

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: P528900

Luminaire Tested: **GALN-SA4A-735-U-5NQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528900
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-6)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4A-735-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15180 lumens
Efficiency: N/A
Efficacy: 125.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

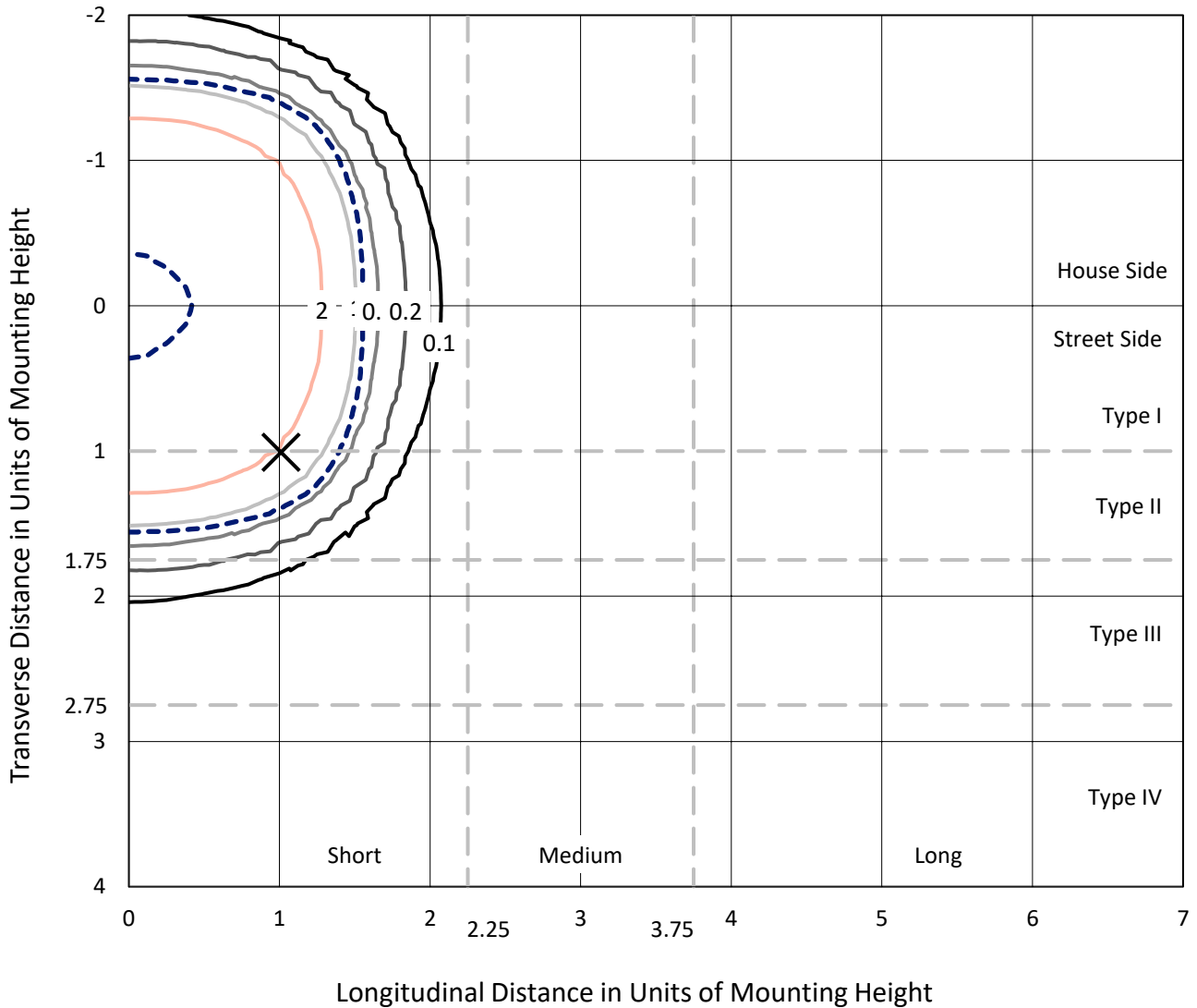
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

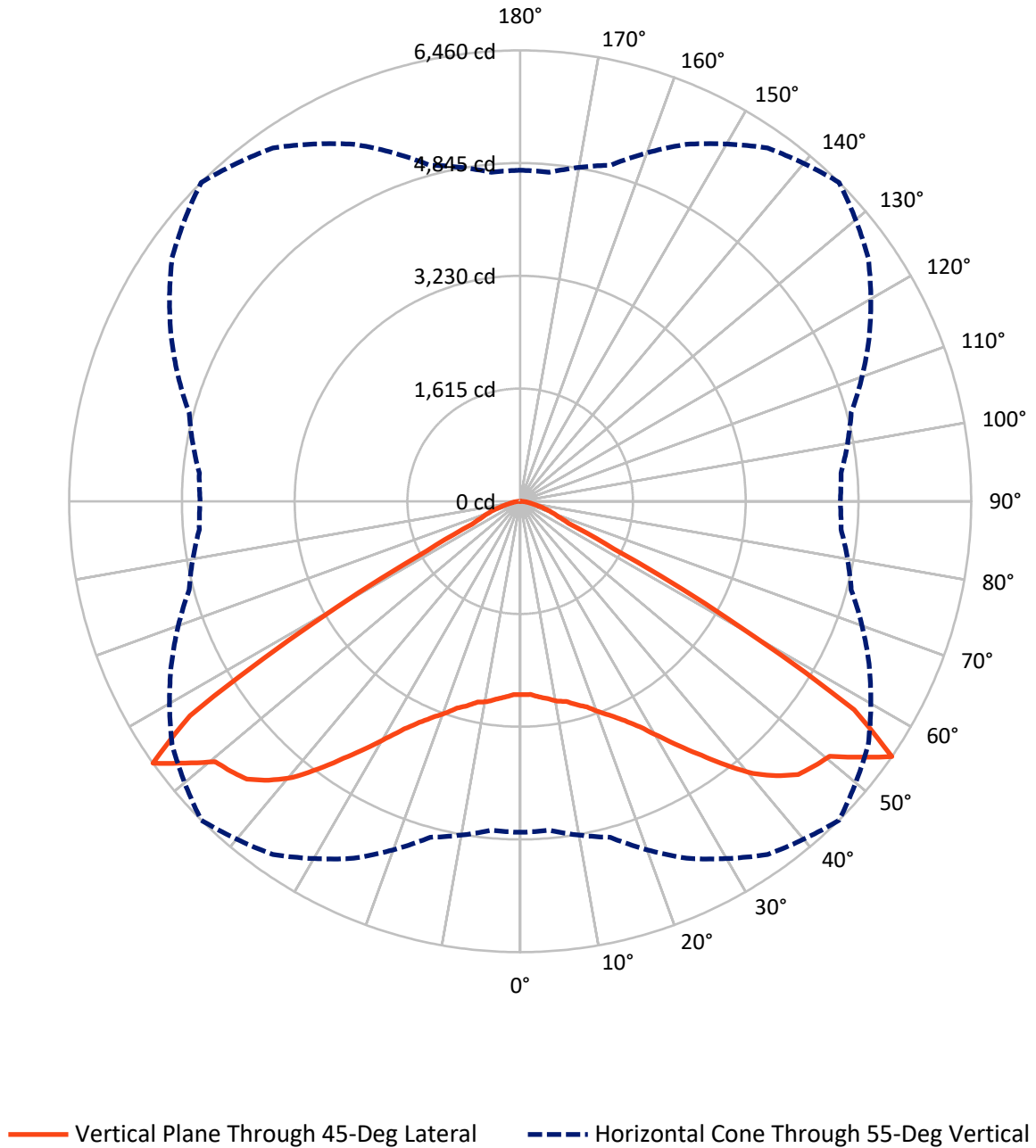
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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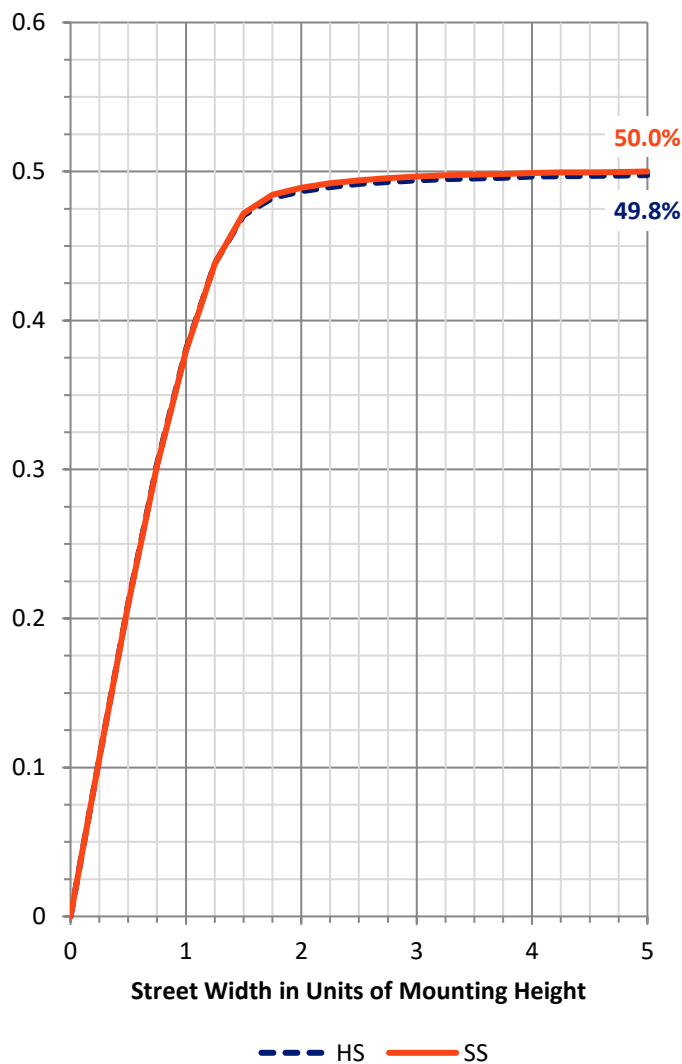
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7590.0	0.0	7590.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7590.0	0.0	7590.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	15180.0	0.0	15180.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.8	1.8
