

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: P528070

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

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528070  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-2)  
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-5WQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8514 lumens  
Efficiency: N/A  
Efficacy: 91.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G1

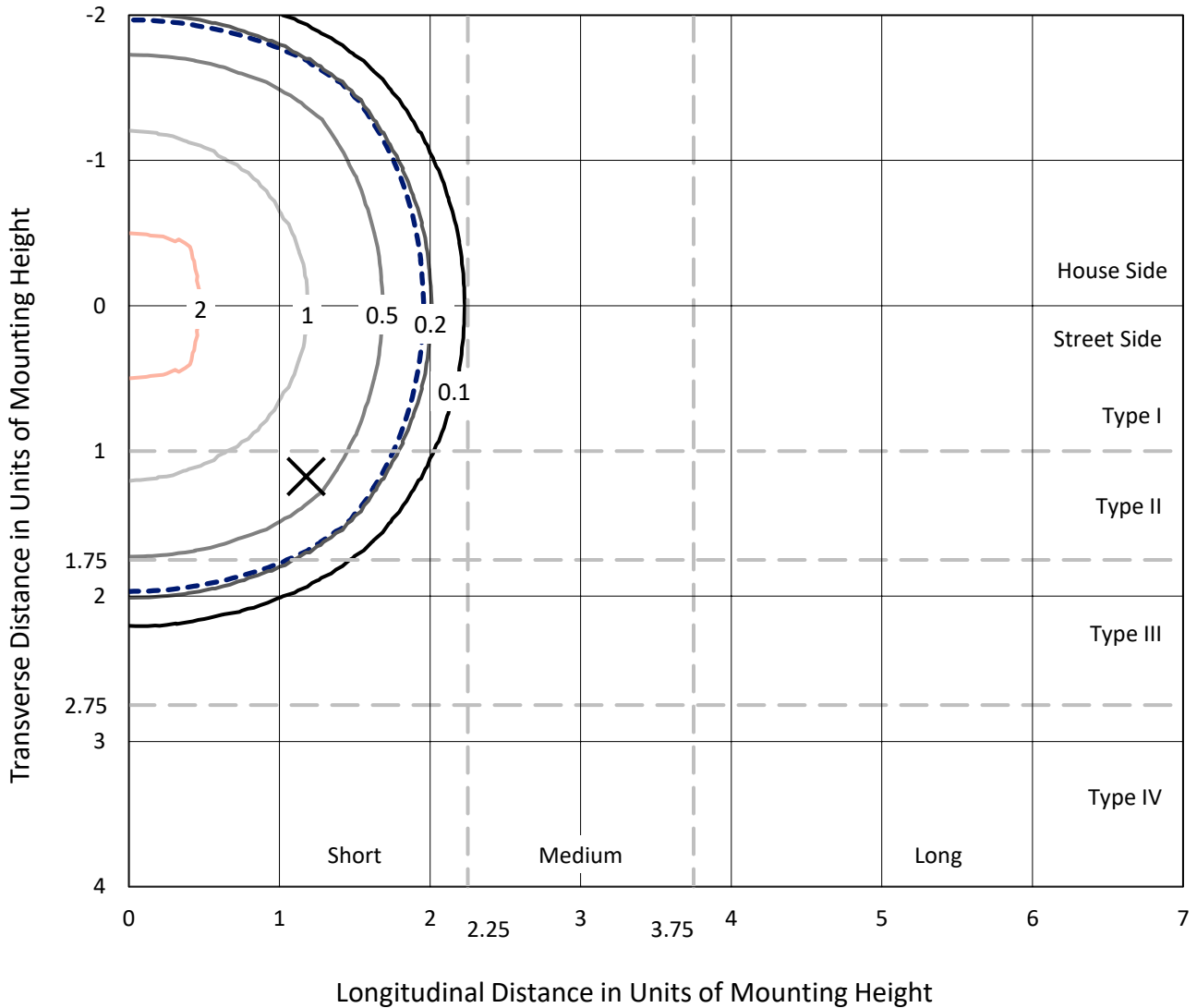
Input Watts (W): 93  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

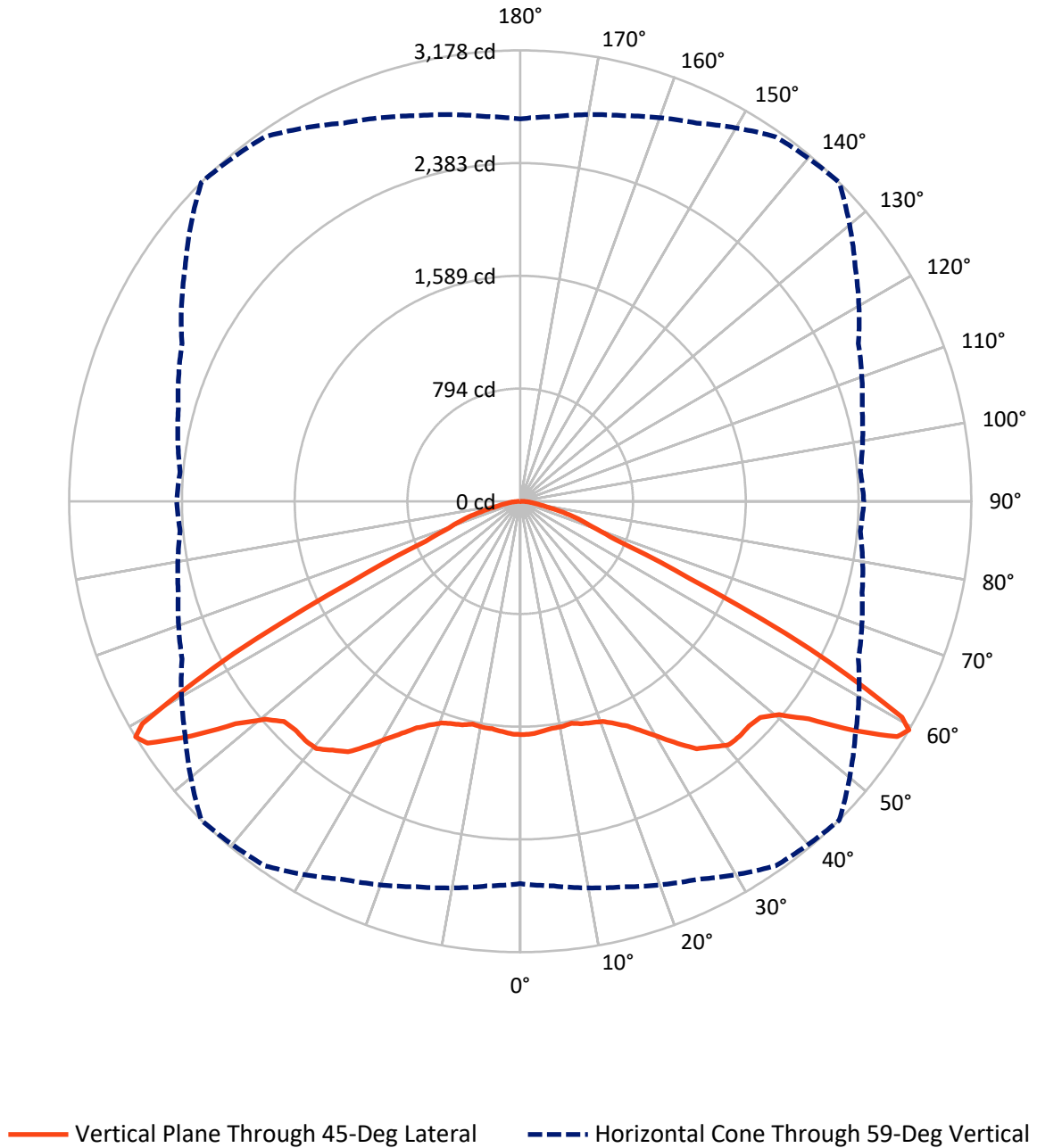
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



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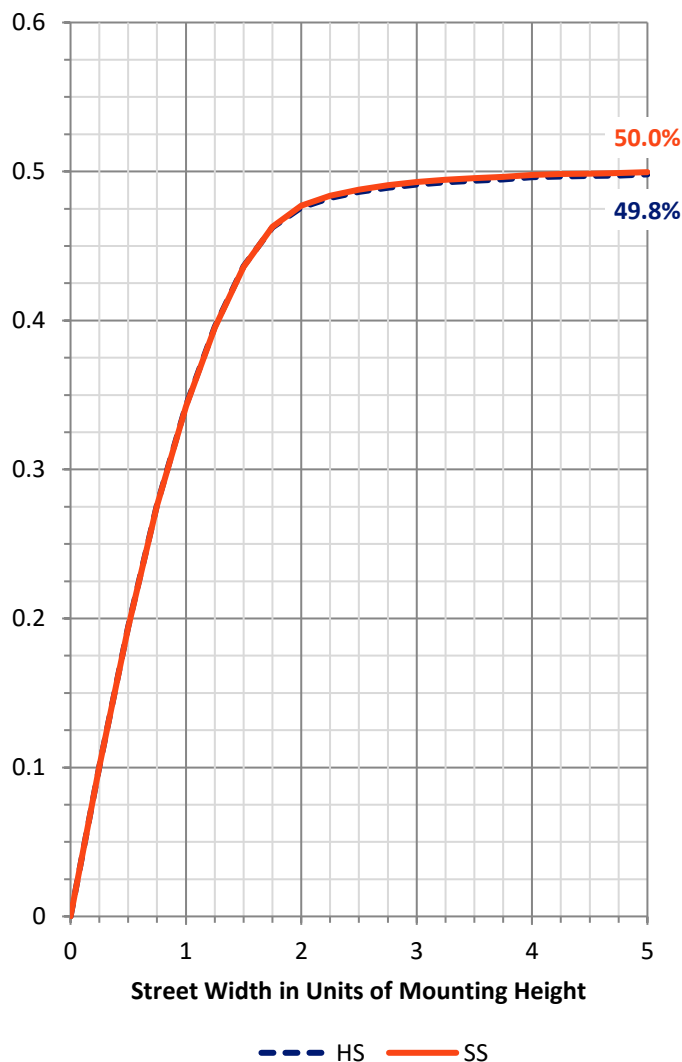
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4257.0	0.0	4257.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	4257.0	0.0	4257.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	8514.0	0.0	8514.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	155.0	1.8
