

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: P652204

Luminaire Tested: **GALN-SA2B-840-U-5MQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652204  
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-840-U-5MQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 4000K, 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: 8494.1 lumens  
Efficiency: N/A  
Efficacy: 103.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G1

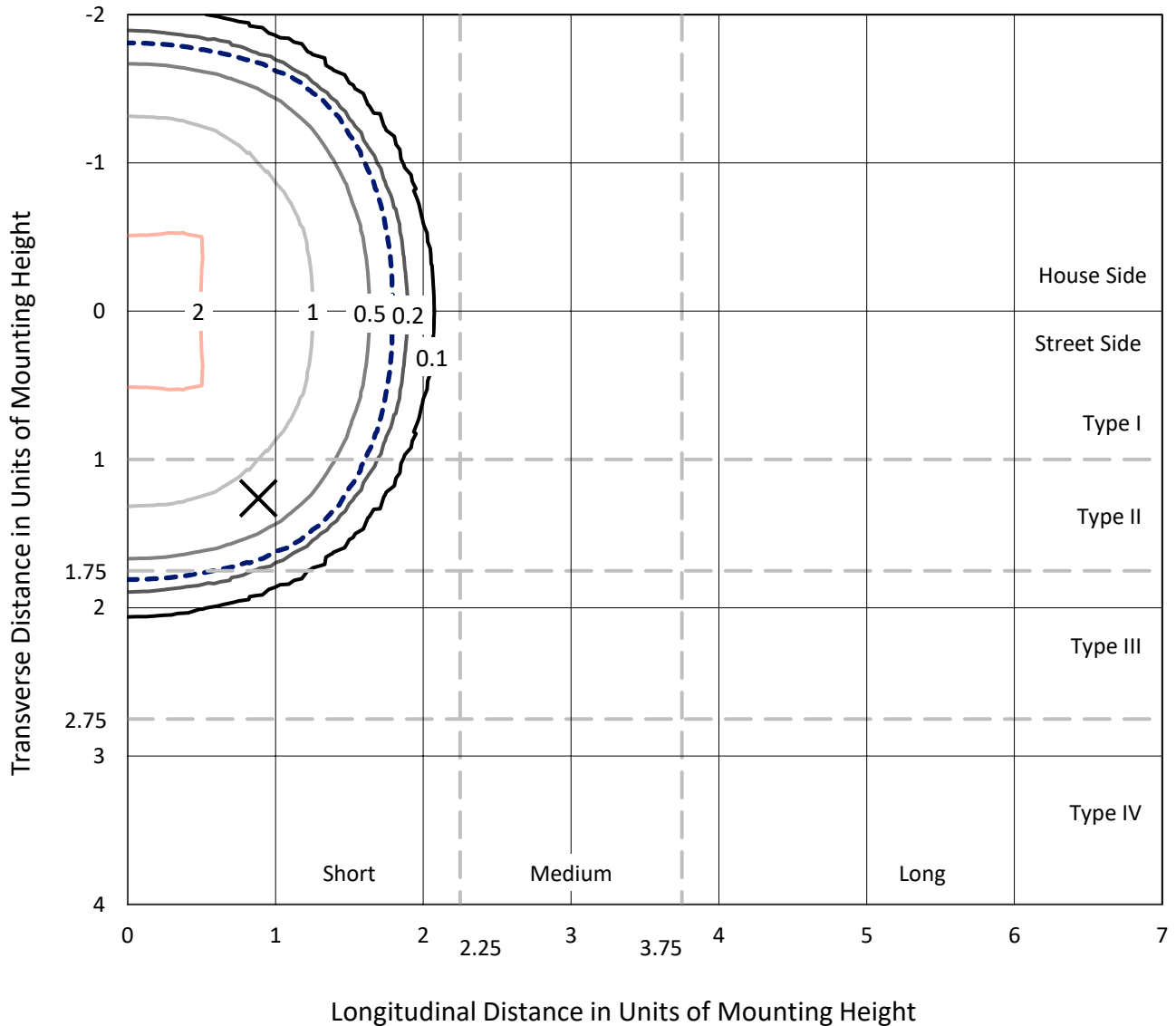
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

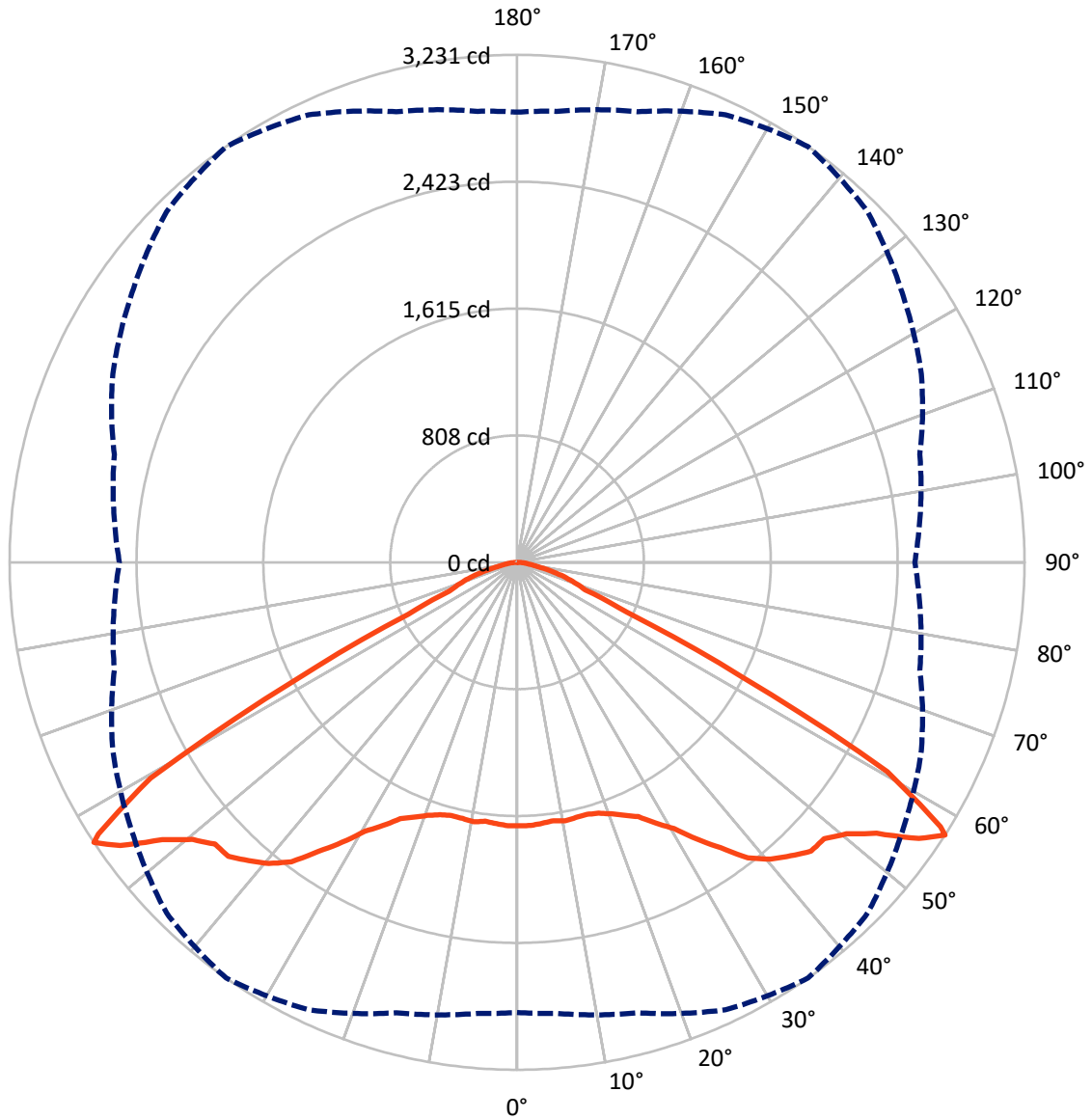
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 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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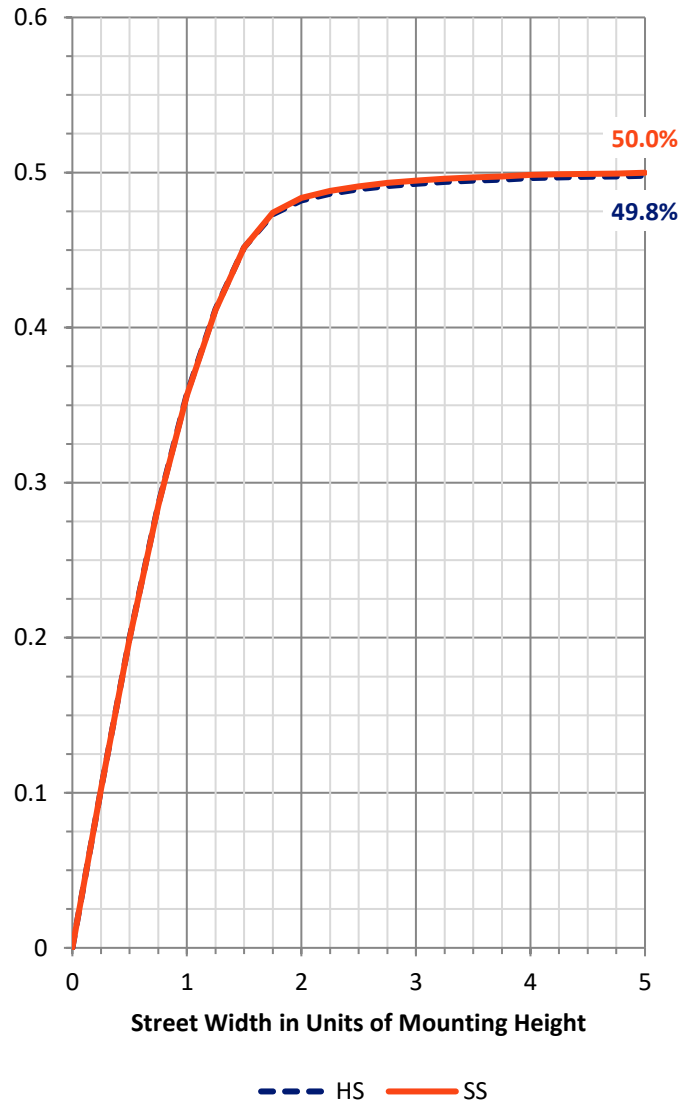
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4247.0	0.0	4247.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	4247.0	0.0	4247.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	8494.1	0.0	8494.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	159.0	1.9
