

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: P648244

Luminaire Tested: **GALN-SA2B-835-U-5MQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648244  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2B-835-U-5MQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7908.3 lumens  
Efficiency: N/A  
Efficacy: 96.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G1

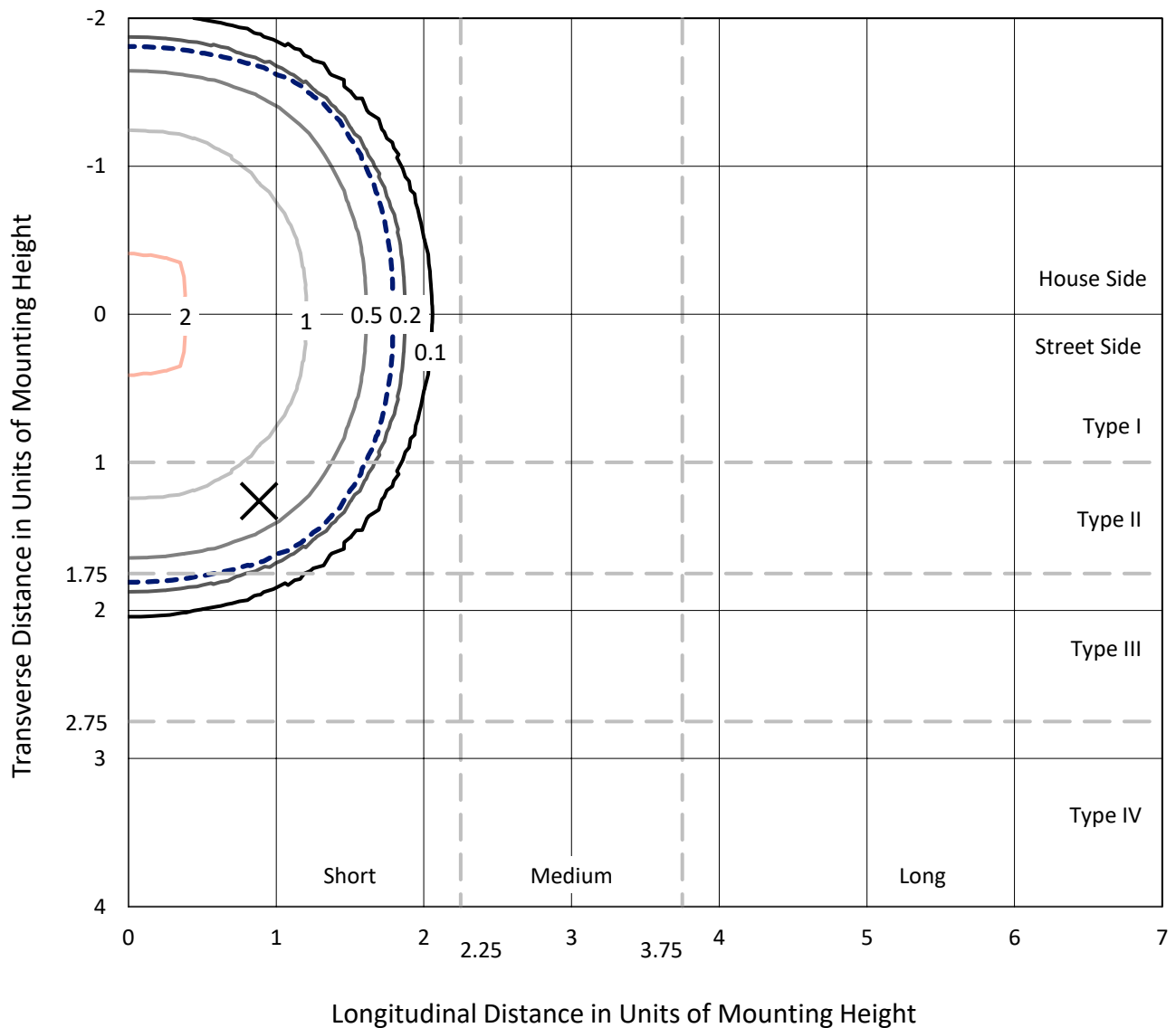
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

