

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: P529497

Luminaire Tested: **GALN-SA4C-830-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529497
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-830-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15182 lumens
Efficiency: N/A
Efficacy: 71.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G0

Input Watts (W): 213
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



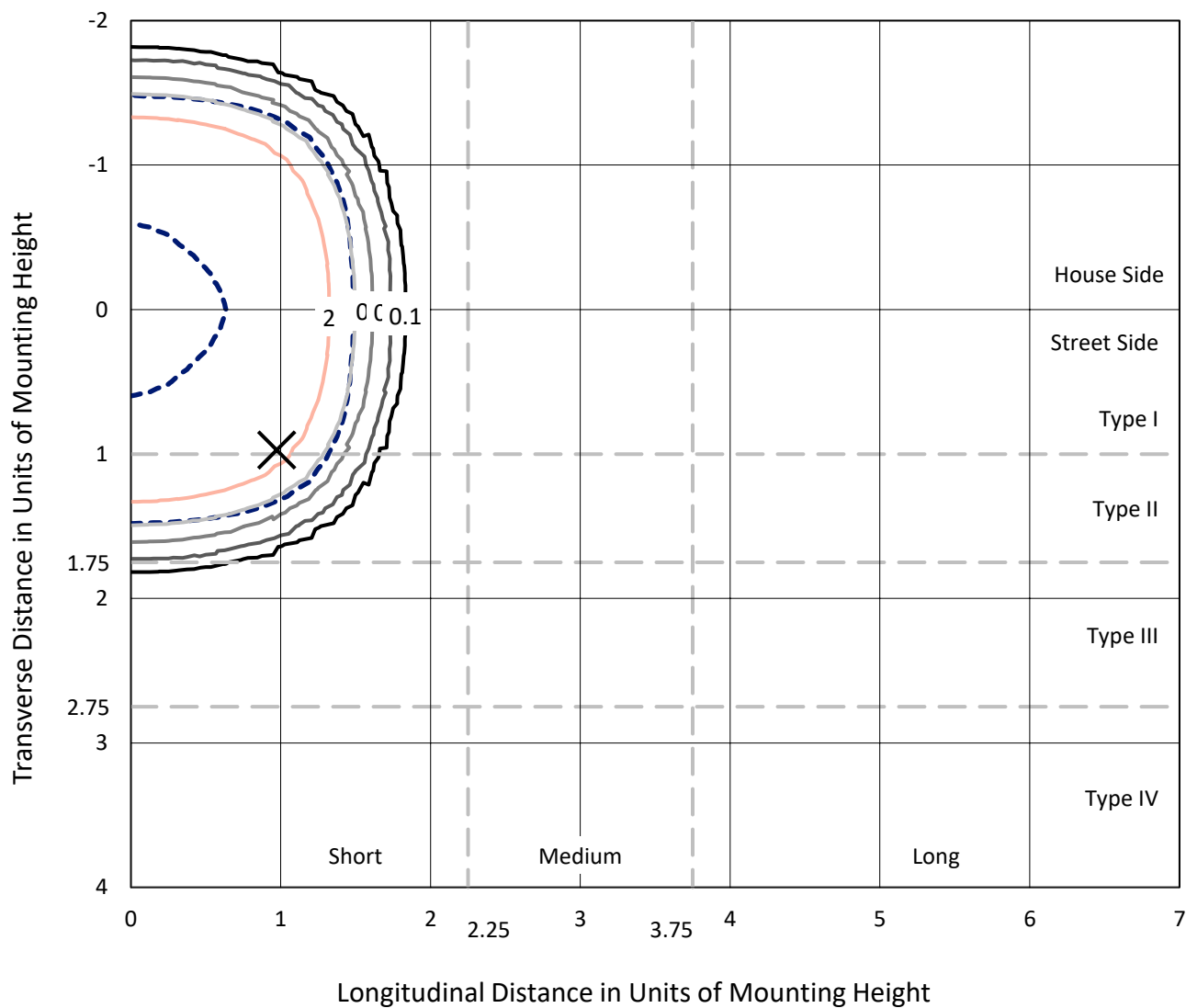
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

