

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: P451964

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451964
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-827-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11799 lumens
Efficiency: N/A
Efficacy: 94.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

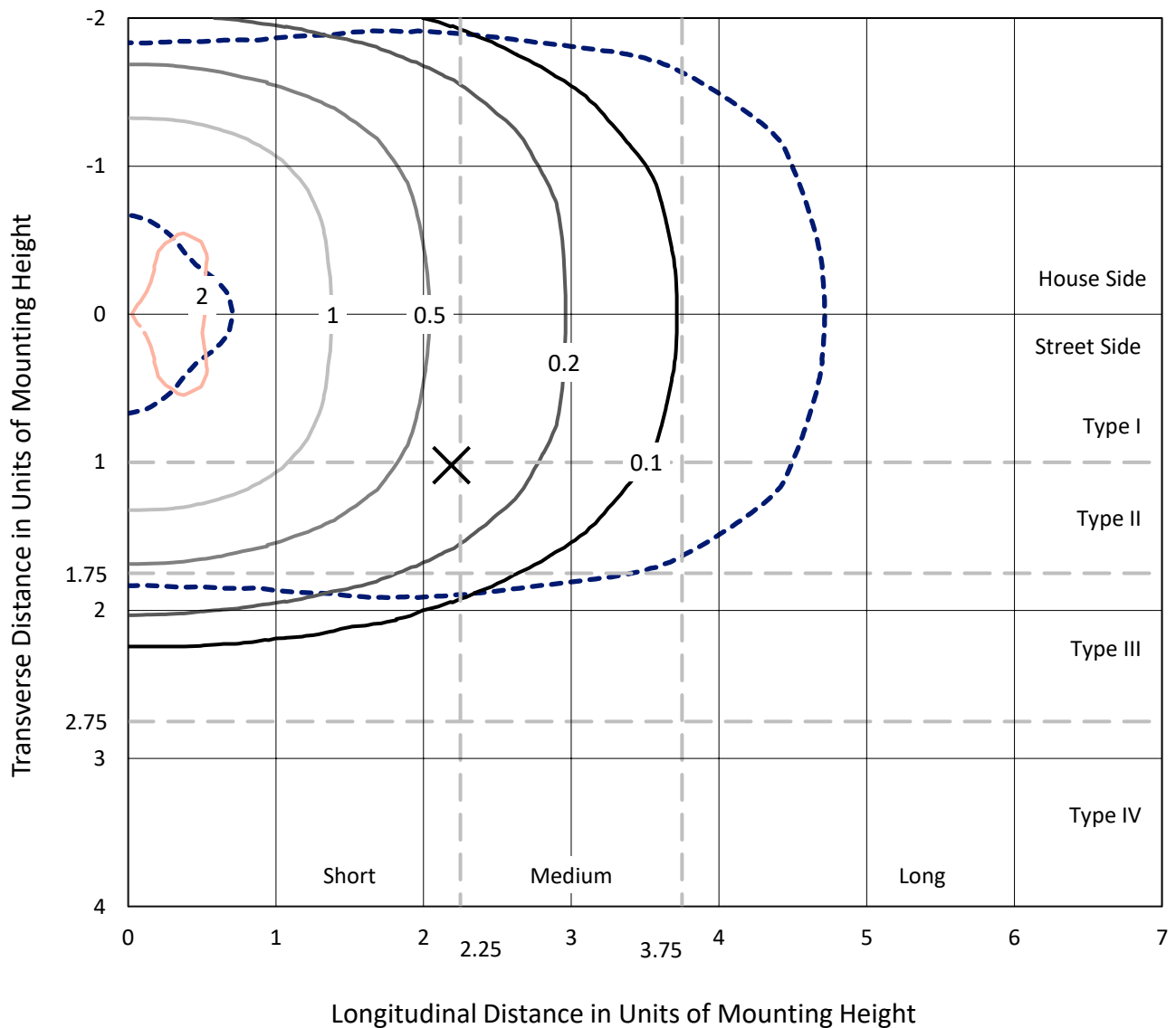
Input Watts (W): 125
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

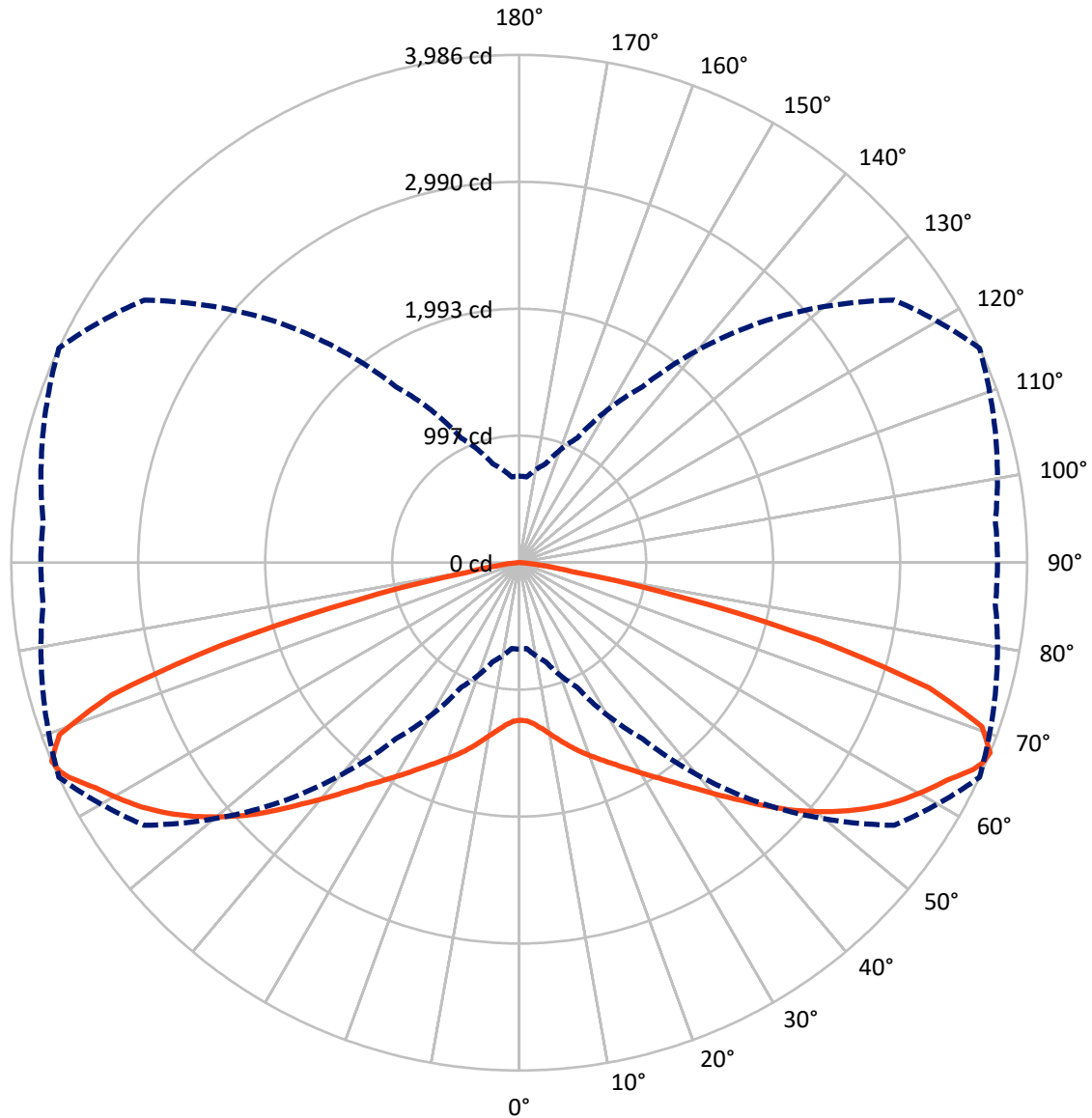
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 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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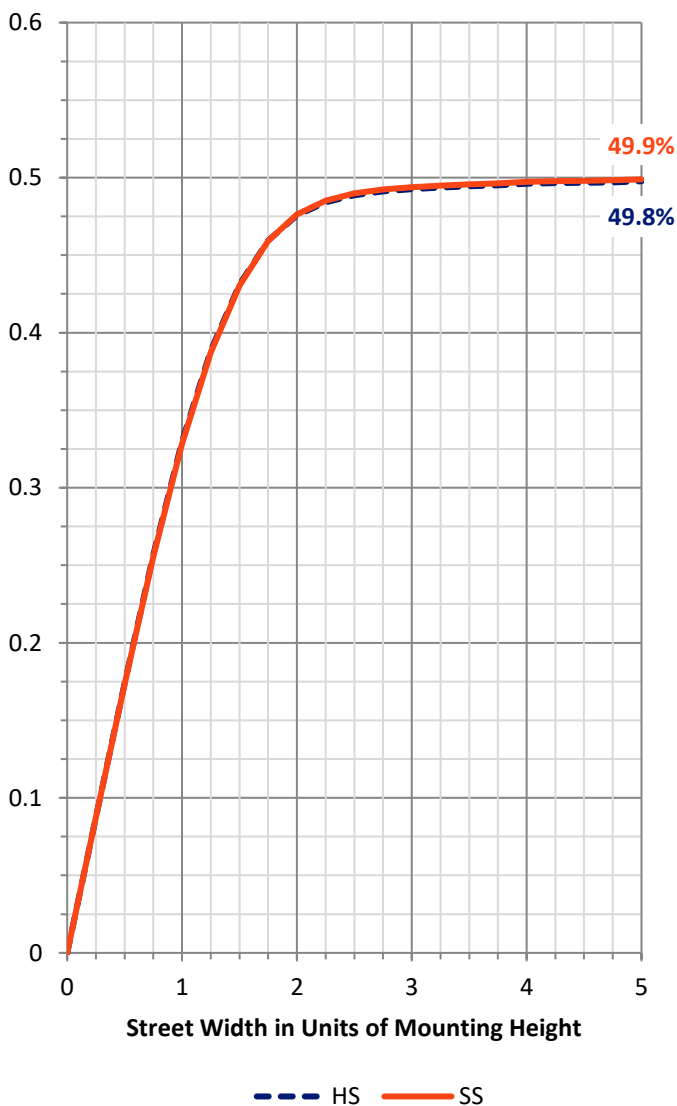
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5899.5	0.0	5899.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5899.5	0.0	5899.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	11799.0	0.0	11799.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.9	1.0