10°-20°	857.9	5.7
20°-30°	1599.7	10.5
30°-40°	2678.5	17.6
40°-50°	4167.9	27.5
50°-60°	4327.6	28.5
60°-70°	917.7	6.0
70°-80°	302.2	2.0
80°-90°	57.6	0.4
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°	15180.0	100.0
0°-180°	15180.0	100.0

Coefficient of Utilization

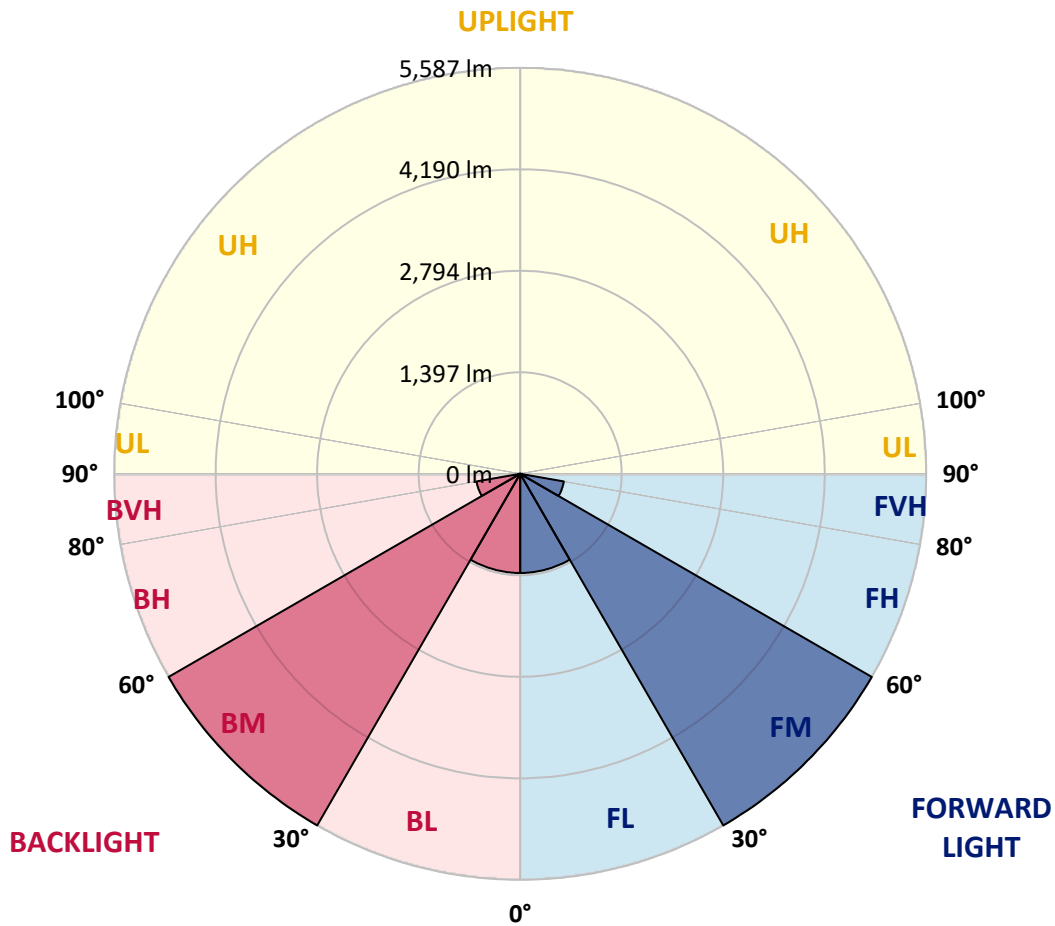


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1364.2	9.0			
FM (30°-60°)	5587.0	36.8			
FH (60°-80°)	610.0	4.0			G0/660
FVH (80°-90°)	28.8	0.2			G1/100
BL (0°-30°)	1364.2	9.0	B3/2500		
BM (30°-60°)	5587.0	36.8	B4/8500		
BH (60°-80°)	610.0	4.0	B2/1000		G0/660
BVH (80°-90°)	28.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2771.6	2771.6	2771.6	2771.6	2771.6	2771.6	2771.6	2771.6	2771.6	2771.6	2771.6
2.5°	2804.7	2791.8	2769.8	2786.3	2799.2	2771.6	2782.6	2788.2	2784.5	2769.8	2775.3
