

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: P647863

Luminaire Tested: **GALN-SA4A-835-U-5NQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647863  
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-SA4A-835-U-5NQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14783 lumens  
Efficiency: N/A  
Efficacy: 122.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G2

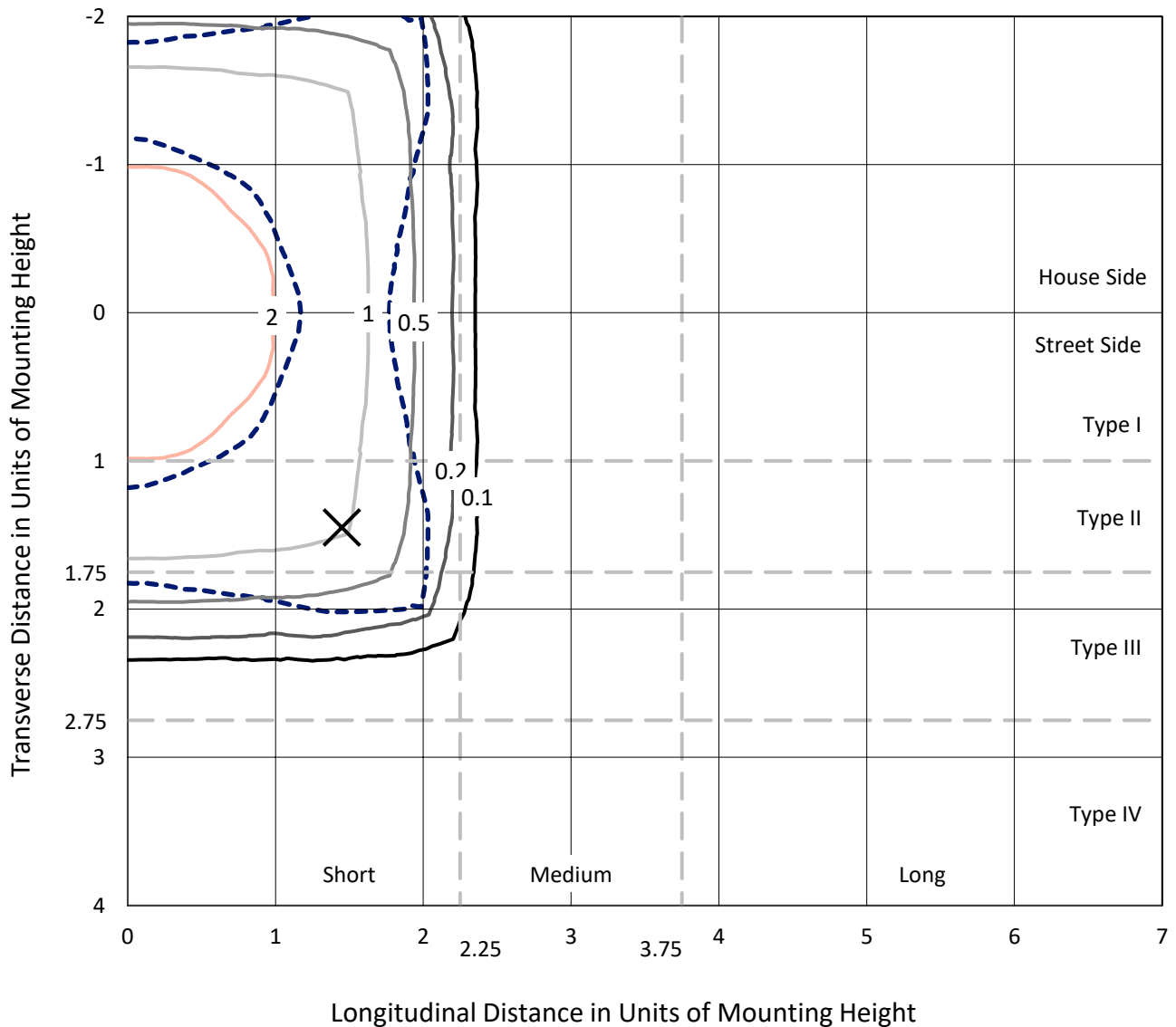
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P647863  
 CATALOG NUMBER: GALN-SA4A-835-U-5NQ

