

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: P458866

Luminaire Tested: **GALN-SA4A-735-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458866
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4A-735-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17387 lumens
Efficiency: N/A
Efficacy: 143.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

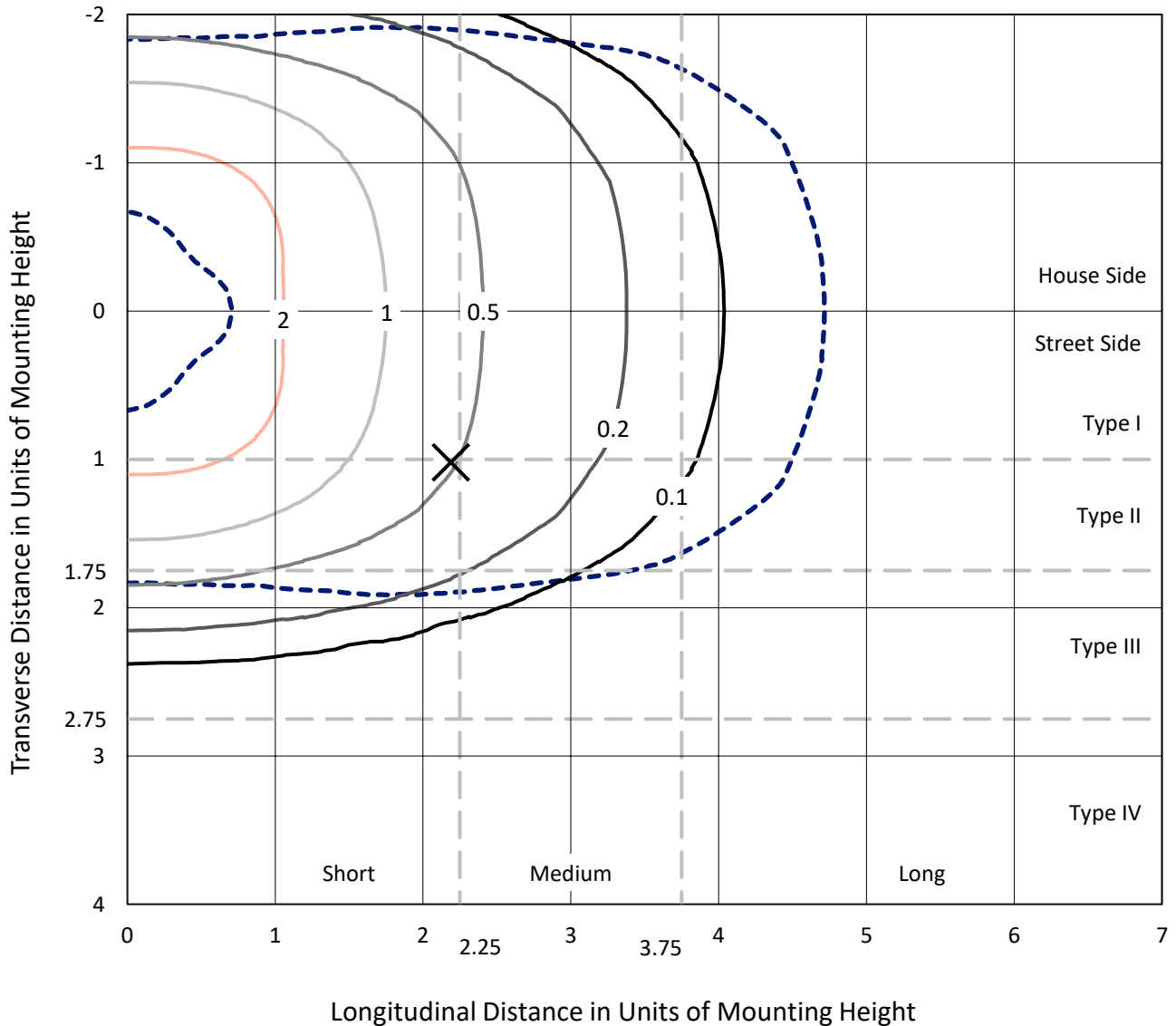
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

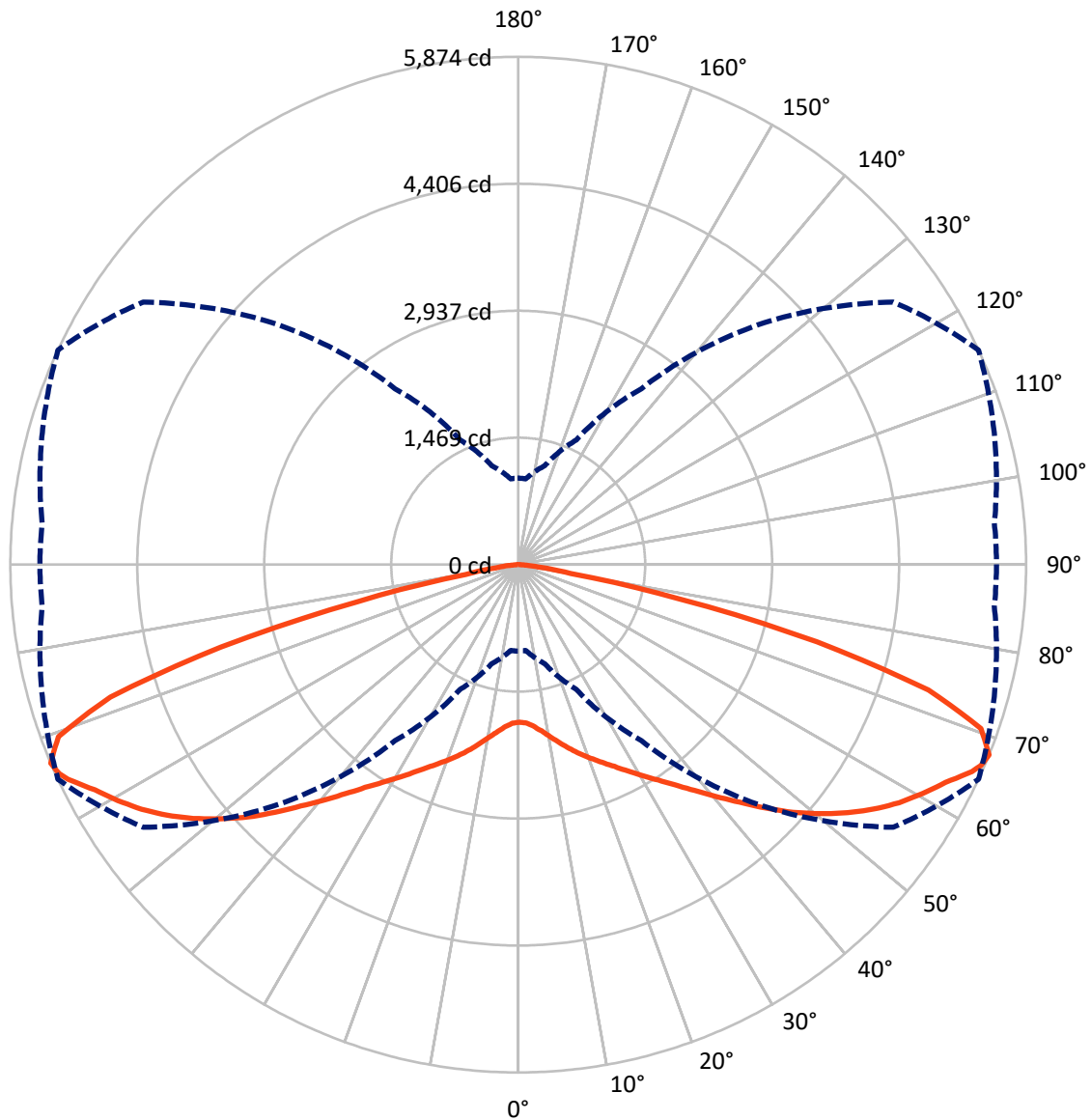
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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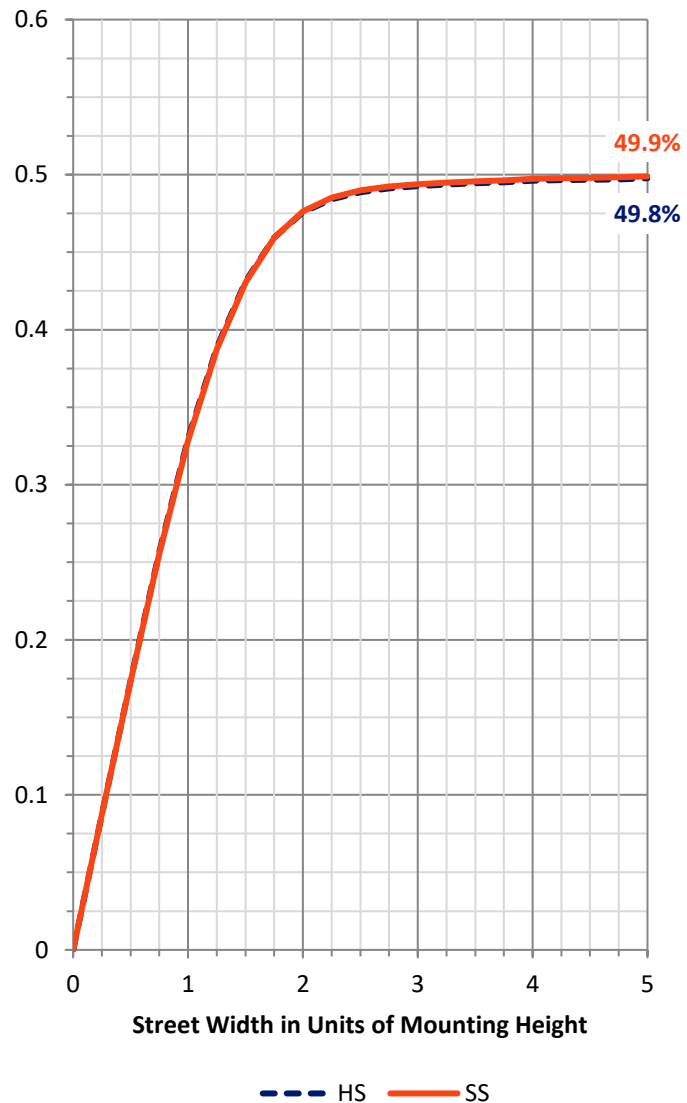
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8693.5	0.0	8693.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8693.5	0.0	8693.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	17387.0	0.0	17387.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.6	1.0