5°	2845.0	2837.7	2819.3	2832.2	2815.7	2815.7	2804.7	2790.0	2812.0	2808.3	2817.5
7.5°	2845.0	2835.8	2872.5	2848.7	2856.0	2856.0	2837.7	2823.0	2834.0	2817.5	2808.3
10°	2901.9	2914.7	2898.2	2903.7	2900.0	2912.9	2885.4	2876.2	2867.0	2861.5	2850.5
12.5°	2969.7	2960.6	2966.1	2962.4	2975.2	2942.2	2925.7	2905.5	2922.1	2898.2	2914.7
15°	3024.8	3019.3	3024.8	3039.5	3026.6	3024.8	2995.4	2975.2	2949.6	2955.1	2929.4
17.5°	3100.0	3094.5	3096.3	3109.2	3107.3	3098.1	3076.1	3037.6	3028.4	3013.8	2997.3
20°	3211.9	3202.7	3199.0	3204.5	3213.7	3221.0	3177.0	3162.3	3131.2	3107.3	3079.8
22.5°	3307.3	3303.6	3318.3	3294.4	3314.6	3336.6	3294.4	3287.1	3210.0	3197.2	3167.9
25°	3439.3	3433.8	3424.7	3459.5	3483.4	3481.5	3441.2	3400.8	3342.1	3327.4	3327.4
27.5°	3578.7	3547.6	3595.2	3604.4	3646.6	3659.4	3624.6	3565.9	3510.9	3479.7	3487.0
30°	3753.0	3723.6	3734.7	3800.7	3855.7	3903.4	3815.4	3729.2	3652.1	3597.1	3587.9
