

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: P946115

Luminaire Tested: **GALN-SB1D-840-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946115
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-SB1D-840-U-RW
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 4000K, 900mA LIGHTSQUARE WITH 26 LEDS AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10026 lumens
Efficiency: N/A
Efficacy: 126.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

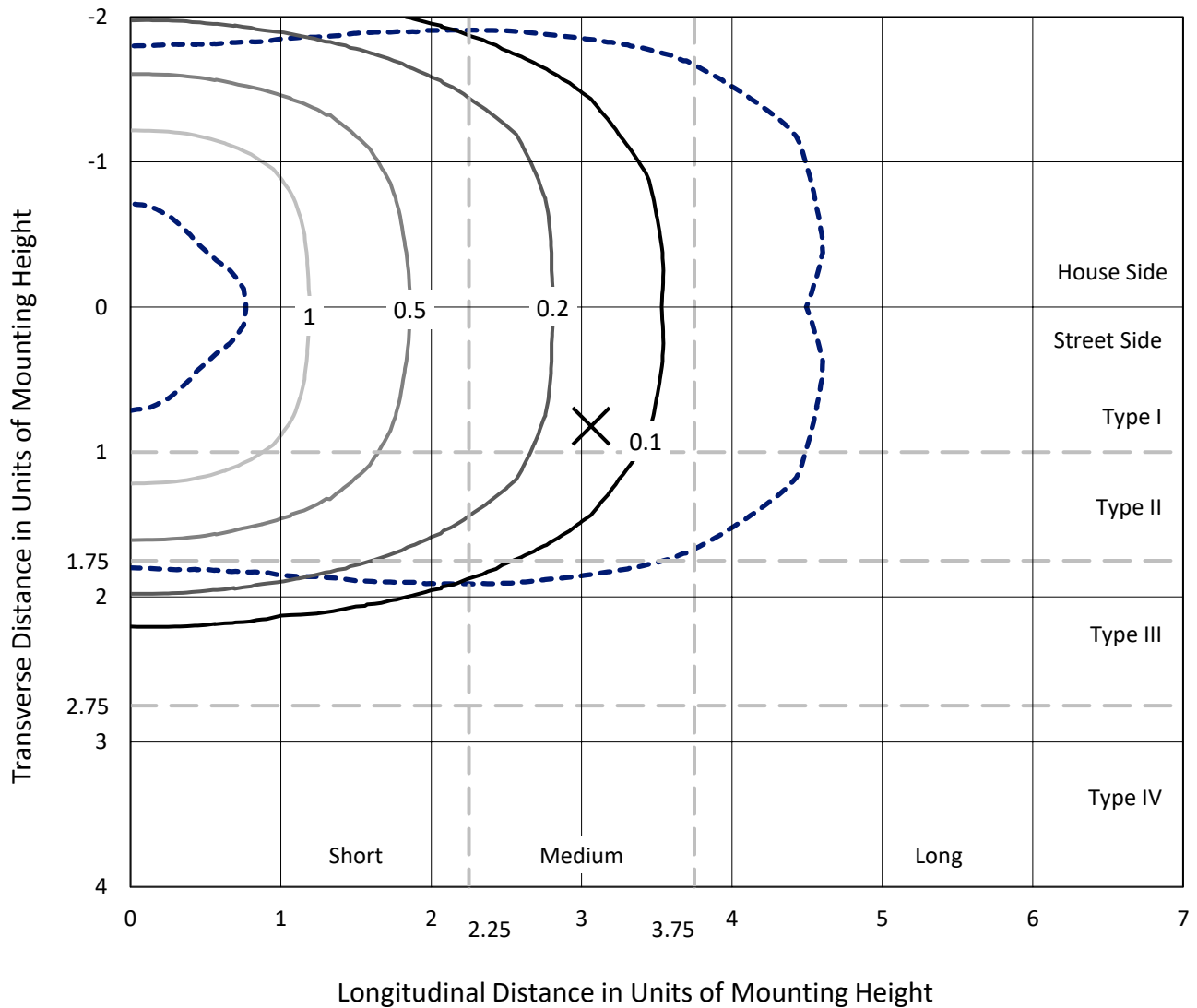
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

