

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: P528066

Luminaire Tested: **GALN-SA3A-827-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528066
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-SA3A-827-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 615mA 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: 8858 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

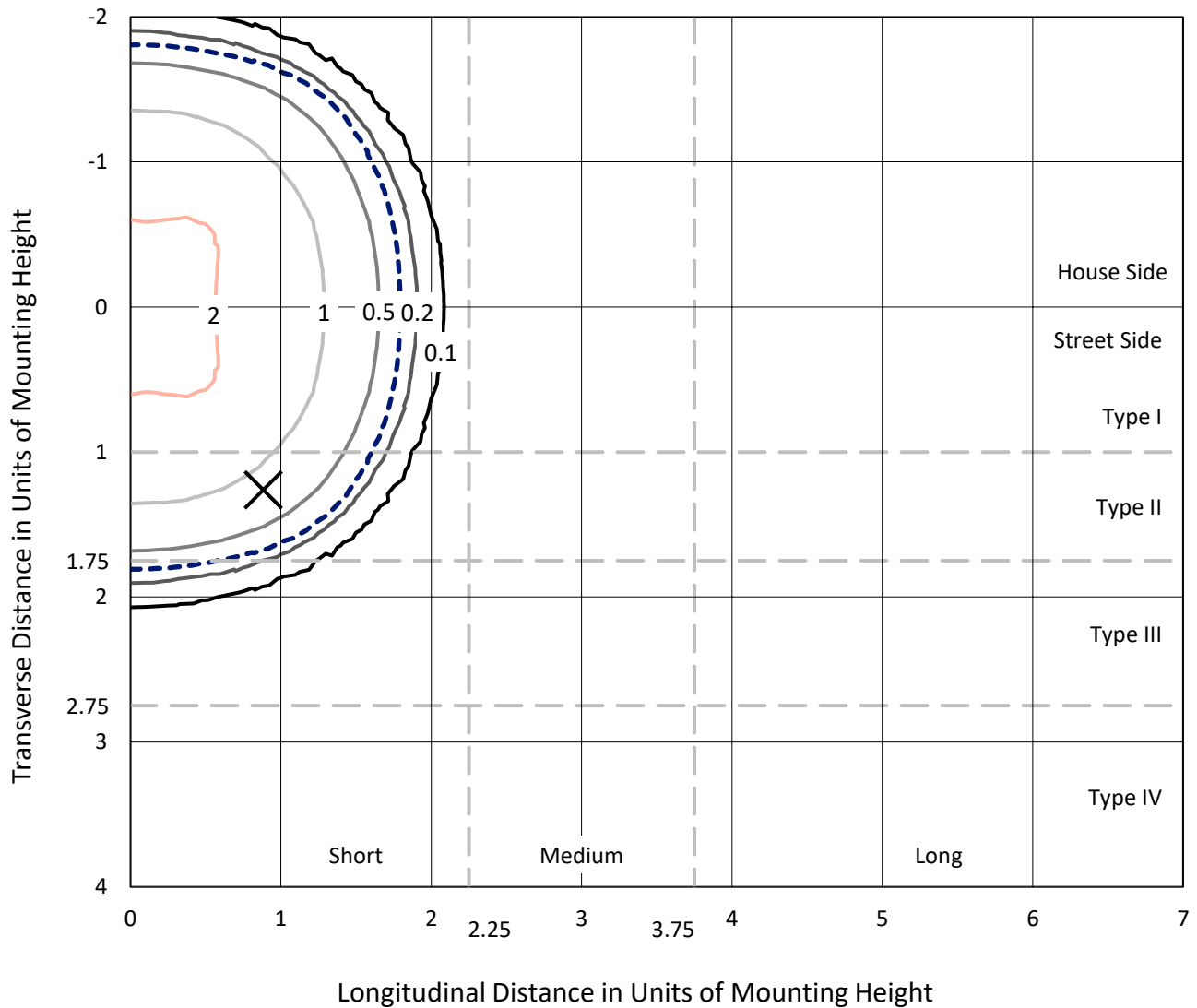
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

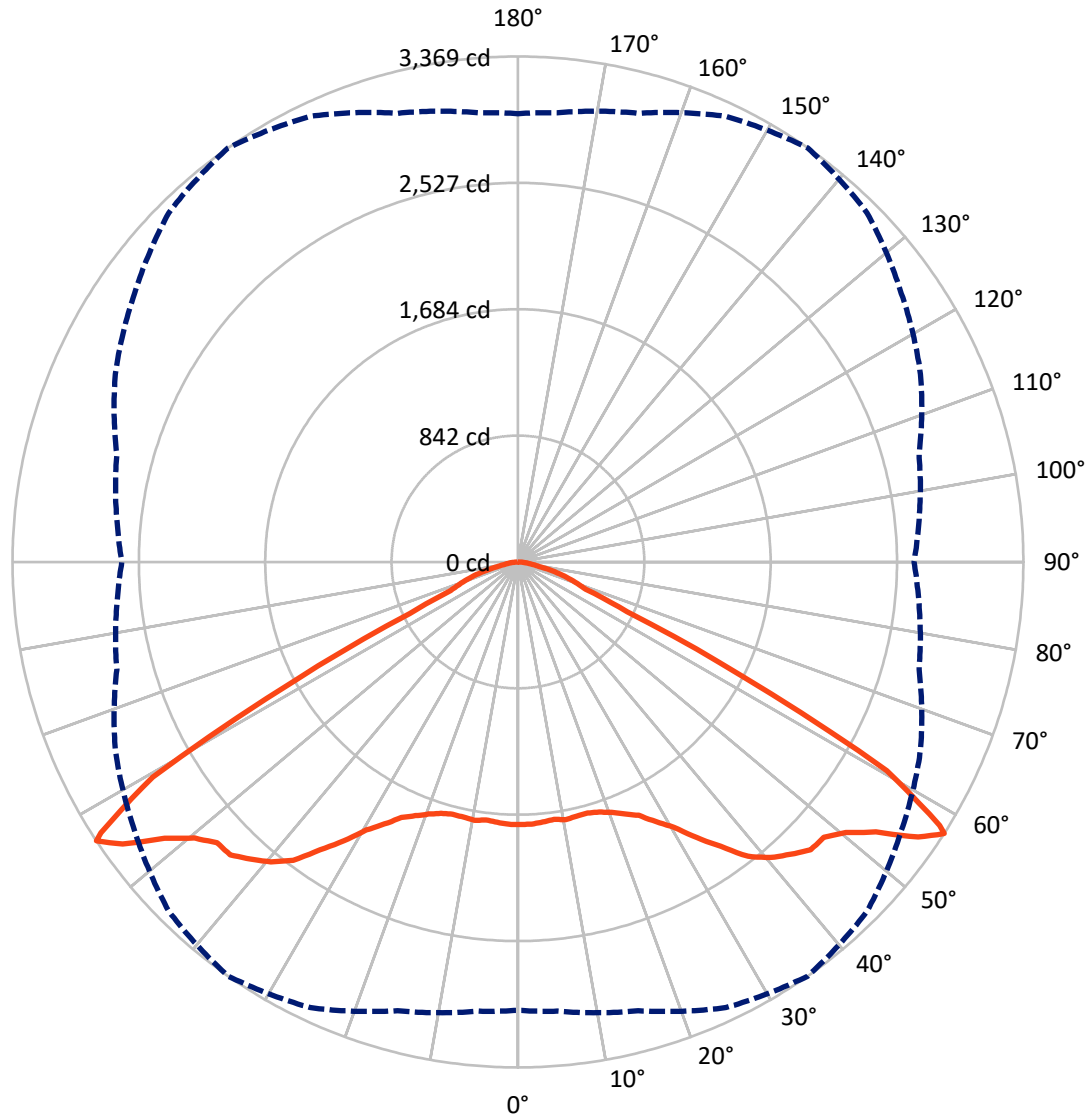
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 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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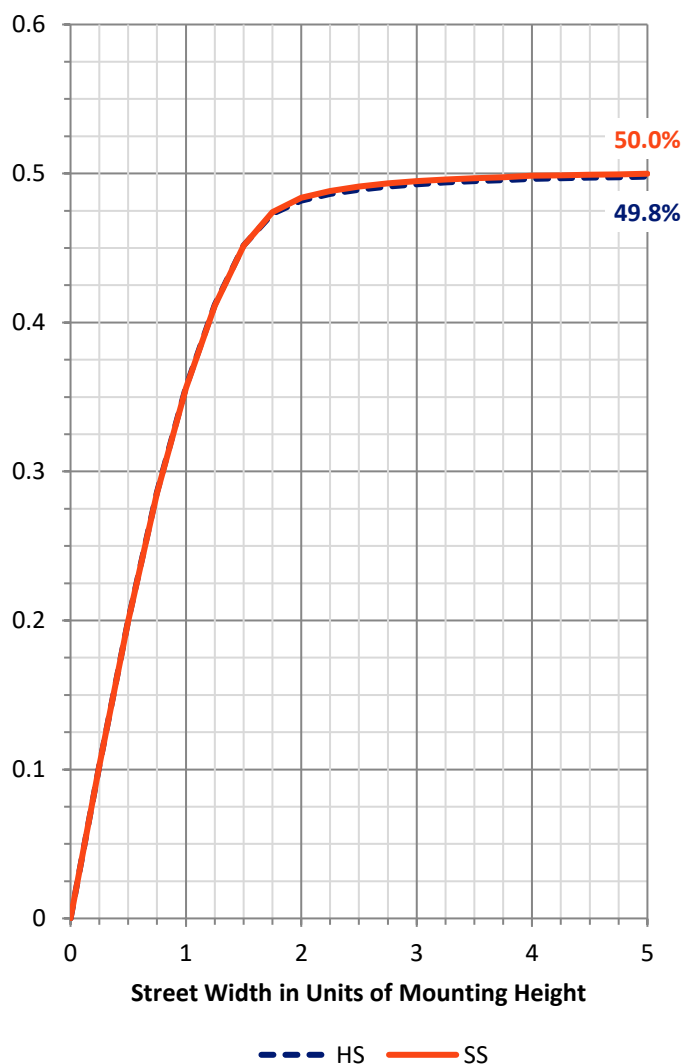
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4429.0	0.0	4429.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4429.0	0.0	4429.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	8858.0	0.0	8858.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.8	1.9
