

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: P647253

Luminaire Tested: **GALN-SA2D-835-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647253
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-3)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-835-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7310.1 lumens
Efficiency: N/A
Efficacy: 58.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G0

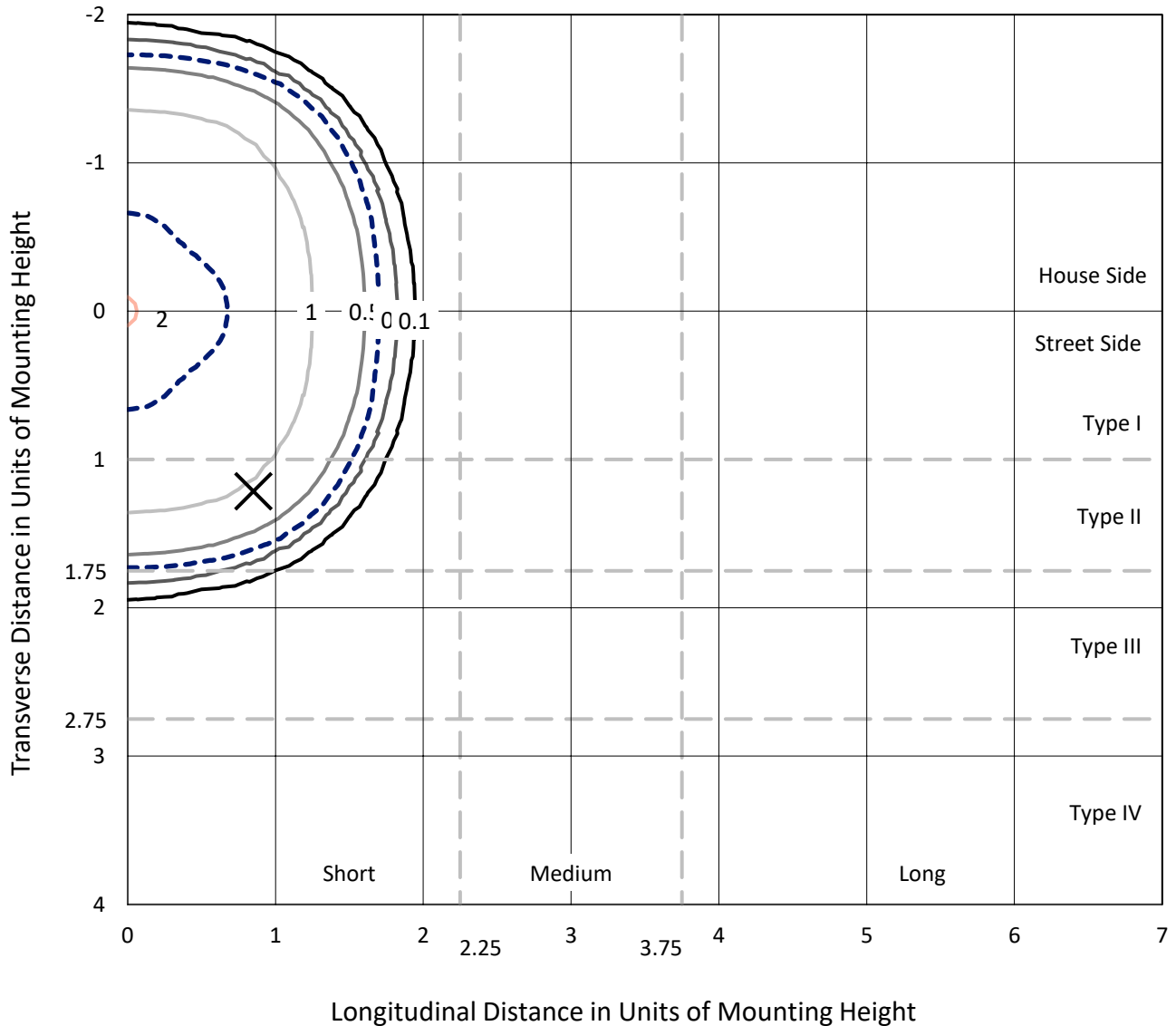
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

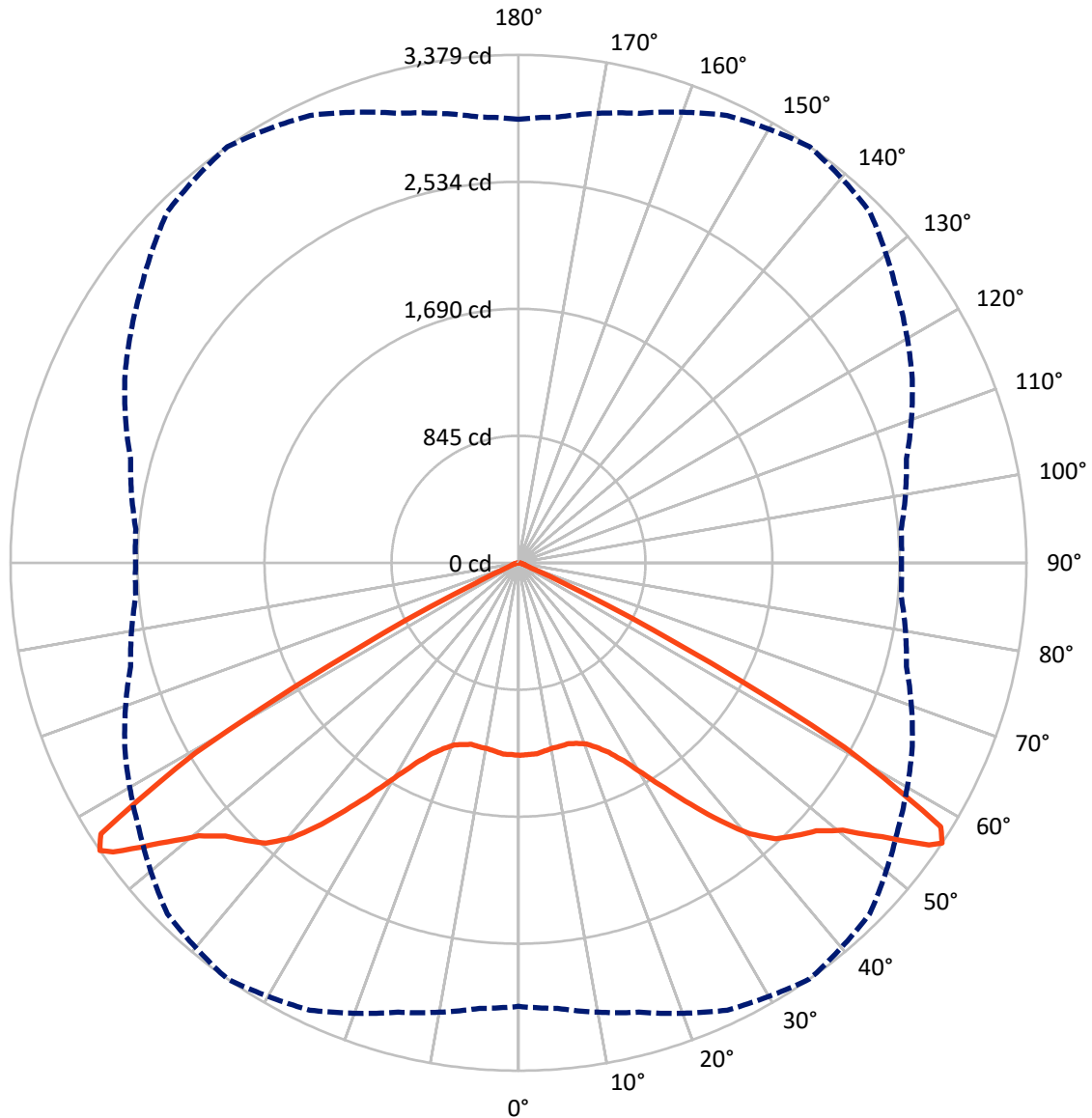
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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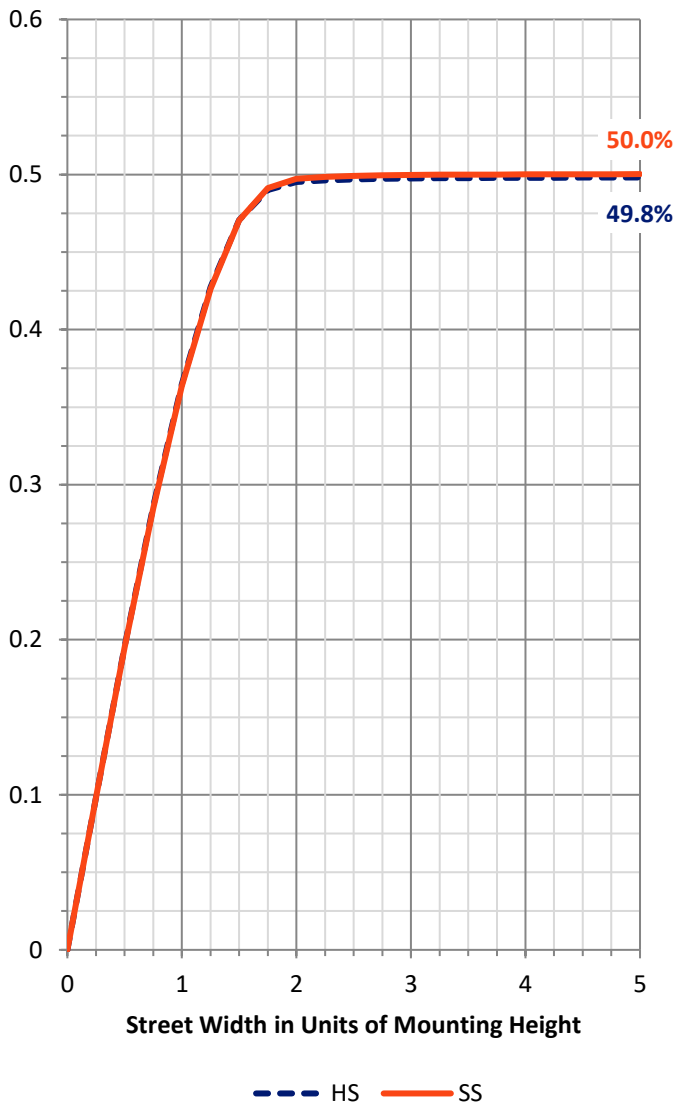
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3655.1	0.0	3655.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3655.1	0.0	3655.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	7310.1	0.0	7310.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.4	1.6
