

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: P651219

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651219
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-1)
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-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6824.7 lumens
Efficiency: N/A
Efficacy: 54.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G0

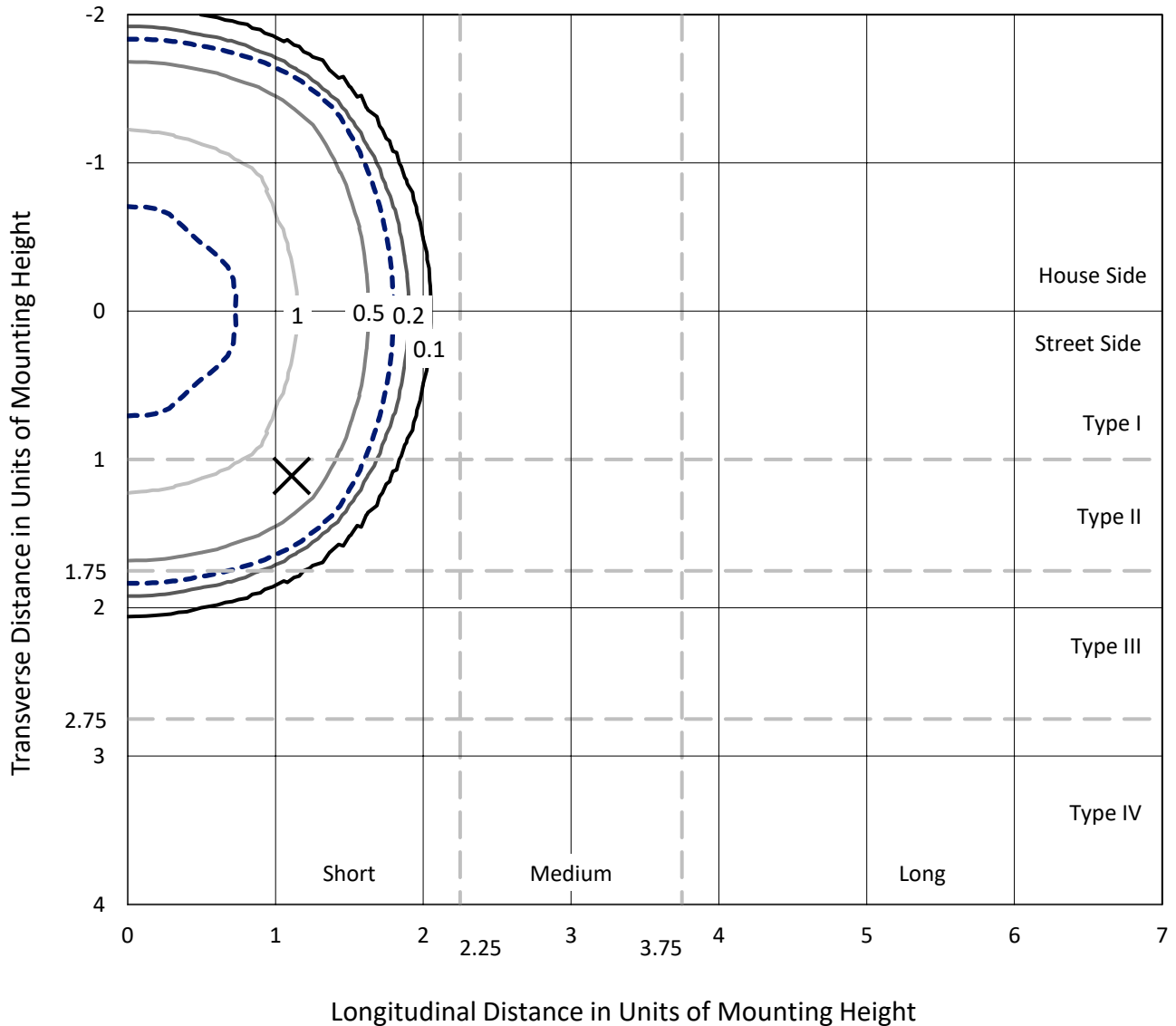
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

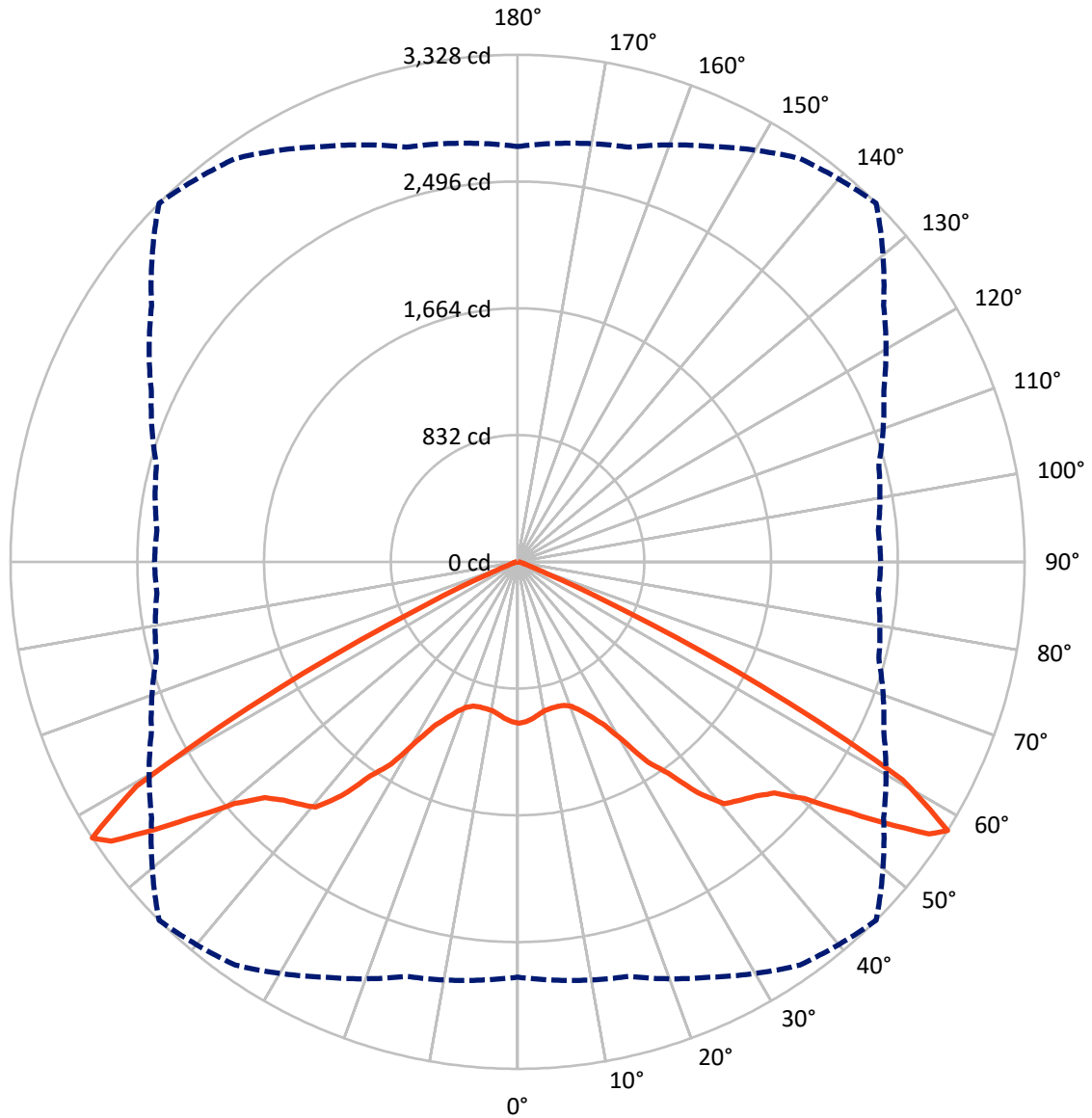
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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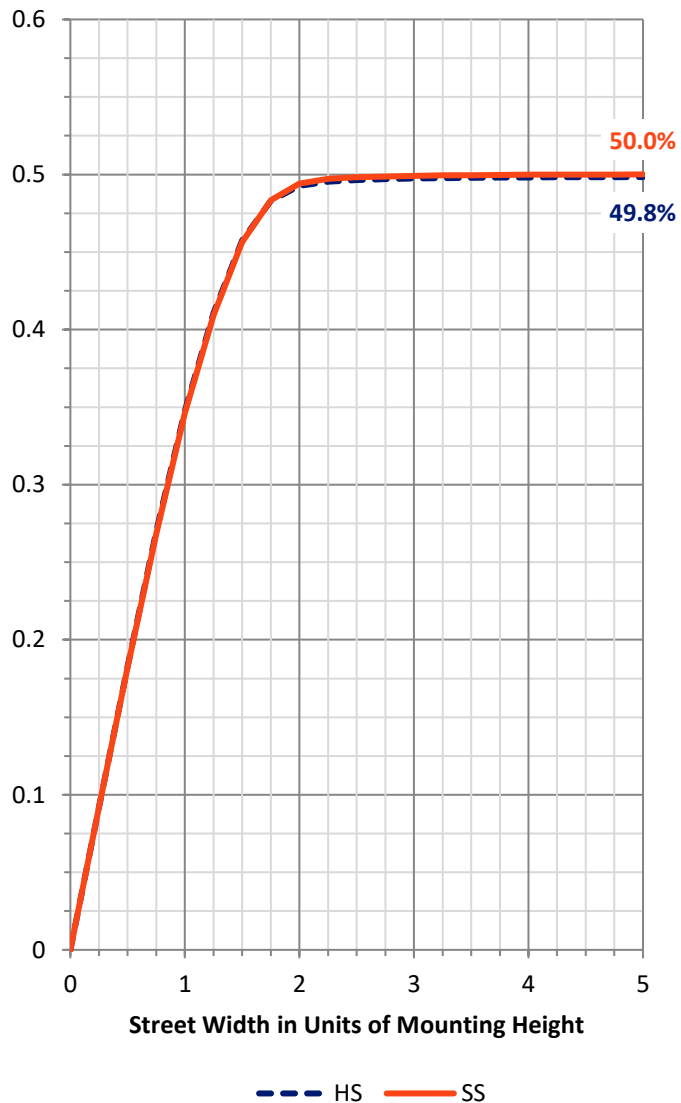
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3412.4	0.0	3412.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3412.4	0.0	3412.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	6824.7	0.0	6824.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.3	1.4