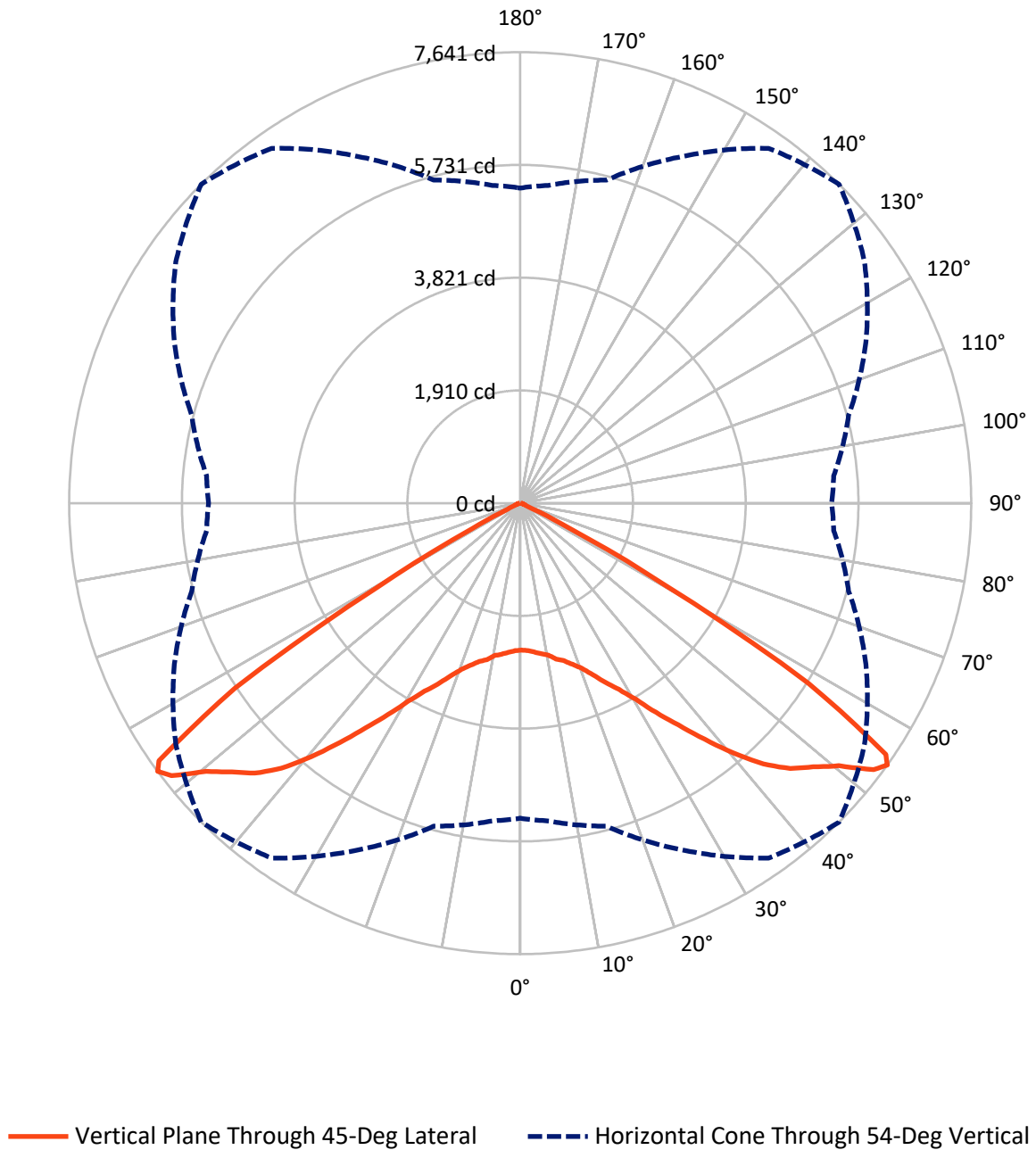
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 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	7591.0	0.0	7591.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7591.0	0.0	7591.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	15182.0	0.0	15182.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.7	1.6
10°-20°	789.0	5.2
20°-30°	1546.5	10.2
30°-40°	2780.9	18.3
40°-50°	4760.3	31.4
50°-60°	4606.0	30.3
60°-70°	394.3	2.6
70°-80°	46.7	0.3
80°-90°	14.6	0.1
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°	15182.0	100.0
0°-180°	15182.0	100.0