10°-20°	491.2	5.5
20°-30°	857.9	9.7
30°-40°	1405.6	15.9
40°-50°	2061.0	23.3
50°-60°	2596.0	29.3
60°-70°	976.3	11.0
70°-80°	259.6	2.9
80°-90°	44.5	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°	8858.0	100.0
0°-180°	8858.0	100.0

Coefficient of Utilization



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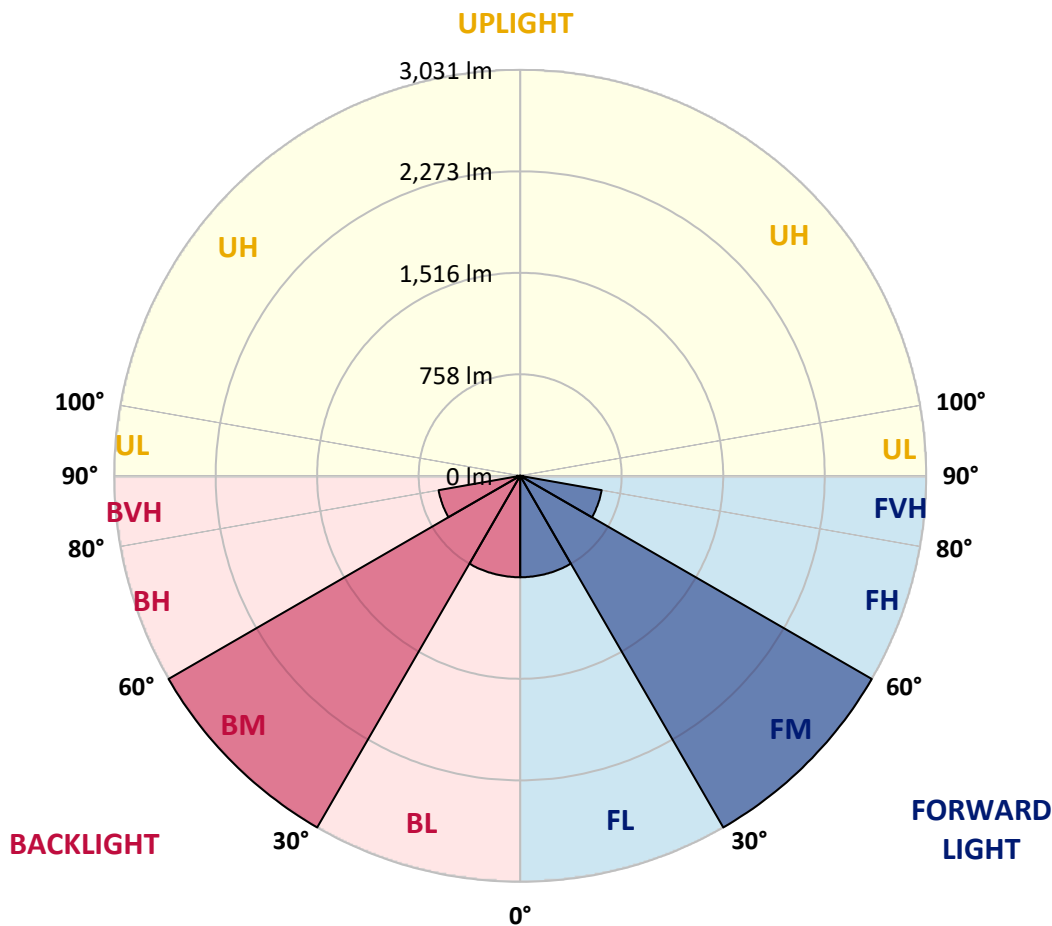
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	757.5	8.6			
FM (30°-60°)	3031.3	34.2			
FH (60°-80°)	618.0	7.0			G0/660
FVH (80°-90°)	22.2	0.3			G1/100
BL (0°-30°)	757.5	8.6	B2/1000		
BM (30°-60°)	3031.3	34.2	B3/5000		
BH (60°-80°)	618.0	7.0	B2/1000		G0/660
BVH (80°-90°)	22.2	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°	1749.4	1749.4	1749.4	1749.4	1749.4	1749.4	1749.4	1749.4	1749.4	1749.4	1749.4
2.5°	1740.7	1758.1	1750.5	1746.1	1749.4	1743.9	1735.2	1745.0	1742.8	1734.1	1730.8
