

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: P647804

Luminaire Tested: **GALN-SA3A-835-U-5MQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647804  
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-835-U-5MQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3500K, 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: 9435.1 lumens  
Efficiency: N/A  
Efficacy: 101.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G1

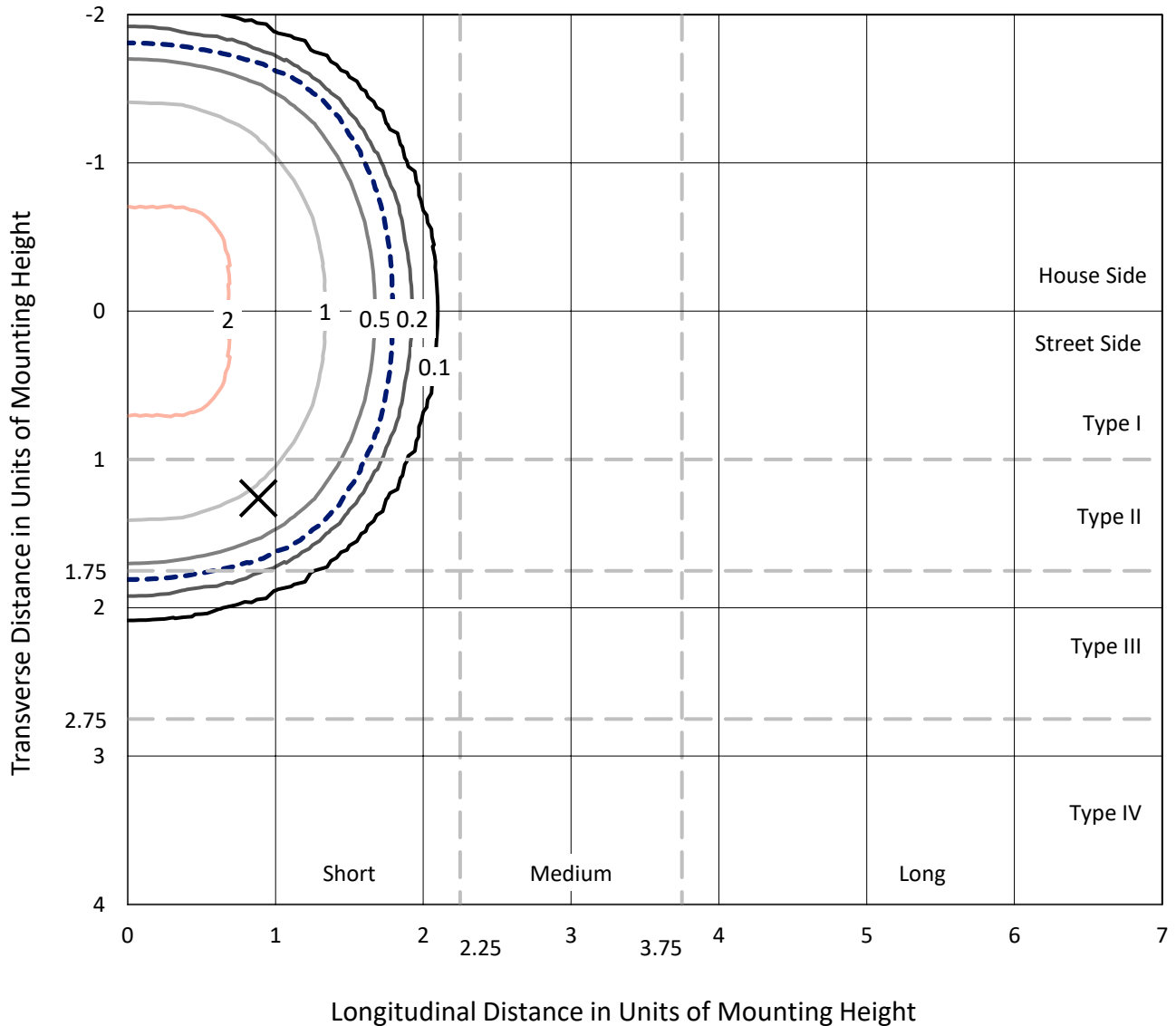
Input Watts (W): 93  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

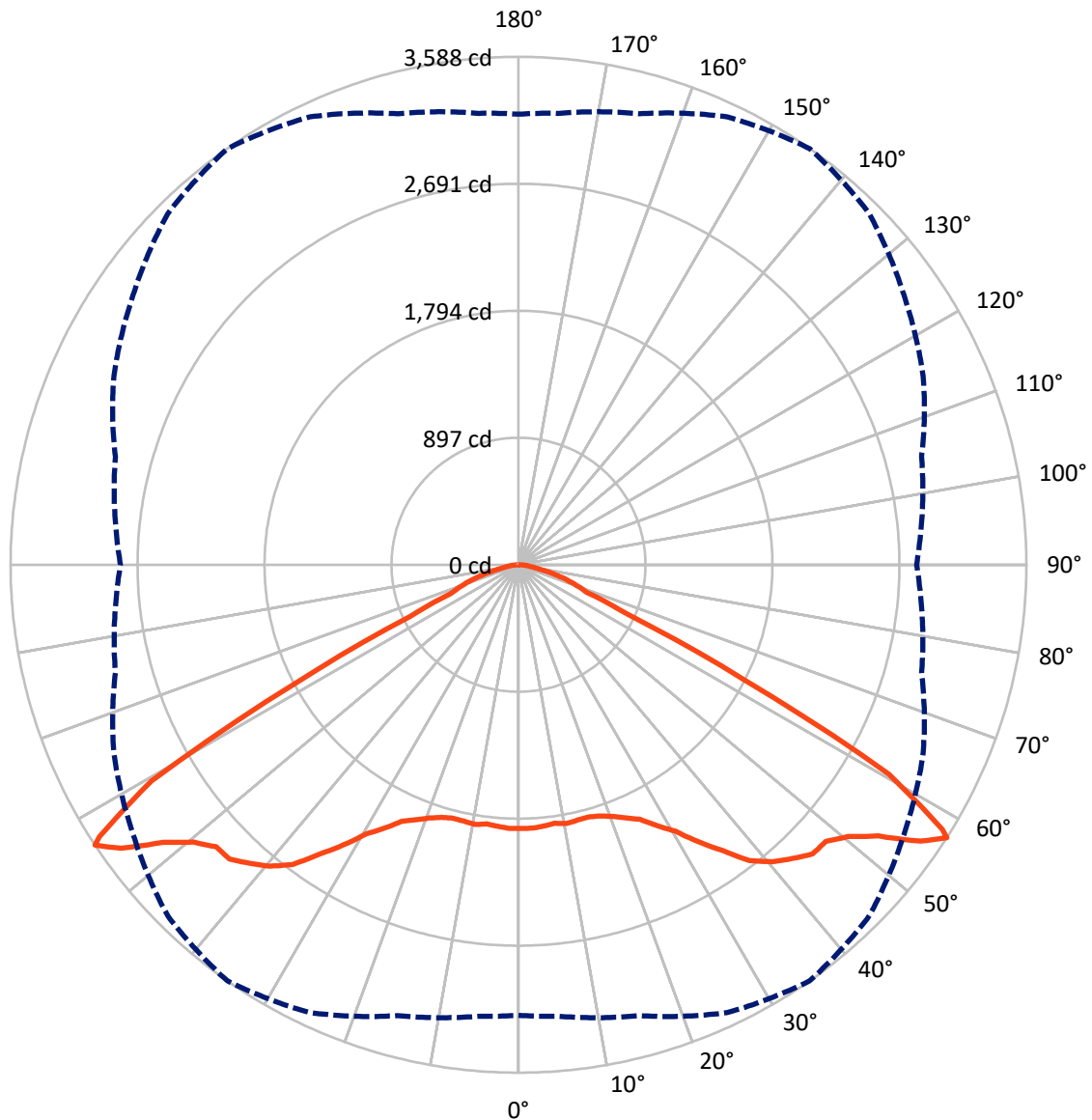
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 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	4717.6	0.0	4717.6
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	4717.6	0.0	4717.6
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	9435.1	0.0	9435.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	176.7	1.9
10°-20°	523.2	5.5
20°-30°	913.8	9.7
30°-40°	1497.2	15.9
40°-50°	2195.3	23.3
50°-60°	2765.1	29.3
60°-70°	1039.9	11.0
70°-80°	276.5	2.9
80°-90°	47.4	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°	9435.1	100.0