10°-20°	471.0	5.5
20°-30°	822.6	9.7
30°-40°	1347.9	15.9
40°-50°	1976.3	23.3
50°-60°	2489.3	29.3
60°-70°	936.2	11.0
70°-80°	248.9	2.9
80°-90°	42.7	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°	8494.1	100.0
0°-180°	8494.1	100.0

**Coefficient of Utilization**



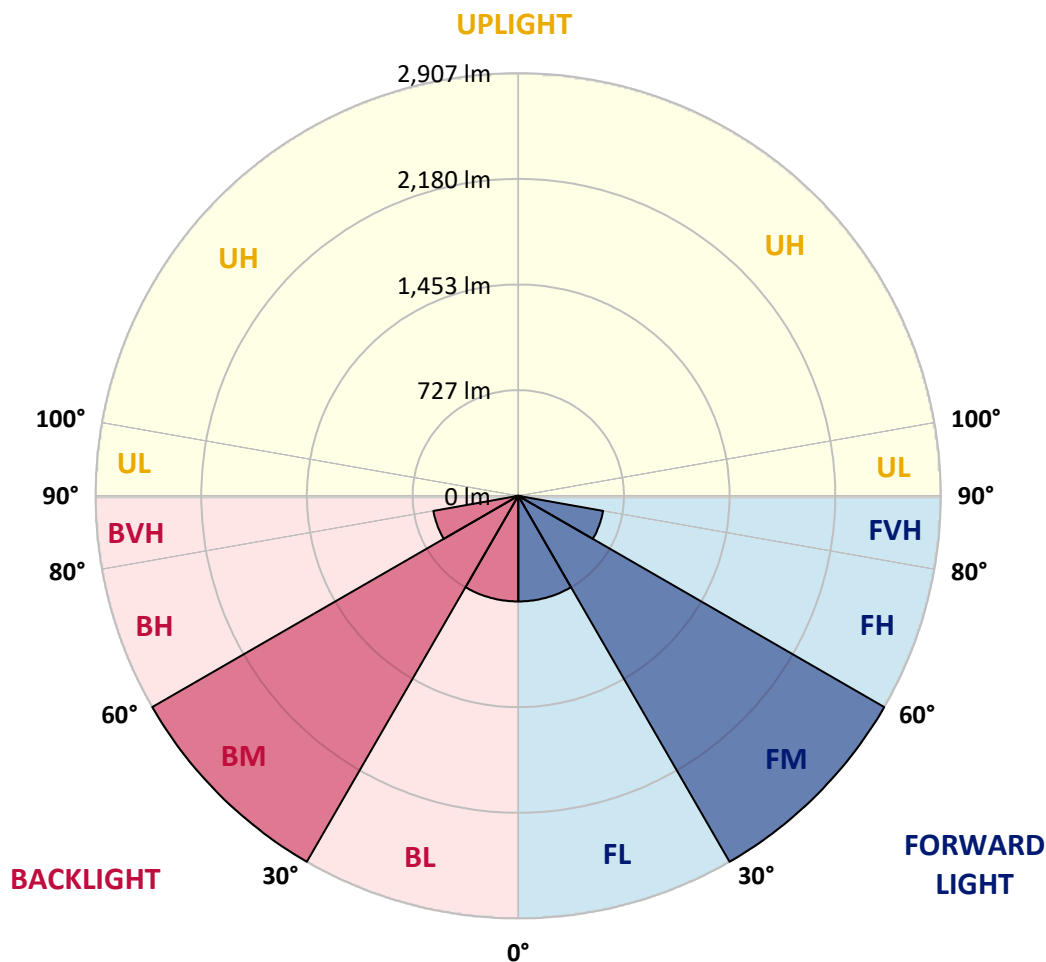
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	726.3	8.6			
FM (30°-60°)	2906.8	34.2			
FH (60°-80°)	592.6	7.0			G0/660
FVH (80°-90°)	21.3	0.3			G1/100
BL (0°-30°)	726.3	8.6	B2/1000		
BM (30°-60°)	2906.8	34.2	B3/5000		
BH (60°-80°)	592.6	7.0	B2/1000		G0/660
BVH (80°-90°)	21.3	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°	1677.5	1677.5	1677.5	1677.5	1677.5	1677.5	1677.5	1677.5	1677.5	1677.5	1677.5
2.5°	1669.1	1685.9	1678.6	1674.3	1677.5	1672.3	1663.9	1673.3	1671.2	1662.9	1659.7
