

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: P527839

Luminaire Tested: **GALN-SA2D-827-U-RW-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527839
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-7)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-827-U-RW-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7391 lumens
Efficiency: N/A
Efficacy: 59.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G0

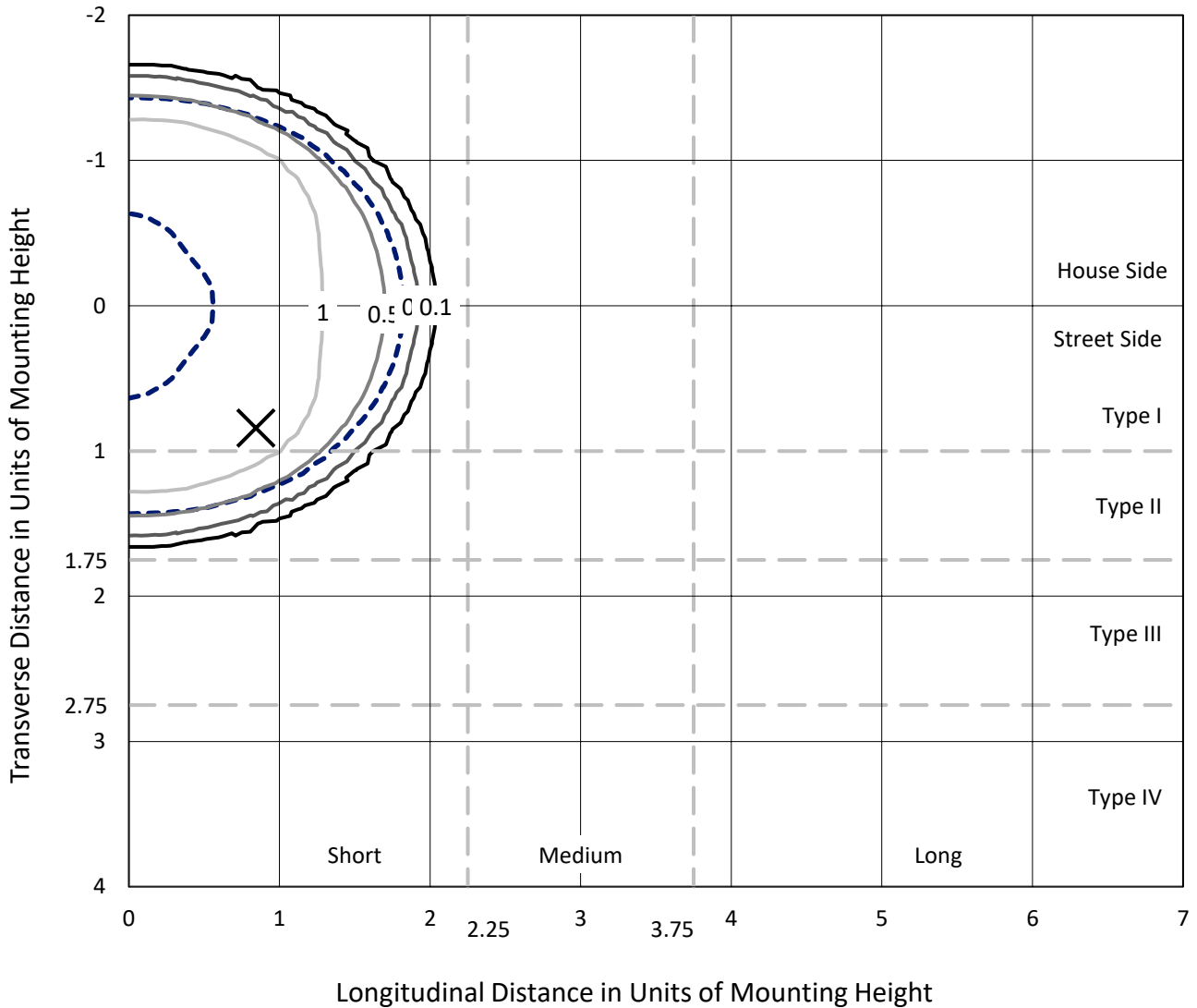
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

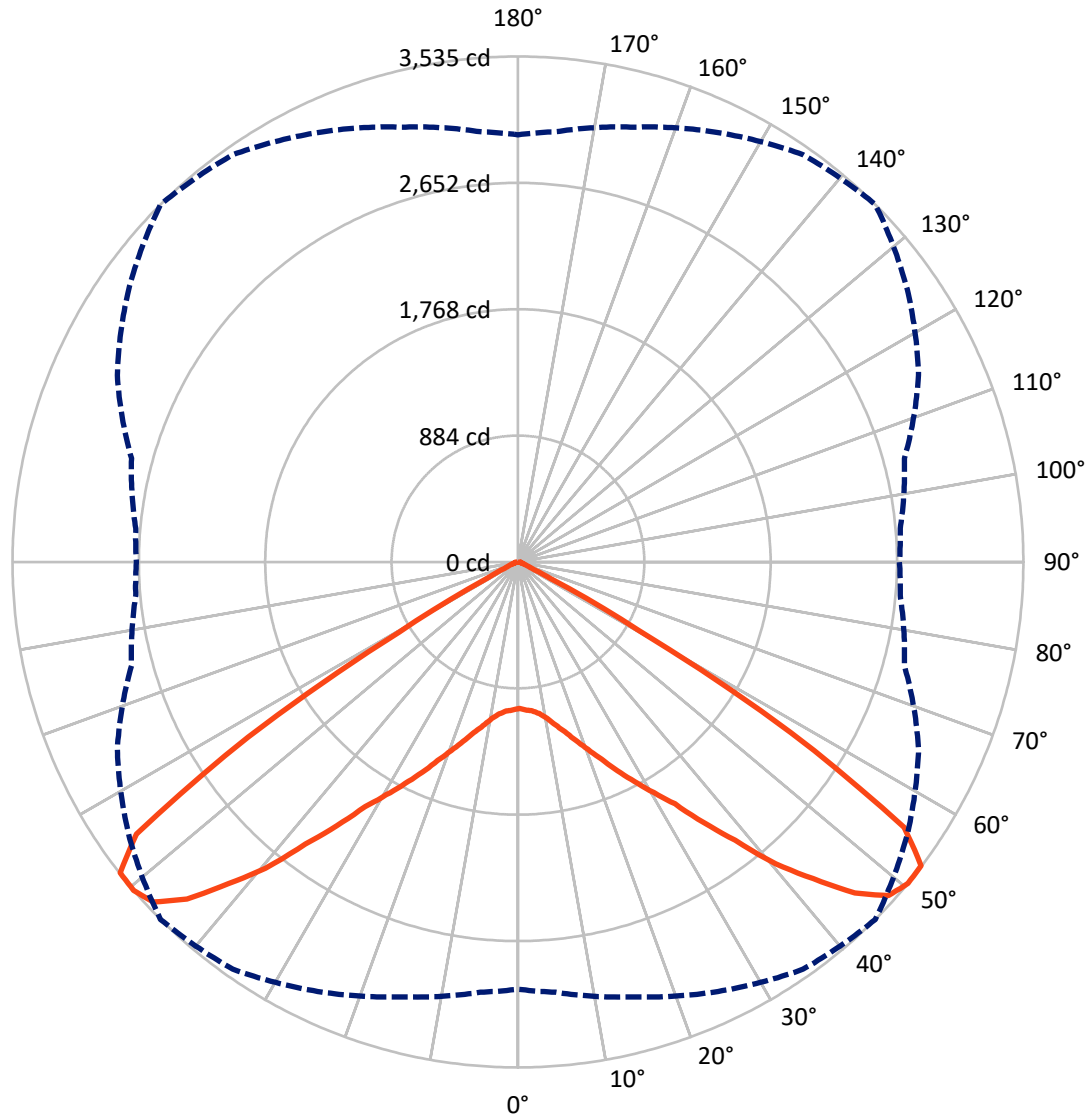
× Max cd
 - - - 1/2 Max cd



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 45-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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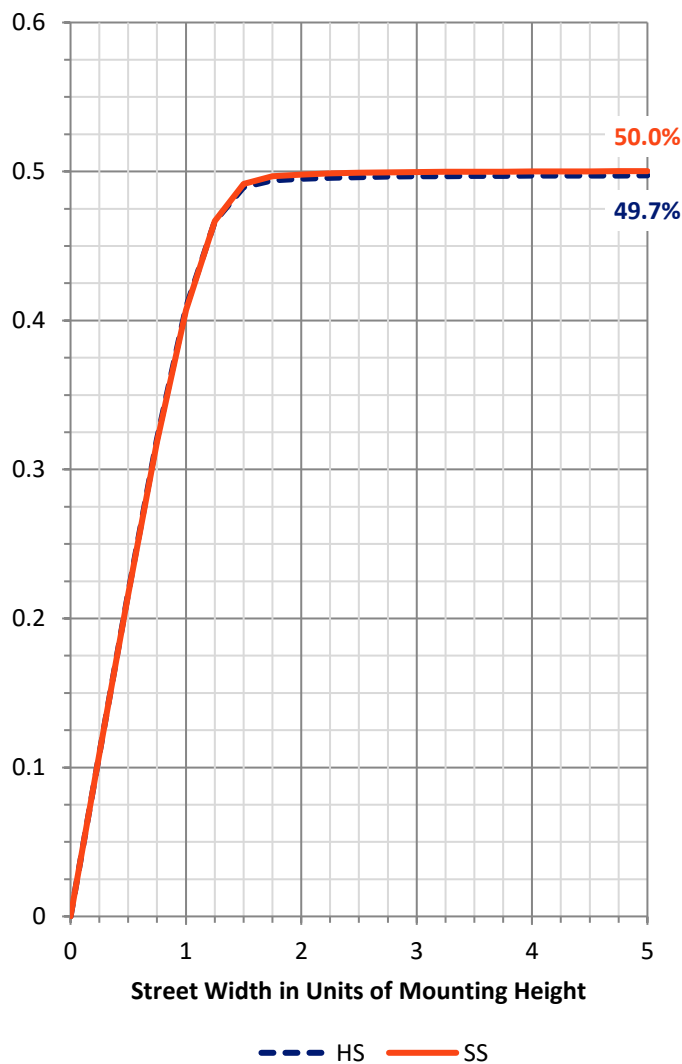