10°-20°	601.1	3.5
20°-30°	1175.9	6.8
30°-40°	2000.0	11.5
40°-50°	3165.5	18.2
50°-60°	4197.3	24.1
60°-70°	3959.4	22.8
70°-80°	1957.3	11.3
80°-90°	150.8	0.9
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°	17387.0	100.0
0°-180°	17387.0	100.0



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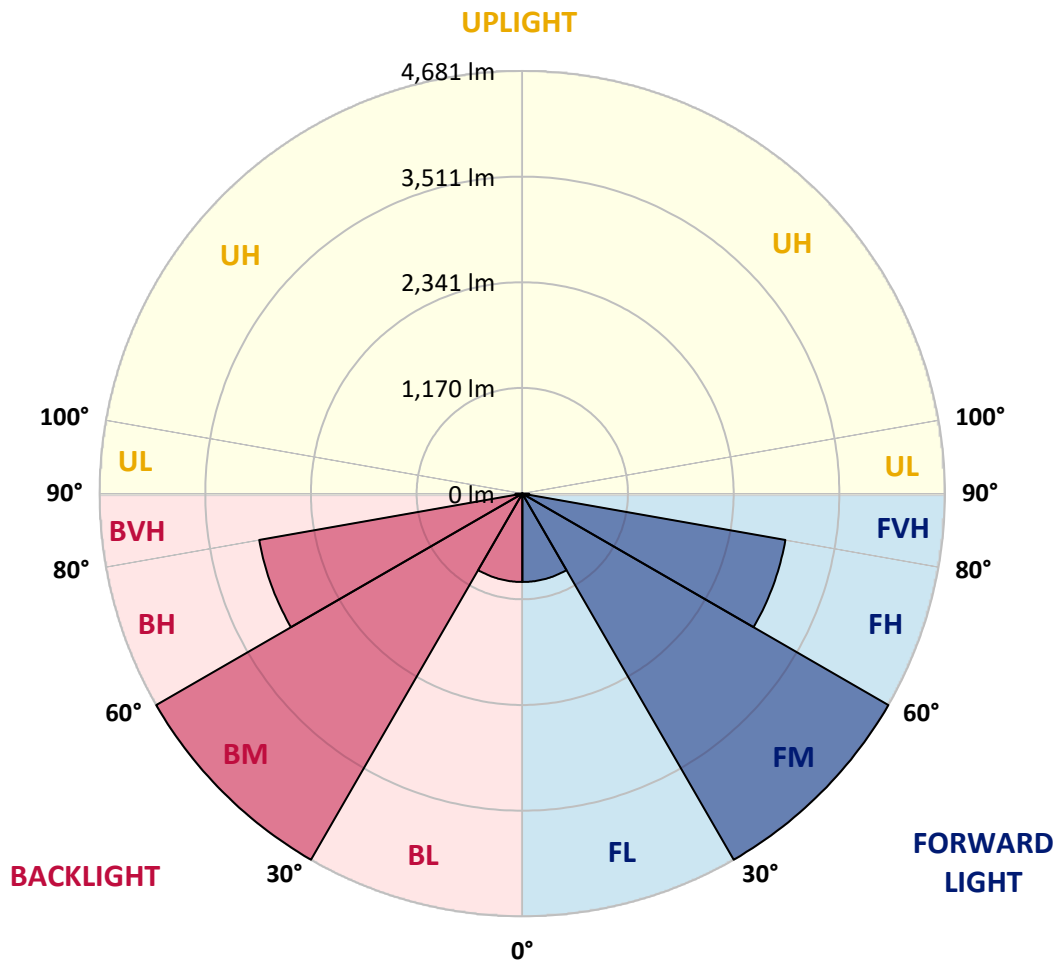
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	978.3	5.6			
FM (30°-60°)	4681.4	26.9			
FH (60°-80°)	2958.3	17.0			G2/5000
FVH (80°-90°)	75.4	0.4			G1/100
BL (0°-30°)	978.3	5.6	B2/1000		
BM (30°-60°)	4681.4	26.9	B3/5000		
BH (60°-80°)	2958.3	17.0	B4/5000		G4/5000
BVH (80°-90°)	75.4	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1821.1	1821.1	1821.1	1821.1	1821.1	1821.1	1821.1	1821.1	1821.1	1821.1	1821.1
2.5°	1811.8	1813.7	1815.5	1818.3	1822.1	1827.7	1831.4	1834.2	1841.6	1842.6	1841.6
5°	1805.3	1807.2	1811.8	1820.2	1832.3	1849.1	1862.1	1878.0	1890.1	1898.5	1896.6