32.5°	3927.3	3897.9	3930.9	3995.1	4105.2	4176.7	4090.5	3940.1	3850.2	3769.5	3786.0
35°	4068.5	4090.5	4143.7	4240.9	4354.7	4470.2	4332.6	4217.1	4088.7	3998.8	4011.6
37.5°	4296.0	4363.8	4406.0	4517.9	4679.3	4798.6	4655.5	4505.1	4367.5	4250.1	4209.7
40°	4593.1	4639.0	4686.7	4818.7	5009.5	5128.7	4993.0	4796.7	4661.0	4539.9	4534.4
42.5°	4919.6	4963.6	5013.2	5174.6	5288.3	5378.2	5253.5	5148.9	4998.5	4903.1	4897.6
45°	5299.3	5268.1	5323.2	5429.6	5524.9	5583.6	5502.9	5451.6	5343.3	5255.3	5246.1
47.5°	5552.5	5524.9	5624.0	5719.4	5734.1	5669.9	5686.4	5734.1	5620.3	5475.4	5521.3
50°	5699.2	5699.2	5765.2	5853.3	5825.8	5743.2	5873.5	5877.1	5763.4	5635.0	5635.0
52.5°	5444.2	5501.1	5688.2	5976.2	6067.9	6091.7	6062.4	5937.7	5640.5	5378.2	5365.4
55°	4743.5	4730.7	4983.8	5644.2	6178.0	6460.4	6086.2	5512.1	4908.6	4613.3	4583.9
57.5°	3085.3	3100.0	3477.9	4151.0	5114.1	5640.5	5009.5	4202.4	3477.9	3070.6	3109.2