10°-20°	281.2	4.1
20°-30°	519.0	7.6
30°-40°	1020.7	15.0
40°-50°	1662.5	24.4
50°-60°	2370.9	34.7
60°-70°	820.9	12.0
70°-80°	44.0	0.6
80°-90°	8.3	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°	6824.7	100.0
0°-180°	6824.7	100.0

Coefficient of Utilization

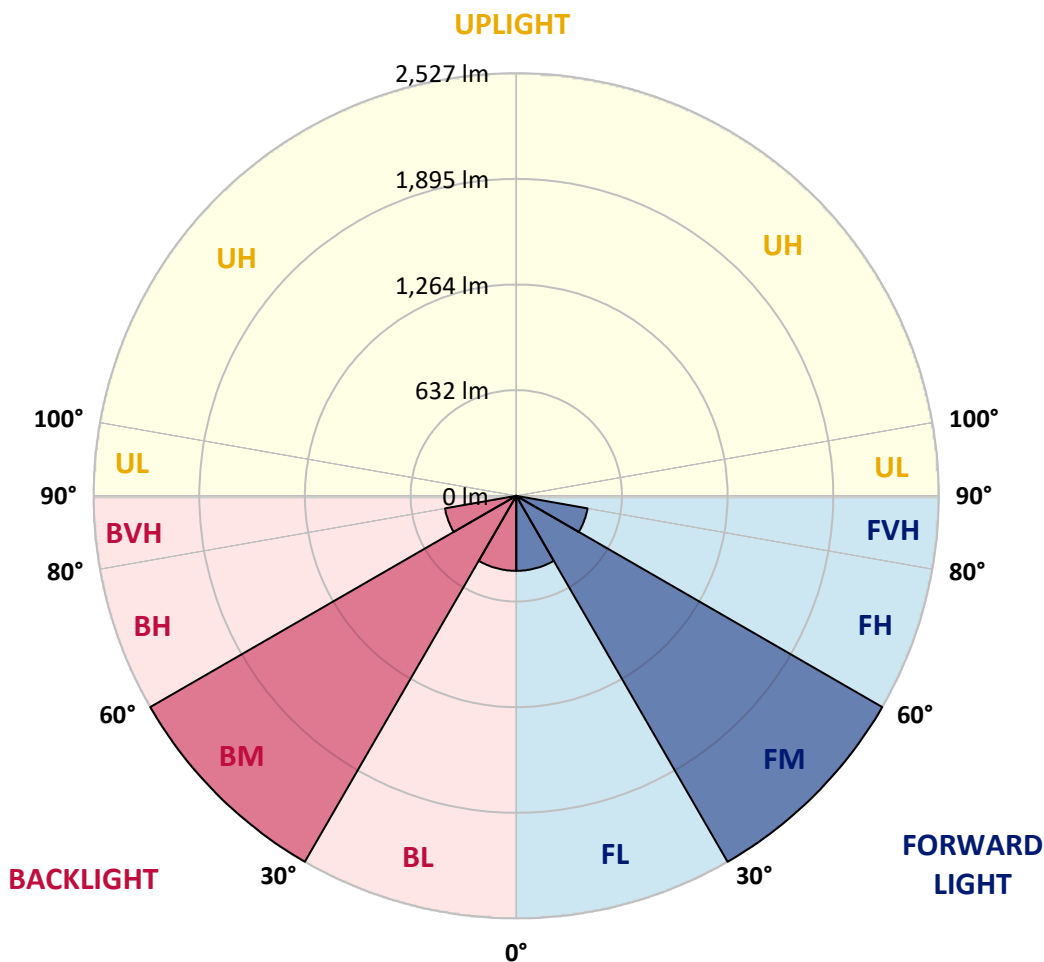


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	448.7	6.6			
FM (30°-60°)	2527.0	37.0			
FH (60°-80°)	432.4	6.3			G0/660
FVH (80°-90°)	4.1	0.1			G0/10
BL (0°-30°)	448.7	6.6	B1/500		
BM (30°-60°)	2527.0	37.0	B3/5000		
BH (60°-80°)	432.4	6.3	B1/500		G0/660
BVH (80°-90°)	4.1	0.1			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°	1058.6	1058.6	1058.6	1058.6	1058.6	1058.6	1058.6	1058.6	1058.6	1058.6	1058.6
2.5°	1055.7	1061.4	1054.3	1051.5	1050.1	1050.1	1045.8	1045.8	1044.4	1045.8	1040.1