5°	1736.3	1749.4	1740.7	1749.4	1740.7	1755.9	1751.6	1735.2	1754.8	1736.3	1742.8
7.5°	1733.0	1737.4	1739.6	1735.2	1731.9	1750.5	1740.7	1733.0	1722.1	1718.8	1724.3
10°	1725.4	1736.3	1719.9	1741.8	1746.1	1733.0	1733.0	1718.8	1710.1	1704.6	1723.2
12.5°	1745.0	1726.5	1724.3	1735.2	1738.5	1743.9	1728.7	1721.0	1704.6	1706.8	1703.6
15°	1722.1	1729.7	1730.8	1733.0	1736.3	1749.4	1735.2	1718.8	1712.3	1689.4	1691.5
17.5°	1730.8	1723.2	1730.8	1755.9	1751.6	1761.4	1746.1	1721.0	1705.7	1692.6	1710.1
20°	1746.1	1742.8	1746.1	1776.7	1782.1	1790.9	1777.8	1754.8	1725.4	1710.1	1718.8
22.5°	1762.5	1760.3	1762.5	1792.0	1823.6	1834.5	1821.4	1767.9	1752.7	1724.3	1714.5
25°	1792.0	1794.1	1817.1	1849.8	1870.5	1891.3	1867.3	1829.1	1779.9	1762.5	1741.8
27.5°	1857.4	1862.9	1876.0	1924.0	1960.0	1978.6	1944.7	1892.4	1861.8	1825.8	1820.3
30°	1938.2	1938.2	1961.1	2002.6	2051.7	2080.1	2038.6	1976.4	1939.3	1919.6	1907.6
