

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: P527210

Luminaire Tested: **GALN-SA2B-727-U-5NQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527210
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-6)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2B-727-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8620 lumens
Efficiency: N/A
Efficacy: 105.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

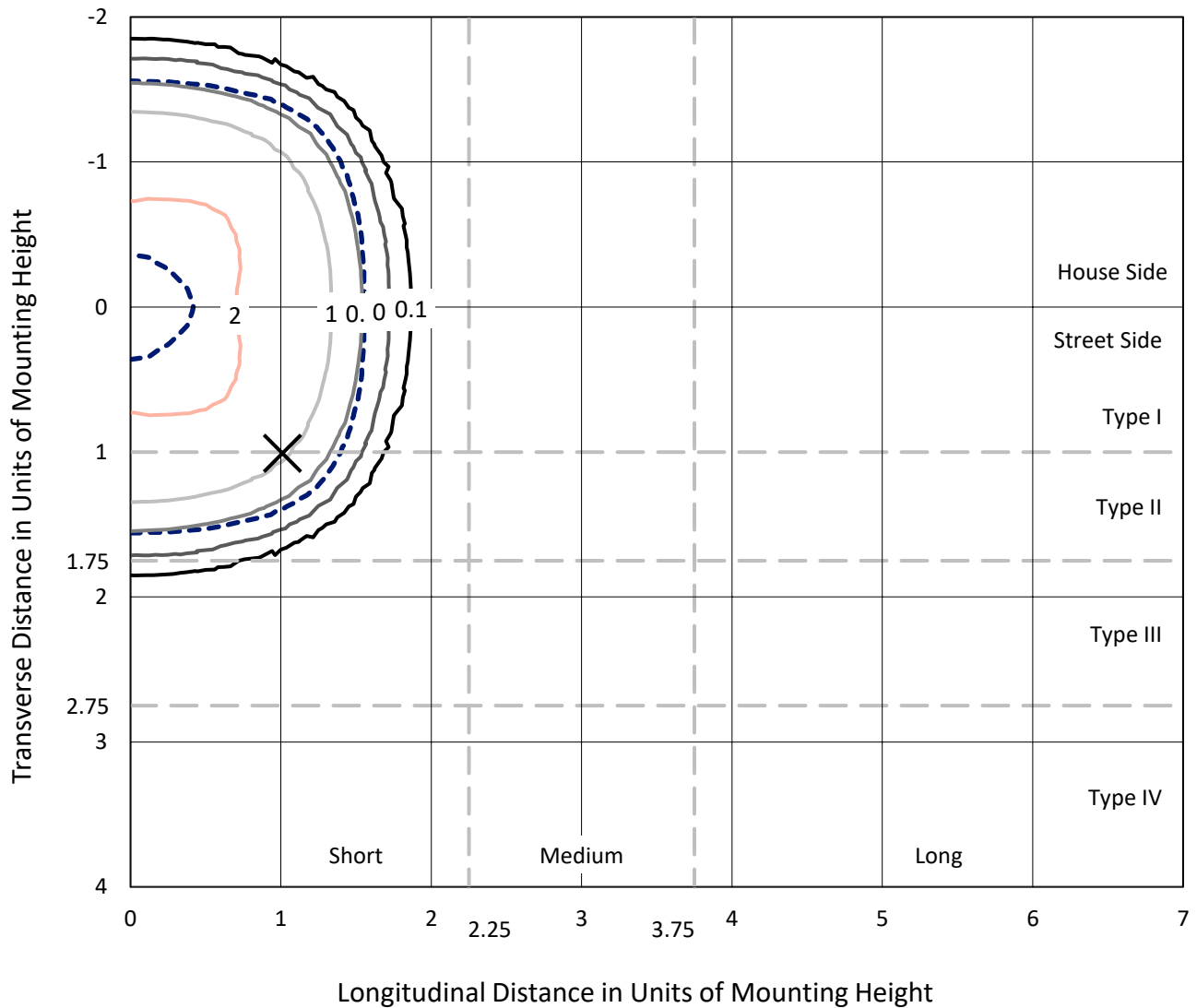
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

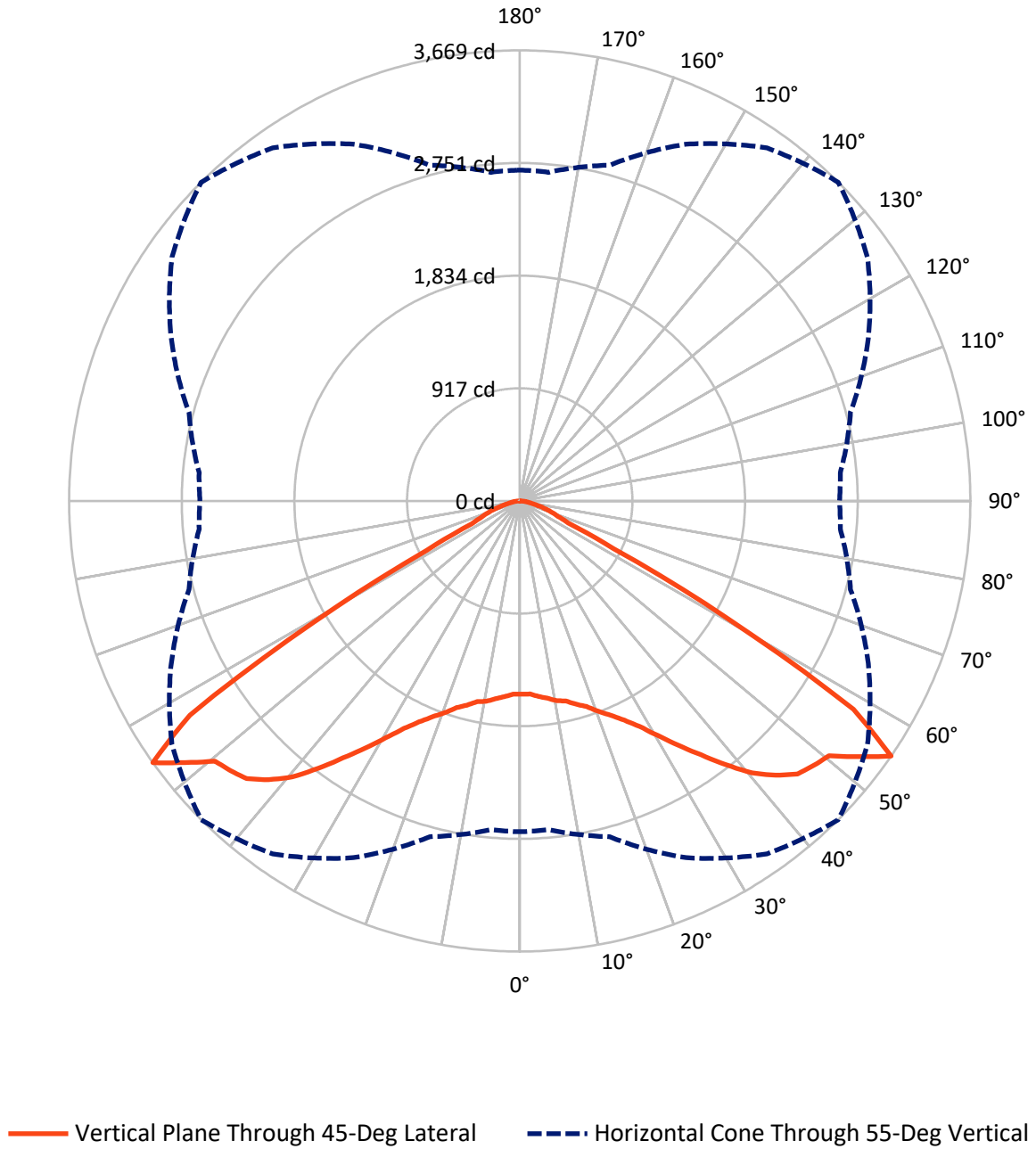
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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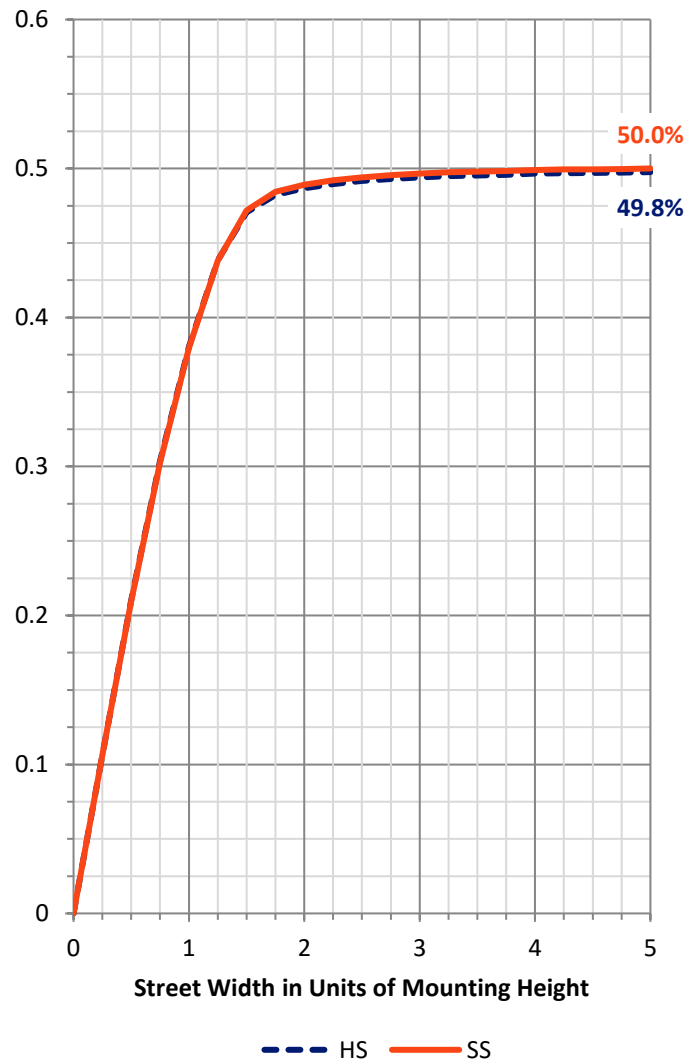
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4310.0	0.0	4310.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4310.0	0.0	4310.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	8620.0	0.0	8620.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.8	1.8