### Iso-Footcandle Lines of Horizontal Illumination

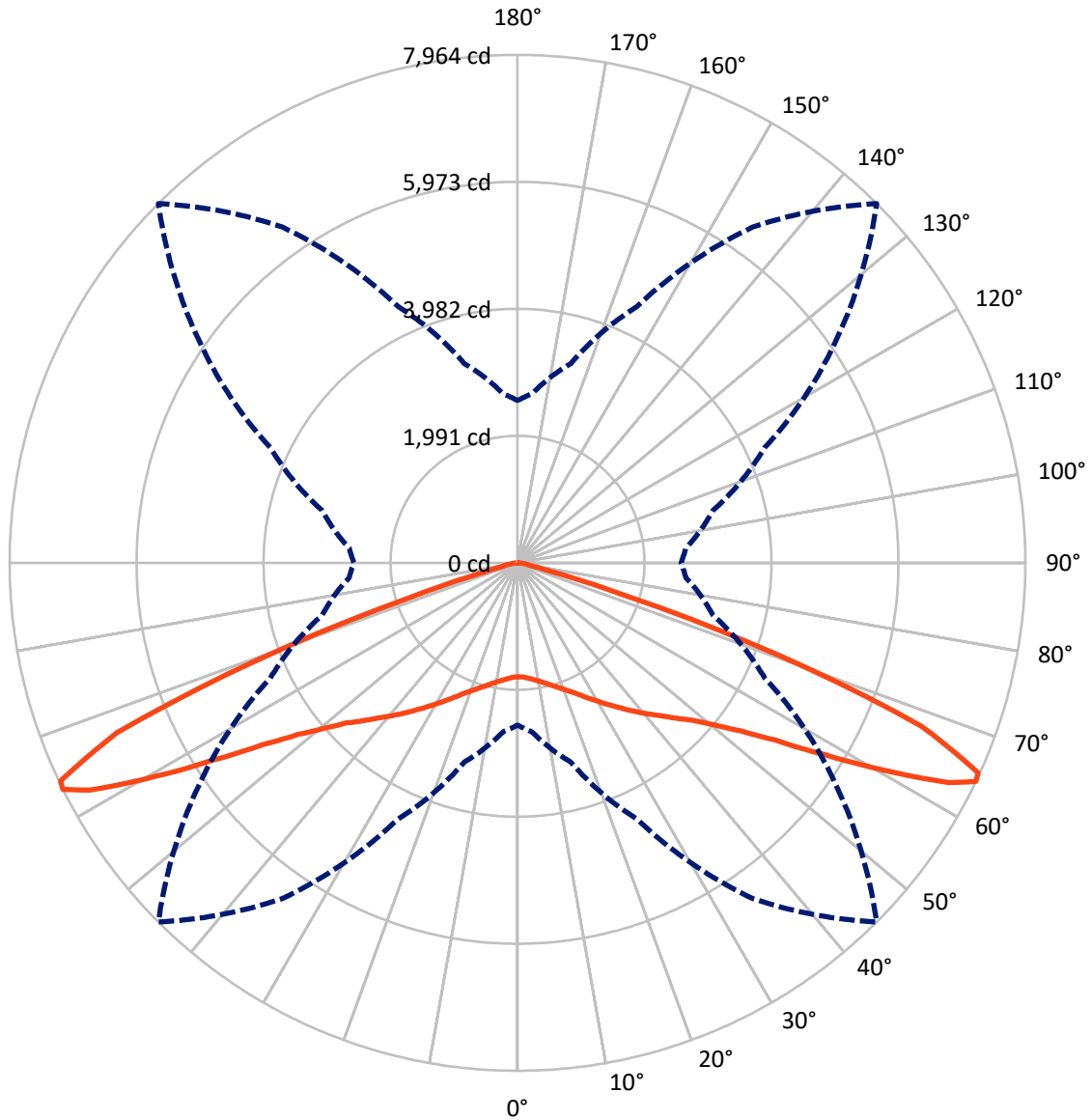
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc  
 Type V - Short - N/A

