

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: P651213

Luminaire Tested: **GALN-SA2D-840-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651213
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-840-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 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: 7851.6 lumens
Efficiency: N/A
Efficacy: 62.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G0

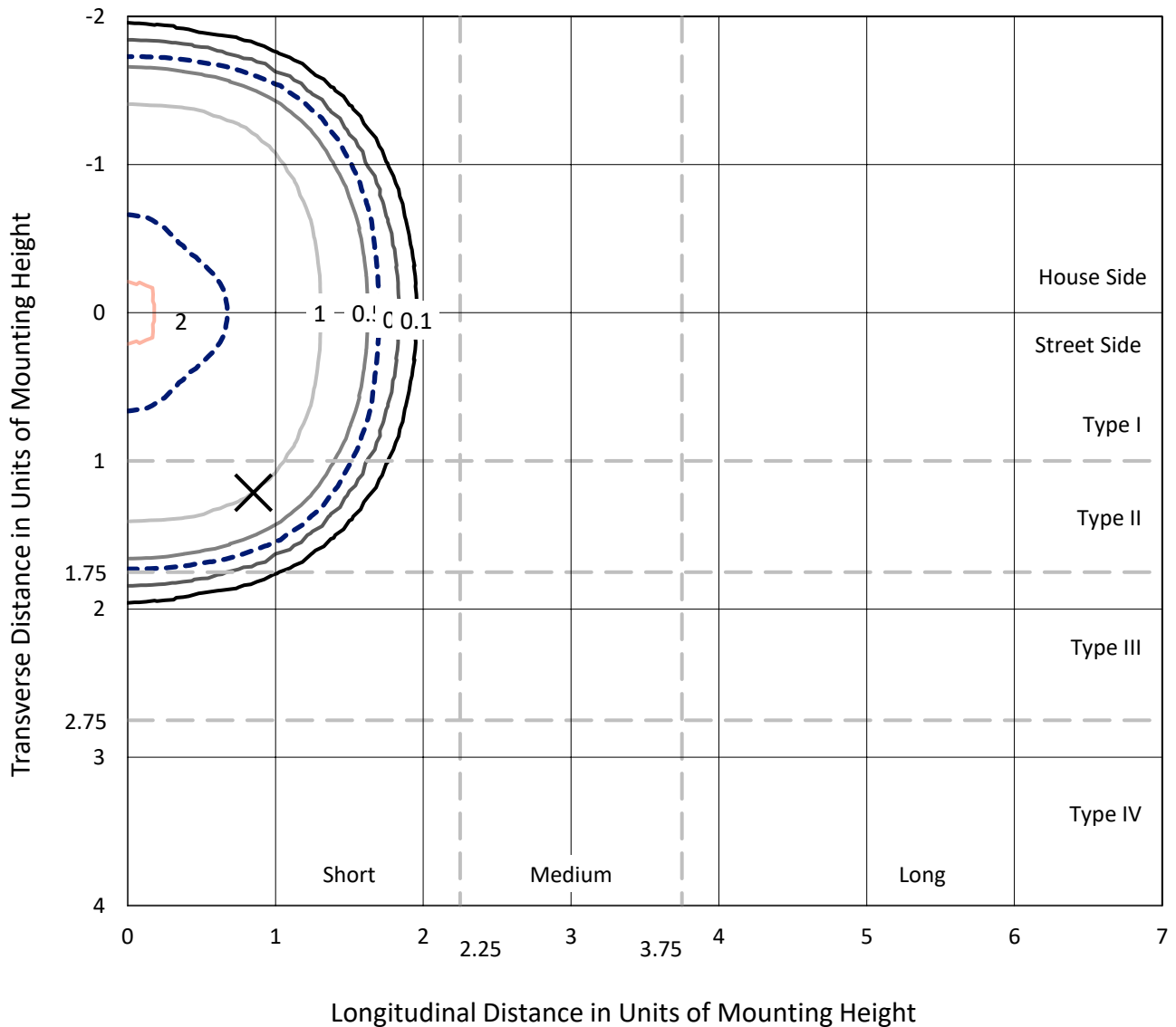
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

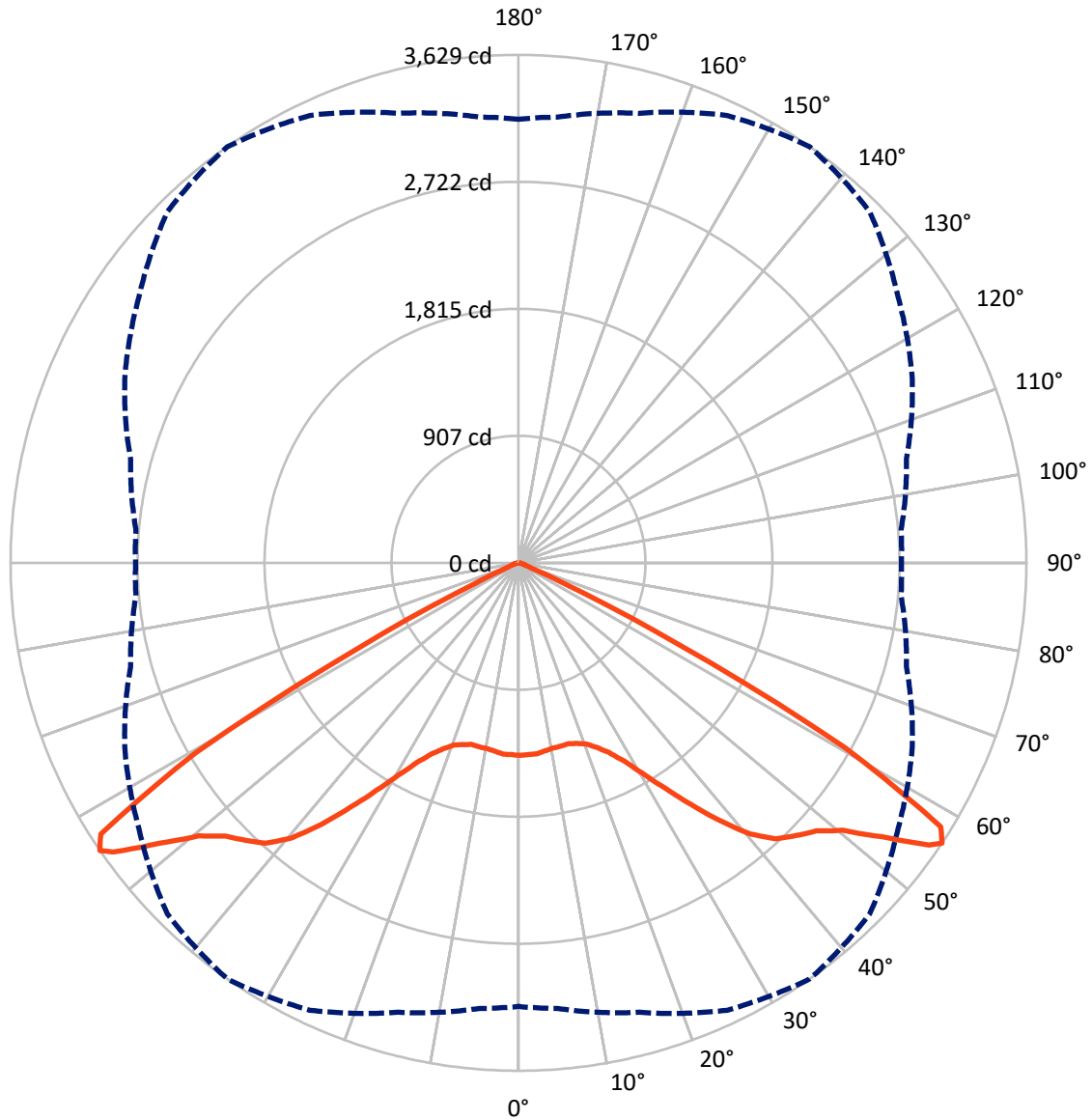
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 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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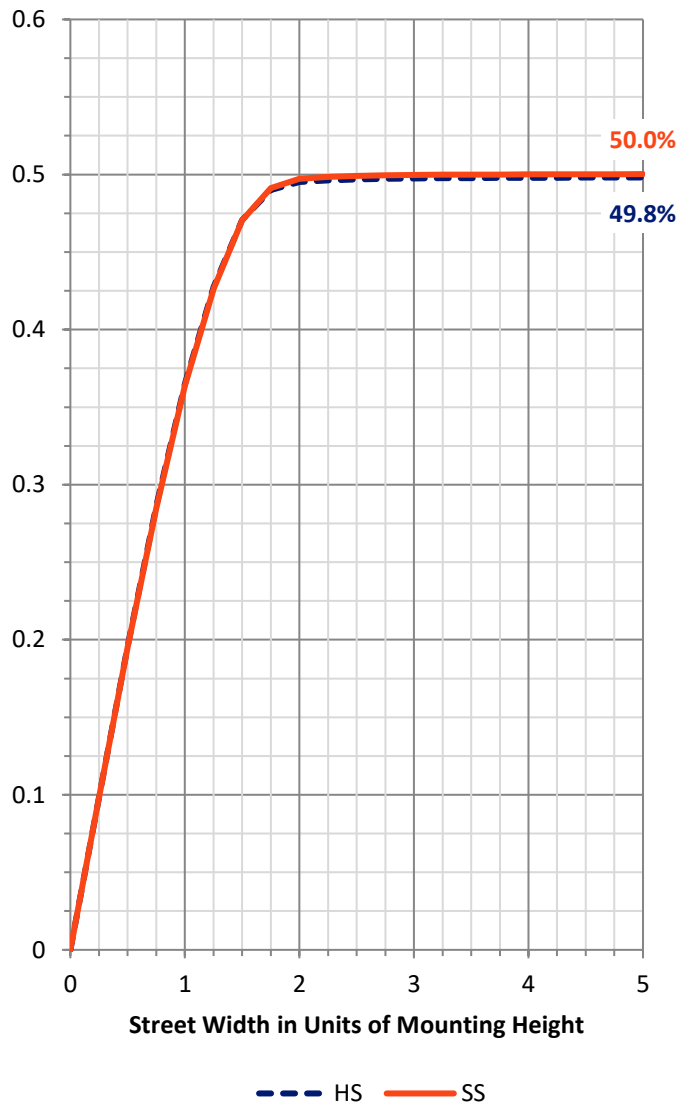