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3695.5	0.0	3695.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3695.5	0.0	3695.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	7391.0	0.0	7391.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.9	1.4
10°-20°	351.3	4.8
20°-30°	717.6	9.7
30°-40°	1368.4	18.5
40°-50°	2306.0	31.2
50°-60°	2199.2	29.8
60°-70°	307.0	4.2
70°-80°	29.4	0.4
80°-90°	10.1	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°	7391.0	100.0
0°-180°	7391.0	100.0

Coefficient of Utilization



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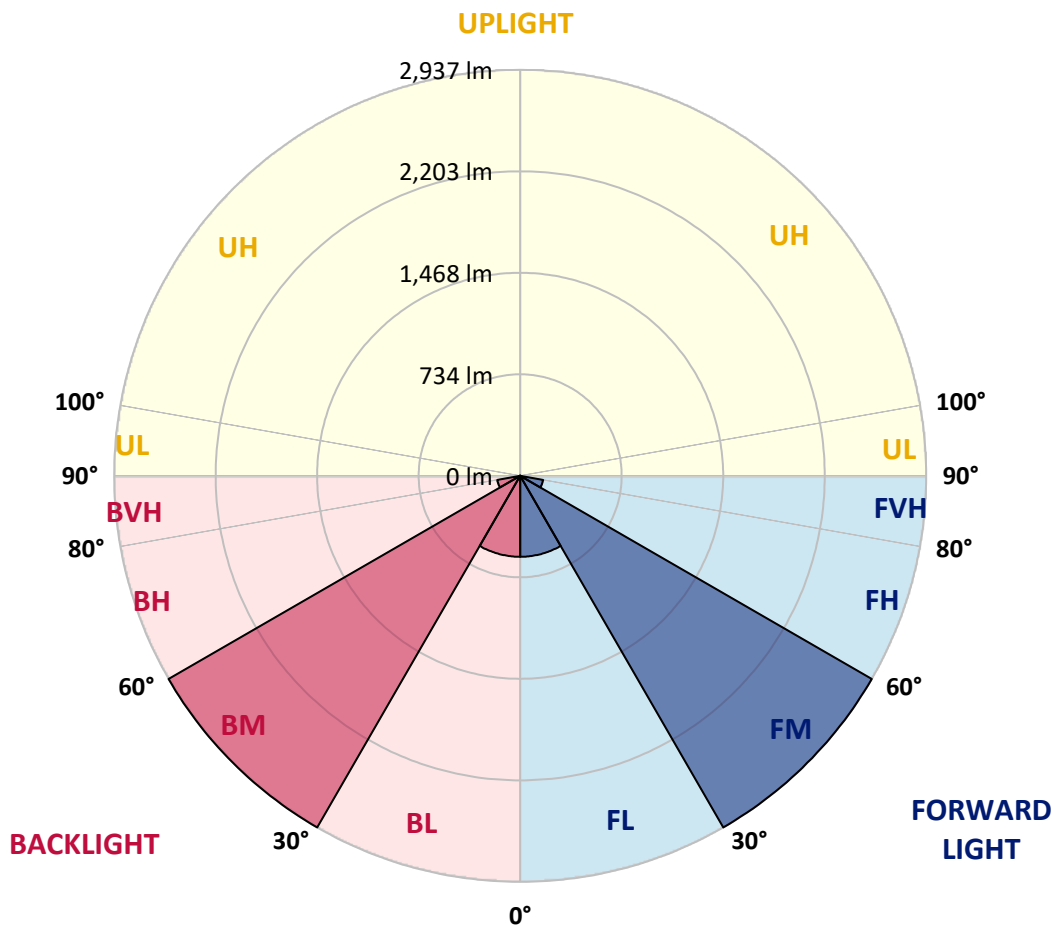
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	585.4	7.9			
FM (30°-60°)	2936.8	39.7			
FH (60°-80°)	168.2	2.3			G0/660
FVH (80°-90°)	5.1	0.1			G0/10
BL (0°-30°)	585.4	7.9	B2/1000		
BM (30°-60°)	2936.8	39.7	B3/5000		
BH (60°-80°)	168.2	2.3	B1/500		G0/660
BVH (80°-90°)	5.1	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°	1024.7	1024.7	1024.7	1024.7	1024.7	1024.7	1024.7	1024.7	1024.7	1024.7	1024.7