60°	1388.6	1438.1	1667.4	2170.0	2997.3	3426.5	3004.6	2280.0	1749.9	1518.8	1539.0
62.5°	797.9	807.1	816.3	968.5	1276.7	1509.6	1326.2	1023.5	902.5	862.1	862.1
65°	673.2	667.7	669.5	682.4	715.4	763.1	742.9	715.4	719.0	715.4	709.9
67.5°	572.3	579.6	574.1	583.3	585.1	592.5	605.3	616.3	618.2	621.8	618.2
70°	469.6	471.4	475.1	482.4	484.3	489.8	508.1	517.3	522.8	522.8	530.1
72.5°	359.5	357.7	361.4	368.7	377.9	379.7	396.2	409.1	416.4	407.2	409.1
75°	236.6	238.5	244.0	249.5	262.3	275.1	280.6	293.5	295.3	299.0	289.8
77.5°	141.2	144.9	150.4	161.4	172.4	183.4	196.3	205.4	209.1	205.4	194.4
80°	91.7	91.7	99.1	108.2	121.1	130.2	137.6	144.9	150.4	144.9	141.2
82.5°	56.9	56.9	66.0	77.0	86.2	91.7	102.7	111.9	117.4	113.7	108.2
85°	29.3	31.2	38.5	47.7	55.0	58.7	56.9	51.4	45.9	44.0	40.4
87.5°	9.2	9.2	11.0	11.0	9.2	9.2	11.0	9.2	11.0	11.0	11.0
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)