10°-20°	487.2	5.7
20°-30°	908.4	10.5
30°-40°	1521.0	17.6
40°-50°	2366.8	27.5
50°-60°	2457.5	28.5
60°-70°	521.1	6.0
70°-80°	171.6	2.0
80°-90°	32.7	0.4
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°	8620.0	100.0
0°-180°	8620.0	100.0



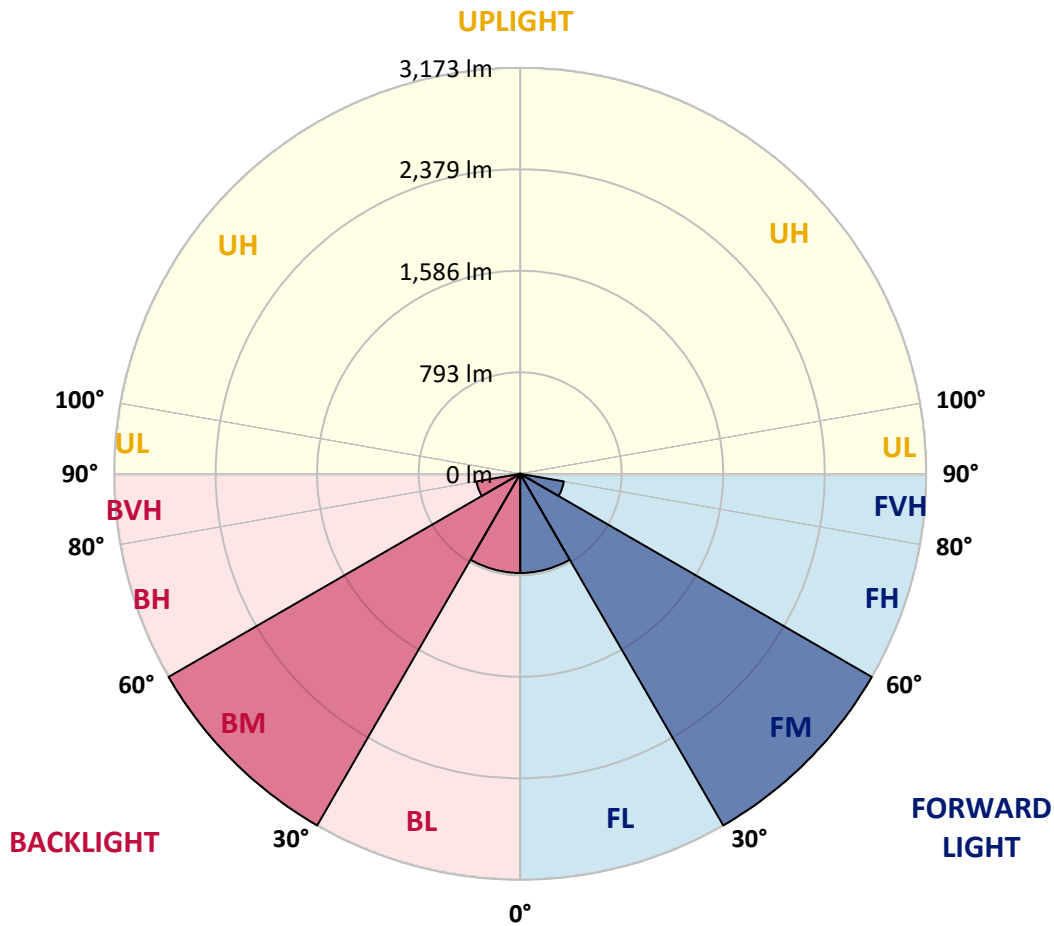
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	774.7	9.0			
FM (30°-60°)	3172.6	36.8			
FH (60°-80°)	346.4	4.0			G0/660
FVH (80°-90°)	16.3	0.2			G1/100
BL (0°-30°)	774.7	9.0	B2/1000		
BM (30°-60°)	3172.6	36.8	B3/5000		
BH (60°-80°)	346.4	4.0	B1/500		G0/660
BVH (80°-90°)	16.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1573.9	1573.9	1573.9	1573.9	1573.9	1573.9	1573.9	1573.9	1573.9	1573.9	1573.9
2.5°	1592.6	1585.3	1572.8	1582.2	1589.5	1573.9	1580.1	1583.3	1581.2	1572.8	1576.0
