

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: P647865

Luminaire Tested: **GALN-SA4A-835-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647865
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4A-835-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12017.5 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

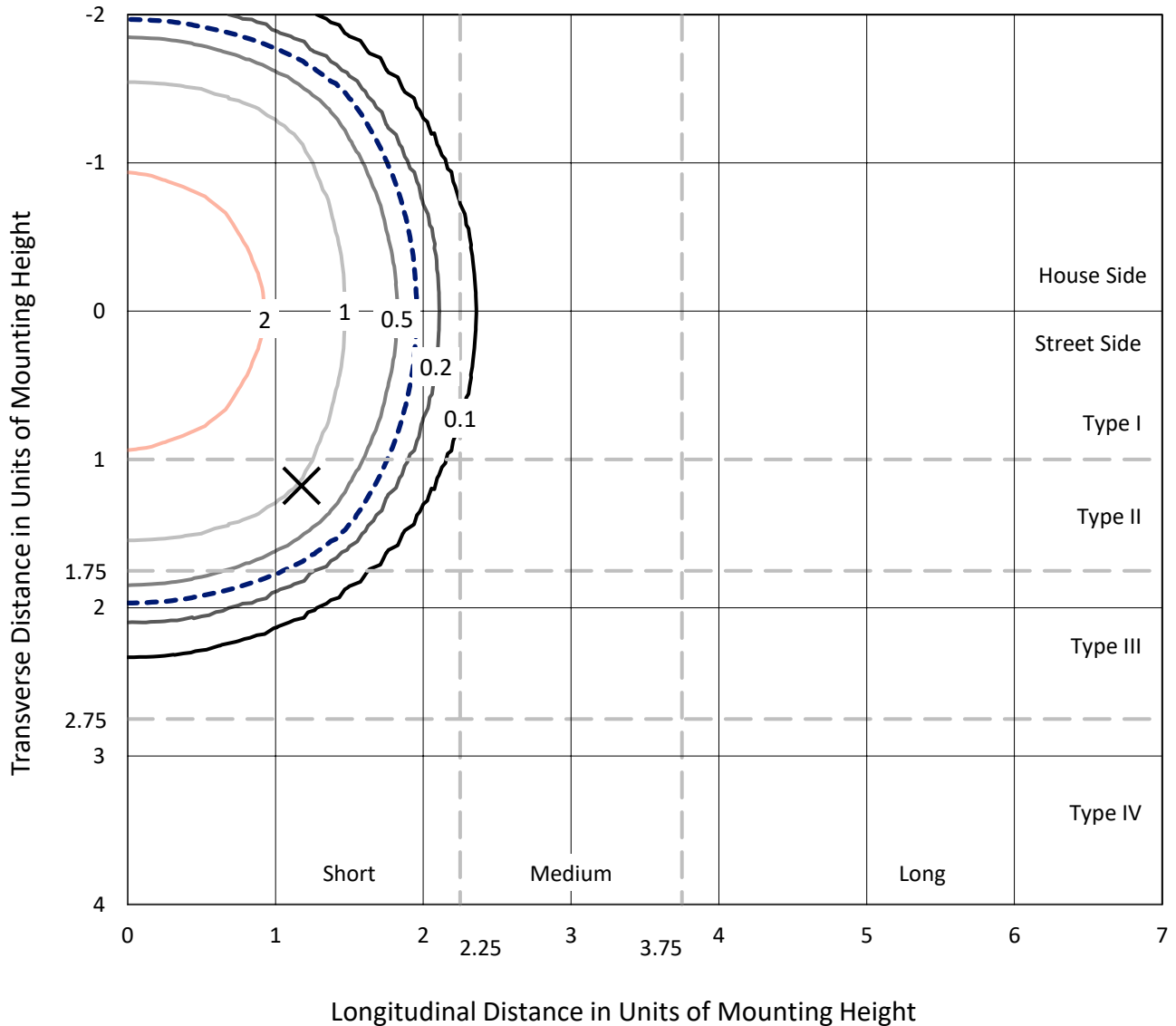
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

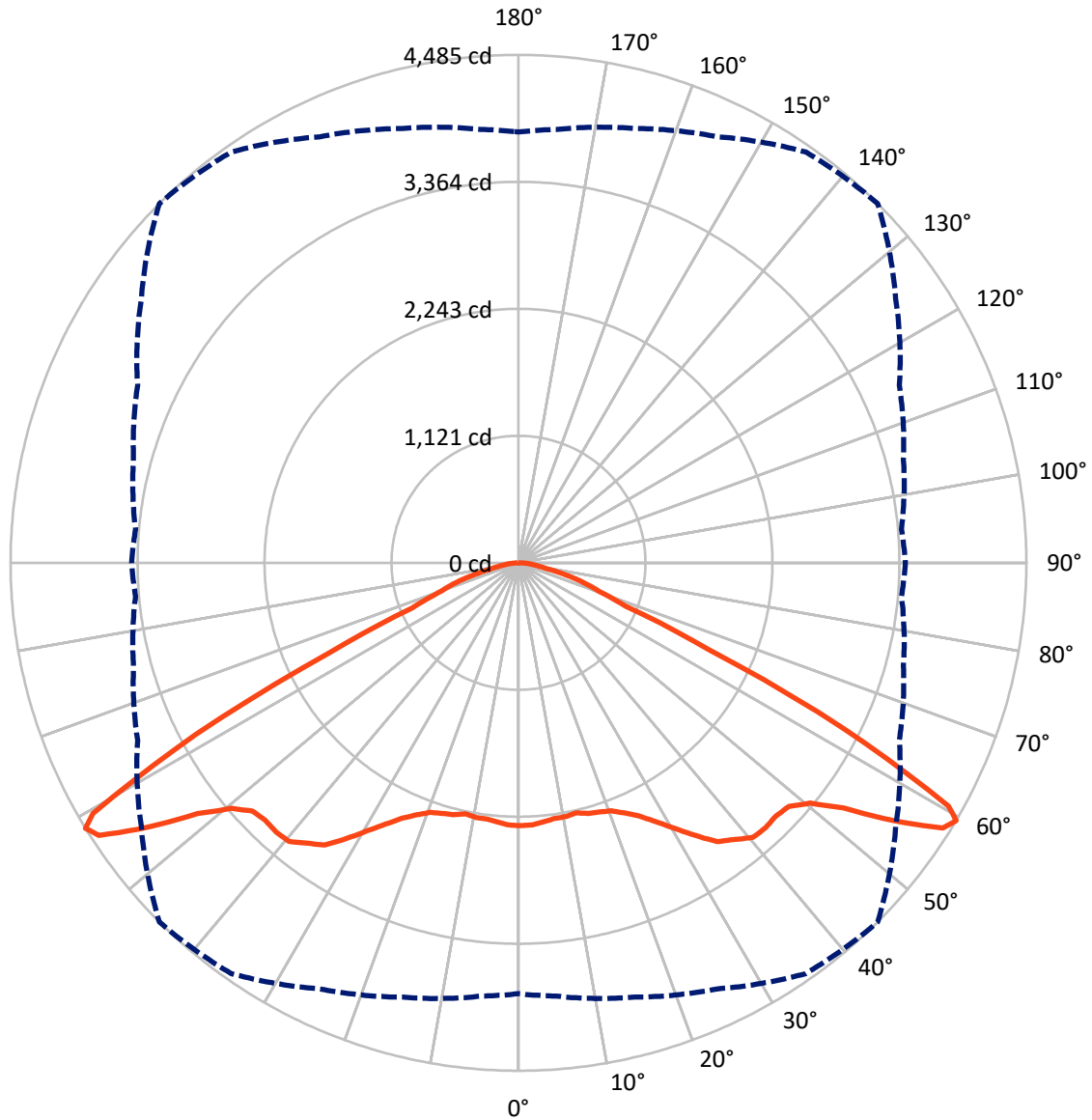
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 59-Deg Vertical

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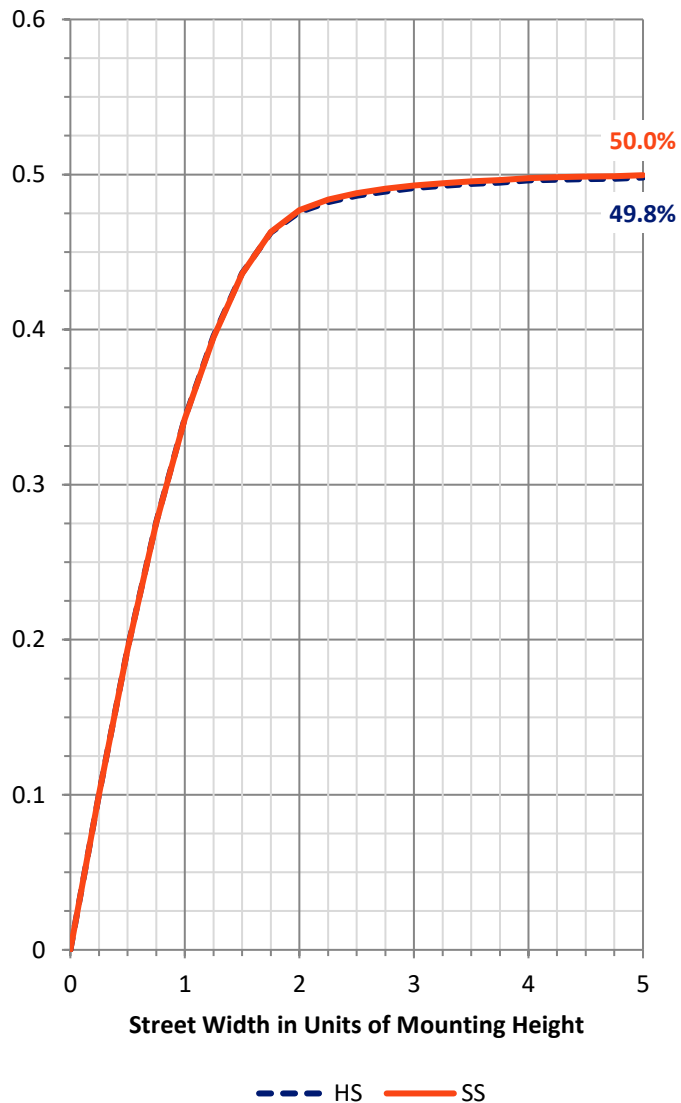
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6008.7	0.0	6008.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6008.7	0.0	6008.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	12017.5	0.0	12017.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.8	1.8
