

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: P647268

Luminaire Tested: **GALN-SA2D-835-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647268
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-835-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12567.1 lumens
Efficiency: N/A
Efficacy: 100.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

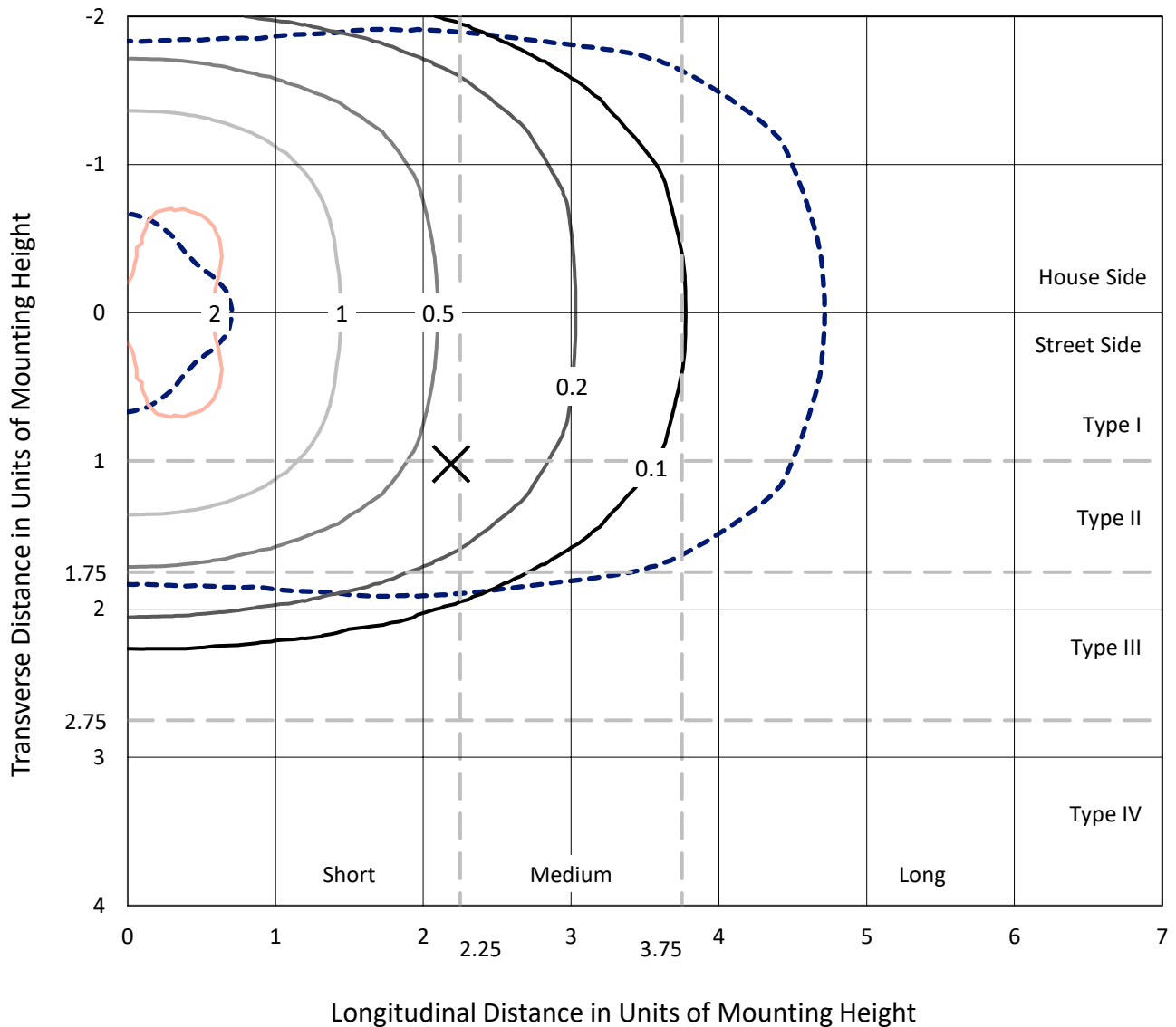
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

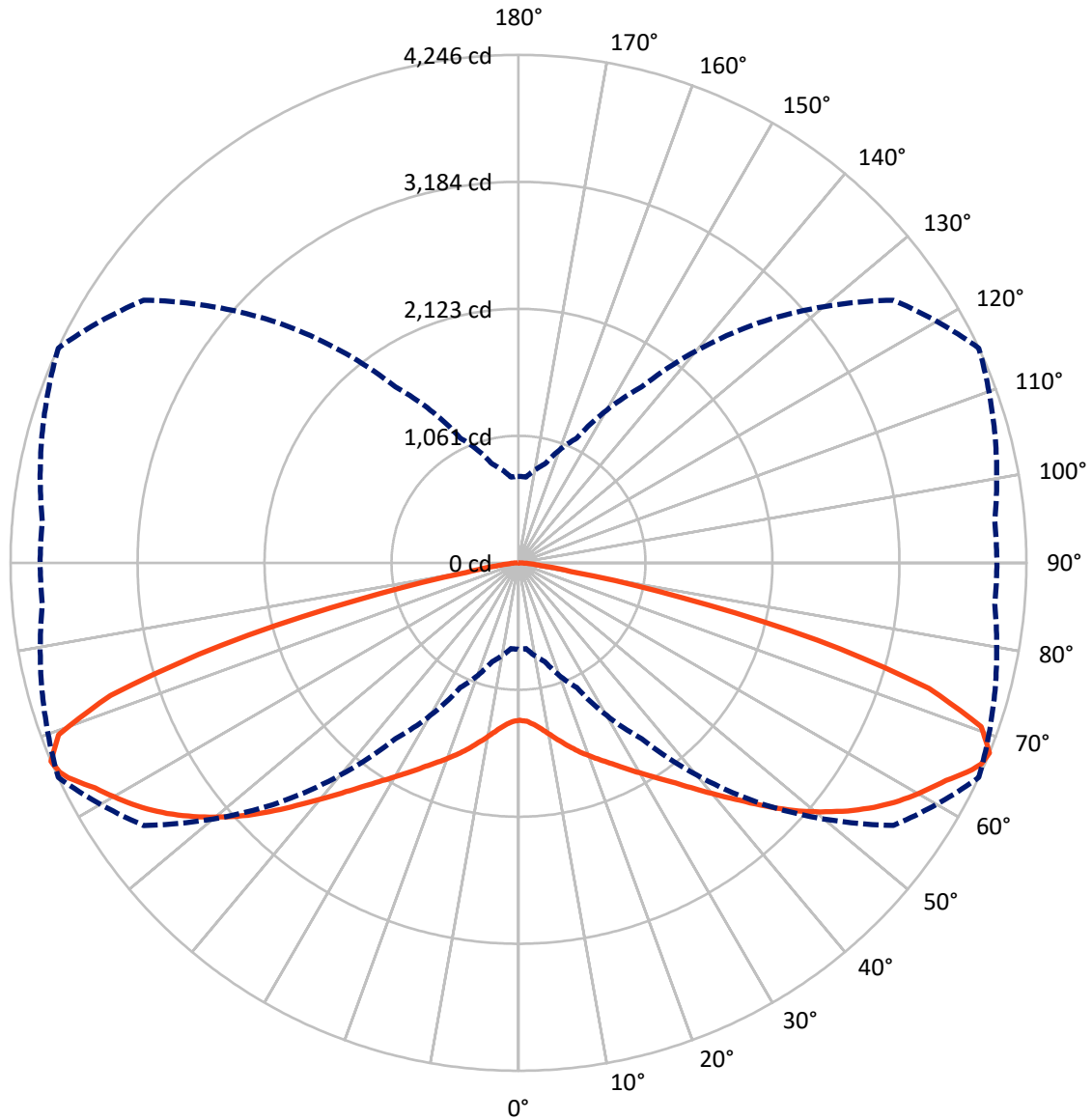
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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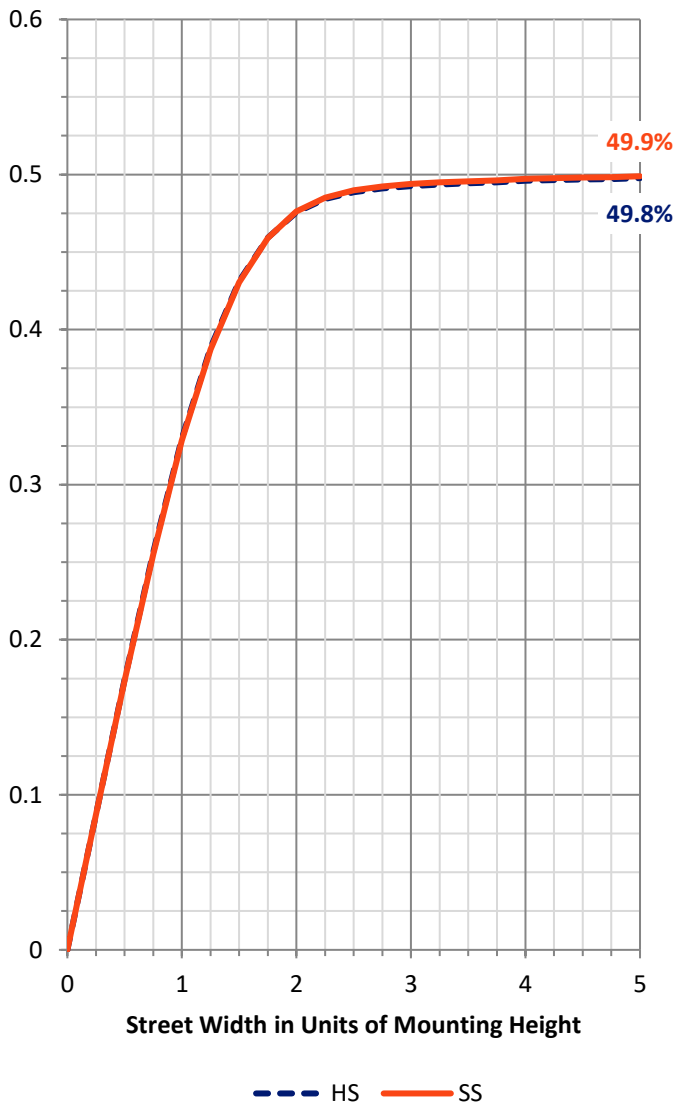
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6283.6	0.0	6283.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6283.6	0.0	6283.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	12567.1	0.0	12567.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.8	1.0