10°-20°	461.0	5.4
20°-30°	805.0	9.5
30°-40°	1285.7	15.1
40°-50°	1751.3	20.6
50°-60°	2368.3	27.8
60°-70°	1298.8	15.3
70°-80°	332.3	3.9
80°-90°	56.7	0.7
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°	8514.0	100.0
0°-180°	8514.0	100.0

**Coefficient of Utilization**



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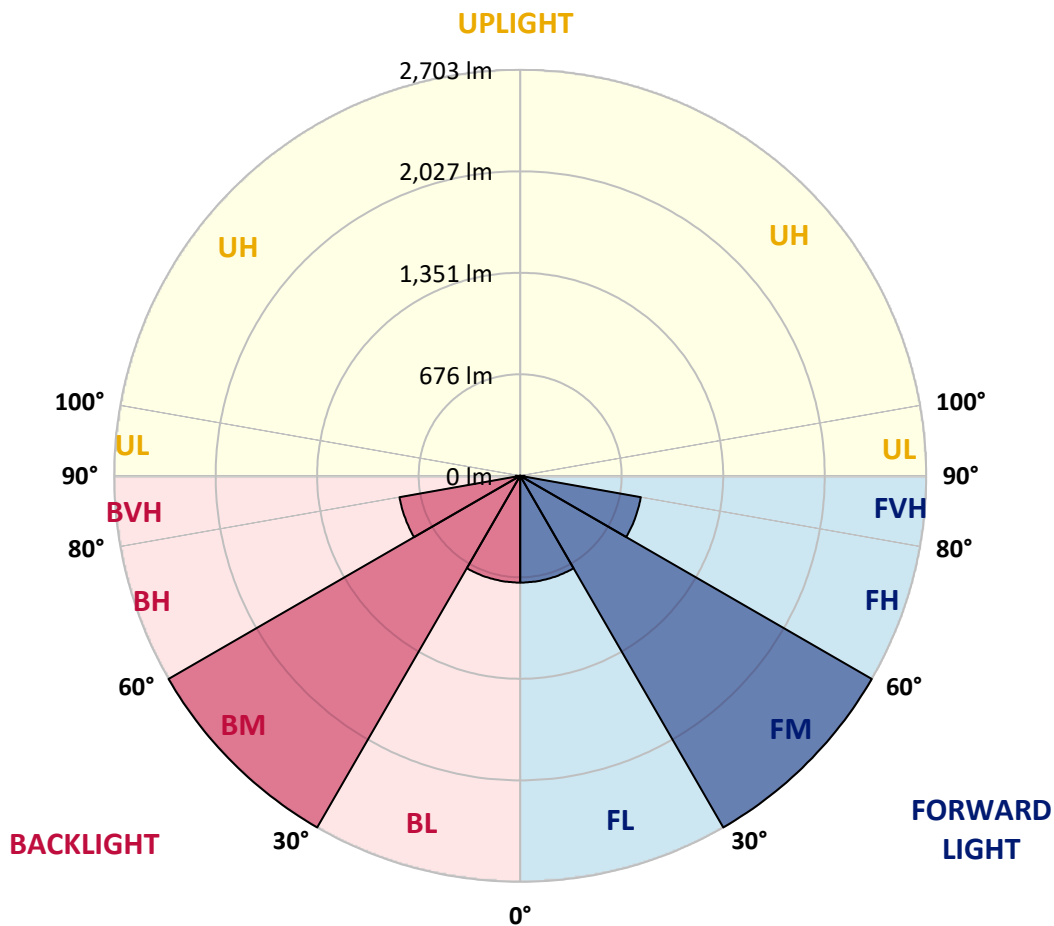
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	710.5	8.3			
FM (30°-60°)	2702.6	31.7			
FH (60°-80°)	815.5	9.6			G1/1800
FVH (80°-90°)	28.3	0.3			G1/100
BL (0°-30°)	710.5	8.3	B2/1000		
BM (30°-60°)	2702.6	31.7	B3/5000		
BH (60°-80°)	815.5	9.6	B2/1000		G1/1800
BVH (80°-90°)	28.3	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°	1644.5	1644.5	1644.5	1644.5	1644.5	1644.5	1644.5	1644.5	1644.5	1644.5	1644.5
2.5°	1634.7	1646.7	1638.0	1645.6	1644.5	1641.2	1635.8	1632.5	1628.1	1634.7	1623.8