7.5°	1804.4	1808.1	1815.5	1833.2	1856.5	1885.4	1915.2	1942.2	1965.5	1984.2	1981.4
10°	1819.3	1823.9	1836.0	1862.1	1898.5	1940.4	1982.3	2022.3	2055.9	2080.1	2088.5
12.5°	1844.4	1848.1	1870.5	1909.6	1961.8	2014.0	2061.5	2110.8	2157.4	2198.4	2198.4
15°	1888.2	1894.7	1922.7	1979.5	2043.8	2104.3	2152.8	2204.9	2255.2	2301.8	2315.8
17.5°	1948.8	1958.1	2000.0	2072.6	2154.6	2210.5	2256.2	2299.0	2342.8	2387.5	2394.0
20°	2031.7	2041.0	2096.9	2184.4	2281.3	2348.4	2379.1	2389.4	2410.8	2453.6	2459.2
22.5°	2144.4	2153.7	2216.1	2314.8	2422.9	2495.6	2508.6	2484.4	2478.8	2512.3	2516.1
25°	2272.0	2280.4	2352.1	2458.3	2570.1	2649.3	2645.5	2585.9	2552.4	2572.9	2578.5
27.5°	2415.4	2427.6	2500.2	2610.1	2731.2	2801.1	2789.9	2703.3	2631.6	2627.8	2629.7
30°	2599.0	2612.0	2680.9	2786.2	2905.4	2969.7	2946.4	2830.0	2719.1	2681.9	2681.9
32.5°	2792.7	2825.3	2895.2	3005.1	3098.3	3144.8	3109.4	2969.7	2822.5	2770.4	2767.6