10°-20°	407.9	3.5
20°-30°	798.0	6.8
30°-40°	1357.2	11.5
40°-50°	2148.1	18.2
50°-60°	2848.3	24.1
60°-70°	2686.9	22.8
70°-80°	1328.3	11.3
80°-90°	102.4	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°	11799.0	100.0
0°-180°	11799.0	100.0



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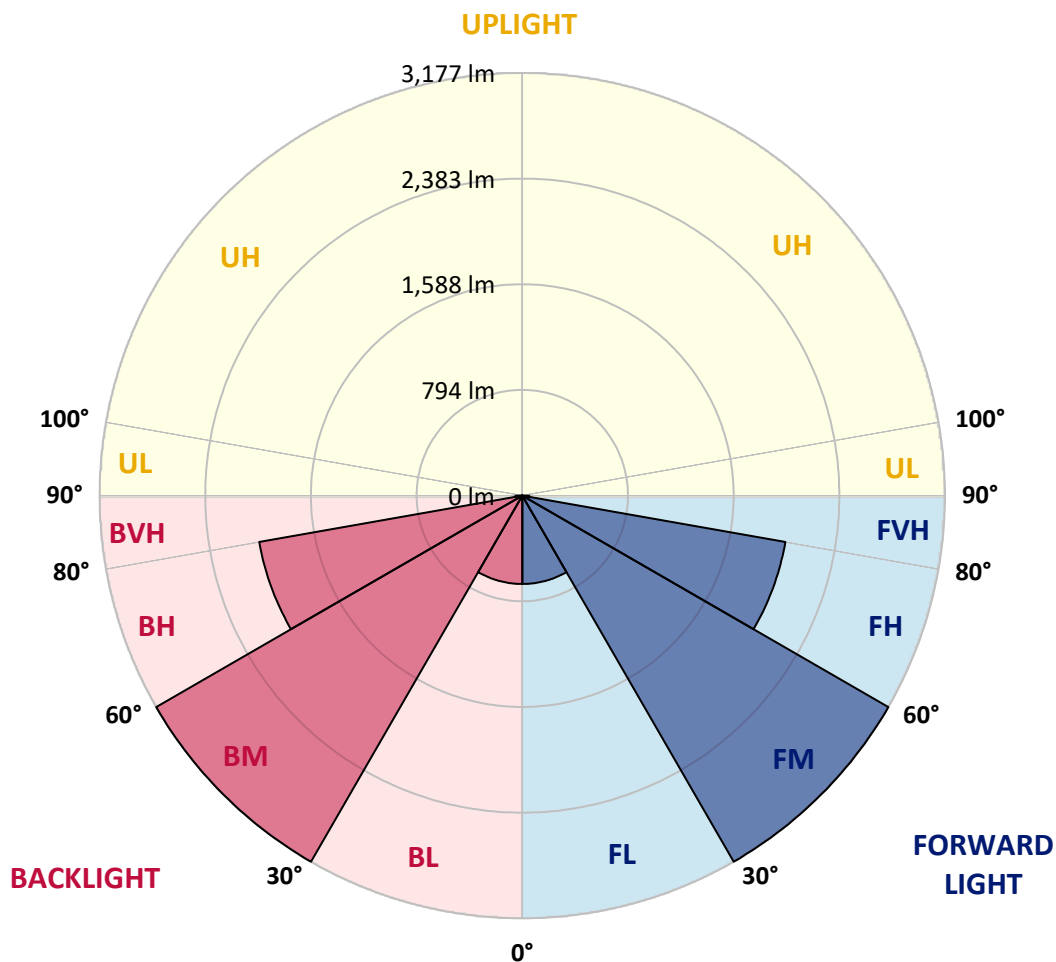
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	663.9	5.6			
FM	(30°-60°)	3176.9	26.9			
FH	(60°-80°)	2007.6	17.0			G2/5000
FVH	(80°-90°)	51.2	0.4			G1/100
BL	(0°-30°)	663.9	5.6	B2/1000		
BM	(30°-60°)	3176.9	26.9	B3/5000		
BH	(60°-80°)	2007.6	17.0	B3/2500		G3/2500
BVH	(80°-90°)	51.2	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°	1235.8	1235.8	1235.8	1235.8	1235.8	1235.8	1235.8	1235.8	1235.8	1235.8	1235.8
2.5°	1229.5	1230.8	1232.0	1233.9	1236.5	1240.3	1242.8	1244.7	1249.7	1250.4	1249.7
5°	1225.1	1226.4	1229.5	1235.2	1243.4	1254.8	1263.7	1274.4	1282.6	1288.3	1287.0