5°	1038.6	1044.4	1044.4	1042.9	1034.4	1033.0	1028.7	1025.9	1027.3	1021.6	1025.9
7.5°	1021.6	1025.9	1020.1	1018.8	1015.9	1010.2	1008.8	996.0	997.4	997.4	1000.3
10°	1018.8	1017.4	1008.8	1001.6	993.1	991.7	987.4	984.6	984.6	983.2	987.4
12.5°	1018.8	1011.6	1010.2	994.6	980.4	986.0	974.6	967.5	977.5	980.4	986.0
15°	1017.4	1024.4	1000.3	993.1	983.2	984.6	974.6	967.5	973.2	976.1	980.4
17.5°	1025.9	1021.6	1014.5	1000.3	996.0	990.3	977.5	971.8	971.8	978.9	980.4
20°	1048.6	1037.2	1023.0	1015.9	1020.1	1013.1	997.4	976.1	981.8	987.4	991.7
22.5°	1070.0	1061.4	1051.5	1047.2	1071.3	1060.0	1033.0	1008.8	1000.3	1010.2	1017.4
25°	1111.2	1111.2	1092.7	1098.4	1125.4	1126.9	1095.6	1052.9	1047.2	1051.5	1054.3
27.5°	1195.1	1199.4	1183.8	1189.5	1200.9	1210.8	1183.8	1148.2	1135.4	1134.0	1138.3
30°	1286.2	1294.8	1293.4	1317.5	1350.2	1355.9	1316.1	1257.8	1219.4	1212.2	1217.9
