

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: P529032

Luminaire Tested: **GALN-SA4A-830-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529032
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-830-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 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: 12196 lumens
Efficiency: N/A
Efficacy: 100.8 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



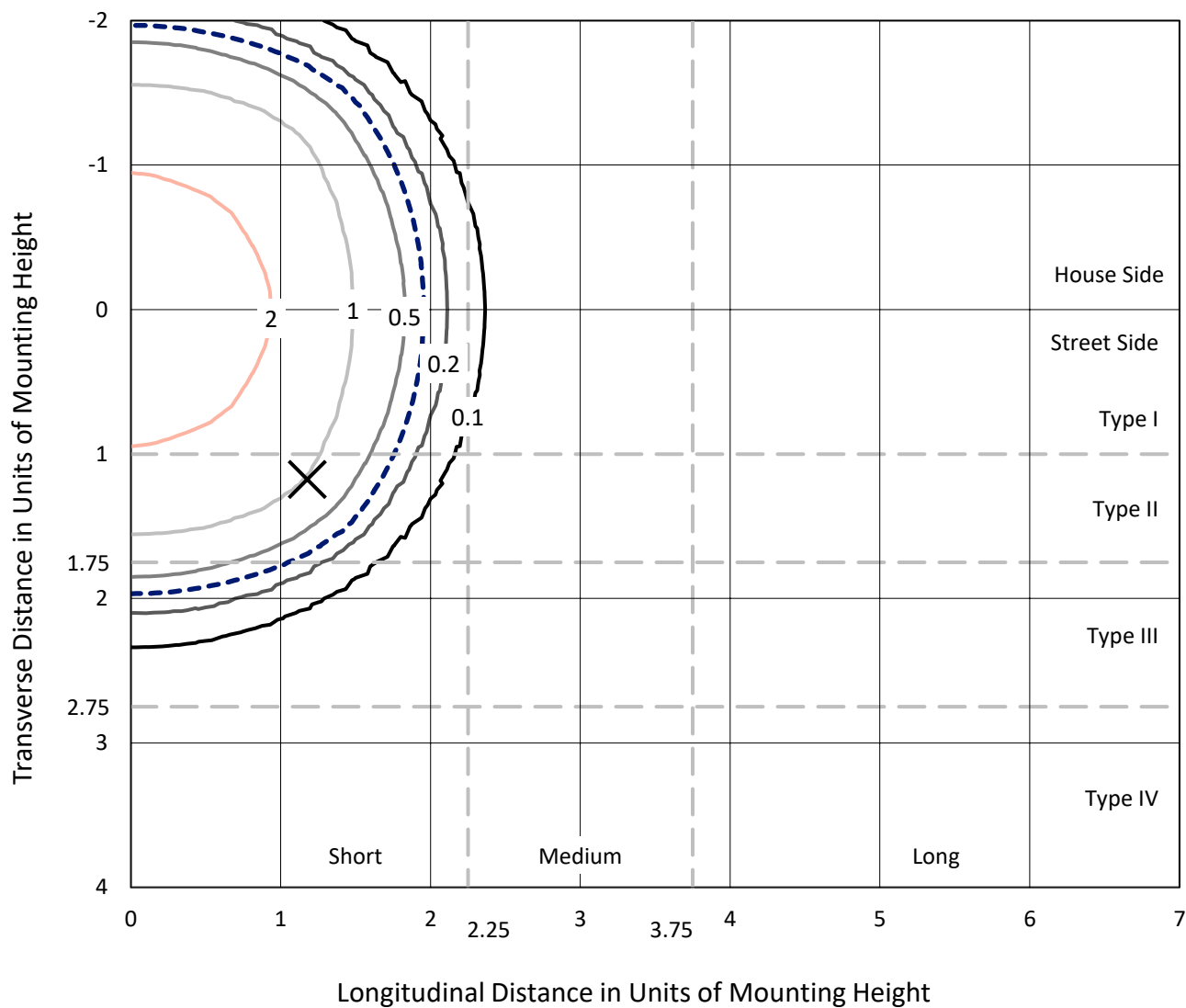
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