5°	1628.1	1638.0	1647.8	1634.7	1634.7	1628.1	1624.9	1618.3	1618.3	1617.2	1616.1
7.5°	1639.0	1629.2	1624.9	1627.0	1629.2	1615.0	1624.9	1611.8	1600.8	1608.5	1617.2
10°	1629.2	1633.6	1617.2	1624.9	1612.9	1615.0	1608.5	1617.2	1605.2	1605.2	1605.2
12.5°	1639.0	1627.0	1632.5	1627.0	1623.8	1605.2	1613.9	1604.1	1603.0	1613.9	1604.1
15°	1658.7	1639.0	1634.7	1623.8	1627.0	1627.0	1618.3	1619.4	1607.4	1613.9	1616.1
17.5°	1652.1	1641.2	1638.0	1624.9	1635.8	1639.0	1622.7	1611.8	1619.4	1618.3	1617.2
20°	1657.6	1662.0	1658.7	1660.9	1665.2	1656.5	1641.2	1625.9	1616.1	1630.3	1629.2
22.5°	1692.5	1688.1	1686.0	1683.8	1691.4	1700.2	1679.4	1655.4	1655.4	1665.2	1669.6
25°	1720.9	1719.8	1718.7	1728.5	1754.7	1754.7	1728.5	1698.0	1690.3	1696.9	1691.4
27.5°	1762.4	1774.4	1770.0	1787.4	1825.6	1834.4	1799.5	1763.4	1742.7	1735.1	1744.9
30°	1857.3	1843.1	1846.4	1864.9	1898.8	1927.1	1873.7	1835.5	1807.1	1806.0	1810.4
