

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: P646815

Luminaire Tested: **GALN-SA3C-835-U-5MQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P646815  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3C-835-U-5MQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17235.4 lumens  
Efficiency: N/A  
Efficacy: 107.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

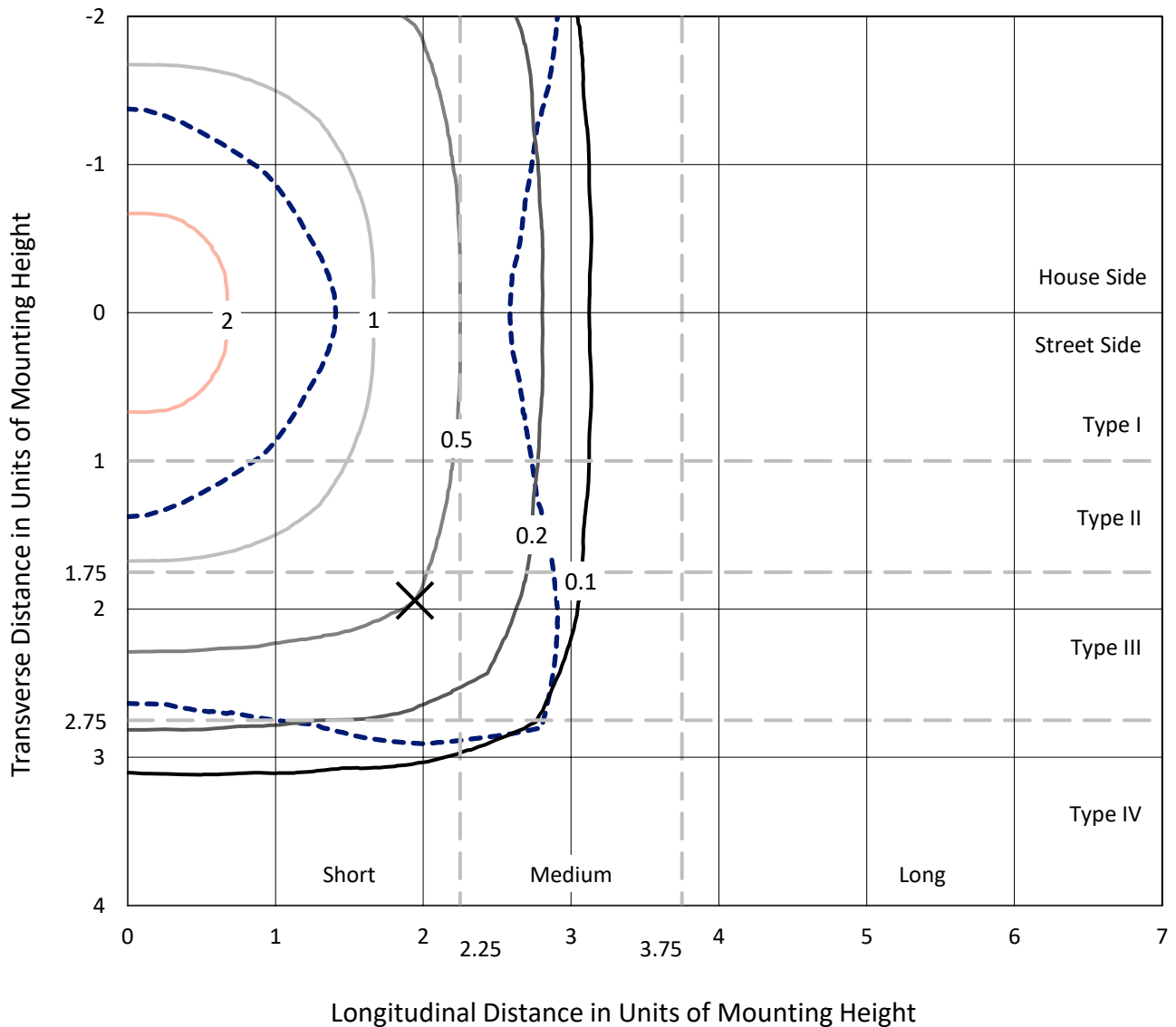
Input Watts (W): 160  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

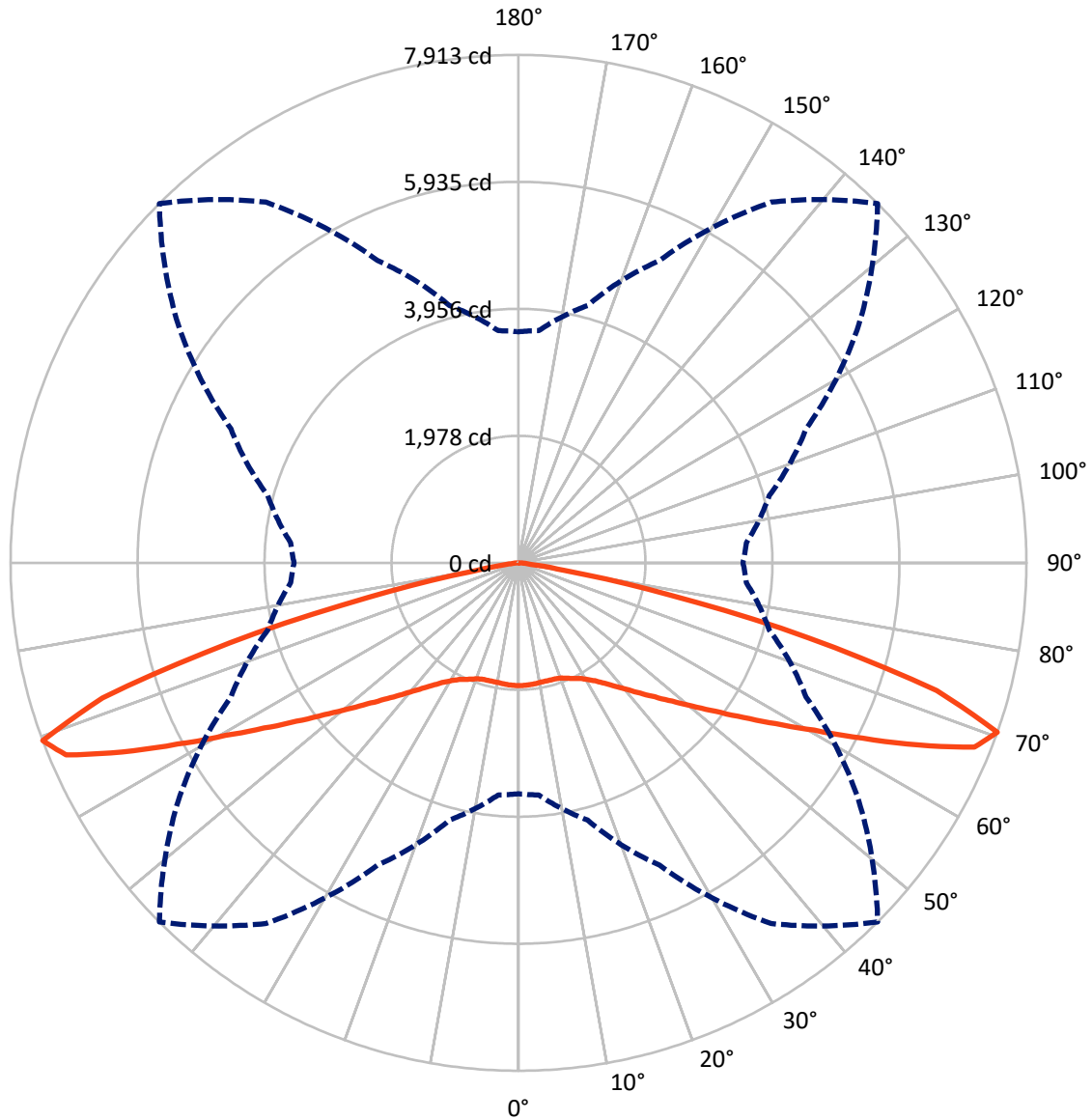
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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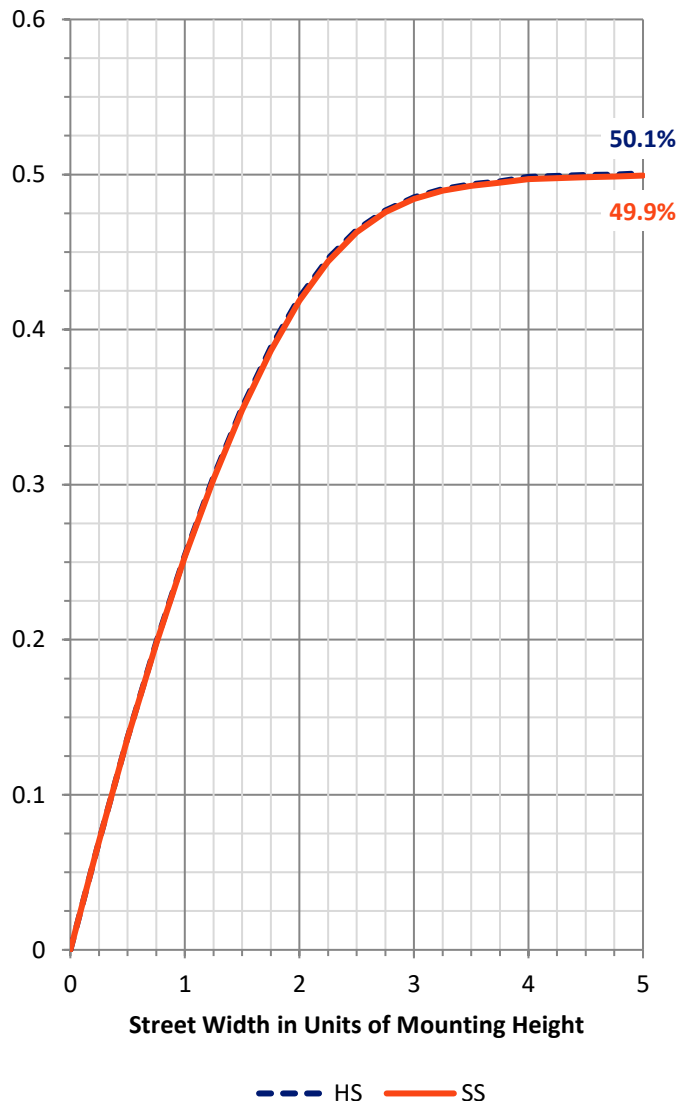
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8617.7	0.0	8617.7
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	8617.7	0.0	8617.7
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	17235.4	0.0	17235.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	181.5	1.1