0°-180°	9435.1	100.0

**Coefficient of Utilization**



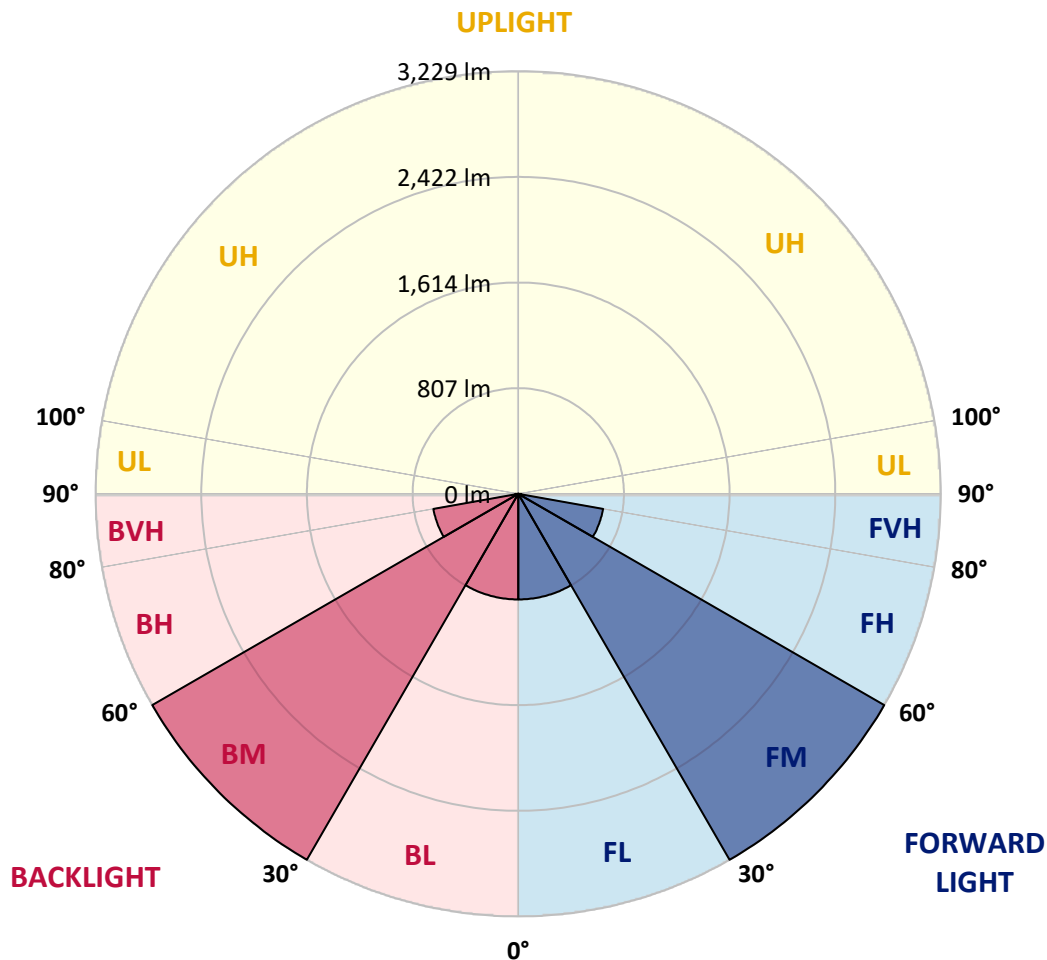
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	806.8	8.6			
FM (30°-60°)	3228.8	34.2			
FH (60°-80°)	658.2	7.0			G0/660
FVH (80°-90°)	23.7	0.3			G1/100
BL (0°-30°)	806.8	8.6	B2/1000		
BM (30°-60°)	3228.8	34.2	B3/5000		
BH (60°-80°)	658.2	7.0	B2/1000		G0/660
BVH (80°-90°)	23.7	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°	1863.4	1863.4	1863.4	1863.4	1863.4	1863.4	1863.4	1863.4	1863.4	1863.4	1863.4
2.5°	1854.1	1872.7	1864.6	1859.9	1863.4	1857.6	1848.3	1858.7	1856.4	1847.1	1843.6
5°	1849.4	1863.4	1854.1	1863.4	1854.1	1870.4	1865.7	1848.3	1869.2	1849.4	1856.4
7.5°	1845.9	1850.6	1852.9	1848.3	1844.7	1864.6	1854.1	1845.9	1834.3	1830.8	1836.6
10°	1837.8	1849.4	1832.0	1855.2	1859.9	1845.9	1845.9	1830.8	1821.5	1815.7	1835.5
12.5°	1858.7	1839.0	1836.6	1848.3	1851.7	1857.6	1841.3	1833.2	1815.7	1818.0	1814.5
15°	1834.3	1842.5	1843.6	1845.9	1849.4	1863.4	1848.3	1830.8	1823.8	1799.4	1801.8
17.5°	1843.6	1835.5	1843.6	1870.4	1865.7	1876.1	1859.9	1833.2	1816.9	1802.9	1821.5