10°-20°	650.7	5.4
20°-30°	1136.2	9.5
30°-40°	1814.7	15.1
40°-50°	2472.0	20.6
50°-60°	3342.8	27.8
60°-70°	1833.2	15.3
70°-80°	469.0	3.9
80°-90°	80.0	0.7
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°	12017.5	100.0
0°-180°	12017.5	100.0

Coefficient of Utilization



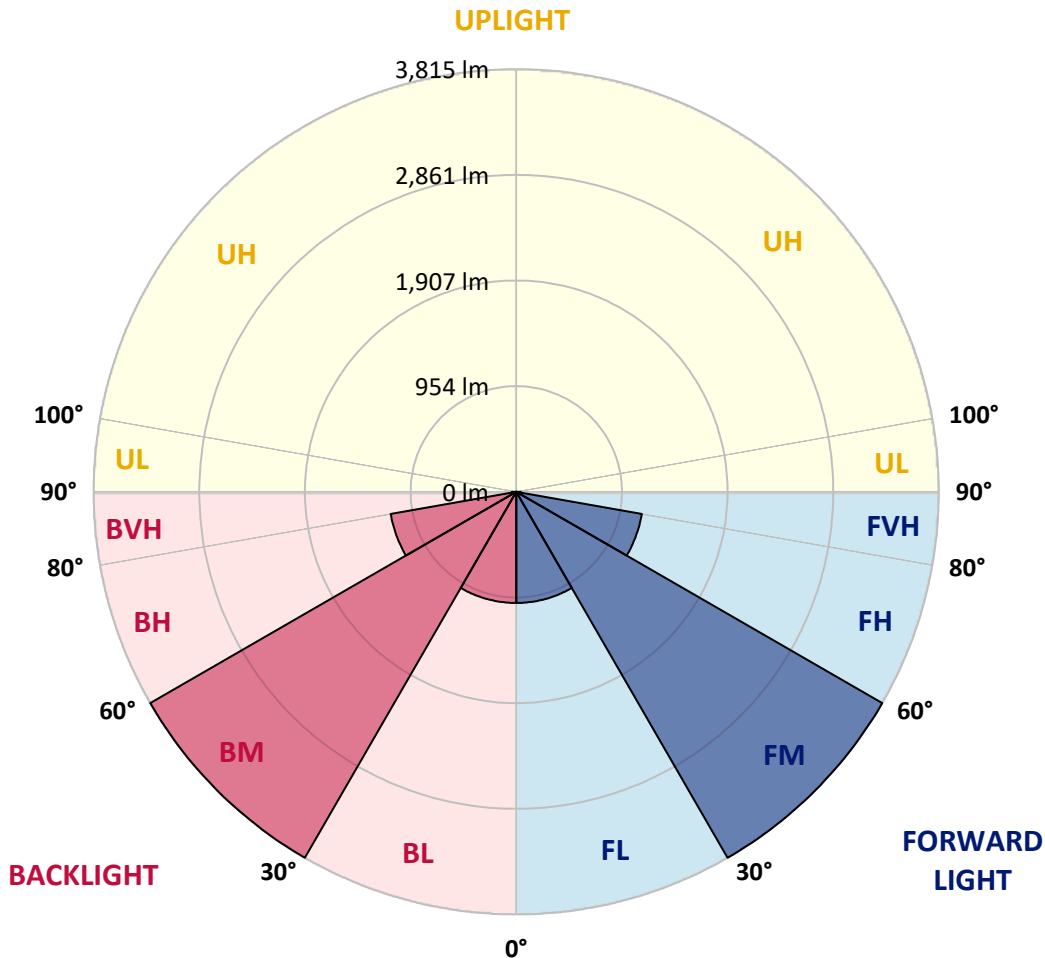
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1002.9	8.3			
FM (30°-60°)	3814.8	31.7			
FH (60°-80°)	1151.1	9.6			G1/1800
FVH (80°-90°)	40.0	0.3			G1/100
BL (0°-30°)	1002.9	8.3	B3/2500		
BM (30°-60°)	3814.8	31.7	B3/5000		
BH (60°-80°)	1151.1	9.6	B3/2500		G1/1800
BVH (80°-90°)	40.0	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°	2321.2	2321.2	2321.2	2321.2	2321.2	2321.2	2321.2	2321.2	2321.2	2321.2	2321.2
2.5°	2307.3	2324.3	2312.0	2322.8	2321.2	2316.6	2308.9	2304.3	2298.1	2307.3	2291.9
5°	2298.1	2312.0	2325.8	2307.3	2307.3	2298.1	2293.5	2284.2	2284.2	2282.7	2281.2
