

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: P529133

Luminaire Tested: **GALN-SA4B-735-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529133
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-SA4B-735-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 800mA 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: 14405 lumens
Efficiency: N/A
Efficacy: 87.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G0

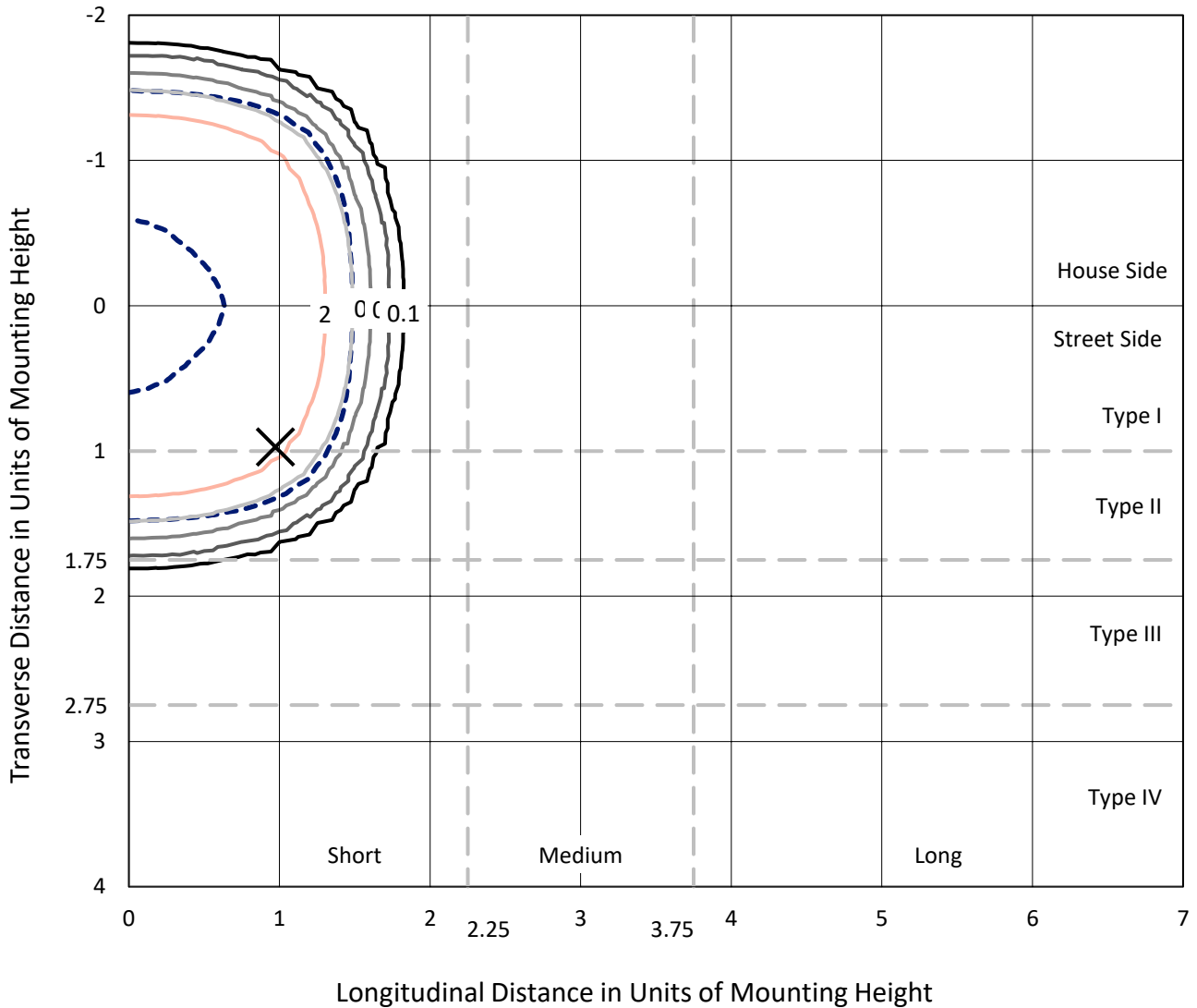
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