10°-20°	351.5	4.8
20°-30°	636.4	8.7
30°-40°	1180.2	16.1
40°-50°	1937.2	26.5
50°-60°	2495.7	34.1
60°-70°	550.0	7.5
70°-80°	31.9	0.4
80°-90°	6.7	0.1
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°	7310.1	100.0
0°-180°	7310.1	100.0

Coefficient of Utilization

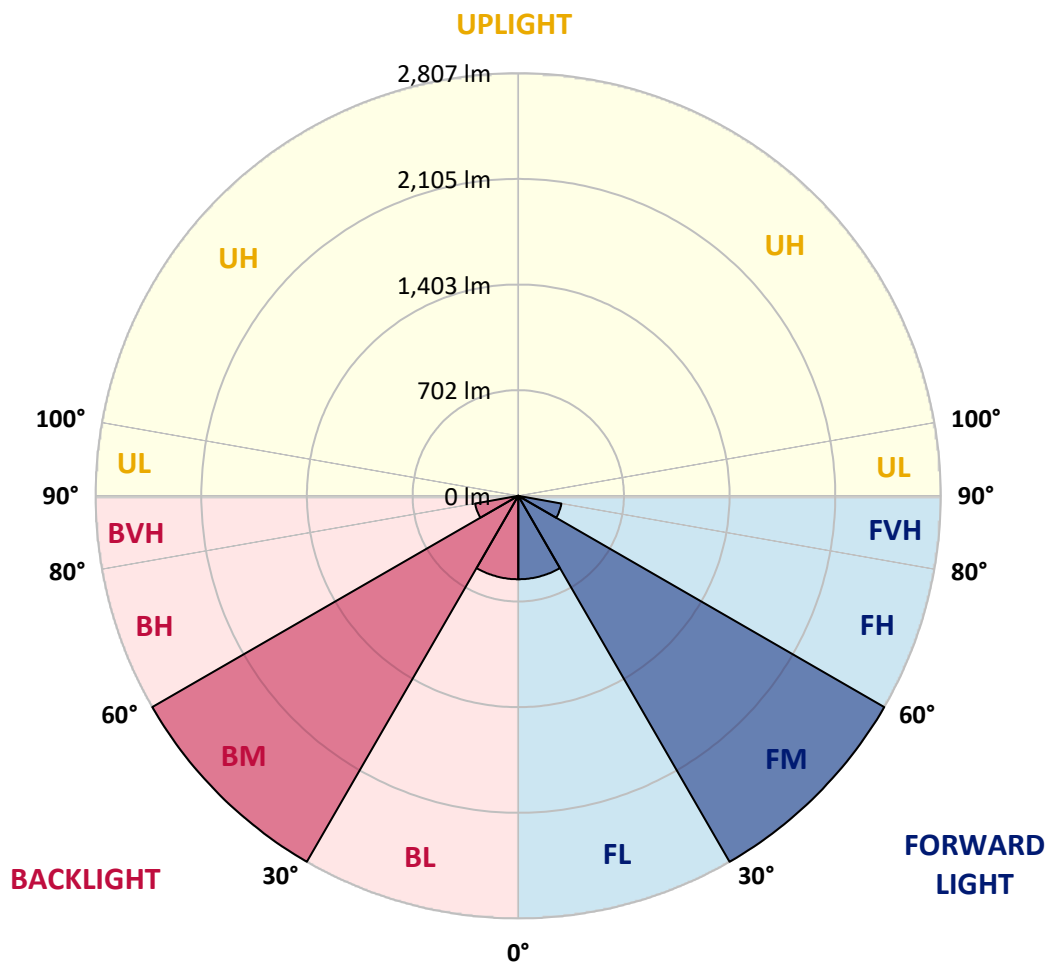


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	554.1	7.6			
FM (30°-60°)	2806.6	38.4			
FH (60°-80°)	291.0	4.0			G0/660
FVH (80°-90°)	3.4	0.0			G0/10
BL (0°-30°)	554.1	7.6	B2/1000		
BM (30°-60°)	2806.6	38.4	B3/5000		
BH (60°-80°)	291.0	4.0	B1/500		G0/660
BVH (80°-90°)	3.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G0
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1280.9	1280.9	1280.9	1280.9	1280.9	1280.9	1280.9	1280.9	1280.9	1280.9	1280.9