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3925.8	0.0	3925.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3925.8	0.0	3925.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	7851.6	0.0	7851.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.3	1.6
10°-20°	377.5	4.8
20°-30°	683.6	8.7
30°-40°	1267.6	16.1
40°-50°	2080.7	26.5
50°-60°	2680.6	34.1
60°-70°	590.8	7.5
70°-80°	34.3	0.4
80°-90°	7.2	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°	7851.6	100.0
0°-180°	7851.6	100.0

Coefficient of Utilization

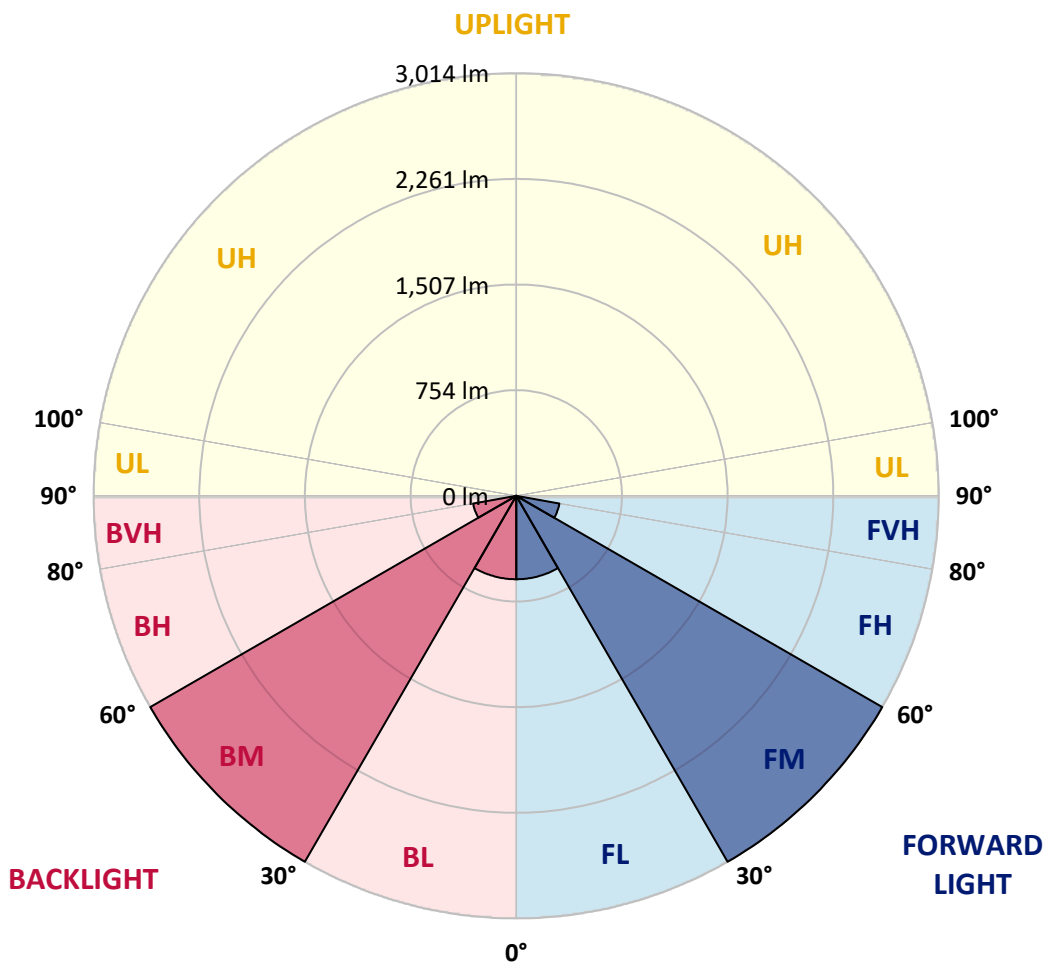


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	595.2	7.6			
FM (30°-60°)	3014.5	38.4			
FH (60°-80°)	312.5	4.0			G0/660
FVH (80°-90°)	3.6	0.0			G0/10
BL (0°-30°)	595.2	7.6	B2/1000		
BM (30°-60°)	3014.5	38.4	B3/5000		
BH (60°-80°)	312.5	4.0	B1/500		G0/660
BVH (80°-90°)	3.6	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°	1375.8	1375.8	1375.8	1375.8	1375.8	1375.8	1375.8	1375.8	1375.8	1375.8	1375.8
2.5°	1378.7	1378.7	1380.0	1381.4	1371.5	1367.2	1368.6	1365.8	1364.4	1368.6	1368.6