7.5°	2313.5	2299.7	2293.5	2296.5	2299.7	2279.6	2293.5	2275.0	2259.6	2270.4	2282.7
10°	2299.7	2305.8	2282.7	2293.5	2276.6	2279.6	2270.4	2282.7	2265.8	2265.8	2265.8
12.5°	2313.5	2296.5	2304.3	2296.5	2291.9	2265.8	2278.1	2264.2	2262.6	2278.1	2264.2
15°	2341.2	2313.5	2307.3	2291.9	2296.5	2296.5	2284.2	2285.8	2268.8	2278.1	2281.2
17.5°	2332.0	2316.6	2312.0	2293.5	2308.9	2313.5	2290.4	2275.0	2285.8	2284.2	2282.7
20°	2339.7	2345.9	2341.2	2344.3	2350.5	2338.1	2316.6	2295.1	2281.2	2301.2	2299.7
22.5°	2389.0	2382.8	2379.8	2376.6	2387.4	2399.7	2370.5	2336.6	2336.6	2350.5	2356.6
25°	2429.0	2427.5	2426.0	2439.8	2476.8	2476.8	2439.8	2396.7	2385.9	2395.1	2387.4
27.5°	2487.6	2504.5	2498.3	2523.0	2576.9	2589.2	2539.9	2489.1	2459.8	2449.1	2462.9
30°	2621.6	2601.5	2606.1	2632.4	2680.1	2720.1	2644.7	2590.8	2550.7	2549.1	2555.3
32.5°	2710.9	2726.3	2740.2	2764.8	2840.3	2871.1	2780.2	2692.4	2667.8	2653.9	2658.5