REPORT NUMBER: P647863  
CATALOG NUMBER: GALN-SA4A-835-U-5NQ

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P647863  
 CATALOG NUMBER: GALN-SA4A-835-U-5NQ

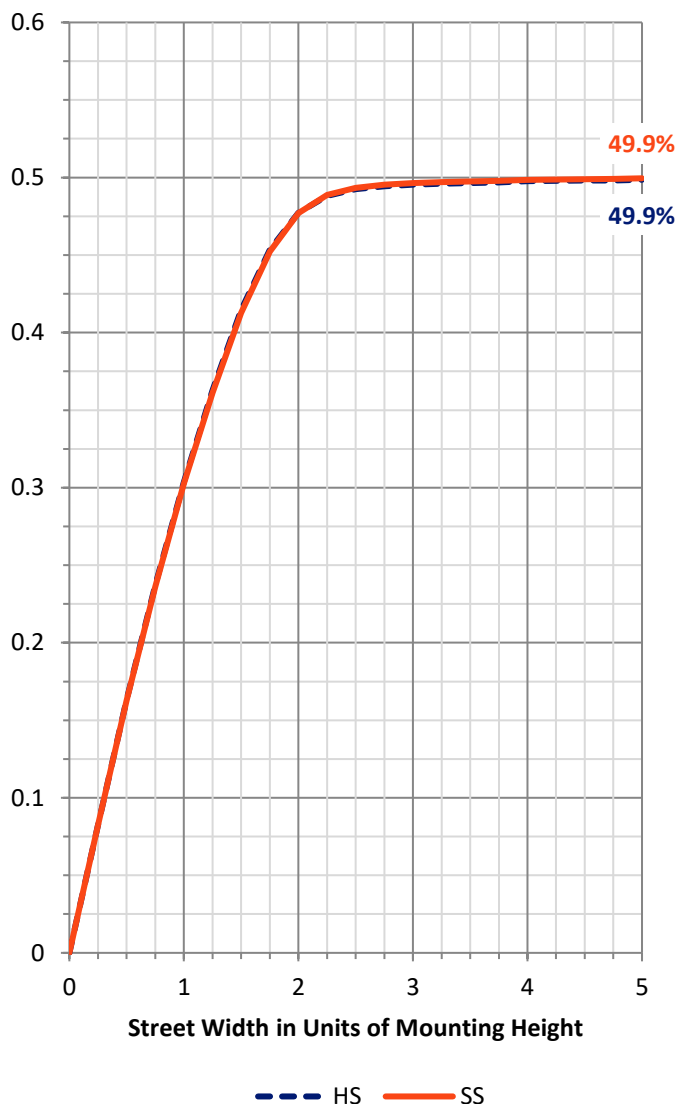
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7391.5	0.0	7391.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	7391.5	0.0	7391.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	14783.0	0.0	14783.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	175.5	1.2
10°-20°	566.2	3.8
20°-30°	1070.0	7.2
30°-40°	1772.0	12.0
40°-50°	2766.4	18.7
50°-60°	4276.9	28.9
60°-70°	3687.9	24.9
70°-80°	417.9	2.8
80°-90°	50.1	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°	14783.0	100.0
0°-180°	14783.0	100.0

