

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: P946451

Luminaire Tested: **GALN-SB2A-835-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946451
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2A-835-U-RW
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8568 lumens
Efficiency: N/A
Efficacy: 149.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

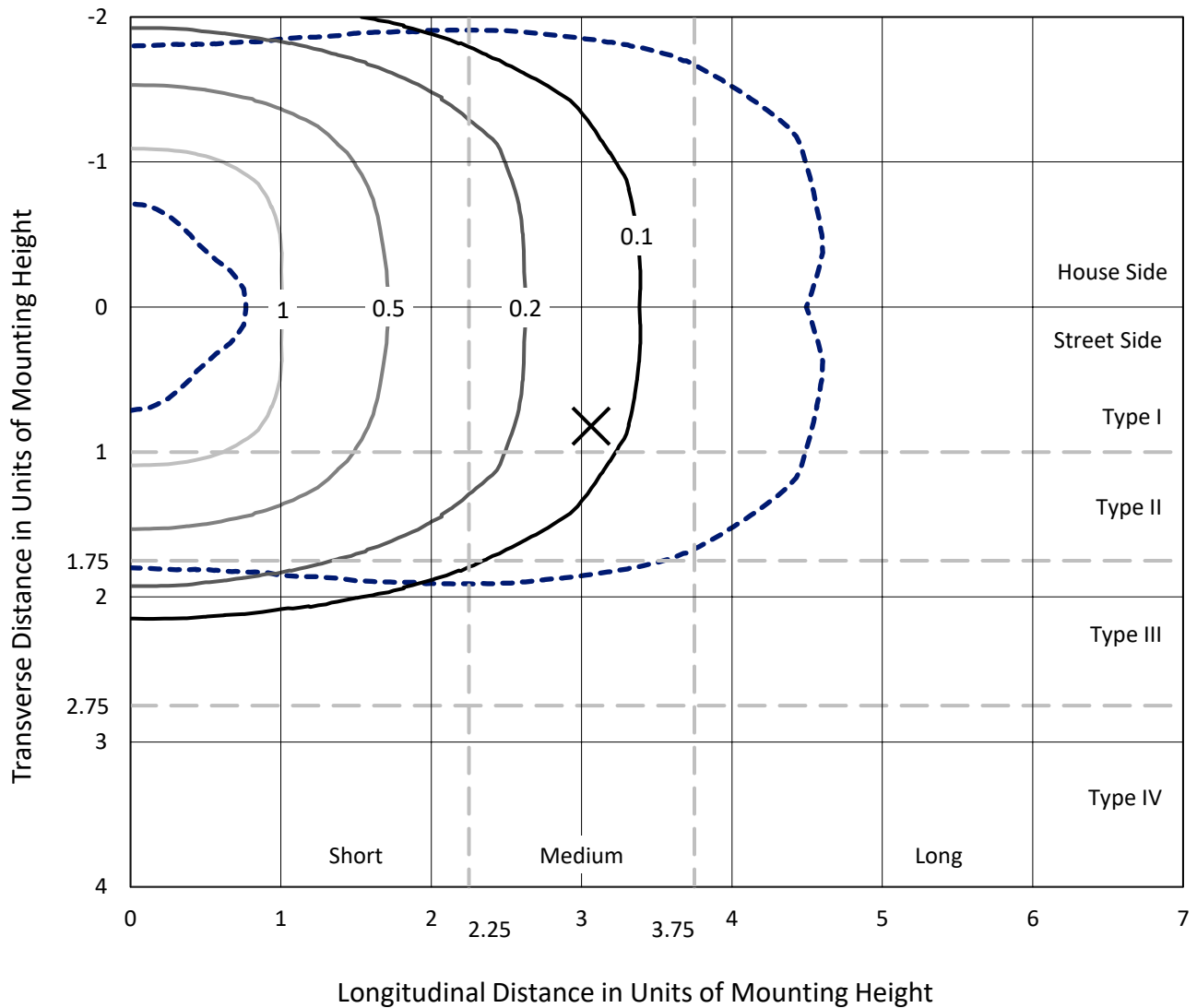
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