20°	1859.9	1856.4	1859.9	1892.4	1898.2	1907.5	1893.6	1869.2	1837.8	1821.5	1830.8
22.5°	1877.3	1875.0	1877.3	1908.7	1942.4	1954.1	1940.1	1883.1	1866.8	1836.6	1826.2
25°	1908.7	1911.1	1935.4	1970.3	1992.4	2014.5	1988.9	1948.3	1896.0	1877.3	1855.2
27.5°	1978.5	1984.3	1998.2	2049.3	2087.7	2107.4	2071.4	2015.7	1983.1	1944.7	1938.9
30°	2064.5	2064.5	2088.9	2133.0	2185.4	2215.6	2171.4	2105.2	2065.6	2044.7	2032.0
32.5°	2178.4	2165.6	2174.9	2252.8	2334.1	2359.7	2300.5	2219.1	2156.3	2128.4	2119.1
35°	2276.0	2284.2	2305.1	2388.8	2479.4	2538.7	2445.8	2340.0	2276.0	2250.5	2245.8
37.5°	2402.7	2416.7	2427.1	2542.2	2651.5	2673.6	2584.1	2499.3	2421.3	2400.4	2388.8
40°	2581.8	2572.5	2575.9	2660.8	2759.6	2773.5	2685.2	2624.8	2560.8	2548.0	2548.0
42.5°	2729.4	2718.9	2730.6	2762.0	2837.5	2827.0	2778.2	2734.0	2707.3	2693.4	2707.3
45°	2818.9	2816.5	2837.5	2860.8	2914.2	2879.3	2841.0	2847.9	2822.4	2799.1	2798.0
47.5°	2916.5	2901.4	2927.0	2961.9	2921.2	2904.9	2902.6	2917.7	2909.5	2868.9	2856.1
50°	2964.2	2958.4	2999.0	3039.8	3017.7	2980.5	2988.6	3013.0	2908.4	2853.8	2822.4
52.5°	3092.1	3093.2	3171.1	3193.2	3183.9	3129.3	3146.7	3080.4	2957.2	2880.5	2883.9