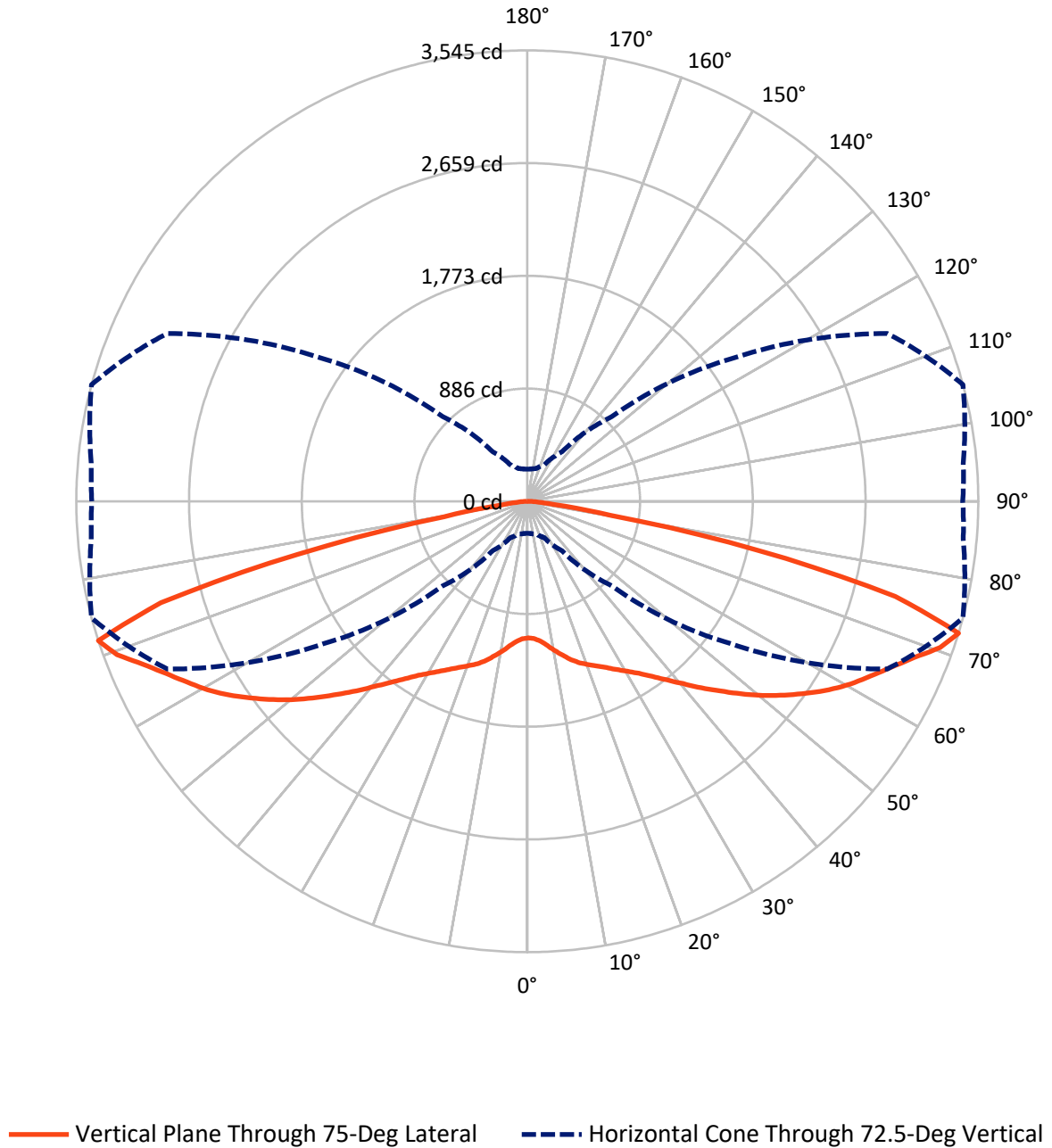
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 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	5013.0	0.0	5013.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5013.0	0.0	5013.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	10026.0	0.0	10026.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.2	1.0
10°-20°	347.0	3.5
20°-30°	670.5	6.7
30°-40°	1132.1	11.3
40°-50°	1795.4	17.9
50°-60°	2403.9	24.0
60°-70°	2287.7	22.8
70°-80°	1193.8	11.9
80°-90°	90.4	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°	10026.0	100.0
0°-180°	10026.0	100.0

