

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: P529028

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529028
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-4)
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-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12689 lumens
Efficiency: N/A
Efficacy: 104.9 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



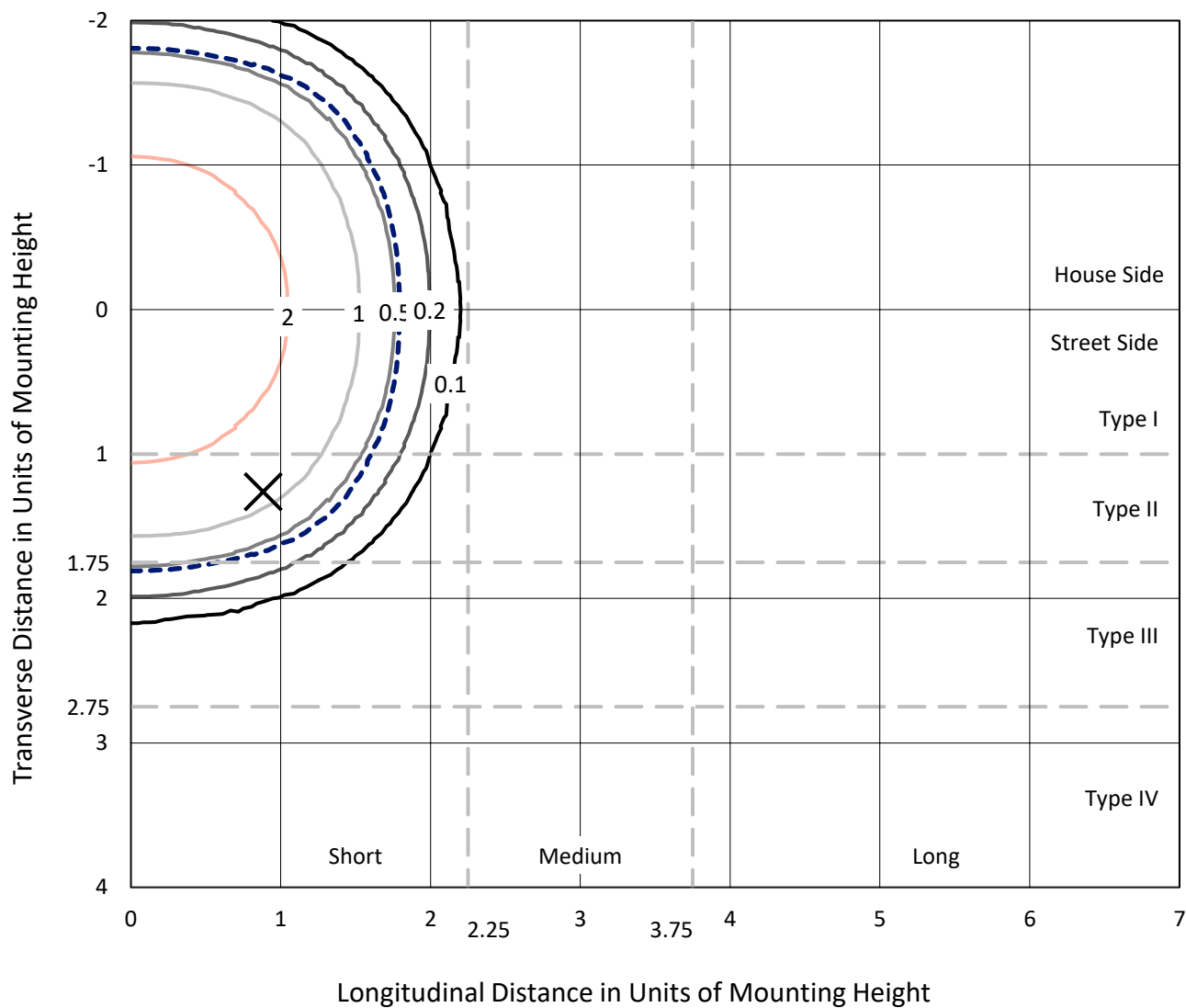
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