55°	3293.1	3285.0	3372.2	3437.3	3447.8	3378.0	3294.3	3201.3	3046.7	2968.8	2945.6
57°	3182.7	3201.3	3297.8	3490.8	3588.4	3505.9	3323.4	3153.7	2947.9	2853.8	2811.9
57.5°	3035.1	3065.3	3232.7	3426.9	3529.1	3522.2	3287.3	3065.3	2881.7	2735.2	2738.7
60°	2223.7	2229.5	2380.6	2688.7	3008.4	3015.3	2729.4	2435.3	2230.7	2071.4	2093.5
62.5°	1172.9	1199.6	1260.1	1507.7	1784.3	1851.7	1678.5	1527.4	1350.8	1229.9	1241.4
65°	620.8	617.2	646.3	716.1	852.1	886.9	863.6	743.9	682.4	662.6	663.7
67.5°	504.5	510.3	506.8	510.3	519.6	534.7	531.3	535.9	539.3	545.2	544.0
70°	427.8	427.8	430.1	431.3	431.3	438.2	446.4	461.5	462.7	468.5	470.8
72.5°	337.1	334.8	338.3	346.4	347.6	353.4	365.0	374.3	377.8	377.8	370.8
75°	229.0	231.3	236.0	243.0	249.9	260.3	269.7	275.5	277.8	274.4	270.8
77.5°	129.0	131.4	134.8	145.3	153.5	162.7	173.2	179.0	184.8	186.0	179.0
80°	76.7	76.7	82.5	90.7	100.0	109.3	118.5	125.5	127.9	127.9	124.4
82.5°	46.5	47.7	52.3	60.4	68.6	74.4	82.5	88.3	93.0	91.8	89.5
85°	24.4	24.4	29.0	36.0	41.8	47.7	47.7	44.2	41.8	36.0	33.7
87.5°	8.1	7.0	9.3	9.3	8.1	9.3	9.3	10.5	10.5	10.5	10.5
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)