10°-20°	434.5	3.5
20°-30°	849.9	6.8
30°-40°	1445.6	11.5
40°-50°	2288.0	18.2
50°-60°	3033.8	24.1
60°-70°	2861.8	22.8
70°-80°	1414.7	11.3
80°-90°	109.0	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°	12567.1	100.0
0°-180°	12567.1	100.0

Coefficient of Utilization



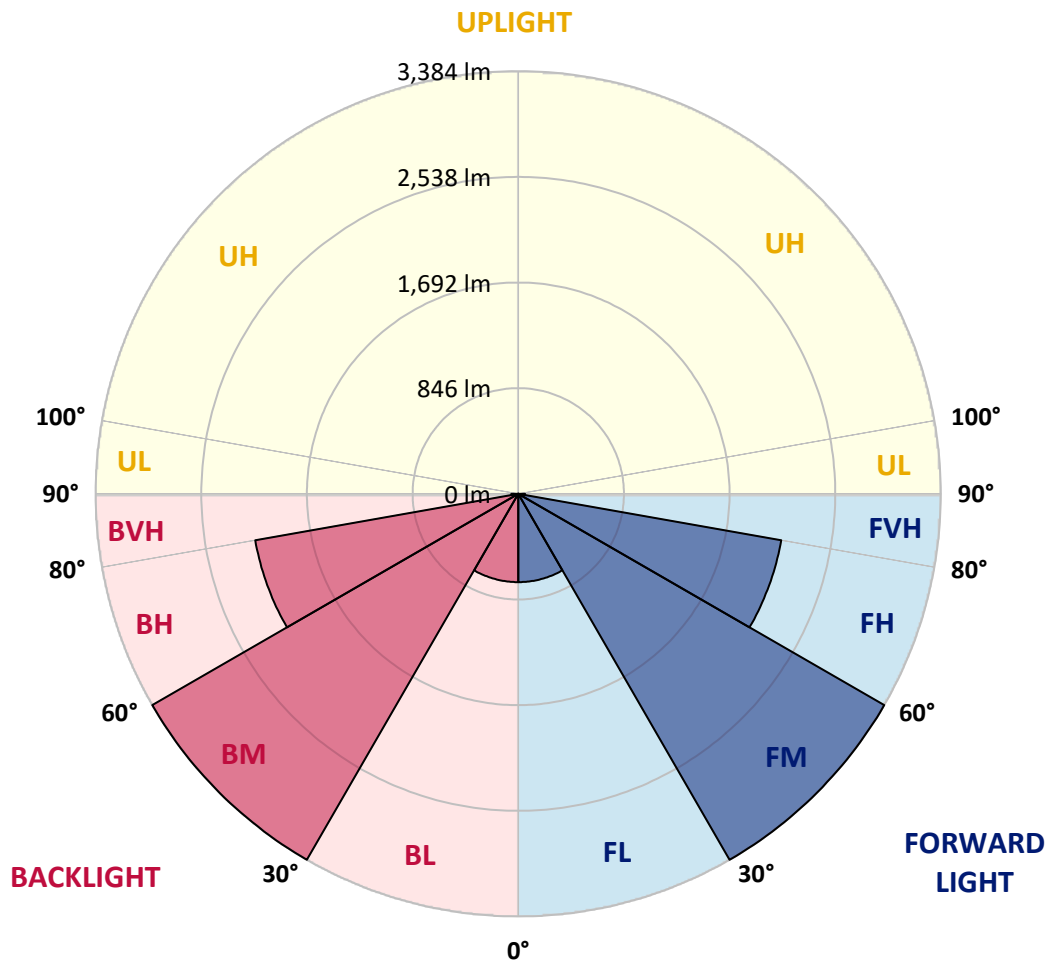
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	707.1	5.6			
FM (30°-60°)	3383.7	26.9			
FH (60°-80°)	2138.3	17.0			G2/5000
FVH (80°-90°)	54.5	0.4			G1/100
BL (0°-30°)	707.1	5.6	B2/1000		
BM (30°-60°)	3383.7	26.9	B3/5000		
BH (60°-80°)	2138.3	17.0	B3/2500		G3/2500
BVH (80°-90°)	54.5	0.4			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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1316.3	1316.3	1316.3	1316.3	1316.3	1316.3	1316.3	1316.3	1316.3	1316.3	1316.3
2.5°	1309.6	1310.9	1312.2	1314.3	1317.0	1321.0	1323.7	1325.7	1331.1	1331.8	1331.1
5°	1304.9	1306.2	1309.6	1315.6	1324.4	1336.5	1345.9	1357.3	1366.1	1372.2	1370.8