35°	3045.2	3062.9	3131.8	3238.9	3308.8	3345.1	3277.1	3127.1	2957.6	2896.1	2887.7
37.5°	3292.0	3306.9	3387.0	3489.5	3574.3	3572.4	3480.2	3314.4	3125.3	3056.3	3050.8
40°	3544.5	3560.3	3651.6	3745.7	3830.4	3823.0	3711.2	3525.8	3324.6	3247.3	3262.2
42.5°	3763.4	3781.1	3884.5	4018.6	4095.0	4093.1	3963.6	3755.0	3545.4	3476.5	3489.5
45°	3962.7	3978.6	4098.7	4252.4	4364.2	4378.2	4236.6	4015.8	3800.6	3712.1	3715.9
47.5°	4103.4	4133.2	4258.9	4435.0	4586.8	4636.2	4497.4	4281.3	4033.5	3941.3	3946.9
50°	4210.5	4229.1	4366.1	4566.3	4758.2	4860.7	4748.9	4527.2	4266.4	4168.6	4181.6
52.5°	4223.5	4245.9	4394.9	4626.0	4871.9	5027.5	4972.5	4767.6	4503.9	4403.3	4431.3
55°	4117.3	4130.4	4308.3	4588.7	4916.6	5151.3	5165.3	4991.1	4730.3	4653.9	4672.5
57.5°	3814.6	3848.1	4073.6	4414.5	4855.1	5217.5	5309.7	5194.2	4959.4	4884.0	4913.8
60°	3318.1	3351.6	3578.0	4010.2	4623.2	5186.7	5428.9	5374.0	5167.2	5106.6	5122.5