2.5°	1021.0	1021.0	1019.7	1029.7	1024.7	1035.9	1034.6	1038.4	1042.1	1040.8	1050.8
5°	1012.2	1011.0	1011.0	1022.2	1033.4	1045.8	1057.0	1064.5	1076.9	1076.9	1089.3
7.5°	1021.0	1014.7	1023.4	1028.4	1049.6	1070.7	1089.3	1104.3	1132.9	1142.8	1139.1
10°	1023.4	1030.9	1037.1	1052.0	1078.2	1110.5	1126.7	1164.0	1196.3	1218.7	1223.6
12.5°	1039.6	1050.8	1068.2	1104.3	1127.9	1170.2	1192.6	1228.6	1273.4	1298.3	1315.7
15°	1070.7	1074.4	1096.8	1142.8	1193.8	1232.4	1267.2	1293.3	1336.8	1365.4	1366.7
17.5°	1110.5	1126.7	1157.7	1201.3	1254.7	1311.9	1339.3	1367.9	1384.1	1422.6	1431.3
20°	1190.1	1192.6	1222.4	1279.6	1346.8	1399.0	1418.9	1433.8	1427.6	1467.4	1474.8
22.5°	1264.7	1267.2	1304.5	1381.6	1453.7	1498.5	1507.2	1498.5	1479.8	1508.4	1510.9
25°	1340.5	1362.9	1390.3	1467.4	1556.9	1616.6	1617.9	1594.2	1555.7	1560.6	1573.1