10°-20°	532.6	3.1
20°-30°	910.9	5.3
30°-40°	1445.7	8.4
40°-50°	2332.4	13.5
50°-60°	3794.8	22.0
60°-70°	5501.1	31.9
70°-80°	2440.1	14.2
80°-90°	96.2	0.6
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°	17235.4	100.0
0°-180°	17235.4	100.0

**Coefficient of Utilization**

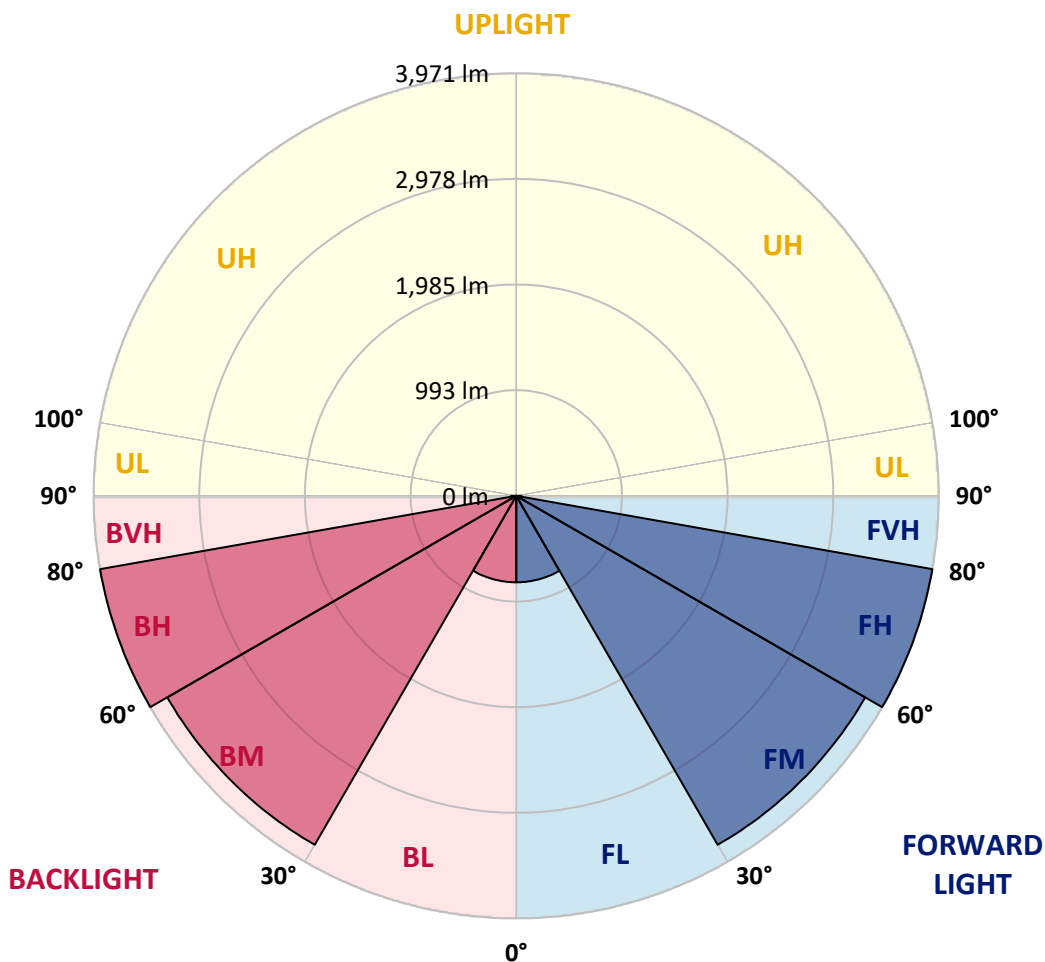


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	812.5	4.7			
FM (30°-60°)	3786.5	22.0			
FH (60°-80°)	3970.6	23.0			G2/5000
FVH (80°-90°)	48.1	0.3			G1/100
BL (0°-30°)	812.5	4.7	B2/1000		
BM (30°-60°)	3786.5	22.0	B3/5000		
BH (60°-80°)	3970.6	23.0	B4/5000		G2/5000
BVH (80°-90°)	48.1	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1913.9	1913.9	1913.9	1913.9	1913.9	1913.9	1913.9	1913.9	1913.9	1913.9	1913.9
2.5°	1913.9	1915.7	1913.0	1911.1	1910.3	1910.3	1909.3	1910.3	1915.7	1916.6	1913.9