5°	1374.4	1374.4	1370.1	1371.5	1371.5	1358.7	1358.7	1361.6	1361.6	1353.0	1350.1
7.5°	1362.9	1360.1	1354.4	1361.6	1357.3	1357.3	1347.3	1340.2	1337.4	1343.1	1337.4
10°	1338.8	1340.2	1345.9	1348.7	1345.9	1354.4	1337.4	1327.4	1317.4	1313.1	1313.1
12.5°	1327.4	1335.9	1327.4	1334.5	1344.5	1337.4	1327.4	1320.3	1306.1	1300.4	1300.4
15°	1326.0	1331.6	1334.5	1344.5	1340.2	1343.1	1323.1	1314.6	1293.2	1283.3	1279.0
17.5°	1324.6	1331.6	1335.9	1354.4	1357.3	1358.7	1343.1	1317.4	1298.9	1289.0	1279.0
20°	1340.2	1343.1	1351.6	1370.1	1381.4	1401.4	1372.9	1345.9	1306.1	1294.6	1290.4
22.5°	1360.1	1374.4	1382.9	1402.8	1432.6	1449.7	1412.8	1378.7	1337.4	1323.1	1306.1
25°	1424.1	1421.3	1435.5	1476.8	1500.9	1513.8	1483.9	1434.1	1380.0	1362.9	1365.8
27.5°	1503.8	1506.7	1519.4	1565.0	1600.6	1620.4	1584.9	1519.4	1466.8	1438.4	1435.5