Coefficient of Utilization



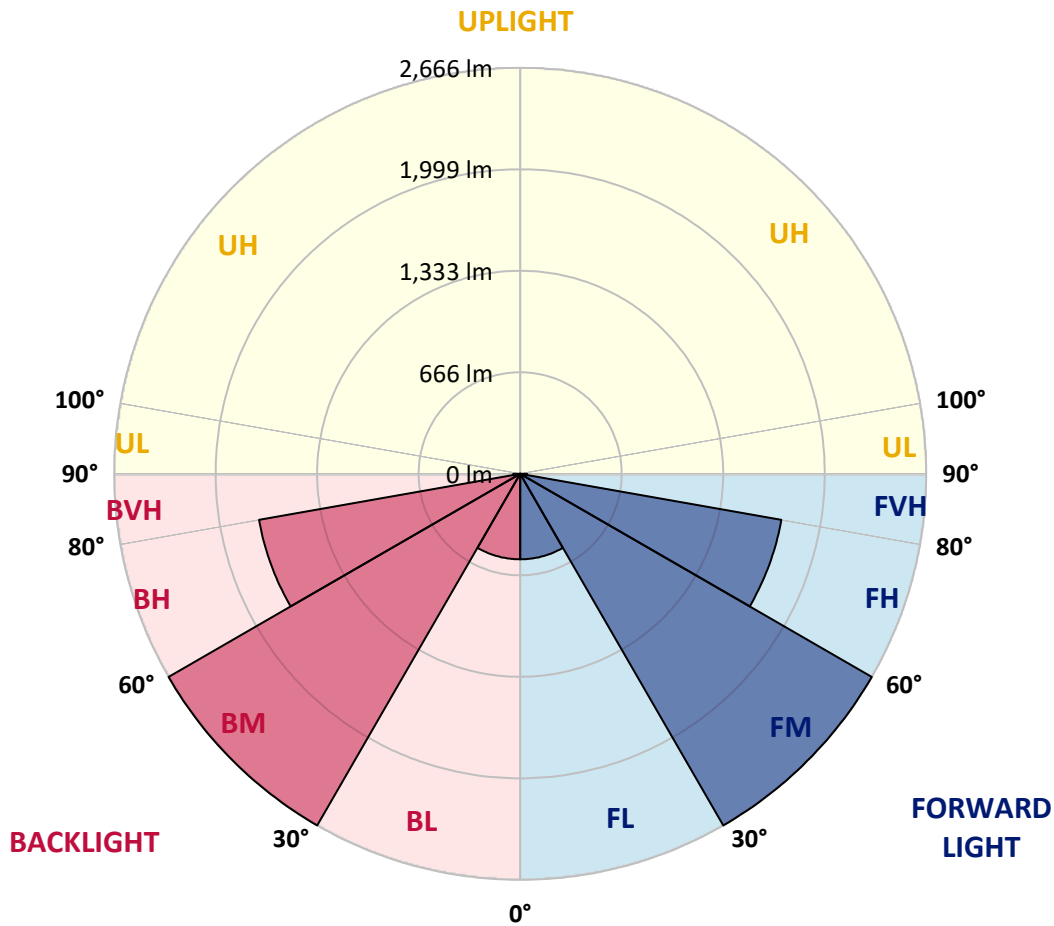
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	561.3	5.6			
FM (30°-60°)	2665.7	26.6			
FH (60°-80°)	1740.8	17.4			G1/1800
FVH (80°-90°)	45.2	0.5			G1/100
BL (0°-30°)	561.3	5.6	B2/1000		
BM (30°-60°)	2665.7	26.6	B3/5000		
BH (60°-80°)	1740.8	17.4	B3/2500		G3/2500
BVH (80°-90°)	45.2	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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1074.0	1074.0	1074.0	1074.0	1074.0	1074.0	1074.0	1074.0	1074.0	1074.0
2.5°	1074.0	1072.9	1074.0	1075.0	1074.5	1074.5	1077.0	1078.6	1081.6	1081.1
5°	1066.8	1066.3	1070.4	1075.0	1078.6	1084.7	1092.4	1098.0	1105.2	1106.7
7.5°	1063.2	1061.7	1068.8	1077.0	1088.3	1103.7	1118.5	1133.9	1146.1	1150.2
10°	1065.8	1066.3	1076.0	1091.4	1109.3	1130.8	1151.8	1177.9	1195.3	1199.4
12.5°	1077.5	1076.5	1092.9	1117.5	1142.0	1169.2	1193.7	1222.4	1241.4	1251.1
15°	1099.0	1097.0	1120.0	1156.4	1192.2	1224.0	1243.9	1271.0	1293.1	1305.3
17.5°	1124.6	1125.7	1155.9	1203.0	1250.1	1285.9	1304.8	1318.7	1335.5	1346.3
20°	1169.7	1171.7	1205.5	1261.3	1315.1	1356.0	1371.4	1366.3	1370.9	1379.1
22.5°	1230.1	1231.1	1269.0	1329.4	1385.7	1430.8	1441.0	1420.0	1407.2	1412.8
25°	1300.2	1306.9	1344.8	1406.7	1464.5	1507.5	1512.1	1480.4	1448.7	1450.2
27.5°	1385.7	1391.9	1430.2	1491.7	1550.5	1587.9	1587.4	1544.9	1498.3	1486.6
30°	1478.4	1485.0	1524.4	1587.9	1642.7	1675.4	1668.3	1617.6	1551.1	1529.0
32.5°	1588.4	1592.5	1632.4	1695.9	1746.6	1772.7	1757.9	1695.4	1612.5	1587.4
35°	1721.5	1727.7	1757.3	1817.2	1861.8	1883.3	1858.2	1784.5	1691.3	1663.2
37.5°	1873.6	1869.5	1903.2	1956.5	1993.3	2006.6	1972.3	1884.8	1781.4	1748.1
40°	2032.2	2030.2	2067.0	2118.2	2138.2	2146.4	2095.7	2000.0	1885.3	1849.5