5°	1908.5	1910.3	1909.3	1907.5	1906.6	1906.6	1905.7	1904.8	1909.3	1911.1	1910.3
7.5°	1901.2	1902.1	1901.2	1900.3	1901.2	1900.3	1897.5	1895.7	1899.4	1899.4	1898.5
10°	1888.4	1890.3	1889.4	1890.3	1892.1	1892.1	1888.4	1884.8	1885.8	1883.9	1883.9
12.5°	1873.0	1875.8	1876.7	1880.3	1884.8	1890.3	1882.1	1874.0	1872.2	1871.2	1870.3
15°	1863.1	1865.7	1869.4	1873.0	1881.2	1893.0	1881.2	1868.5	1864.9	1861.2	1859.4
17.5°	1860.3	1863.9	1869.4	1874.8	1885.8	1897.5	1887.6	1874.8	1865.7	1860.3	1858.5
20°	1867.6	1870.3	1878.5	1888.4	1903.9	1915.7	1905.7	1892.1	1878.5	1870.3	1867.6
22.5°	1882.1	1886.6	1896.7	1914.8	1936.6	1953.9	1940.3	1917.6	1895.7	1884.8	1881.2
25°	1913.9	1917.6	1929.4	1953.9	1979.3	1995.6	1981.1	1954.8	1924.8	1910.3	1905.7
27.5°	1962.0	1967.5	1980.2	2009.3	2030.2	2039.2	2029.3	2011.1	1989.3	1973.9	1970.3
30°	2030.2	2036.5	2055.6	2086.5	2100.1	2105.6	2101.0	2089.2	2073.8	2057.4	2053.8