7.5°	1304.2	1306.9	1312.2	1325.1	1341.9	1362.7	1384.3	1403.8	1420.7	1434.1	1432.1
10°	1315.0	1318.3	1327.1	1345.9	1372.2	1402.5	1432.8	1461.7	1486.0	1503.4	1509.5
12.5°	1333.1	1335.8	1352.0	1380.3	1417.9	1455.7	1490.0	1525.7	1559.3	1589.0	1589.0
15°	1364.8	1369.5	1389.7	1430.8	1477.2	1521.0	1556.0	1593.7	1630.0	1663.7	1673.8
17.5°	1408.5	1415.3	1445.6	1498.1	1557.3	1597.7	1630.8	1661.7	1693.3	1725.7	1730.4
20°	1468.4	1475.2	1515.6	1578.9	1648.9	1697.4	1719.6	1727.0	1742.5	1773.5	1777.5
22.5°	1549.9	1556.7	1601.8	1673.1	1751.3	1803.8	1813.2	1795.7	1791.7	1815.9	1818.6
25°	1642.2	1648.2	1700.0	1776.9	1857.7	1914.8	1912.2	1869.1	1844.8	1859.6	1863.7
27.5°	1745.9	1754.6	1807.2	1886.6	1974.1	2024.6	2016.5	1953.9	1902.1	1899.4	1900.7
30°	1878.5	1887.9	1937.8	2013.8	2100.0	2146.4	2129.6	2045.5	1965.3	1938.4	1938.4
32.5°	2018.6	2042.1	2092.6	2172.0	2239.4	2273.0	2247.4	2146.4	2040.1	2002.4	2000.3