35°	2889.6	2875.7	2872.6	2897.3	2972.7	3023.6	2909.6	2832.6	2800.2	2831.0	2831.0
37.5°	3059.0	3020.5	2991.2	3023.6	3092.8	3099.0	3002.0	2960.4	2943.5	2978.9	2977.4
40°	3139.1	3136.0	3068.3	3086.7	3179.1	3188.4	3097.5	3048.2	3045.2	3091.4	3137.6
42.5°	3222.3	3193.0	3125.3	3137.6	3194.6	3197.6	3111.3	3097.5	3131.4	3176.1	3179.1
45°	3236.1	3211.5	3168.3	3137.6	3179.1	3188.4	3137.6	3146.8	3149.9	3203.8	3203.8
47.5°	3263.9	3260.8	3236.1	3213.0	3220.7	3213.0	3180.7	3194.6	3240.8	3266.9	3254.6
50°	3340.9	3308.5	3333.2	3313.1	3314.7	3336.3	3307.0	3320.9	3311.6	3288.5	3273.1
52.5°	3510.3	3494.9	3516.5	3530.3	3545.7	3595.0	3561.2	3487.2	3417.9	3356.3	3354.8
55°	3758.3	3769.0	3810.6	3881.5	3941.5	4020.2	3856.9	3679.7	3568.8	3471.8	3477.9
57.5°	3992.4	3984.7	4041.7	4203.5	4379.0	4419.1	4098.7	3846.1	3665.8	3604.2	3578.1
59°	3804.5	3841.5	3970.8	4151.1	4426.8	4485.3	4066.4	3710.6	3519.5	3394.8	3416.3
