

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: P458688

Luminaire Tested: **GALN-SA2C-735-U-5NQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458688  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA2C-735-U-5NQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13745 lumens  
Efficiency: N/A  
Efficacy: 127.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G2

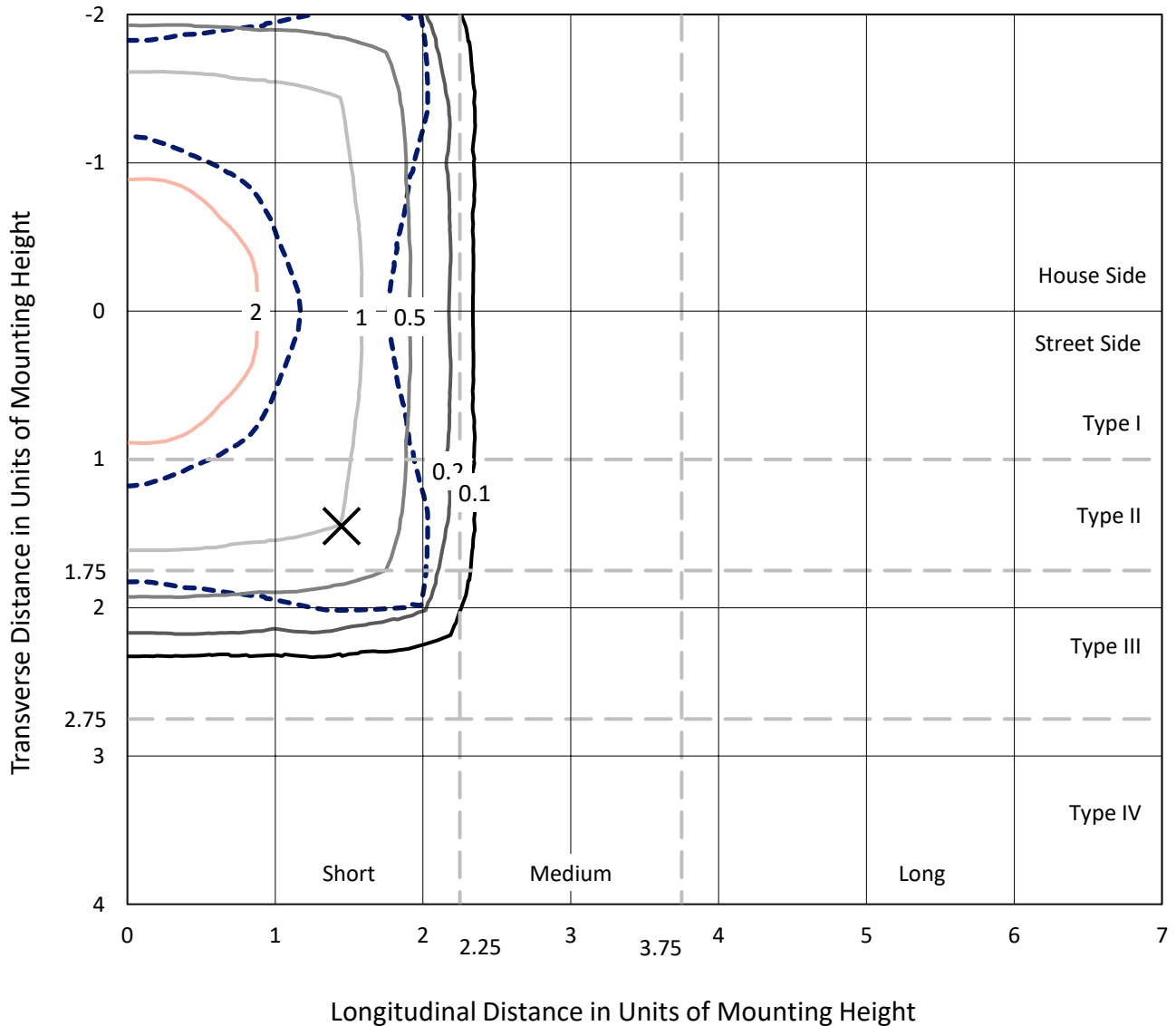
Input Watts (W): 108  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

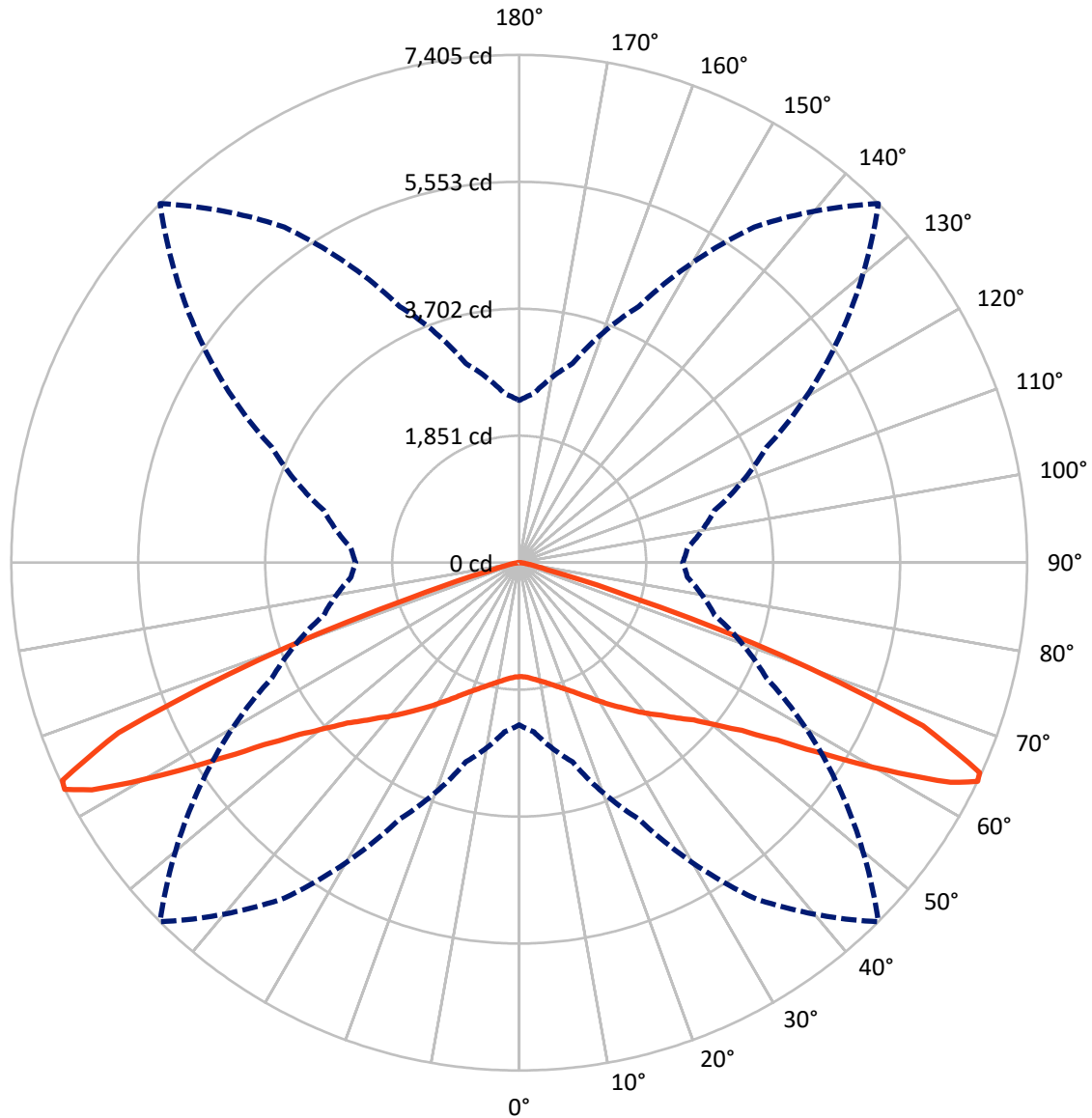
× Max cd  
 - - - 1/2 Max cd



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 45-Deg Lateral    - - - Horizontal Cone Through 64-Deg Vertical

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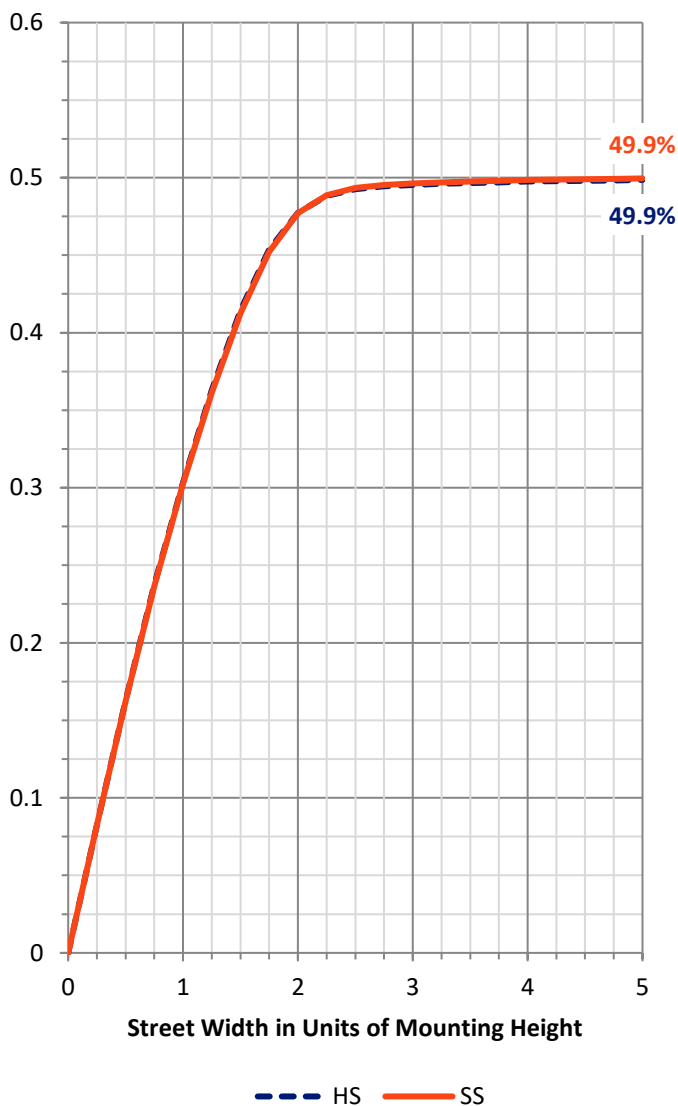
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6872.5	0.0	6872.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	6872.5	0.0	6872.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	13745.0	0.0	13745.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	163.2	1.2