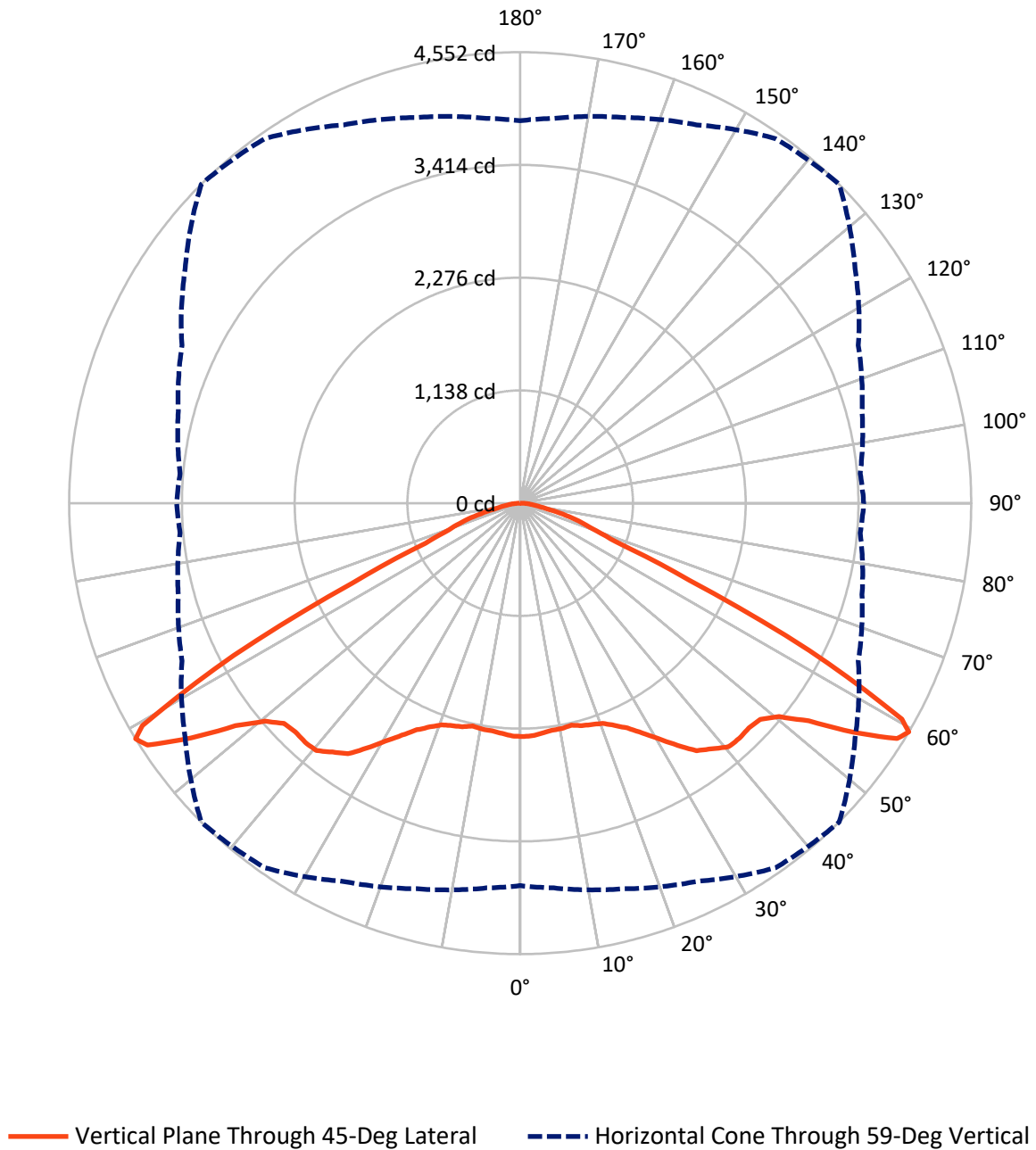
Based on 25 foot mounting height. Maximum calculated value = 3.8 fc

Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6098.0	0.0	6098.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6098.0	0.0	6098.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	12196.0	0.0	12196.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.1	1.8
10°-20°	660.4	5.4
20°-30°	1153.1	9.5
30°-40°	1841.7	15.1
40°-50°	2508.7	20.6
50°-60°	3392.5	27.8
60°-70°	1860.4	15.3
70°-80°	476.0	3.9
80°-90°	81.2	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°	12196.0	100.0
0°-180°	12196.0	100.0