7.5°	1224.5	1227.0	1232.0	1244.1	1259.9	1279.5	1299.7	1318.0	1333.8	1346.5	1344.6
10°	1234.6	1237.7	1246.0	1263.7	1288.3	1316.8	1345.2	1372.4	1395.1	1411.6	1417.3
12.5°	1251.6	1254.2	1269.3	1295.9	1331.3	1366.7	1398.9	1432.4	1464.0	1491.9	1491.9
15°	1281.4	1285.8	1304.7	1343.3	1386.9	1428.0	1460.9	1496.3	1530.4	1562.0	1571.5
17.5°	1322.4	1328.8	1357.2	1406.5	1462.1	1500.1	1531.1	1560.1	1589.8	1620.2	1624.6
20°	1378.7	1385.0	1423.0	1482.4	1548.1	1593.6	1614.5	1621.4	1636.0	1665.1	1668.9
22.5°	1455.2	1461.5	1503.9	1570.9	1644.2	1693.5	1702.4	1685.9	1682.1	1704.9	1707.4
25°	1541.8	1547.5	1596.2	1668.2	1744.1	1797.8	1795.3	1754.8	1732.1	1746.0	1749.8
27.5°	1639.1	1647.4	1696.7	1771.3	1853.4	1900.9	1893.3	1834.5	1785.8	1783.3	1784.5
30°	1763.7	1772.5	1819.3	1890.7	1971.7	2015.3	1999.5	1920.5	1845.2	1819.9	1819.9
32.5°	1895.2	1917.3	1964.7	2039.3	2102.5	2134.1	2110.1	2015.3	1915.4	1880.0	1878.1