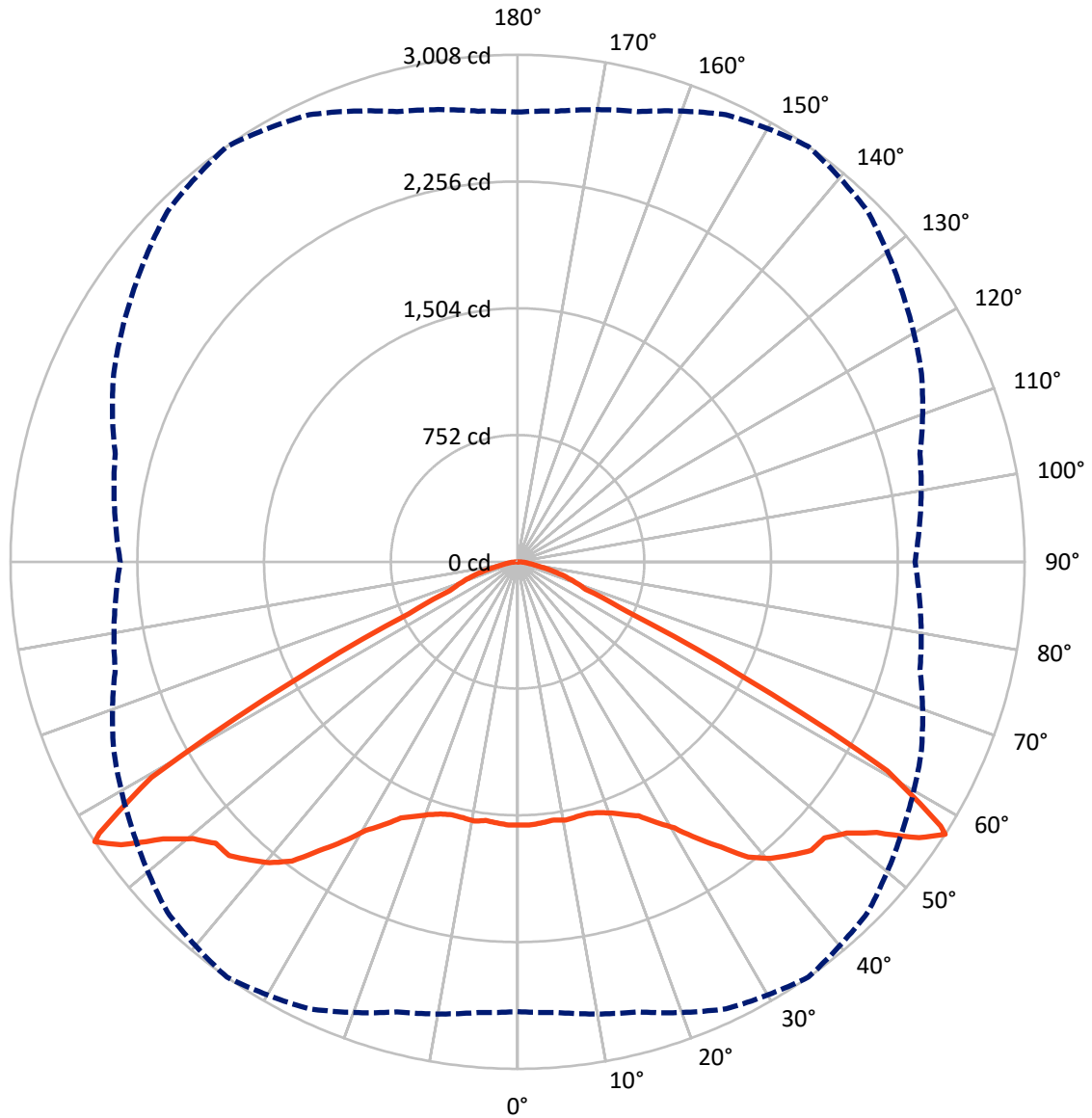
× Max cd  
 - - - 1/2 Max cd



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



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 57-Deg Vertical

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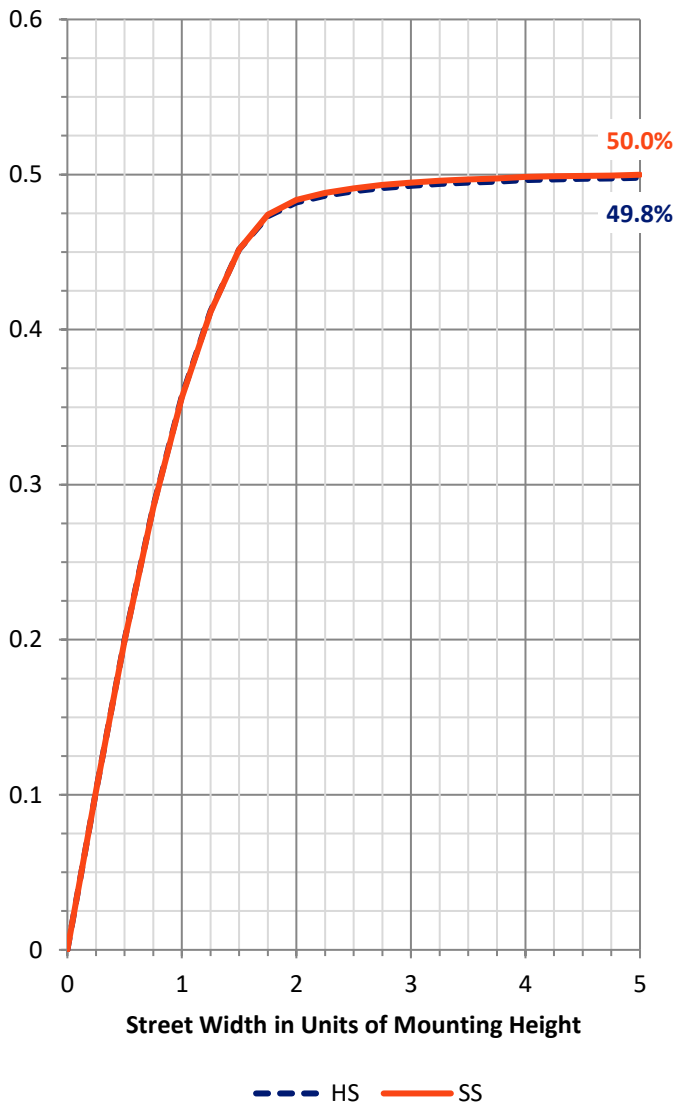
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3954.1	0.0	3954.1
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	3954.1	0.0	3954.1
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	7908.3	0.0	7908.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	148.1	1.9
10°-20°	438.5	5.5
20°-30°	765.9	9.7
30°-40°	1254.9	15.9
40°-50°	1840.0	23.3
50°-60°	2317.7	29.3
60°-70°	871.7	11.0
70°-80°	231.8	2.9
80°-90°	39.7	0.5
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°	7908.3	100.0
0°-180°	7908.3	100.0