32.5°	1405.7	1410.0	1407.2	1435.7	1523.8	1565.1	1461.2	1378.7	1327.5	1340.3	1327.5
35°	1630.5	1626.3	1595.0	1600.7	1673.3	1703.1	1603.5	1550.9	1526.7	1552.3	1546.6
37.5°	1824.0	1808.4	1782.8	1819.8	1895.2	1922.3	1818.4	1725.9	1681.7	1724.5	1743.0
40°	1987.7	1947.8	1912.3	1949.3	2050.3	2087.3	1935.1	1859.6	1842.5	1873.8	1913.7
42.5°	2125.7	2100.1	2053.1	2056.0	2122.9	2139.9	2017.6	1973.5	1956.4	2006.2	2026.1
45°	2223.9	2199.7	2155.6	2152.7	2203.9	2192.6	2083.0	2053.1	2063.1	2095.9	2105.8
47.5°	2273.6	2286.5	2260.9	2268.0	2295.0	2268.0	2181.2	2181.2	2158.4	2178.4	2168.4
50°	2417.4	2377.5	2410.3	2410.3	2438.7	2441.6	2354.8	2323.5	2262.3	2228.1	2228.1
52.5°	2585.3	2588.1	2601.0	2647.9	2696.2	2737.5	2613.7	2480.0	2377.5	2333.4	2327.7
55°	2723.3	2751.8	2803.0	2891.2	3030.6	3087.6	2874.1	2635.1	2509.9	2441.6	2427.4
56°	2798.7	2771.7	2859.9	2980.8	3162.9	3236.9	2916.8	2666.4	2528.4	2451.5	2450.1