35°	2066.5	2078.5	2125.3	2198.0	2245.4	2270.0	2223.9	2122.1	2007.1	1965.3	1959.6
37.5°	2234.0	2244.1	2298.5	2368.0	2425.5	2424.3	2361.7	2249.2	2120.8	2074.1	2070.3
40°	2405.3	2416.1	2478.0	2541.9	2599.4	2594.3	2518.5	2392.7	2256.1	2203.7	2213.8
42.5°	2553.9	2565.9	2636.0	2727.1	2778.9	2777.6	2689.8	2548.2	2405.9	2359.2	2368.0
45°	2689.1	2699.9	2781.4	2885.7	2961.6	2971.1	2875.0	2725.2	2579.1	2519.1	2521.6
47.5°	2784.6	2804.8	2890.2	3009.6	3112.7	3146.2	3052.0	2905.3	2737.2	2674.6	2678.4
50°	2857.3	2869.9	2962.9	3098.8	3229.0	3298.5	3222.7	3072.2	2895.2	2828.8	2837.7
52.5°	2866.1	2881.3	2982.5	3139.2	3306.1	3411.7	3374.4	3235.3	3056.4	2988.1	3007.1
55°	2794.1	2802.9	2923.7	3113.9	3336.5	3495.8	3505.2	3387.0	3210.0	3158.2	3170.8
57.5°	2588.6	2611.4	2764.4	2995.7	3294.7	3540.6	3603.2	3524.8	3365.5	3314.3	3334.6
60°	2251.7	2274.5	2428.1	2721.4	3137.3	3519.8	3684.1	3646.8	3506.5	3465.4	3476.2