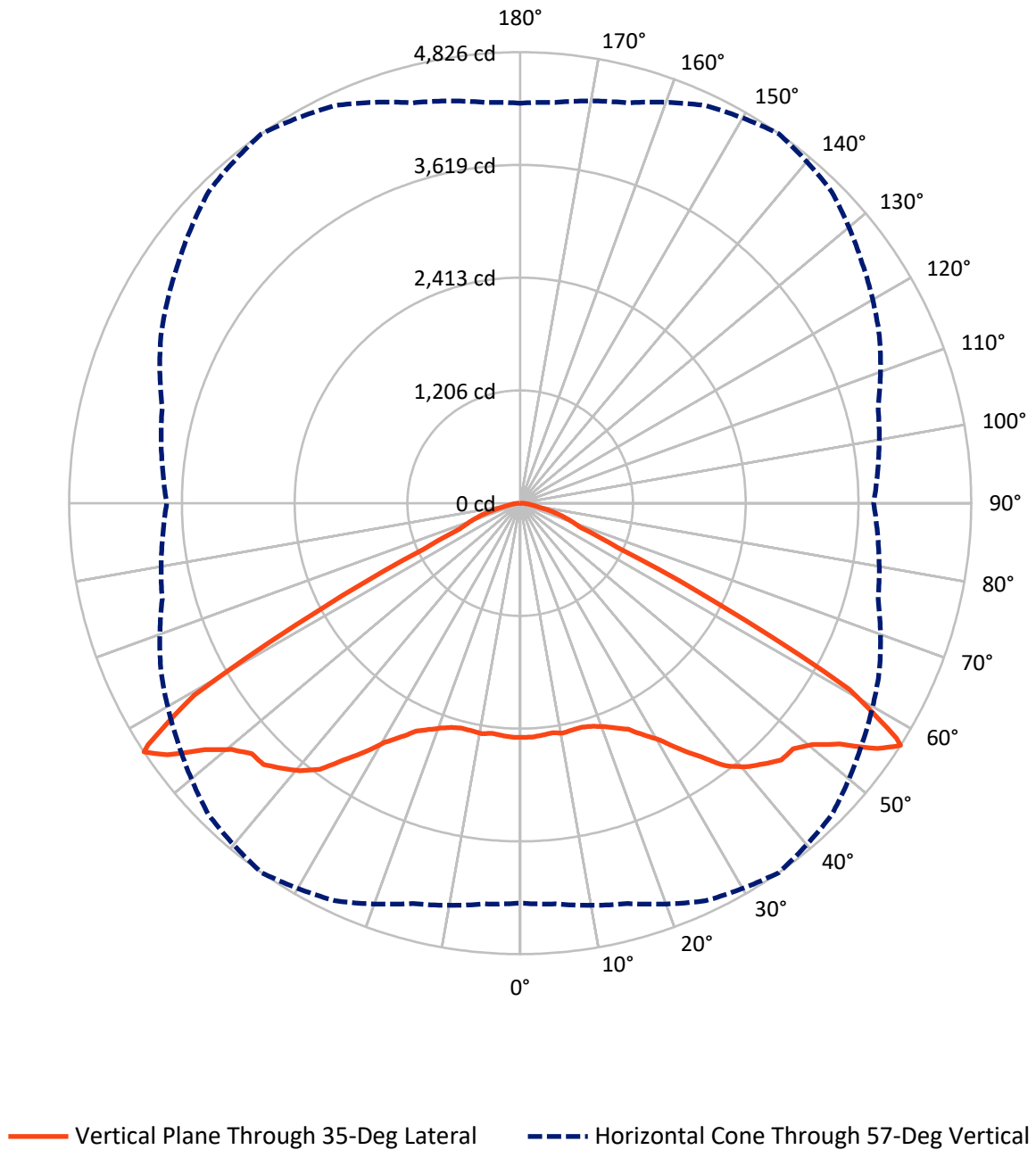
Based on 25 foot mounting height. Maximum calculated value = 4 fc