**Coefficient of Utilization**



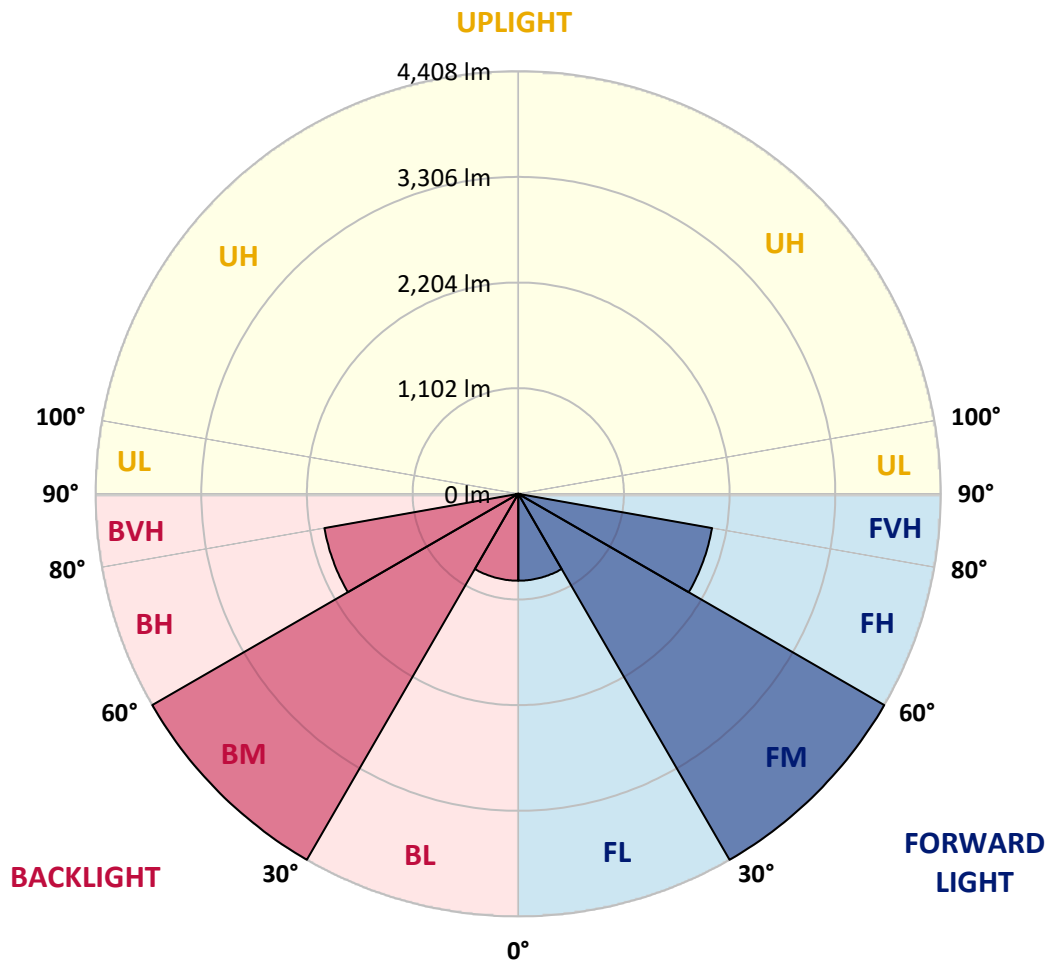
REPORT NUMBER: P647863  
 CATALOG NUMBER: GALN-SA4A-835-U-5NQ

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	905.9	6.1			
FM (30°-60°)	4407.7	29.8			
FH (60°-80°)	2052.9	13.9			G2/5000
FVH (80°-90°)	25.0	0.2			G1/100
BL (0°-30°)	905.9	6.1	B2/1000		
BM (30°-60°)	4407.7	29.8	B3/5000		
BH (60°-80°)	2052.9	13.9	B3/2500		G2/5000
BVH (80°-90°)	25.0	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