2.5°	1283.6	1283.6	1284.8	1286.2	1276.9	1272.9	1274.3	1271.6	1270.3	1274.3	1274.3
5°	1279.6	1279.6	1275.6	1276.9	1276.9	1265.0	1265.0	1267.7	1267.7	1259.7	1257.0
7.5°	1268.9	1266.3	1261.0	1267.7	1263.7	1263.7	1254.4	1247.8	1245.1	1250.5	1245.1
10°	1246.5	1247.8	1253.0	1255.7	1253.0	1261.0	1245.1	1235.9	1226.6	1222.6	1222.6
12.5°	1235.9	1243.8	1235.9	1242.5	1251.8	1245.1	1235.9	1229.2	1216.0	1210.7	1210.7
15°	1234.6	1239.8	1242.5	1251.8	1247.8	1250.5	1231.9	1223.9	1204.0	1194.8	1190.8
17.5°	1233.2	1239.8	1243.8	1261.0	1263.7	1265.0	1250.5	1226.6	1209.3	1200.1	1190.8
20°	1247.8	1250.5	1258.4	1275.6	1286.2	1304.7	1278.2	1253.0	1216.0	1205.4	1201.4
22.5°	1266.3	1279.6	1287.5	1306.0	1333.8	1349.7	1315.4	1283.6	1245.1	1231.9	1216.0
25°	1325.9	1323.3	1336.5	1374.9	1397.4	1409.4	1381.5	1335.2	1284.8	1268.9	1271.6
27.5°	1400.1	1402.7	1414.6	1457.1	1490.2	1508.7	1475.6	1414.6	1365.6	1339.2	1336.5