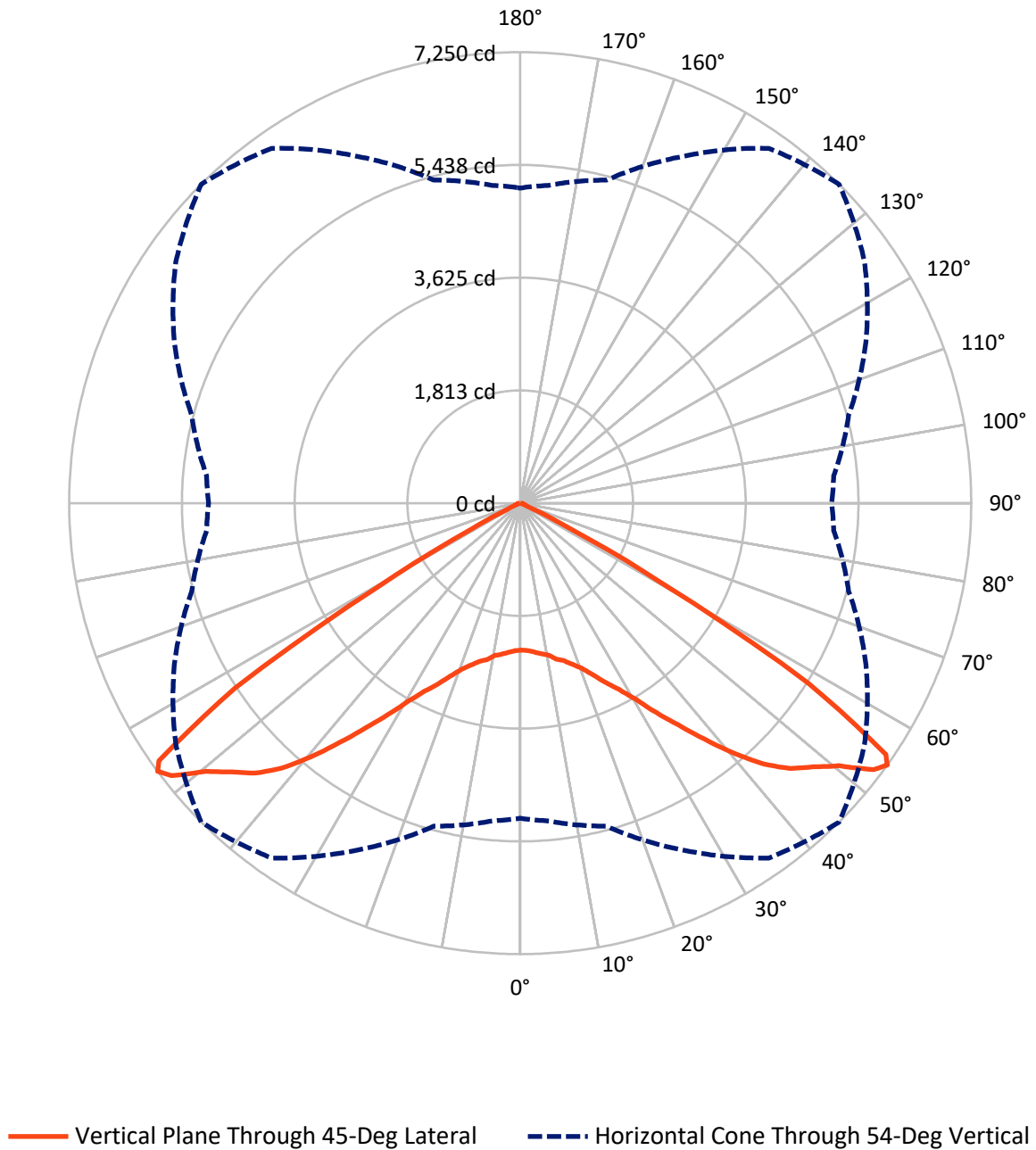
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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	7202.5	0.0	7202.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7202.5	0.0	7202.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	14405.0	0.0	14405.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.2	1.6
10°-20°	748.6	5.2
20°-30°	1467.3	10.2
30°-40°	2638.5	18.3
40°-50°	4516.7	31.4
50°-60°	4370.3	30.3
60°-70°	374.1	2.6
70°-80°	44.3	0.3
80°-90°	13.9	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°	14405.0	100.0
0°-180°	14405.0	100.0