5°	1664.9	1677.5	1669.1	1677.5	1669.1	1683.8	1679.6	1663.9	1682.8	1664.9	1671.2
7.5°	1661.8	1666.0	1668.1	1663.9	1660.8	1678.6	1669.1	1661.8	1651.4	1648.2	1653.5
10°	1654.5	1664.9	1649.3	1670.2	1674.3	1661.8	1661.8	1648.2	1639.9	1634.7	1652.4
12.5°	1673.3	1655.5	1653.5	1663.9	1667.0	1672.3	1657.6	1650.3	1634.7	1636.7	1633.6
15°	1651.4	1658.7	1659.7	1661.8	1664.9	1677.5	1663.9	1648.2	1642.0	1619.9	1622.0
17.5°	1659.7	1652.4	1659.7	1683.8	1679.6	1689.1	1674.3	1650.3	1635.7	1623.1	1639.9
20°	1674.3	1671.2	1674.3	1703.7	1708.9	1717.3	1704.7	1682.8	1654.5	1639.9	1648.2
22.5°	1690.1	1688.0	1690.1	1718.3	1748.7	1759.1	1746.6	1695.3	1680.7	1653.5	1644.1
25°	1718.3	1720.4	1742.4	1773.8	1793.7	1813.5	1790.6	1753.9	1706.8	1690.1	1670.2
27.5°	1781.2	1786.4	1798.9	1845.0	1879.5	1897.3	1864.8	1814.6	1785.3	1750.8	1745.6
30°	1858.5	1858.5	1880.6	1920.3	1967.4	1994.6	1954.8	1895.2	1859.6	1840.8	1829.3