Type V - Short - N/A

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Luminous Intensity Polar Plot



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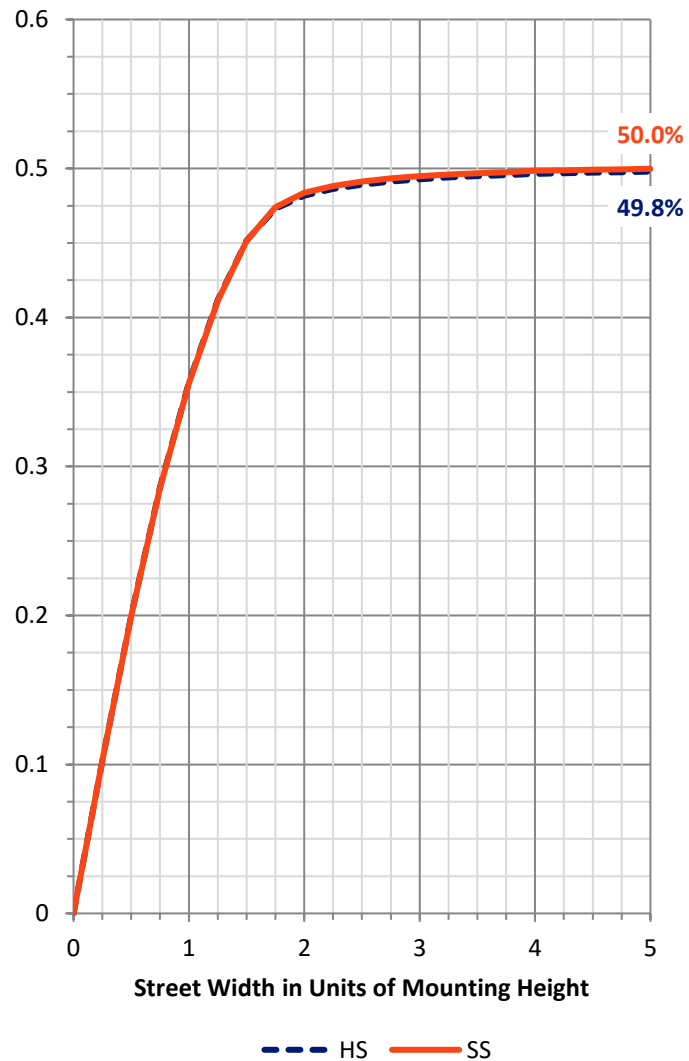
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6344.5	0.0	6344.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6344.5	0.0	6344.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	12689.0	0.0	12689.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.6	1.9
10°-20°	703.6	5.5
20°-30°	1228.9	9.7
30°-40°	2013.6	15.9
40°-50°	2952.4	23.3
50°-60°	3718.7	29.3
60°-70°	1398.6	11.0
70°-80°	371.9	2.9
80°-90°	63.8	0.5
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°	12689.0	100.0
0°-180°	12689.0	100.0