27.5°	1458.7	1474.8	1503.4	1574.3	1672.6	1739.7	1728.5	1699.9	1650.2	1653.9	1650.2
30°	1596.7	1611.6	1635.3	1726.0	1798.2	1871.5	1887.7	1860.3	1785.7	1769.6	1788.2
32.5°	1763.3	1784.5	1828.0	1911.3	1972.3	2017.0	2028.2	2018.3	1948.6	1942.4	1954.9
35°	1966.0	1994.6	2034.4	2107.8	2157.6	2238.4	2238.4	2204.8	2141.4	2148.8	2147.6
37.5°	2179.9	2222.2	2284.4	2359.0	2426.2	2469.7	2456.0	2427.4	2364.0	2347.8	2364.0
40°	2448.5	2469.7	2548.0	2645.0	2727.1	2776.8	2718.4	2656.2	2504.5	2528.1	2571.7
42.5°	2693.5	2727.1	2786.8	2893.7	2987.0	3028.0	2958.4	2835.3	2652.5	2633.8	2666.2
45°	2902.4	2938.5	3016.8	3169.8	3268.0	3304.1	3149.9	2950.9	2742.0	2694.8	2708.4
47.5°	3041.7	3060.4	3169.8	3315.3	3404.8	3486.9	3265.5	3030.5	2784.3	2694.8	2689.8
50°	2988.2	3020.6	3148.7	3314.0	3477.0	3535.4	3324.0	3091.5	2798.0	2683.6	2668.6
52.5°	2653.7	2709.7	2852.7	3075.3	3321.5	3530.4	3404.8	3071.6	2793.0	2694.8	2717.1