5°	1615.5	1611.4	1601.0	1608.3	1598.9	1598.9	1592.6	1584.3	1596.8	1594.7	1599.9
7.5°	1615.5	1610.3	1631.2	1617.6	1621.8	1621.8	1611.4	1603.0	1609.3	1599.9	1594.7
10°	1647.8	1655.1	1645.8	1648.9	1646.8	1654.1	1638.5	1633.3	1628.0	1624.9	1618.7
12.5°	1686.4	1681.2	1684.3	1682.2	1689.5	1670.8	1661.4	1649.9	1659.3	1645.8	1655.1
15°	1717.6	1714.5	1717.6	1726.0	1718.7	1717.6	1701.0	1689.5	1674.9	1678.0	1663.5
17.5°	1760.3	1757.2	1758.2	1765.5	1764.5	1759.3	1746.8	1724.9	1719.7	1711.4	1702.0
20°	1823.9	1818.7	1816.6	1819.7	1824.9	1829.1	1804.1	1795.7	1778.0	1764.5	1748.9
22.5°	1878.0	1876.0	1884.3	1870.7	1882.2	1894.7	1870.7	1866.6	1822.8	1815.5	1798.9
25°	1953.0	1949.9	1944.7	1964.5	1978.0	1977.0	1954.1	1931.2	1897.8	1889.5	1889.5
27.5°	2032.2	2014.5	2041.6	2046.8	2070.7	2078.0	2058.2	2024.9	1993.7	1975.9	1980.1
30°	2131.1	2114.5	2120.7	2158.2	2189.5	2216.6	2166.6	2117.6	2073.9	2042.6	2037.4