Coefficient of Utilization



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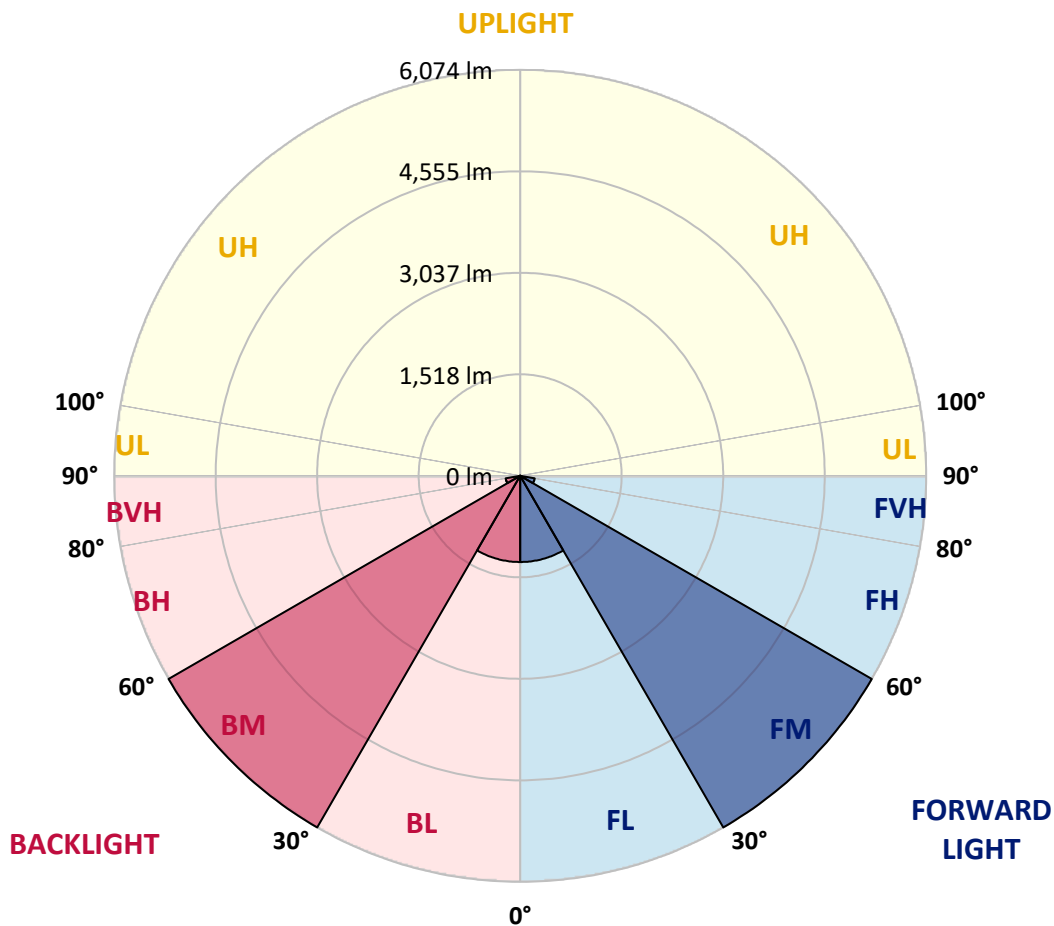
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1289.6	8.5			
FM	(30°-60°)	6073.6	40.0			
FH	(60°-80°)	220.5	1.5			G0/660
FVH	(80°-90°)	7.3	0.0			G0/10
BL	(0°-30°)	1289.6	8.5	B3/2500		
BM	(30°-60°)	6073.6	40.0	B4/8500		
BH	(60°-80°)	220.5	1.5	B1/500		G0/660
BVH	(80°-90°)	7.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G0