32.5°	1920.6	1931.5	1941.3	1958.8	2012.2	2034.1	1969.7	1907.5	1890.0	1880.2	1883.5
35°	2047.2	2037.3	2035.2	2052.6	2106.1	2142.1	2061.4	2006.8	1983.9	2005.7	2005.7
37.5°	2167.2	2139.9	2119.2	2142.1	2191.2	2195.6	2126.8	2097.4	2085.4	2110.5	2109.4
40°	2223.9	2221.8	2173.7	2186.8	2252.3	2258.9	2194.5	2159.6	2157.4	2190.1	2222.9
42.5°	2282.9	2262.1	2214.1	2222.9	2263.2	2265.4	2204.3	2194.5	2218.5	2250.1	2252.3
45°	2292.7	2275.2	2244.7	2222.9	2252.3	2258.9	2222.9	2229.4	2231.6	2269.8	2269.8
47.5°	2312.3	2310.2	2292.7	2276.3	2281.8	2276.3	2253.4	2263.2	2296.0	2314.5	2305.8
50°	2366.9	2344.0	2361.4	2347.3	2348.3	2363.6	2342.9	2352.7	2346.2	2329.8	2318.9
52.5°	2486.9	2476.0	2491.3	2501.1	2512.0	2547.0	2522.9	2470.6	2421.5	2377.8	2376.7
55°	2662.6	2670.3	2699.7	2749.9	2792.5	2848.1	2732.5	2607.0	2528.4	2459.7	2464.0
57.5°	2828.5	2823.0	2863.4	2978.0	3102.4	3130.8	2903.8	2724.8	2597.1	2553.5	2534.9
59°	2695.4	2721.6	2813.2	2940.9	3136.2	3177.7	2880.9	2628.8	2493.5	2405.1	2420.4