62.5°	2599.9	2597.1	2877.5	3407.5	4162.1	5035.8	5517.4	5547.2	5372.1	5295.7	5319.9
65°	1685.1	1693.5	1964.6	2535.6	3466.2	4652.0	5537.0	5768.0	5573.3	5457.8	5475.5
66°	1355.4	1380.5	1610.6	2136.9	3111.3	4400.5	5478.3	5833.2	5634.8	5495.1	5503.5
67.5°	1000.5	995.8	1184.9	1591.0	2484.4	3922.7	5294.8	5874.2	5704.7	5528.6	5532.3
70°	571.0	570.1	637.2	873.8	1460.6	2762.0	4462.9	5677.7	5846.3	5649.7	5639.5
72.5°	417.3	414.5	423.8	482.5	712.6	1394.5	3078.7	4962.2	5773.6	5630.1	5601.3
75°	350.3	348.4	346.5	354.0	399.6	631.6	1633.9	3569.6	5009.8	5284.6	5254.7
77.5°	286.0	286.0	286.9	285.0	286.9	332.6	677.2	1913.4	3050.8	3405.7	3488.6
80°	223.6	222.6	238.5	232.0	217.0	213.3	300.0	615.7	1012.6	1007.0	830.9
82.5°	164.9	153.7	181.6	177.0	160.2	136.0	175.1	262.7	338.1	219.8	163.0
85°	104.3	103.4	128.6	117.4	97.8	64.3	83.8	112.7	139.7	84.8	68.9
87.5°	18.6	17.7	41.0	29.8	29.8	18.6	23.3	30.7	45.6	31.7	23.3
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)