32.5°	2121.9	2125.5	2147.4	2176.4	2189.1	2191.0	2185.5	2180.0	2154.7	2127.4	2125.5
35°	2224.6	2230.9	2257.2	2291.8	2303.6	2304.5	2293.6	2285.4	2255.4	2233.7	2233.7
37.5°	2360.8	2363.6	2389.0	2428.0	2440.8	2437.1	2431.7	2424.4	2392.6	2364.4	2365.4
40°	2520.7	2526.1	2548.0	2593.4	2593.4	2588.8	2592.4	2587.0	2555.2	2528.0	2528.9
42.5°	2710.5	2713.3	2739.6	2787.7	2784.1	2775.0	2778.6	2771.4	2751.4	2720.5	2709.6
45°	2913.1	2924.0	2969.4	3015.7	3008.4	2979.4	2994.0	2992.2	2974.0	2927.6	2930.4
47.5°	3157.4	3175.6	3219.2	3274.7	3266.4	3221.0	3237.4	3248.3	3222.8	3172.0	3162.9
50°	3432.7	3444.5	3509.0	3560.8	3553.5	3505.3	3542.6	3544.4	3480.8	3409.1	3409.1
52.5°	3726.1	3737.9	3825.1	3905.9	3910.5	3840.5	3870.5	3868.7	3765.1	3670.7	3652.5
55°	4054.9	4060.3	4173.0	4292.0	4317.5	4249.3	4252.9	4216.6	4082.2	3972.2	3962.3
57.5°	4394.7	4414.6	4539.1	4693.5	4768.9	4727.1	4708.0	4610.9	4481.0	4354.7	4348.3
60°	4770.7	4771.6	4933.3	5115.9	5268.5	5296.6	5218.5	5088.6	4920.6	4753.4	4746.2