60°	2485.8	2495.7	2577.5	2755.4	3019.5	3090.4	2727.0	2480.4	2300.3	2249.0	2272.0
62.5°	1756.9	1749.3	1808.2	1953.3	2190.1	2286.1	2027.5	1854.0	1740.5	1683.8	1696.9
65°	934.1	969.0	993.0	1083.6	1209.1	1310.6	1203.6	1128.3	1065.0	1018.1	1017.0
67.5°	630.7	626.4	631.8	652.6	695.1	723.5	721.3	683.1	677.7	668.9	678.8
70°	531.4	529.3	519.4	519.4	528.2	534.7	542.3	546.7	555.4	566.4	565.3
72.5°	431.0	425.6	419.0	415.8	426.7	429.9	439.8	444.1	451.8	450.7	460.5
75°	284.8	284.8	292.5	301.2	304.5	311.0	312.1	325.2	325.2	327.4	318.6
77.5°	159.3	155.0	160.4	169.1	176.8	188.8	200.8	210.6	216.1	213.9	213.9
80°	92.8	92.8	98.2	108.0	117.9	128.8	137.5	145.1	150.6	148.4	144.0
82.5°	57.8	57.8	63.3	73.1	80.8	87.3	99.3	109.1	115.7	113.5	108.0
85°	29.5	29.5	36.0	42.6	52.4	56.7	55.7	51.3	50.2	44.7	44.7
87.5°	7.6	7.6	10.9	12.0	9.8	10.9	10.9	10.9	10.9	10.9	12.0
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)