Coefficient of Utilization



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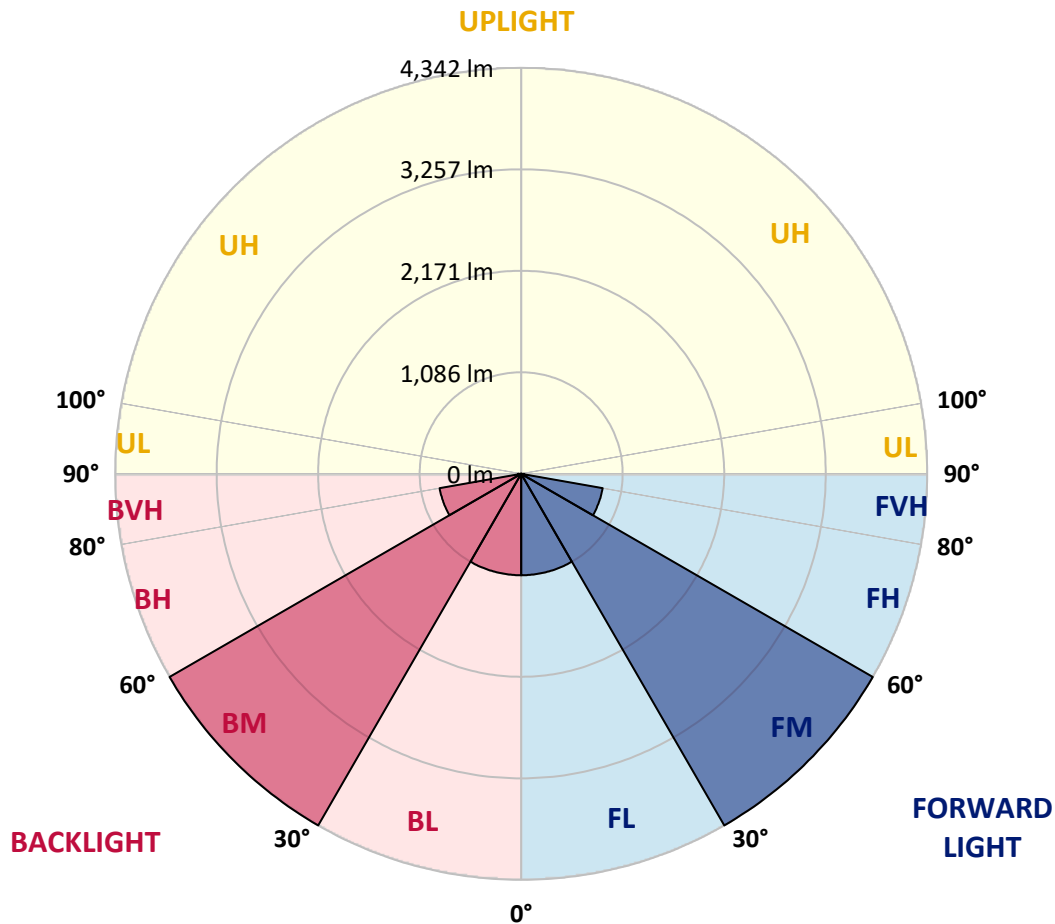
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1085.0	8.6			
FM	(30°-60°)	4342.3	34.2			
FH	(60°-80°)	885.2	7.0			G1/1800
FVH	(80°-90°)	31.9	0.3			G1/100
BL	(0°-30°)	1085.0	8.6	B3/2500		
BM	(30°-60°)	4342.3	34.2	B3/5000		
BH	(60°-80°)	885.2	7.0	B2/1000		G1/1800
BVH	(80°-90°)	31.9	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°	2506.0	2506.0	2506.0	2506.0	2506.0	2506.0	2506.0	2506.0	2506.0	2506.0	2506.0
2.5°	2493.5	2518.5	2507.5	2501.3	2506.0	2498.2	2485.7	2499.7	2496.6	2484.1	2479.4
5°	2487.2	2506.0	2493.5	2506.0	2493.5	2515.4	2509.1	2485.7	2513.8	2487.2	2496.6
7.5°	2482.5	2488.8	2491.9	2485.7	2481.0	2507.5	2493.5	2482.5	2466.9	2462.2	2470.0
10°	2471.6	2487.2	2463.8	2495.0	2501.3	2482.5	2482.5	2462.2	2449.7	2441.9	2468.5
12.5°	2499.7	2473.2	2470.0	2485.7	2490.4	2498.2	2476.3	2465.3	2441.9	2445.0	2440.3
15°	2466.9	2477.8	2479.4	2482.5	2487.2	2506.0	2485.7	2462.2	2452.8	2420.0	2423.1
17.5°	2479.4	2468.5	2479.4	2515.4	2509.1	2523.2	2501.3	2465.3	2443.5	2424.7	2449.7
20°	2501.3	2496.6	2501.3	2545.1	2552.9	2565.4	2546.6	2513.8	2471.6	2449.7	2462.2
22.5°	2524.7	2521.6	2524.7	2567.0	2612.3	2627.9	2609.2	2532.6	2510.7	2470.0	2456.0
25°	2567.0	2570.1	2602.9	2649.8	2679.5	2709.2	2674.8	2620.1	2549.8	2524.7	2495.0
27.5°	2660.8	2668.6	2687.3	2756.1	2807.7	2834.3	2785.8	2710.8	2667.0	2615.4	2607.6
30°	2776.4	2776.4	2809.3	2868.7	2939.0	2979.7	2920.3	2831.2	2778.0	2749.9	2732.7
32.5°	2929.6	2912.4	2925.0	3029.7	3139.1	3173.5	3093.8	2984.4	2899.9	2862.4	2849.9
35°	3061.0	3071.9	3100.0	3212.6	3334.5	3414.3	3289.2	3146.9	3061.0	3026.6	3020.3