Coefficient of Utilization

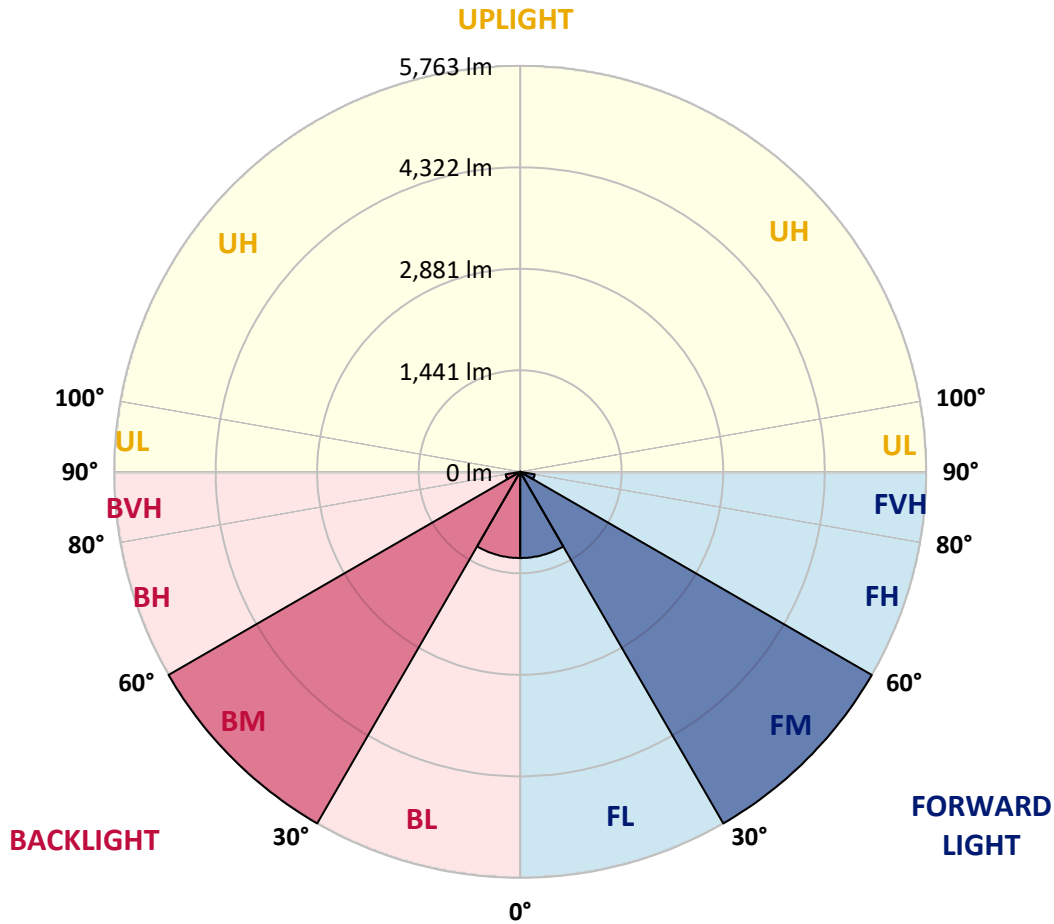


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1223.6	8.5			
FM (30°-60°)	5762.7	40.0			
FH (60°-80°)	209.2	1.5			G0/660
FVH (80°-90°)	7.0	0.0			G0/10
BL (0°-30°)	1223.6	8.5	B3/2500		
BM (30°-60°)	5762.7	40.0	B4/8500		
BH (60°-80°)	209.2	1.5	B1/500		G0/660
BVH (80°-90°)	7.0	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°	2362.0	2362.0	2362.0	2362.0	2362.0	2362.0	2362.0	2362.0	2362.0	2362.0	2362.0
2.5°	2373.4	2387.1	2377.9	2384.8	2384.8	2373.4	2380.2	2352.8	2371.1	2357.4	2359.7
5°	2409.9	2407.6	2407.6	2409.9	2400.8	2405.3	2396.2	2387.1	2380.2	2371.1	2398.5
7.5°	2455.5	2455.5	2439.6	2444.1	2439.6	2446.4	2428.2	2409.9	2403.0	2396.2	2391.6
10°	2498.9	2494.3	2487.5	2508.0	2492.1	2482.9	2473.8	2462.4	2437.3	2428.2	2419.0
12.5°	2562.8	2560.5	2551.4	2571.9	2562.8	2571.9	2537.7	2508.0	2503.5	2473.8	2489.8
15°	2638.1	2658.6	2642.7	2642.7	2638.1	2626.7	2613.0	2599.3	2558.2	2546.8	2549.1
17.5°	2736.2	2729.4	2731.7	2731.7	2754.5	2724.8	2697.4	2663.2	2642.7	2635.8	2613.0
20°	2829.8	2838.9	2836.6	2852.6	2866.3	2834.4	2804.7	2800.1	2743.1	2752.2	2720.3
22.5°	2994.1	2987.3	2998.7	3010.1	3001.0	2996.4	2969.0	2934.8	2884.6	2861.8	2857.2
25°	3167.6	3156.1	3135.6	3163.0	3176.7	3197.2	3144.7	3126.5	3048.9	3014.7	3016.9
27.5°	3315.9	3331.9	3354.7	3366.1	3400.3	3393.5	3357.0	3297.6	3238.3	3199.5	3174.4
30°	3519.0	3528.1	3566.9	3582.9	3642.2	3658.2	3601.2	3532.7	3427.7	3377.5	3347.8
32.5°	3706.1	3770.0	3767.7	3847.6	3943.5	4009.6	3907.0	3802.0	3697.0	3637.7	3585.2
35°	4009.6	3998.2	4064.4	4148.9	4304.0	4379.3	4267.5	4146.6	3986.8	3891.0	3849.9