Coefficient of Utilization



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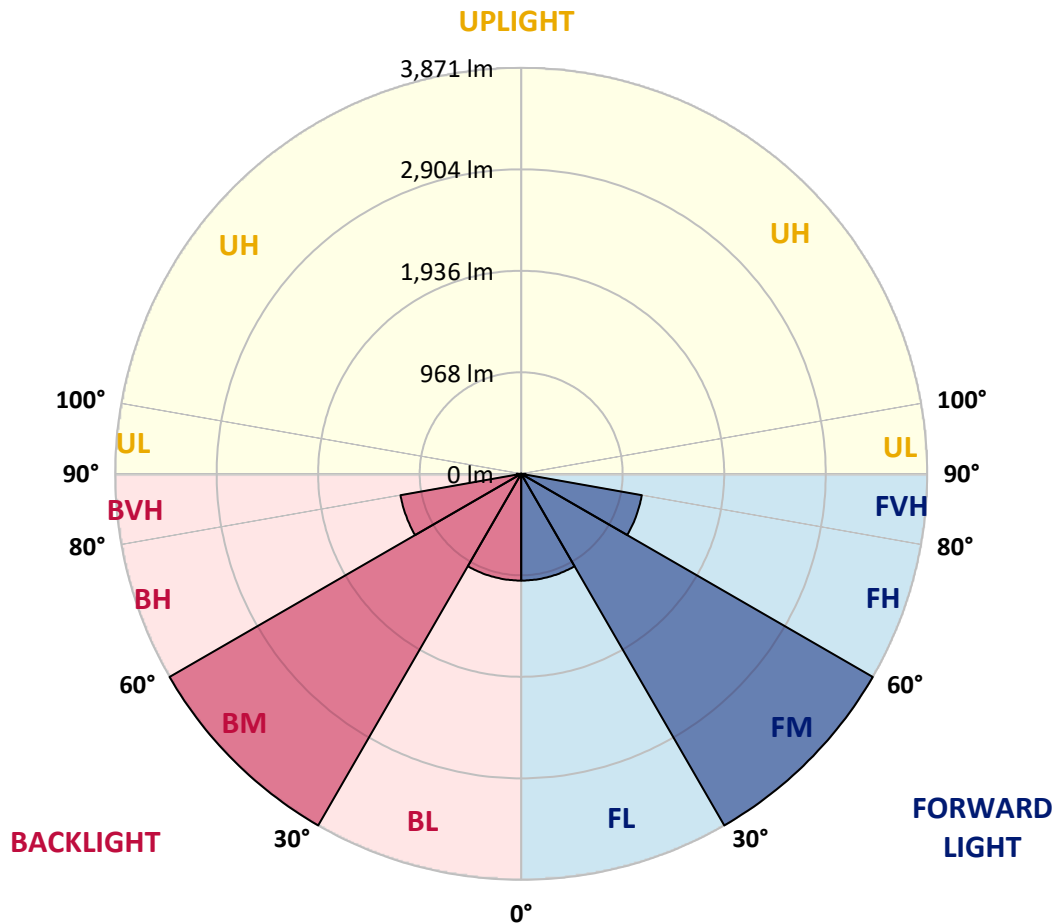
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1017.8	8.3			
FM	(30°-60°)	3871.4	31.7			
FH	(60°-80°)	1168.2	9.6			G1/1800
FVH	(80°-90°)	40.6	0.3			G1/100
BL	(0°-30°)	1017.8	8.3	B3/2500		
BM	(30°-60°)	3871.4	31.7	B3/5000		
BH	(60°-80°)	1168.2	9.6	B3/2500		G1/1800
BVH	(80°-90°)	40.6	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°	2355.7	2355.7	2355.7	2355.7	2355.7	2355.7	2355.7	2355.7	2355.7	2355.7	2355.7
2.5°	2341.6	2358.8	2346.3	2357.2	2355.7	2351.0	2343.2	2338.5	2332.2	2341.6	2326.0
5°	2332.2	2346.3	2360.4	2341.6	2341.6	2332.2	2327.5	2318.2	2318.2	2316.6	2315.0
7.5°	2347.9	2333.8	2327.5	2330.7	2333.8	2313.5	2327.5	2308.8	2293.2	2304.1	2316.6
10°	2333.8	2340.1	2316.6	2327.5	2310.4	2313.5	2304.1	2316.6	2299.4	2299.4	2299.4
12.5°	2347.9	2330.7	2338.5	2330.7	2326.0	2299.4	2311.9	2297.8	2296.3	2311.9	2297.8
15°	2376.0	2347.9	2341.6	2326.0	2330.7	2330.7	2318.2	2319.7	2302.5	2311.9	2315.0
17.5°	2366.6	2351.0	2346.3	2327.5	2343.2	2347.9	2324.4	2308.8	2319.7	2318.2	2316.6
20°	2374.4	2380.7	2376.0	2379.1	2385.4	2372.9	2351.0	2329.1	2315.0	2335.4	2333.8
22.5°	2424.5	2418.2	2415.1	2412.0	2422.9	2435.4	2405.7	2371.3	2371.3	2385.4	2391.6
25°	2465.1	2463.5	2462.0	2476.0	2513.6	2513.6	2476.0	2432.3	2421.3	2430.7	2422.9
27.5°	2524.5	2541.7	2535.4	2560.5	2615.2	2627.7	2577.7	2526.1	2496.4	2485.4	2499.5
30°	2660.5	2640.2	2644.9	2671.4	2719.9	2760.5	2683.9	2629.2	2588.6	2587.0	2593.3
32.5°	2751.2	2766.8	2780.9	2805.9	2882.5	2913.7	2821.5	2732.4	2707.4	2693.3	2698.0
35°	2932.5	2918.4	2915.3	2940.3	3016.9	3068.5	2952.8	2874.7	2841.8	2873.1	2873.1