62.5°	1764.3	1762.4	1952.7	2312.4	2824.4	3417.4	3744.2	3764.4	3645.6	3593.7	3610.2
65°	1143.5	1149.2	1333.2	1720.7	2352.2	3156.9	3757.5	3914.2	3782.1	3703.7	3715.7
66°	919.8	936.8	1093.0	1450.1	2111.4	2986.2	3717.6	3958.5	3823.8	3729.0	3734.7
67.5°	678.9	675.8	804.1	1079.7	1685.9	2662.0	3593.1	3986.3	3871.2	3751.8	3754.3
70°	387.5	386.9	432.4	593.0	991.2	1874.3	3028.6	3852.9	3967.3	3834.0	3827.0
72.5°	283.2	281.3	287.6	327.5	483.6	946.3	2089.2	3367.4	3918.0	3820.7	3801.1
75°	237.7	236.4	235.2	240.2	271.2	428.6	1108.8	2422.4	3399.7	3586.2	3565.9
77.5°	194.1	194.1	194.7	193.4	194.7	225.7	459.6	1298.4	2070.3	2311.1	2367.4
80°	151.7	151.1	161.8	157.4	147.3	144.8	203.6	417.8	687.1	683.3	563.9
82.5°	111.9	104.3	123.3	120.1	108.7	92.3	118.8	178.3	229.5	149.2	110.6
85°	70.8	70.2	87.2	79.7	66.4	43.6	56.9	76.5	94.8	57.5	46.8
87.5°	12.6	12.0	27.8	20.2	20.2	12.6	15.8	20.9	31.0	21.5	15.8
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)