10°-20°	526.5	3.8
20°-30°	994.9	7.2
30°-40°	1647.6	12.0
40°-50°	2572.2	18.7
50°-60°	3976.6	28.9
60°-70°	3428.9	24.9
70°-80°	388.6	2.8
80°-90°	46.6	0.3
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°	13745.0	100.0
0°-180°	13745.0	100.0

**Coefficient of Utilization**



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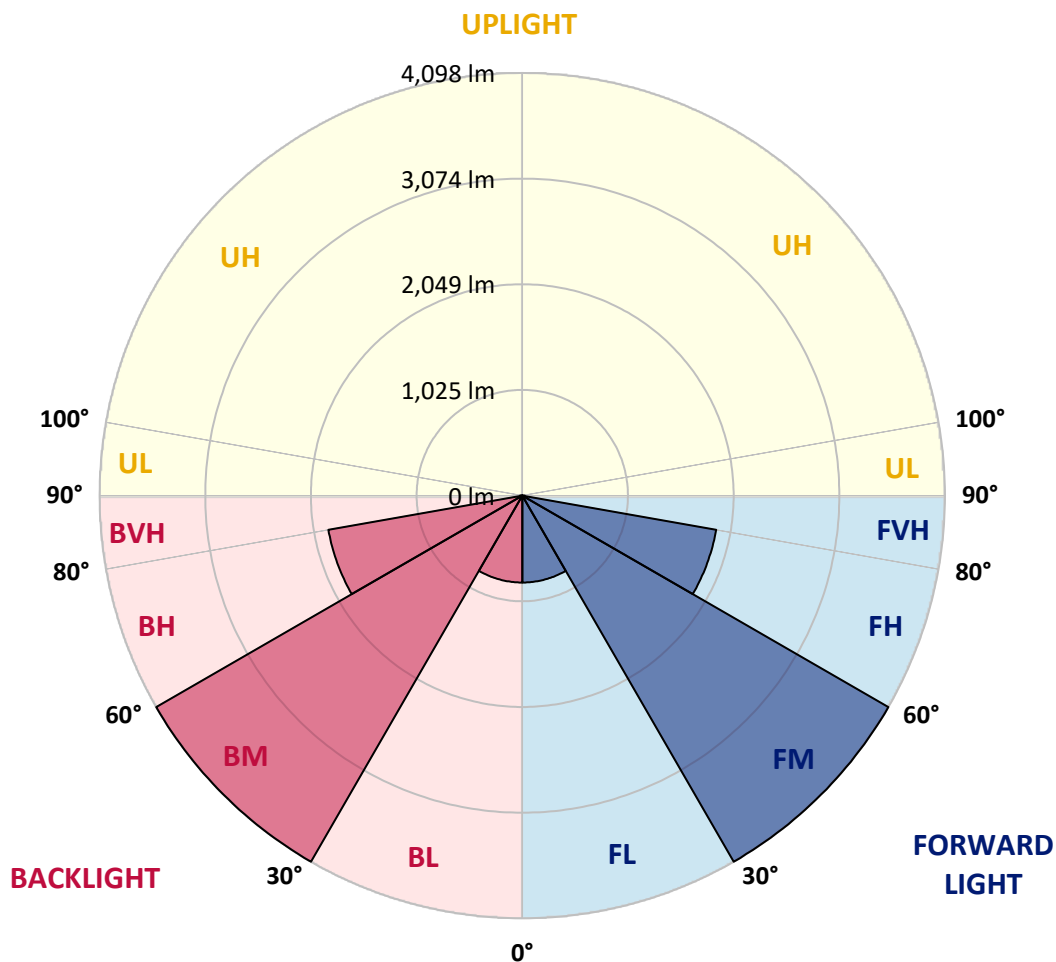
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	842.3	6.1			
FM	(30°-60°)	4098.2	29.8			
FH	(60°-80°)	1908.8	13.9			G2/5000
FVH	(80°-90°)	23.3	0.2			G1/100
BL	(0°-30°)	842.3	6.1	B2/1000		
BM	(30°-60°)	4098.2	29.8	B3/5000		
BH	(60°-80°)	1908.8	13.9	B3/2500		G2/5000
BVH	(80°-90°)	23.3	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-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1661.3	1661.3	1661.3	1661.3	1661.3	1661.3	1661.3	1661.3	1661.3	1661.3	1661.3