62.5°	5031.4	5070.5	5274.8	5583.7	5857.1	6015.2	5808.9	5536.4	5205.8	4936.0	4908.8
65°	5085.0	5111.3	5422.9	5946.1	6504.8	6845.4	6368.5	5789.0	5224.9	4865.2	4847.0
67.5°	4651.7	4679.8	5099.5	5902.5	6958.9	7657.4	6731.8	5667.3	4901.5	4456.4	4421.0
70°	3598.0	3629.8	4148.5	5195.8	6858.1	7912.7	6473.0	4943.3	4042.2	3561.6	3497.2
72.5°	1913.0	2030.2	2473.4	3566.2	5566.4	6812.6	5307.6	3607.1	2607.0	2131.0	2045.6
75°	698.5	713.1	960.1	1581.4	3238.3	4671.7	3362.8	1720.4	989.2	763.9	724.9
77.5°	288.8	288.0	316.1	477.8	1176.3	2392.6	1312.5	505.0	315.2	291.6	288.0
80°	170.8	170.8	188.0	199.0	309.8	722.2	346.1	225.3	188.9	172.6	175.3
82.5°	76.3	80.8	119.0	125.4	149.9	198.0	167.2	143.5	123.6	85.3	77.2
85°	41.8	36.3	62.6	65.4	71.7	73.6	79.0	78.1	71.7	41.8	42.7
87.5°	8.1	10.0	18.2	13.6	15.4	13.6	18.2	25.4	26.3	14.6	11.8
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)