REPORT NUMBER: P647863  
 CATALOG NUMBER: GALN-SA4A-835-U-5NQ

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1786.8	1786.8	1786.8	1786.8	1786.8	1786.8	1786.8	1786.8	1786.8	1786.8	1786.8
2.5°	1793.9	1797.8	1794.6	1793.9	1793.1	1793.1	1793.1	1793.9	1797.0	1799.3	1797.8
5°	1816.6	1819.7	1818.1	1817.3	1816.6	1817.3	1815.8	1815.0	1817.3	1817.3	1816.6
7.5°	1844.7	1848.7	1847.1	1848.7	1849.4	1850.2	1846.3	1843.2	1842.4	1844.7	1843.2
10°	1883.1	1886.2	1887.0	1887.8	1889.4	1888.6	1883.9	1878.4	1877.6	1876.9	1876.1
12.5°	1926.2	1928.5	1929.3	1932.4	1934.8	1935.6	1930.1	1925.4	1917.6	1919.1	1916.0
15°	1974.7	1979.4	1978.6	1983.3	1989.6	1991.2	1985.7	1977.9	1970.8	1966.9	1964.5
17.5°	2034.2	2037.4	2035.8	2040.5	2048.3	2052.2	2047.5	2037.4	2030.3	2021.7	2017.0
20°	2104.7	2110.2	2111.8	2111.8	2118.8	2122.7	2115.7	2112.5	2101.6	2095.3	2091.4
22.5°	2184.6	2186.9	2191.6	2196.3	2203.4	2201.8	2199.4	2194.7	2184.6	2179.1	2172.8
25°	2274.6	2277.0	2288.7	2298.9	2301.2	2299.7	2296.5	2294.2	2284.8	2272.3	2267.6
27.5°	2379.5	2384.2	2399.9	2409.3	2409.3	2410.1	2403.8	2411.6	2391.3	2376.4	2374.8
30°	2511.1	2514.2	2527.5	2536.9	2532.2	2528.3	2526.7	2534.6	2512.6	2486.0	2479.8
32.5°	2641.0	2651.9	2663.7	2684.0	2667.6	2660.6	2659.0	2664.5	2639.4	2609.7	2601.0
35°	2780.4	2788.2	2810.1	2827.3	2812.5	2796.0	2803.1	2820.3	2790.5	2750.6	2749.0
37.5°	2934.6	2941.7	2969.8	2987.8	2976.9	2948.7	2960.4	2980.8	2951.0	2901.7	2891.5
40°	3095.1	3110.0	3145.2	3164.0	3146.0	3108.4	3130.4	3152.3	3125.7	3068.5	3045.8
42.5°	3275.2	3298.7	3349.6	3359.0	3324.5	3273.6	3312.0	3347.2	3328.5	3262.7	3254.1
45°	3485.8	3499.9	3562.6	3582.9	3535.2	3471.7	3519.5	3583.7	3569.6	3493.7	3477.2
47.5°	3721.5	3734.8	3799.8	3830.4	3770.1	3684.7	3770.8	3854.6	3846.0	3764.6	3756.8
50°	4000.3	4003.4	4093.4	4127.9	4067.6	3994.0	4070.7	4174.9	4140.4	4036.3	4034.7
52.5°	4305.6	4309.6	4423.1	4489.6	4456.0	4373.0	4463.8	4527.2	4439.5	4303.3	4293.1
55°	4570.3	4589.9	4744.9	4921.9	4968.1	4907.8	4935.2	4905.4	4689.3	4498.3	4468.5
57.5°	4678.3	4716.7	4952.4	5282.8	5583.5	5672.8	5461.3	5177.9	4788.7	4518.6	4489.6
60°	4414.5	4456.0	4821.6	5448.8	6216.2	6603.7	6009.4	5224.1	4562.5	4182.7	4137.3
62.5°	3535.2	3546.9	4084.8	5058.1	6585.0	7588.8	6240.4	4830.2	3904.0	3388.0	3370.0
64°	2544.0	2664.5	3234.5	4434.8	6423.7	7963.7	6107.3	4278.2	3171.1	2648.8	2564.3
65°	1902.7	1935.6	2607.3	3787.3	6139.4	7935.5	5848.9	3750.5	2626.1	2027.2	1933.2
67.5°	718.8	722.7	962.3	1887.8	4370.6	6827.7	4463.8	2040.5	1106.4	800.2	771.3
70°	298.3	303.8	353.1	635.0	1878.4	4383.9	2152.5	736.0	404.8	328.1	323.4
72.5°	218.5	221.6	236.5	281.9	577.9	1800.1	707.8	312.4	237.2	212.2	209.8
75°	171.5	173.0	184.0	207.5	269.4	498.8	294.4	214.5	180.9	162.9	161.3
77.5°	130.8	134.7	142.5	158.2	180.9	236.5	195.0	160.5	139.4	124.5	122.1
80°	90.0	94.7	109.6	115.9	121.4	153.5	133.1	121.4	108.8	90.8	85.3
82.5°	55.6	58.7	73.6	79.1	76.7	86.1	85.3	86.9	77.5	56.4	52.5
85°	29.0	30.5	39.9	41.5	38.4	35.2	43.8	50.9	47.8	32.1	31.3
87.5°	6.3	7.0	8.6	7.8	8.6	8.6	11.0	16.4	17.2	11.0	10.2
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)