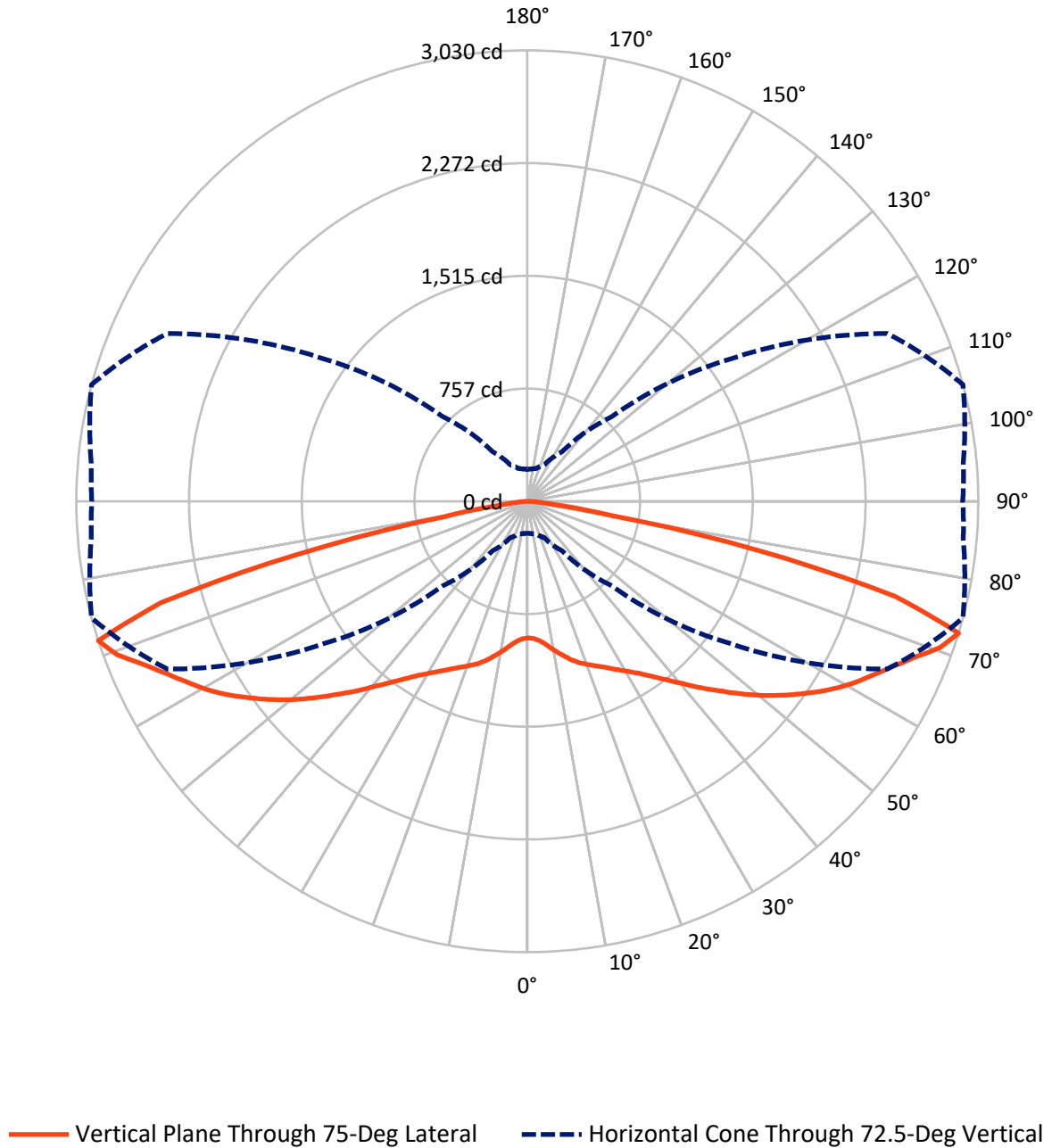
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4284.0	0.0	4284.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4284.0	0.0	4284.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	8568.0	0.0	8568.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.9	1.0
10°-20°	296.5	3.5
20°-30°	573.0	6.7
30°-40°	967.5	11.3
40°-50°	1534.4	17.9
50°-60°	2054.3	24.0
60°-70°	1955.1	22.8
70°-80°	1020.2	11.9
80°-90°	77.2	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°	8568.0	100.0
0°-180°	8568.0	100.0