55°	1846.7	1847.9	2022.0	2350.3	2785.5	3278.0	3286.7	3093.9	2825.3	2764.4	2765.6
57.5°	742.4	779.7	912.8	1242.3	1644.0	2250.8	2676.1	2870.1	2829.1	2814.1	2852.7
60°	187.8	189.0	230.1	350.7	578.2	965.0	1401.5	1896.4	2183.7	2281.9	2295.6
62.5°	95.8	97.0	106.9	124.4	157.9	258.7	460.1	730.0	1038.4	1195.0	1236.1
65°	78.3	78.3	84.6	93.3	94.5	99.5	119.4	170.4	247.5	281.0	284.8
67.5°	59.7	59.7	64.7	69.6	72.1	70.9	68.4	70.9	85.8	82.1	79.6
70°	37.3	38.5	41.0	46.0	48.5	49.7	51.0	53.5	60.9	63.4	60.9
72.5°	22.4	22.4	23.6	27.4	31.1	33.6	37.3	39.8	43.5	49.7	48.5
75°	9.9	9.9	12.4	16.2	19.9	23.6	27.4	31.1	33.6	37.3	38.5
77.5°	2.5	3.7	6.2	11.2	14.9	19.9	24.9	28.6	31.1	31.1	29.8
80°	1.2	1.2	5.0	8.7	16.2	21.1	27.4	29.8	33.6	31.1	27.4
82.5°	1.2	1.2	5.0	8.7	14.9	21.1	28.6	32.3	34.8	31.1	26.1
85°	0.0	1.2	3.7	7.5	12.4	14.9	12.4	8.7	5.0	5.0	3.7
87.5°	0.0	0.0	1.2	1.2	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)