30°	1496.8	1494.1	1507.4	1564.4	1623.9	1651.7	1593.5	1522.0	1474.3	1439.9	1447.8
32.5°	1598.8	1600.1	1637.2	1688.9	1785.6	1839.9	1745.9	1658.4	1586.8	1563.0	1551.1
35°	1749.8	1756.4	1785.6	1865.0	1972.3	2042.5	1939.2	1834.6	1752.4	1708.7	1714.1
37.5°	1936.6	1929.9	1979.0	2065.1	2177.6	2229.3	2141.9	2022.6	1939.2	1910.1	1928.6
40°	2135.2	2141.9	2167.0	2245.2	2371.0	2405.5	2275.6	2210.7	2137.9	2123.3	2145.8
42.5°	2334.0	2330.0	2348.5	2418.7	2510.1	2486.3	2409.4	2371.0	2319.4	2290.2	2320.7
45°	2479.7	2473.0	2507.5	2555.2	2588.3	2543.3	2508.8	2495.6	2469.0	2437.2	2465.0
47.5°	2621.4	2616.1	2649.2	2662.4	2665.1	2605.5	2612.1	2636.0	2569.7	2503.5	2535.3
50°	2741.9	2732.7	2773.7	2802.8	2796.2	2700.9	2724.7	2700.9	2597.5	2519.4	2507.5
52.5°	2943.2	2947.2	2990.9	3043.9	3028.0	2948.5	2914.1	2805.5	2673.0	2602.8	2561.7
55°	3070.4	3050.6	3126.0	3294.2	3312.8	3230.7	3078.4	2918.1	2719.4	2633.3	2622.7