32.5°	2230.1	2213.4	2232.2	2268.6	2331.1	2371.8	2322.8	2237.4	2186.4	2140.5	2149.9
35°	2310.3	2322.8	2353.0	2408.2	2472.8	2538.4	2460.3	2394.7	2321.8	2270.7	2278.0
37.5°	2439.5	2478.0	2502.0	2565.5	2657.2	2724.9	2643.6	2558.2	2480.1	2413.4	2390.5
40°	2608.2	2634.2	2661.3	2736.3	2844.7	2912.4	2835.3	2723.8	2646.7	2578.0	2574.9
42.5°	2793.6	2818.6	2846.7	2938.4	3003.0	3054.0	2983.2	2923.8	2838.4	2784.2	2781.1
45°	3009.2	2991.5	3022.8	3083.2	3137.4	3170.7	3124.9	3095.7	3034.2	2984.2	2979.0
47.5°	3153.0	3137.4	3193.6	3247.8	3256.1	3219.6	3229.0	3256.1	3191.5	3109.2	3135.3
50°	3236.3	3236.3	3273.8	3323.8	3308.2	3261.3	3335.3	3337.3	3272.8	3199.8	3199.8
52.5°	3091.5	3123.8	3230.1	3393.6	3445.7	3459.2	3442.5	3371.7	3203.0	3054.0	3046.7
55°	2693.6	2686.3	2830.1	3205.1	3508.2	3668.6	3456.1	3130.1	2787.4	2619.7	2603.0
57.5°	1752.0	1760.3	1974.9	2357.2	2904.0	3203.0	2844.7	2386.3	1974.9	1743.7	1765.5