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2489.4	2489.4	2489.4	2489.4	2489.4	2489.4	2489.4	2489.4	2489.4	2489.4	2489.4
2.5°	2501.4	2515.8	2506.2	2513.4	2513.4	2501.4	2508.6	2479.8	2499.0	2484.6	2487.0
5°	2539.9	2537.5	2537.5	2539.9	2530.3	2535.1	2525.5	2515.8	2508.6	2499.0	2527.9
7.5°	2588.0	2588.0	2571.2	2576.0	2571.2	2578.4	2559.1	2539.9	2532.7	2525.5	2520.6
10°	2633.7	2628.9	2621.7	2643.3	2626.5	2616.9	2607.2	2595.2	2568.7	2559.1	2549.5
12.5°	2701.0	2698.6	2689.0	2710.7	2701.0	2710.7	2674.6	2643.3	2638.5	2607.2	2624.1
15°	2780.4	2802.1	2785.2	2785.2	2780.4	2768.4	2753.9	2739.5	2696.2	2684.2	2686.6
17.5°	2883.8	2876.6	2879.0	2879.0	2903.1	2871.8	2842.9	2806.9	2785.2	2778.0	2753.9
20°	2982.4	2992.1	2989.7	3006.5	3020.9	2987.2	2956.0	2951.2	2891.0	2900.7	2867.0
22.5°	3155.6	3148.4	3160.4	3172.4	3162.8	3158.0	3129.2	3093.1	3040.2	3016.1	3011.3
25°	3338.4	3326.4	3304.7	3333.6	3348.0	3369.7	3314.4	3295.1	3213.3	3177.3	3179.7
27.5°	3494.7	3511.6	3535.6	3547.7	3583.7	3576.5	3538.0	3475.5	3413.0	3372.1	3345.6
30°	3708.8	3718.4	3759.3	3776.2	3838.7	3855.5	3795.4	3723.2	3612.6	3559.7	3528.4
32.5°	3906.0	3973.4	3971.0	4055.2	4156.2	4225.9	4117.7	4007.1	3896.4	3833.9	3778.6
35°	4225.9	4213.9	4283.6	4372.6	4536.2	4615.6	4497.7	4370.2	4201.9	4100.9	4057.6
37.5°	4524.2	4529.0	4622.8	4764.7	4952.3	5075.0	4971.5	4762.3	4589.1	4459.2	4399.1
40°	4957.1	4966.7	5062.9	5224.1	5435.7	5568.0	5447.8	5236.1	5005.2	4904.2	4904.2
42.5°	5464.6	5505.5	5568.0	5707.5	5897.5	6044.3	5936.0	5770.1	5536.8	5406.9	5426.1
45°	5986.5	6005.8	6046.7	6253.5	6342.5	6414.7	6313.6	6236.7	6080.3	5921.6	5895.1
47.5°	6474.8	6482.0	6602.3	6667.2	6736.9	6676.8	6741.8	6640.7	6465.2	6311.2	6280.0
50°	6691.2	6679.2	6850.0	7047.2	7100.1	6994.3	6939.0	6871.6	6604.7	6419.5	6337.7
52.5°	6061.1	6130.8	6448.3	6996.7	7410.4	7499.4	7177.1	6866.8	6369.0	6008.2	5952.9
54°	5339.5	5404.5	5666.6	6479.6	7340.6	7641.3	7121.8	6462.8	5760.4	5332.3	5277.0
55°	4625.2	4553.0	5029.3	5859.1	7013.5	7516.2	6902.9	5940.8	5137.5	4745.4	4668.5
57.5°	2503.8	2515.8	2917.5	3701.6	4928.2	5762.8	5089.4	4019.1	3035.4	2595.2	2556.7
60°	793.7	813.0	988.5	1496.0	2354.7	2811.7	2410.0	1613.9	1116.0	894.7	858.7
62.5°	247.7	257.4	281.4	418.5	644.6	921.2	721.6	432.9	322.3	295.8	300.6
65°	151.5	151.5	153.9	163.6	192.4	223.7	216.5	190.0	182.8	178.0	175.6
67.5°	98.6	96.2	101.0	108.2	113.0	115.4	122.7	129.9	127.5	122.7	122.7
70°	60.1	57.7	62.5	72.2	74.6	79.4	86.6	96.2	93.8	89.0	91.4
72.5°	33.7	33.7	36.1	43.3	50.5	55.3	62.5	69.8	72.2	69.8	69.8
75°	12.0	14.4	19.2	26.5	31.3	38.5	45.7	52.9	60.1	55.3	52.9
77.5°	4.8	4.8	9.6	16.8	24.1	31.3	43.3	50.5	55.3	50.5	45.7
80°	2.4	2.4	7.2	14.4	21.6	28.9	36.1	43.3	45.7	40.9	36.1
82.5°	2.4	2.4	7.2	14.4	21.6	26.5	38.5	43.3	48.1	43.3	36.1
85°	0.0	2.4	7.2	14.4	19.2	21.6	21.6	14.4	12.0	7.2	7.2
87.5°	0.0	0.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)