57.5°	2726.1	2756.0	2817.2	3007.8	3231.2	3328.0	2932.5	2652.2	2454.4	2376.2	2383.2
60°	2152.7	2181.2	2263.7	2477.2	2827.2	2902.5	2481.5	2186.9	2010.5	1898.1	1899.5
62.5°	1217.9	1239.3	1303.3	1501.1	1718.8	1791.3	1546.6	1350.2	1227.9	1165.3	1145.4
65°	448.2	439.7	449.6	550.6	684.4	745.5	643.1	543.5	479.5	456.7	448.2
67.5°	167.9	155.1	145.2	155.1	194.9	206.3	189.2	157.9	148.0	152.2	155.1
70°	103.9	98.1	78.3	74.0	72.6	71.1	75.4	79.6	91.1	106.7	109.6
72.5°	72.6	68.3	55.5	52.6	49.8	48.4	55.5	61.1	71.1	82.5	83.9
75°	28.4	29.9	28.4	31.3	32.7	34.1	39.9	44.1	48.4	48.4	46.9
77.5°	5.7	5.7	8.6	11.4	14.2	18.5	27.0	31.3	32.7	31.3	27.0
80°	0.0	0.0	2.9	5.7	11.4	15.6	24.2	27.0	29.9	27.0	21.4
82.5°	0.0	0.0	2.9	7.1	11.4	14.2	22.8	28.4	32.7	29.9	22.8
85°	0.0	0.0	2.9	5.7	8.6	9.9	9.9	7.1	7.1	4.3	2.9
87.5°	0.0	0.0	0.0	0.0	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)