37.5°	3231.4	3250.1	3264.2	3419.0	3565.9	3595.6	3475.2	3361.1	3256.4	3228.2	3212.6
40°	3472.1	3459.6	3464.3	3578.4	3711.3	3730.1	3611.2	3530.0	3444.0	3426.8	3426.8
42.5°	3670.6	3656.6	3672.2	3714.4	3816.0	3802.0	3736.3	3676.9	3640.9	3622.2	3640.9
45°	3791.0	3787.9	3816.0	3847.3	3919.2	3872.3	3820.7	3830.1	3795.7	3764.4	3762.9
47.5°	3922.3	3902.0	3936.4	3983.3	3928.6	3906.7	3903.6	3923.9	3913.0	3858.2	3841.0
50°	3986.4	3978.6	4033.3	4088.1	4058.3	4008.3	4019.3	4052.1	3911.4	3837.9	3795.7
52.5°	4158.4	4160.0	4264.7	4294.4	4281.9	4208.4	4231.9	4142.8	3977.1	3873.9	3878.6
55°	4428.9	4417.9	4535.2	4622.7	4636.8	4543.0	4430.4	4305.4	4097.4	3992.7	3961.4
57°	4280.3	4305.4	4435.1	4694.6	4825.9	4714.9	4469.5	4241.3	3964.6	3837.9	3781.6
57.5°	4081.8	4122.4	4347.6	4608.6	4746.2	4736.8	4421.0	4122.4	3875.4	3678.5	3683.2
60°	2990.6	2998.4	3201.7	3615.9	4045.8	4055.2	3670.6	3275.1	3000.0	2785.8	2815.5
62.5°	1577.4	1613.3	1694.6	2027.6	2399.7	2490.4	2257.4	2054.2	1816.6	1654.0	1669.6
65°	834.8	830.1	869.2	963.0	1145.9	1192.8	1161.5	1000.5	917.7	891.1	892.6
67.5°	678.5	686.3	681.6	686.3	698.8	719.1	714.4	720.7	725.4	733.2	731.6
70°	575.3	575.3	578.4	580.0	580.0	589.4	600.3	620.6	622.2	630.0	633.1
72.5°	453.4	450.2	454.9	465.9	467.4	475.2	490.9	503.4	508.1	508.1	498.7
75°	308.0	311.1	317.4	326.7	336.1	350.2	362.7	370.5	373.6	368.9	364.3
77.5°	173.5	176.7	181.3	195.4	206.4	218.9	232.9	240.7	248.6	250.1	240.7
80°	103.2	103.2	111.0	121.9	134.4	147.0	159.5	168.8	172.0	172.0	167.3
82.5°	62.5	64.1	70.3	81.3	92.2	100.1	111.0	118.8	125.1	123.5	120.4
85°	32.8	32.8	39.1	48.5	56.3	64.1	64.1	59.4	56.3	48.5	45.3
87.5°	10.9	9.4	12.5	12.5	10.9	12.5	12.5	14.1	14.1	14.1	14.1
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)