**Coefficient of Utilization**



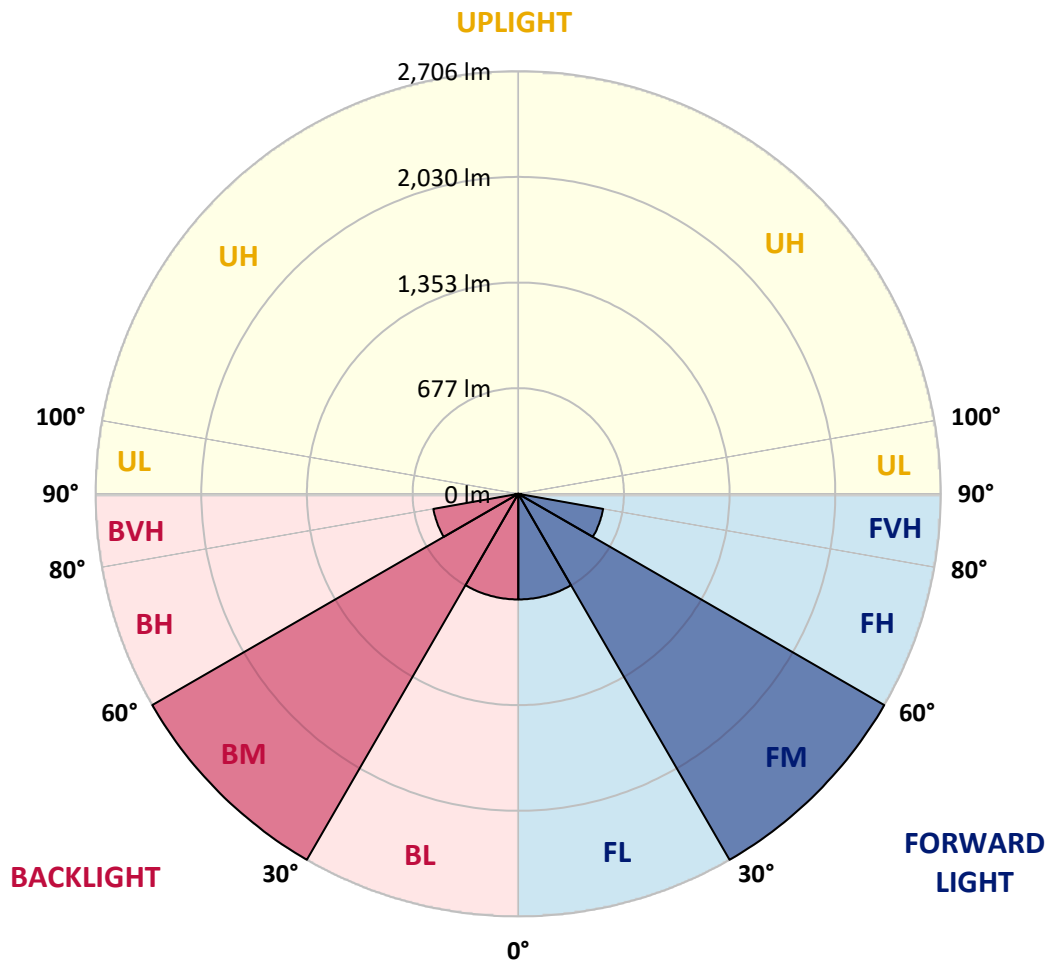
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	676.2	8.6			
FM (30°-60°)	2706.3	34.2			
FH (60°-80°)	551.7	7.0			G0/660
FVH (80°-90°)	19.9	0.3			G1/100
BL (0°-30°)	676.2	8.6	B2/1000		
BM (30°-60°)	2706.3	34.2	B3/5000		
BH (60°-80°)	551.7	7.0	B2/1000		G0/660
BVH (80°-90°)	19.9	0.3			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°	1561.9	1561.9	1561.9	1561.9	1561.9	1561.9	1561.9	1561.9	1561.9	1561.9	1561.9
2.5°	1554.0	1569.6	1562.8	1558.9	1561.9	1557.0	1549.2	1557.9	1556.0	1548.2	1545.3
5°	1550.1	1561.9	1554.0	1561.9	1554.0	1567.6	1563.8	1549.2	1566.7	1550.1	1556.0
7.5°	1547.2	1551.1	1553.1	1549.2	1546.3	1562.8	1554.0	1547.2	1537.5	1534.5	1539.5
10°	1540.4	1550.1	1535.5	1555.0	1558.9	1547.2	1547.2	1534.5	1526.8	1521.9	1538.4
12.5°	1557.9	1541.3	1539.5	1549.2	1552.1	1557.0	1543.3	1536.5	1521.9	1523.8	1520.9
15°	1537.5	1544.3	1545.3	1547.2	1550.1	1561.9	1549.2	1534.5	1528.7	1508.2	1510.2
17.5°	1545.3	1538.4	1545.3	1567.6	1563.8	1572.6	1558.9	1536.5	1522.9	1511.2	1526.8
20°	1558.9	1556.0	1558.9	1586.2	1591.1	1598.9	1587.1	1566.7	1540.4	1526.8	1534.5
22.5°	1573.5	1571.6	1573.5	1599.8	1628.1	1637.8	1626.1	1578.4	1564.7	1539.5	1530.7
25°	1599.8	1601.8	1622.2	1651.5	1670.0	1688.5	1667.1	1632.9	1589.1	1573.5	1555.0
27.5°	1658.3	1663.2	1674.8	1717.7	1749.8	1766.4	1736.2	1689.5	1662.2	1630.0	1625.2
30°	1730.4	1730.4	1750.9	1787.9	1831.8	1857.0	1820.0	1764.5	1731.4	1713.8	1703.1
32.5°	1825.9	1815.2	1823.0	1888.2	1956.4	1977.9	1928.1	1859.9	1807.3	1784.0	1776.2
35°	1907.7	1914.5	1932.1	2002.2	2078.2	2127.9	2050.0	1961.3	1907.7	1886.2	1882.4