37.5°	4292.6	4297.2	4386.2	4520.8	4698.8	4815.2	4717.1	4518.6	4354.2	4231.0	4174.0
40°	4703.4	4712.5	4803.8	4956.7	5157.5	5283.1	5169.0	4968.1	4749.0	4653.2	4653.2
42.5°	5184.9	5223.7	5283.1	5415.4	5595.7	5734.9	5632.2	5474.8	5253.4	5130.2	5148.4
45°	5680.1	5698.4	5737.2	5933.5	6017.9	6086.4	5990.5	5917.5	5769.1	5618.5	5593.4
47.5°	6143.4	6150.3	6264.4	6326.0	6392.2	6335.1	6396.7	6300.9	6134.3	5988.2	5958.6
50°	6348.8	6337.4	6499.4	6686.5	6736.8	6636.3	6583.9	6520.0	6266.6	6090.9	6013.3
52.5°	5750.9	5817.1	6118.3	6638.6	7031.1	7115.6	6809.8	6515.4	6043.0	5700.7	5648.2
54°	5066.3	5127.9	5376.6	6148.0	6965.0	7250.2	6757.3	6132.0	5465.6	5059.4	5006.9
55°	4388.5	4320.0	4771.9	5559.2	6654.6	7131.6	6549.6	5636.8	4874.6	4502.6	4429.6
57.5°	2375.7	2387.1	2768.2	3512.1	4676.0	5467.9	4828.9	3813.4	2880.0	2462.4	2425.9
60°	753.1	771.3	937.9	1419.5	2234.2	2667.8	2286.7	1531.3	1058.9	848.9	814.7
62.5°	235.1	244.2	267.0	397.1	611.6	874.0	684.6	410.8	305.8	280.7	285.3
65°	143.8	143.8	146.1	155.2	182.6	212.2	205.4	180.3	173.4	168.9	166.6
67.5°	93.6	91.3	95.8	102.7	107.3	109.5	116.4	123.2	121.0	116.4	116.4
70°	57.1	54.8	59.3	68.5	70.7	75.3	82.2	91.3	89.0	84.4	86.7
72.5°	31.9	31.9	34.2	41.1	47.9	52.5	59.3	66.2	68.5	66.2	66.2
75°	11.4	13.7	18.3	25.1	29.7	36.5	43.4	50.2	57.1	52.5	50.2
77.5°	4.6	4.6	9.1	16.0	22.8	29.7	41.1	47.9	52.5	47.9	43.4
80°	2.3	2.3	6.8	13.7	20.5	27.4	34.2	41.1	43.4	38.8	34.2
82.5°	2.3	2.3	6.8	13.7	20.5	25.1	36.5	41.1	45.6	41.1	34.2
85°	0.0	2.3	6.8	13.7	18.3	20.5	20.5	13.7	11.4	6.8	6.8
87.5°	0.0	0.0	2.3	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)