35°	2201.0	2213.8	2263.7	2341.1	2391.5	2417.8	2368.7	2260.3	2137.7	2093.3	2087.2
37.5°	2379.5	2390.2	2448.1	2522.2	2583.4	2582.1	2515.5	2395.6	2258.9	2209.1	2205.1
40°	2561.9	2573.3	2639.3	2707.3	2768.6	2763.2	2682.4	2548.4	2403.0	2347.1	2357.9
42.5°	2720.1	2732.9	2807.7	2904.6	2959.8	2958.5	2864.9	2714.0	2562.6	2512.7	2522.2
45°	2864.2	2875.6	2962.5	3073.6	3154.4	3164.5	3062.2	2902.6	2747.1	2683.1	2685.8
47.5°	2965.8	2987.5	3078.3	3205.6	3315.3	3351.0	3250.7	3094.5	2915.3	2848.7	2852.8
50°	3043.3	3056.8	3155.7	3300.5	3439.2	3513.2	3432.4	3272.2	3083.7	3013.0	3022.5
52.5°	3052.8	3068.9	3176.6	3343.6	3521.4	3633.8	3594.0	3445.9	3255.4	3182.7	3202.9
55°	2975.9	2985.4	3114.0	3316.6	3553.6	3723.3	3733.4	3607.5	3419.0	3363.8	3377.2
57.5°	2757.2	2781.4	2944.3	3190.7	3509.2	3771.2	3837.8	3754.3	3584.7	3530.1	3551.6
60°	2398.3	2422.5	2586.2	2898.6	3341.6	3748.9	3924.0	3884.2	3734.8	3691.0	3702.5