37.5°	2013.9	2025.6	2034.4	2130.9	2222.4	2240.9	2165.9	2094.8	2029.5	2012.0	2002.2
40°	2164.0	2156.1	2159.1	2230.2	2313.1	2324.7	2250.7	2200.0	2146.4	2135.7	2135.7
42.5°	2287.7	2278.9	2288.7	2314.9	2378.3	2369.5	2328.6	2291.6	2269.2	2257.5	2269.2
45°	2362.7	2360.7	2378.3	2397.8	2442.6	2413.4	2381.3	2387.1	2365.7	2346.2	2345.2
47.5°	2444.5	2431.9	2453.3	2482.6	2448.4	2434.8	2432.9	2445.5	2438.7	2404.6	2393.9
50°	2484.5	2479.6	2513.7	2547.8	2529.3	2498.2	2505.0	2525.4	2437.7	2392.0	2365.7
52.5°	2591.7	2592.7	2658.0	2676.5	2668.6	2622.9	2637.5	2581.9	2478.7	2414.4	2417.3
55°	2760.2	2753.4	2826.5	2881.0	2889.8	2831.3	2761.2	2683.3	2553.7	2488.4	2469.0
57°	2667.7	2683.3	2764.1	2925.9	3007.7	2938.5	2785.6	2643.3	2470.8	2392.0	2356.9
57.5°	2544.0	2569.3	2709.6	2872.3	2958.0	2952.1	2755.4	2569.3	2415.3	2292.5	2295.5
60°	1863.9	1868.7	1995.4	2253.6	2521.5	2527.4	2287.7	2041.2	1869.7	1736.2	1754.8
62.5°	983.1	1005.5	1056.2	1263.7	1495.6	1552.1	1406.9	1280.3	1132.1	1030.8	1040.6
65°	520.3	517.3	541.8	600.2	714.2	743.4	723.9	623.6	571.9	555.4	556.3
67.5°	422.8	427.8	424.8	427.8	435.5	448.2	445.3	449.1	452.1	457.0	456.0
70°	358.5	358.5	360.5	361.4	361.4	367.3	374.1	386.8	387.7	392.7	394.6
72.5°	282.6	280.6	283.5	290.3	291.4	296.2	305.9	313.7	316.6	316.6	310.8
75°	191.9	193.9	197.8	203.7	209.5	218.2	226.1	230.9	232.9	230.0	227.0
77.5°	108.1	110.1	113.0	121.8	128.6	136.4	145.2	150.0	154.9	155.9	150.0
80°	64.3	64.3	69.1	76.0	83.8	91.6	99.4	105.2	107.2	107.2	104.2
82.5°	39.0	39.9	43.8	50.7	57.5	62.3	69.1	74.1	77.9	77.0	75.0
85°	20.4	20.4	24.4	30.2	35.1	39.9	39.9	37.0	35.1	30.2	28.3
87.5°	6.8	5.9	7.8	7.8	6.8	7.8	7.8	8.8	8.8	8.8	8.8
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)