	7.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
718.8
722.6
728.2
735.0
741.4
747.8
758.0
770.4
784.7
799.0
815.2
837.5
869.1
912.1
966.3
1032.6
1110.2
1195.7
1286.9
1376.2
1470.0
1554.0
1638.4
1734.1
1844.5
1988.0
2118.4
2080.3
1795.1
1135.8
315.7
78.7
42.2
27.9
18.1
7.5
0.0

OF REPORT)