37.5°	3104.4	3065.4	3035.7	3068.5	3138.8	3145.1	3046.6	3004.4	2987.2	3023.2	3021.6
40°	3185.7	3182.6	3113.8	3132.6	3226.4	3235.7	3143.5	3093.5	3090.4	3137.3	3184.2
42.5°	3270.1	3240.4	3171.7	3184.2	3242.0	3245.1	3157.6	3143.5	3177.9	3223.2	3226.4
45°	3284.2	3259.2	3215.4	3184.2	3226.4	3235.7	3184.2	3193.5	3196.7	3251.4	3251.4
47.5°	3312.3	3309.2	3284.2	3260.8	3268.6	3260.8	3227.9	3242.0	3288.9	3315.5	3303.0
50°	3390.5	3357.7	3382.7	3362.4	3363.9	3385.8	3356.1	3370.2	3360.8	3337.3	3321.7
52.5°	3562.4	3546.8	3568.7	3582.8	3598.4	3648.4	3614.0	3539.0	3468.7	3406.1	3404.6
55°	3814.1	3825.1	3867.3	3939.2	4000.1	4079.9	3914.2	3734.4	3621.8	3523.4	3529.6
57.5°	4051.7	4043.9	4101.7	4265.9	4444.1	4484.7	4159.6	3903.2	3720.3	3657.8	3631.2
59°	3861.0	3898.5	4029.8	4212.7	4492.5	4551.9	4126.7	3765.7	3571.8	3445.2	3467.1
60°	3560.9	3574.9	3692.2	3947.0	4325.3	4426.9	3906.3	3553.1	3295.1	3221.7	3254.5
62.5°	2516.7	2505.7	2590.2	2798.1	3137.3	3274.8	2904.4	2655.8	2493.2	2412.0	2430.7
65°	1338.1	1388.1	1422.5	1552.2	1732.0	1877.4	1724.2	1616.3	1525.6	1458.4	1456.9
67.5°	903.5	897.3	905.1	934.8	995.7	1036.4	1033.2	978.5	970.7	958.2	972.3
70°	761.3	758.1	744.1	744.1	756.6	765.9	776.9	783.1	795.6	811.3	809.7
72.5°	617.4	609.6	600.3	595.6	611.2	615.9	630.0	636.2	647.1	645.6	659.7
75°	408.0	408.0	418.9	431.4	436.1	445.5	447.1	465.8	465.8	468.9	456.4
77.5°	228.2	222.0	229.8	242.3	253.2	270.4	287.6	301.7	309.5	306.4	306.4
80°	132.9	132.9	140.7	154.8	168.8	184.5	197.0	207.9	215.7	212.6	206.3
82.5°	82.8	82.8	90.7	104.7	115.7	125.1	142.2	156.3	165.7	162.6	154.8
85°	42.2	42.2	51.6	61.0	75.0	81.3	79.7	73.5	71.9	64.1	64.1
87.5°	10.9	10.9	15.6	17.2	14.1	15.6	15.6	15.6	15.6	15.6	17.2
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)