32.5°	2045.1	2033.1	2041.9	2115.0	2191.4	2215.4	2159.7	2083.3	2024.4	1998.2	1989.5
35°	2136.8	2144.4	2164.1	2242.7	2327.8	2383.4	2296.1	2196.8	2136.8	2112.8	2108.4
37.5°	2255.8	2268.9	2278.7	2386.7	2489.3	2510.0	2426.0	2346.3	2273.2	2253.6	2242.7
40°	2423.8	2415.1	2418.4	2498.0	2590.8	2603.9	2521.0	2464.2	2404.2	2392.2	2392.2
42.5°	2562.4	2552.6	2563.5	2593.0	2663.9	2654.1	2608.3	2566.8	2541.7	2528.6	2541.7
45°	2646.5	2644.3	2663.9	2685.7	2735.9	2703.2	2667.2	2673.7	2649.7	2627.9	2626.8
47.5°	2738.1	2723.9	2747.9	2780.7	2742.5	2727.2	2725.0	2739.2	2731.6	2693.4	2681.4
50°	2782.9	2777.4	2815.6	2853.8	2833.1	2798.2	2805.8	2828.7	2730.5	2679.2	2649.7
52.5°	2902.9	2904.0	2977.1	2997.9	2989.1	2937.8	2954.2	2892.0	2776.3	2704.3	2707.6
55°	3091.7	3084.1	3165.9	3227.0	3236.9	3171.4	3092.8	3005.5	2860.4	2787.2	2765.4
57°	2988.0	3005.5	3096.1	3277.2	3368.9	3291.4	3120.1	2960.8	2767.6	2679.2	2639.9