30°	1607.7	1604.8	1619.0	1680.2	1744.2	1774.1	1711.5	1634.7	1583.5	1546.5	1555.0
32.5°	1717.2	1718.7	1758.4	1814.0	1917.8	1976.2	1875.2	1781.2	1704.4	1678.8	1666.0
35°	1879.4	1886.5	1917.8	2003.2	2118.4	2193.8	2082.8	1970.5	1882.2	1835.3	1841.0
37.5°	2080.0	2072.9	2125.5	2218.1	2338.9	2394.4	2300.6	2172.5	2082.8	2051.5	2071.5
40°	2293.4	2300.6	2327.6	2411.5	2546.6	2583.6	2444.2	2374.5	2296.3	2280.6	2304.8
42.5°	2506.9	2502.6	2522.5	2597.8	2696.1	2670.4	2587.9	2546.6	2491.2	2459.8	2492.6
45°	2663.4	2656.2	2693.2	2744.4	2780.0	2731.7	2694.6	2680.4	2651.9	2617.8	2647.6
47.5°	2815.6	2809.9	2845.4	2859.7	2862.5	2798.5	2805.6	2831.2	2760.1	2688.9	2723.1
50°	2945.0	2935.1	2979.2	3010.4	3003.4	2900.9	2926.5	2900.9	2789.9	2706.0	2693.2
52.5°	3161.2	3165.5	3212.5	3269.4	3252.3	3167.0	3129.9	3013.3	2871.0	2795.7	2751.5
55°	3297.8	3276.5	3357.6	3538.3	3558.2	3470.0	3306.4	3134.2	2920.8	2828.4	2817.0