56°	2951.2	2976.3	3095.6	3283.7	3379.0	3303.6	3082.4	2890.3	2671.7	2555.2	2547.2
57.5°	2647.9	2634.6	2796.2	3053.2	3312.8	3281.0	2973.8	2691.6	2437.2	2306.1	2290.2
60°	1647.8	1686.2	1827.9	2145.8	2492.9	2508.8	2204.1	1961.7	1665.0	1548.5	1576.3
62.5°	645.1	612.0	700.7	937.8	1176.2	1229.2	1114.0	925.9	760.3	645.1	637.1
65°	149.7	145.7	164.3	226.5	316.6	366.9	348.4	250.3	184.1	174.8	161.6
67.5°	84.8	84.8	80.8	80.8	88.7	94.0	90.0	88.7	92.7	96.7	95.4
70°	59.6	58.3	55.7	56.9	54.3	54.3	58.3	64.9	70.2	70.2	71.6
72.5°	35.8	35.8	35.8	39.8	39.8	39.8	43.7	49.0	50.3	49.0	47.7
75°	15.9	15.9	18.6	22.6	25.1	26.5	30.5	33.1	35.8	33.1	30.5
77.5°	4.0	4.0	6.7	9.2	11.9	14.6	19.9	23.9	25.1	23.9	19.9
80°	1.3	1.3	2.7	6.7	11.9	14.6	19.9	21.2	22.6	19.9	15.9
82.5°	1.3	1.3	2.7	6.7	9.2	11.9	15.9	18.6	19.9	17.2	15.9
85°	0.0	1.3	2.7	5.3	8.0	10.6	10.6	8.0	6.7	4.0	5.3
87.5°	0.0	0.0	1.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)