2.5°	1667.9	1671.5	1668.6	1667.9	1667.1	1667.1	1667.1	1667.9	1670.8	1673.0	1671.5
5°	1689.0	1691.9	1690.4	1689.7	1689.0	1689.7	1688.3	1687.5	1689.7	1689.7	1689.0
7.5°	1715.2	1718.8	1717.4	1718.8	1719.6	1720.3	1716.6	1713.7	1713.0	1715.2	1713.7
10°	1750.9	1753.8	1754.5	1755.2	1756.7	1756.0	1751.6	1746.5	1745.8	1745.0	1744.3
12.5°	1790.9	1793.1	1793.8	1796.7	1798.9	1799.6	1794.5	1790.2	1782.9	1784.3	1781.4
15°	1836.0	1840.4	1839.7	1844.0	1849.9	1851.3	1846.2	1838.9	1832.4	1828.8	1826.6
17.5°	1891.4	1894.3	1892.8	1897.2	1904.5	1908.1	1903.7	1894.3	1887.7	1879.7	1875.3
20°	1956.9	1962.0	1963.4	1963.4	1970.0	1973.6	1967.1	1964.2	1954.0	1948.1	1944.5
22.5°	2031.1	2033.3	2037.7	2042.1	2048.6	2047.2	2045.0	2040.6	2031.1	2026.0	2020.2
25°	2114.9	2117.0	2128.0	2137.4	2139.6	2138.2	2135.2	2133.1	2124.3	2112.7	2108.3
27.5°	2212.4	2216.8	2231.3	2240.1	2240.1	2240.8	2235.0	2242.3	2223.3	2209.5	2208.0
30°	2334.7	2337.6	2350.0	2358.7	2354.4	2350.7	2349.3	2356.6	2336.2	2311.4	2305.6