Coefficient of Utilization



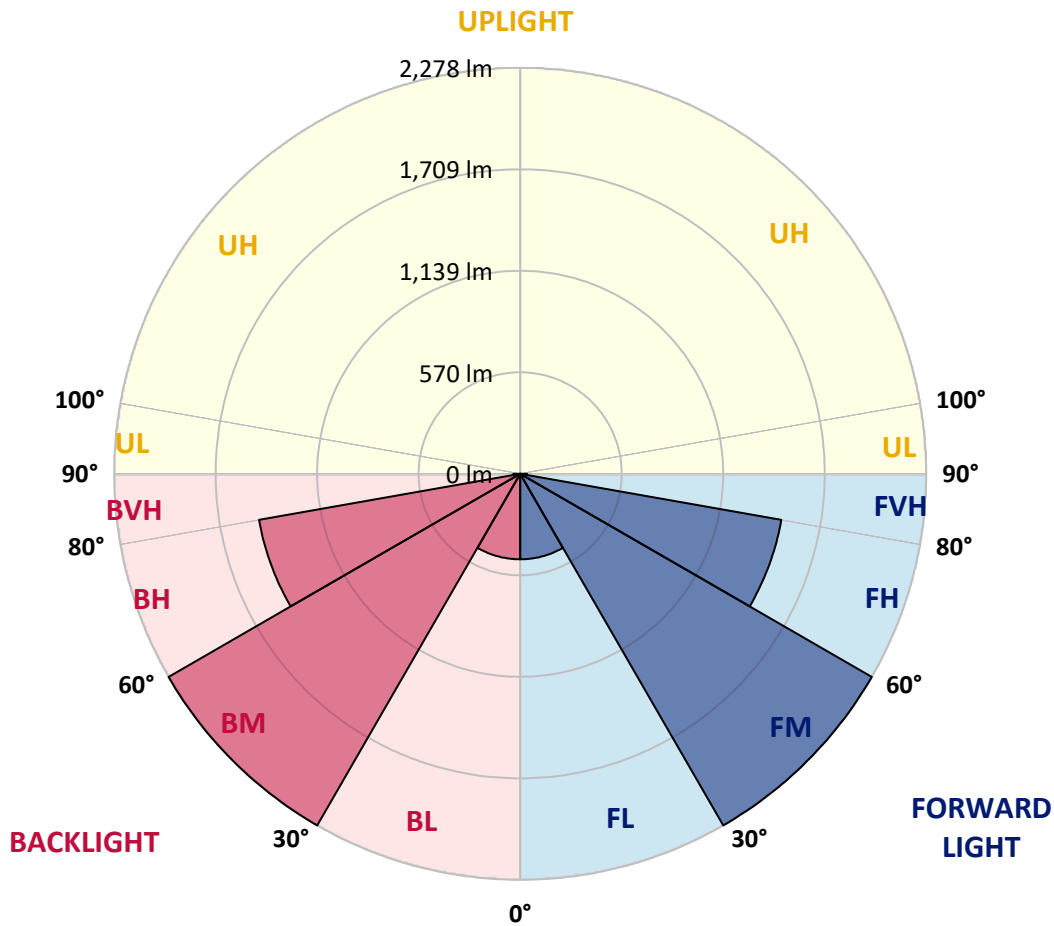
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	479.7	5.6			
FM (30°-60°)	2278.1	26.6			
FH (60°-80°)	1487.6	17.4			G1/1800
FVH (80°-90°)	38.6	0.5			G1/100
BL (0°-30°)	479.7	5.6	B1/500		
BM (30°-60°)	2278.1	26.6	B2/2500		
BH (60°-80°)	1487.6	17.4	B3/2500		G3/2500
BVH (80°-90°)	38.6	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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	917.8	917.8	917.8	917.8	917.8	917.8	917.8	917.8	917.8	917.8
2.5°	917.8	916.9	917.8	918.7	918.2	918.2	920.4	921.7	924.3	923.9
5°	911.7	911.2	914.7	918.7	921.7	927.0	933.5	938.3	944.5	945.8
7.5°	908.6	907.3	913.4	920.4	930.0	943.2	955.8	969.0	979.5	983.0
10°	910.8	911.2	919.5	932.7	948.0	966.3	984.3	1006.6	1021.5	1025.0
12.5°	920.8	920.0	934.0	955.0	976.0	999.2	1020.2	1044.6	1060.8	1069.1
15°	939.2	937.5	957.2	988.2	1018.8	1046.0	1063.0	1086.2	1105.0	1115.5
17.5°	961.1	962.0	987.8	1028.0	1068.3	1098.9	1115.1	1126.9	1141.3	1150.5
20°	999.6	1001.3	1030.2	1077.9	1123.8	1158.8	1171.9	1167.6	1171.5	1178.5
22.5°	1051.2	1052.1	1084.5	1136.1	1184.2	1222.7	1231.4	1213.5	1202.6	1207.4
25°	1111.1	1116.8	1149.2	1202.1	1251.6	1288.3	1292.2	1265.1	1238.0	1239.3
27.5°	1184.2	1189.4	1222.3	1274.8	1325.1	1357.0	1356.6	1320.2	1280.4	1270.4
30°	1263.4	1269.1	1302.7	1357.0	1403.8	1431.8	1425.7	1382.4	1325.5	1306.7
32.5°	1357.4	1360.9	1395.1	1449.3	1492.6	1514.9	1502.2	1448.9	1378.0	1356.6
35°	1471.2	1476.4	1501.8	1553.0	1591.0	1609.4	1588.0	1525.0	1445.4	1421.3
37.5°	1601.1	1597.6	1626.5	1672.0	1703.5	1714.8	1685.5	1610.7	1522.4	1493.9
40°	1736.7	1735.0	1766.5	1810.2	1827.3	1834.3	1791.0	1709.1	1611.2	1580.5