62.5°	1879.2	1877.2	2079.8	2462.9	3008.3	3639.9	3988.0	4009.5	3882.9	3827.7	3845.2
65°	1218.0	1224.1	1420.0	1832.7	2505.4	3362.4	4002.1	4169.1	4028.4	3944.8	3957.7
66°	979.6	997.9	1164.2	1544.5	2248.9	3180.6	3959.6	4216.2	4072.8	3971.8	3977.9
67.5°	723.1	719.7	856.4	1150.0	1795.7	2835.2	3827.0	4245.8	4123.3	3996.0	3998.7
70°	412.7	412.1	460.6	631.6	1055.7	1996.3	3225.8	4103.8	4225.6	4083.6	4076.1
72.5°	301.6	299.7	306.4	348.7	515.1	1008.0	2225.3	3586.7	4173.1	4069.4	4048.6
75°	253.1	251.8	250.5	255.9	288.8	456.5	1181.0	2580.1	3621.0	3819.6	3798.1
77.5°	206.7	206.7	207.3	206.0	207.3	240.4	489.5	1382.9	2205.1	2461.6	2521.5
80°	161.6	160.9	172.3	167.6	156.9	154.2	216.8	445.1	731.9	727.8	600.6
82.5°	119.2	111.1	131.3	127.9	115.8	98.3	126.6	189.9	244.4	158.9	117.8
85°	75.4	74.7	92.9	84.8	70.7	46.4	60.6	81.4	101.0	61.3	49.8
87.5°	13.5	12.8	29.6	21.5	21.5	13.5	16.8	22.2	33.0	22.9	16.8
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)