57.5°	2849.4	2877.8	3035.0	3217.2	3313.3	3306.7	3086.3	2877.8	2705.4	2567.9	2571.2
60°	2087.7	2093.2	2235.0	2524.2	2824.3	2830.9	2562.4	2286.3	2094.2	1944.7	1965.5
62.5°	1101.1	1126.2	1183.0	1415.4	1675.2	1738.5	1575.9	1434.0	1268.1	1154.6	1165.5
65°	582.8	579.5	606.8	672.3	799.9	832.7	810.9	698.4	640.6	622.1	623.1
67.5°	473.6	479.1	475.8	479.1	487.8	502.0	498.7	503.1	506.4	511.8	510.7
70°	401.6	401.6	403.8	404.9	404.9	411.4	419.1	433.3	434.3	439.8	442.0
72.5°	316.5	314.3	317.6	325.2	326.3	331.8	342.7	351.4	354.7	354.7	348.1
75°	215.0	217.2	221.5	228.1	234.6	244.5	253.2	258.6	260.8	257.6	254.3
77.5°	121.1	123.3	126.6	136.4	144.1	152.8	162.6	168.1	173.5	174.6	168.1
80°	72.0	72.0	77.5	85.1	93.9	102.6	111.3	117.9	120.0	120.0	116.8
82.5°	43.7	44.7	49.1	56.7	64.4	69.8	77.5	82.9	87.3	86.2	84.0
85°	22.9	22.9	27.3	33.8	39.3	44.7	44.7	41.5	39.3	33.8	31.6
87.5°	7.6	6.5	8.7	8.7	7.6	8.7	8.7	9.8	9.8	9.8	9.8
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)