56°	3169.8	3196.8	3324.9	3526.9	3629.3	3548.3	3310.7	3104.4	2869.6	2744.4	2735.9
57.5°	2844.0	2829.8	3003.4	3279.4	3558.2	3524.0	3194.0	2890.9	2617.8	2476.9	2459.8
60°	1769.9	1811.1	1963.3	2304.8	2677.6	2694.6	2367.4	2107.0	1788.4	1663.2	1693.0
62.5°	692.9	657.3	752.6	1007.3	1263.4	1320.3	1196.5	994.5	816.6	692.9	684.3
65°	160.8	156.5	176.4	243.3	340.0	394.1	374.2	268.9	197.7	187.8	173.6
67.5°	91.1	91.1	86.8	86.8	95.3	101.0	96.7	95.3	99.6	103.9	102.4
70°	64.0	62.6	59.8	61.1	58.4	58.4	62.6	69.7	75.4	75.4	76.9
72.5°	38.4	38.4	38.4	42.7	42.7	42.7	46.9	52.6	54.1	52.6	51.2
75°	17.1	17.1	19.9	24.2	27.0	28.4	32.7	35.6	38.4	35.6	32.7
77.5°	4.3	4.3	7.1	9.9	12.8	15.6	21.4	25.7	27.0	25.7	21.4
80°	1.4	1.4	2.9	7.1	12.8	15.6	21.4	22.8	24.2	21.4	17.1
82.5°	1.4	1.4	2.9	7.1	9.9	12.8	17.1	19.9	21.4	18.5	17.1
85°	0.0	1.4	2.9	5.7	8.6	11.4	11.4	8.6	7.1	4.3	5.7
87.5°	0.0	0.0	1.4	1.4	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)