60°	3508.8	3522.6	3638.1	3889.2	4261.9	4362.1	3849.1	3501.0	3246.9	3174.5	3206.9
62.5°	2479.8	2469.0	2552.3	2757.1	3091.4	3226.9	2861.9	2616.9	2456.7	2376.6	2395.1
65°	1318.5	1367.7	1401.6	1529.5	1706.6	1849.9	1699.0	1592.6	1503.3	1437.1	1435.6
67.5°	890.3	884.1	891.8	921.1	981.2	1021.2	1018.1	964.2	956.5	944.2	958.1
70°	750.1	747.1	733.2	733.2	745.5	754.7	765.5	771.6	784.0	799.4	797.9
72.5°	608.4	600.7	591.5	586.9	602.3	606.9	620.8	626.9	637.7	636.1	650.0
75°	402.0	402.0	412.8	425.1	429.7	438.9	440.5	459.0	459.0	462.0	449.8
77.5°	224.9	218.7	226.4	238.7	249.5	266.5	283.4	297.3	305.0	301.9	301.9
80°	130.9	130.9	138.6	152.5	166.4	181.7	194.1	204.8	212.6	209.5	203.3
82.5°	81.7	81.7	89.3	103.2	114.0	123.2	140.2	154.0	163.3	160.2	152.5
85°	41.6	41.6	50.8	60.1	73.9	80.1	78.5	72.4	70.9	63.2	63.2
87.5°	10.8	10.8	15.4	16.9	13.9	15.4	15.4	15.4	15.4	15.4	16.9
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)