32.5°	1961.1	1949.6	1958.0	2028.1	2101.3	2124.4	2071.0	1997.7	1941.2	1916.1	1907.7
35°	2049.0	2056.3	2075.2	2150.5	2232.2	2285.5	2201.8	2106.6	2049.0	2026.0	2021.8
37.5°	2163.1	2175.7	2185.1	2288.7	2387.0	2406.9	2326.4	2249.9	2179.9	2161.0	2150.5
40°	2324.3	2315.9	2319.1	2395.4	2484.4	2496.9	2417.4	2363.0	2305.4	2293.9	2293.9
42.5°	2457.1	2447.7	2458.2	2486.4	2554.5	2545.0	2501.1	2461.4	2437.3	2424.7	2437.3
45°	2537.7	2535.6	2554.5	2575.4	2623.6	2592.1	2557.6	2563.9	2540.9	2520.0	2518.9
47.5°	2625.6	2612.1	2635.0	2666.5	2629.8	2615.2	2613.1	2626.7	2619.4	2582.7	2571.2
50°	2668.6	2663.3	2699.9	2736.5	2716.7	2683.2	2690.5	2712.5	2618.3	2569.2	2540.9
52.5°	2783.6	2784.7	2854.9	2874.7	2866.3	2817.2	2832.8	2773.2	2662.3	2593.2	2596.3
55°	2964.7	2957.4	3035.8	3094.5	3103.9	3041.1	2965.8	2882.0	2742.8	2672.7	2651.8
57°	2865.3	2882.0	2968.9	3142.6	3230.5	3156.2	2991.9	2839.1	2653.9	2569.2	2531.5