60°	788.5	816.6	946.8	1232.2	1702.0	1945.7	1706.2	1294.7	993.7	862.5	873.9
62.5°	453.1	458.3	463.5	550.0	725.0	857.3	753.1	581.2	512.5	489.6	489.6
65°	382.3	379.1	380.2	387.5	406.2	433.3	421.9	406.2	408.3	406.2	403.1
67.5°	325.0	329.2	326.0	331.2	332.3	336.4	343.7	350.0	351.0	353.1	351.0
70°	266.7	267.7	269.8	273.9	275.0	278.1	288.5	293.7	296.9	296.9	301.0
72.5°	204.2	203.1	205.2	209.4	214.6	215.6	225.0	232.3	236.4	231.2	232.3
75°	134.4	135.4	138.5	141.7	149.0	156.2	159.4	166.7	167.7	169.8	164.6
77.5°	80.2	82.3	85.4	91.7	97.9	104.2	111.5	116.7	118.7	116.7	110.4
80°	52.1	52.1	56.2	61.5	68.7	74.0	78.1	82.3	85.4	82.3	80.2
82.5°	32.3	32.3	37.5	43.7	49.0	52.1	58.3	63.5	66.7	64.6	61.5
85°	16.7	17.7	21.9	27.1	31.2	33.3	32.3	29.2	26.0	25.0	22.9
87.5°	5.2	5.2	6.2	6.2	5.2	5.2	6.2	5.2	6.2	6.2	6.2
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)