32.5°	2455.6	2465.8	2476.7	2495.6	2480.3	2473.8	2472.3	2477.4	2454.1	2426.5	2418.4
35°	2585.2	2592.4	2612.8	2628.8	2615.0	2599.7	2606.3	2622.3	2594.6	2557.5	2556.0
37.5°	2728.6	2735.1	2761.3	2778.1	2767.9	2741.7	2752.6	2771.5	2743.9	2698.0	2688.5
40°	2877.8	2891.6	2924.4	2941.9	2925.1	2890.2	2910.6	2931.0	2906.2	2853.1	2832.0
42.5°	3045.3	3067.1	3114.4	3123.2	3091.1	3043.8	3079.5	3112.2	3094.8	3033.6	3025.6
45°	3241.1	3254.2	3312.4	3331.4	3287.0	3228.0	3272.4	3332.1	3319.0	3248.4	3233.1
47.5°	3460.2	3472.6	3533.0	3561.4	3505.4	3426.0	3506.1	3584.0	3576.0	3500.3	3493.0
50°	3719.4	3722.3	3806.0	3838.1	3782.0	3713.6	3784.9	3881.7	3849.7	3752.9	3751.4
52.5°	4003.3	4007.0	4112.5	4174.4	4143.1	4065.9	4150.4	4209.3	4127.8	4001.1	3991.7
55°	4249.4	4267.6	4411.7	4576.3	4619.2	4563.2	4588.6	4561.0	4360.0	4182.4	4154.7
57.5°	4349.8	4385.5	4604.7	4911.9	5191.4	5274.4	5077.9	4814.3	4452.5	4201.3	4174.4