57.5°	2732.4	2759.6	2910.3	3085.0	3177.1	3170.8	2959.5	2759.6	2594.2	2462.4	2465.6
60°	2001.9	2007.1	2143.2	2420.6	2708.3	2714.6	2457.1	2192.4	2008.2	1864.8	1884.8
62.5°	1055.9	1080.0	1134.4	1357.3	1606.4	1667.0	1511.1	1375.1	1216.0	1107.2	1117.7
65°	558.8	555.6	581.9	644.6	767.1	798.4	777.5	669.8	614.3	596.5	597.5
67.5°	454.1	459.4	456.2	459.4	467.8	481.4	478.3	482.4	485.6	490.8	489.8
70°	385.1	385.1	387.2	388.2	388.2	394.5	401.8	415.5	416.5	421.8	423.9
72.5°	303.5	301.4	304.5	311.8	312.9	318.2	328.6	337.0	340.1	340.1	333.8
75°	206.1	208.2	212.4	218.7	225.0	234.4	242.8	248.0	250.1	247.0	243.8
77.5°	116.1	118.2	121.4	130.8	138.2	146.5	155.9	161.1	166.3	167.4	161.1
80°	69.0	69.0	74.3	81.7	90.0	98.4	106.7	113.0	115.1	115.1	111.9
82.5°	41.9	42.9	47.1	54.4	61.7	66.9	74.3	79.6	83.7	82.7	80.6
85°	22.0	22.0	26.2	32.5	37.7	42.9	42.9	39.8	37.7	32.5	30.4
87.5°	7.3	6.3	8.4	8.4	7.3	8.4	8.4	9.4	9.4	9.4	9.4
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)