42.5°	1859.6	1858.3	1900.8	1949.3	1969.9	1962.0	1907.3	1813.7	1714.0	1679.0
45°	1958.1	1956.3	2008.4	2076.6	2116.9	2103.7	2030.2	1929.2	1818.1	1781.8
47.5°	2033.7	2034.6	2090.6	2175.0	2245.5	2250.3	2155.8	2046.9	1932.7	1891.6
50°	2088.4	2091.0	2151.0	2244.6	2340.8	2383.3	2284.0	2167.6	2051.2	2004.9
52.5°	2102.0	2106.8	2179.0	2288.8	2402.1	2483.0	2414.3	2283.5	2163.7	2119.5
55°	2029.8	2039.4	2130.9	2285.3	2439.7	2548.6	2528.9	2401.2	2277.0	2231.5
57.5°	1864.0	1877.6	1984.3	2186.0	2431.4	2593.7	2617.7	2514.1	2390.3	2346.5
60°	1631.7	1647.9	1750.3	1970.3	2314.2	2610.3	2680.3	2623.9	2494.4	2452.0
62.5°	1281.3	1302.3	1424.8	1682.9	2066.6	2532.9	2733.7	2723.2	2588.0	2535.1
65°	822.0	844.3	973.3	1278.3	1736.3	2295.8	2750.3	2819.9	2686.9	2612.9
67.5°	495.6	505.7	569.6	774.7	1269.1	1938.4	2609.4	2927.0	2802.4	2710.5
70°	317.2	322.8	360.9	455.0	717.4	1414.3	2260.3	2947.2	2942.3	2810.7
72.5°	215.2	217.0	227.0	269.5	406.0	803.6	1667.2	2668.1	3029.8	2939.7
75°	157.5	167.1	183.3	190.7	230.5	401.6	955.4	1874.5	2553.4	2592.8
77.5°	117.2	117.7	140.0	148.7	164.5	213.9	404.2	1046.4	1585.3	1664.5
80°	99.3	94.1	93.6	119.9	123.8	133.4	180.7	361.3	567.8	344.3
82.5°	82.7	77.0	69.6	93.6	84.4	81.8	78.3	147.0	180.7	88.8
85°	57.7	55.1	52.5	61.2	48.1	41.1	37.6	68.7	76.1	37.6
87.5°	24.9	25.8	26.2	27.1	20.1	14.4	14.4	19.2	19.2	14.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
917.8
923.5
945.8
983.8
1028.5
1072.6
1119.5
1154.9
1183.8
1210.9
1241.5
1273.4
1308.9
1361.8
1424.8
1499.2
1590.6
1687.7
1790.1
1903.8
2018.9
2130.9
2244.2
2356.6
2461.1
2541.2
2622.1
2717.5
2809.8
2925.7
2497.4
1484.7
260.3
75.7
33.2
10.9
0.0

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