60°	4104.5	4143.1	4483.1	5066.2	5779.7	6140.0	5587.5	4857.3	4242.1	3889.0	3846.8
62.5°	3287.0	3297.9	3798.0	4702.9	6122.5	7055.9	5802.2	4491.1	3629.8	3150.1	3133.3
64°	2365.3	2477.4	3007.4	4123.4	5972.6	7404.6	5678.5	3977.8	2948.4	2462.9	2384.2
65°	1769.1	1799.6	2424.3	3521.4	5708.3	7378.4	5438.2	3487.2	2441.7	1884.8	1797.5
67.5°	668.3	672.0	894.7	1755.2	4063.7	6348.2	4150.4	1897.2	1028.7	744.0	717.1
70°	277.4	282.5	328.3	590.4	1746.5	4076.1	2001.3	684.3	376.4	305.0	300.7
72.5°	203.1	206.0	219.9	262.1	537.3	1673.7	658.1	290.5	220.6	197.3	195.1
75°	159.4	160.9	171.1	192.9	250.4	463.7	273.7	199.5	168.2	151.4	150.0
77.5°	121.6	125.2	132.5	147.1	168.2	219.9	181.3	149.2	129.6	115.8	113.6
80°	83.7	88.1	101.9	107.7	112.8	142.7	123.8	112.8	101.2	84.4	79.4
82.5°	51.7	54.6	68.4	73.5	71.3	80.1	79.4	80.8	72.1	52.4	48.8
85°	26.9	28.4	37.1	38.6	35.7	32.8	40.8	47.3	44.4	29.8	29.1
87.5°	5.8	6.6	8.0	7.3	8.0	8.0	10.2	15.3	16.0	10.2	9.5
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)