42.5°	2176.1	2174.5	2224.2	2281.0	2305.1	2295.9	2231.9	2122.3	2005.6	1964.7
45°	2291.3	2289.2	2350.1	2430.0	2477.1	2461.7	2375.7	2257.5	2127.5	2085.0
47.5°	2379.8	2380.8	2446.4	2545.2	2627.6	2633.2	2522.6	2395.2	2261.6	2213.5
50°	2443.8	2446.9	2517.0	2626.6	2739.2	2788.8	2672.6	2536.5	2400.3	2346.0
52.5°	2459.7	2465.3	2549.8	2678.3	2810.8	2905.5	2825.2	2672.1	2531.9	2480.2
55°	2375.2	2386.5	2493.5	2674.2	2854.9	2982.3	2959.3	2809.8	2664.4	2611.2
57.5°	2181.2	2197.1	2322.0	2558.0	2845.1	3035.0	3063.2	2941.9	2797.0	2745.8
60°	1909.4	1928.3	2048.1	2305.6	2707.9	3054.5	3136.4	3070.4	2918.8	2869.2
62.5°	1499.4	1523.9	1667.3	1969.3	2418.2	2963.9	3198.9	3186.6	3028.4	2966.5
65°	961.9	988.0	1139.0	1495.8	2031.7	2686.4	3218.3	3299.7	3144.1	3057.6
67.5°	580.0	591.8	666.5	906.6	1485.0	2268.2	3053.5	3425.1	3279.2	3171.7
70°	371.1	377.8	422.3	532.4	839.5	1655.0	2645.0	3448.7	3443.0	3289.0
72.5°	251.9	253.9	265.7	315.3	475.0	940.4	1950.8	3122.1	3545.4	3440.0
75°	184.3	195.5	214.5	223.2	269.8	469.9	1118.0	2193.5	2988.0	3034.0
77.5°	137.2	137.7	163.8	174.0	192.5	250.3	473.0	1224.5	1855.1	1947.8
80°	116.2	110.1	109.5	140.3	144.9	156.1	211.4	422.8	664.4	402.9
82.5°	96.7	90.1	81.4	109.5	98.8	95.7	91.6	172.0	211.4	103.9
85°	67.6	64.5	61.4	71.7	56.3	48.1	44.0	80.4	89.1	44.0
87.5°	29.2	30.2	30.7	31.7	23.5	16.9	16.9	22.5	22.5	17.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
1074.0
1080.6
1106.7
1151.3
1203.5
1255.2
1309.9
1351.4
1385.2
1416.9
1452.8
1490.1
1531.6
1593.5
1667.3
1754.3
1861.3
1974.9
2094.7
2227.8
2362.4
2493.5
2626.0
2757.6
2879.9
2973.6
3068.3
3179.9
3287.9
3423.6
2922.4
1737.4
304.6
88.6
38.9
12.8
0.0

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