

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: P528926

Luminaire Tested: **GALN-SA4A-740-U-5NQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528926
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-740-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 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: 16295 lumens
Efficiency: N/A
Efficacy: 134.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

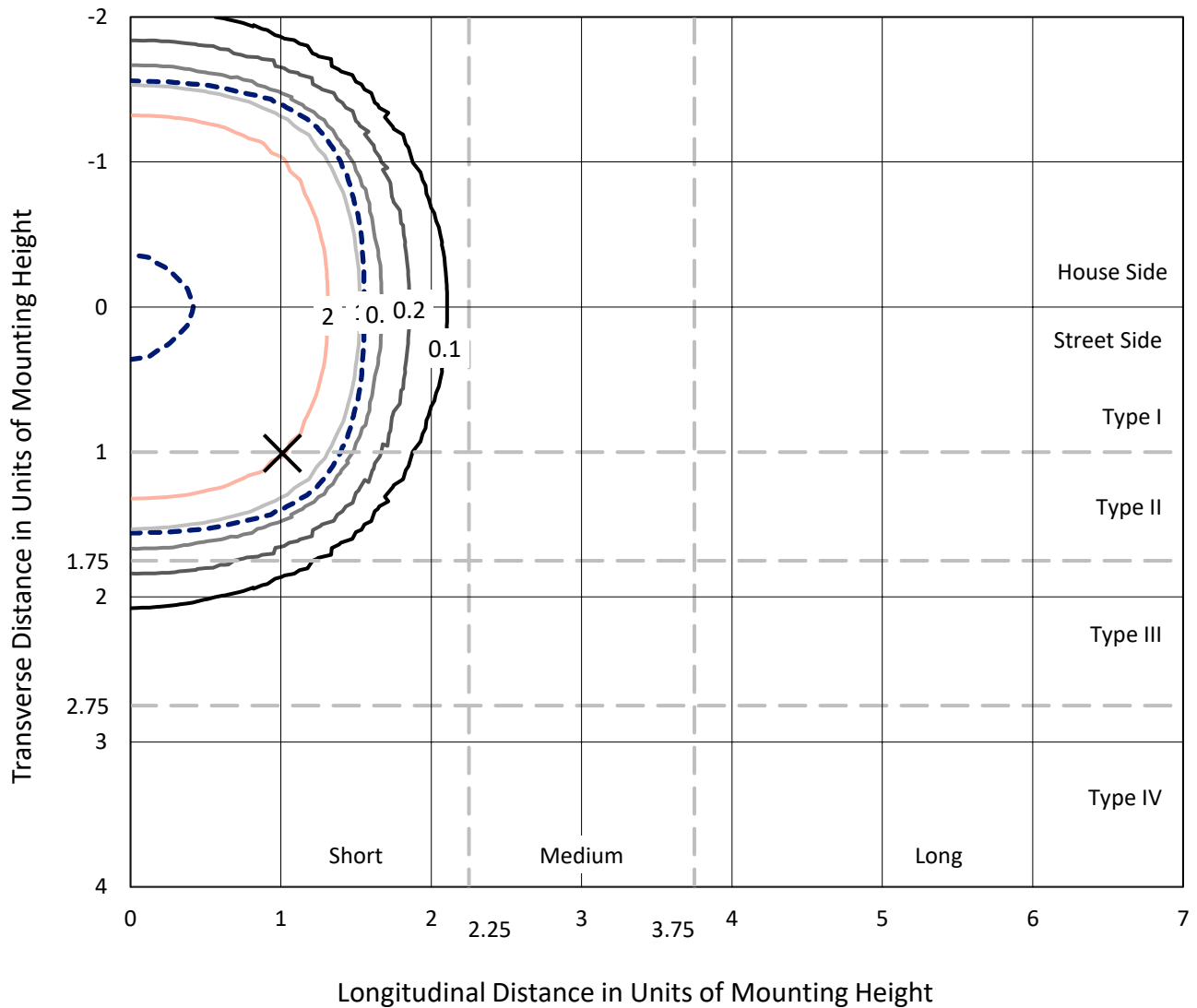
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

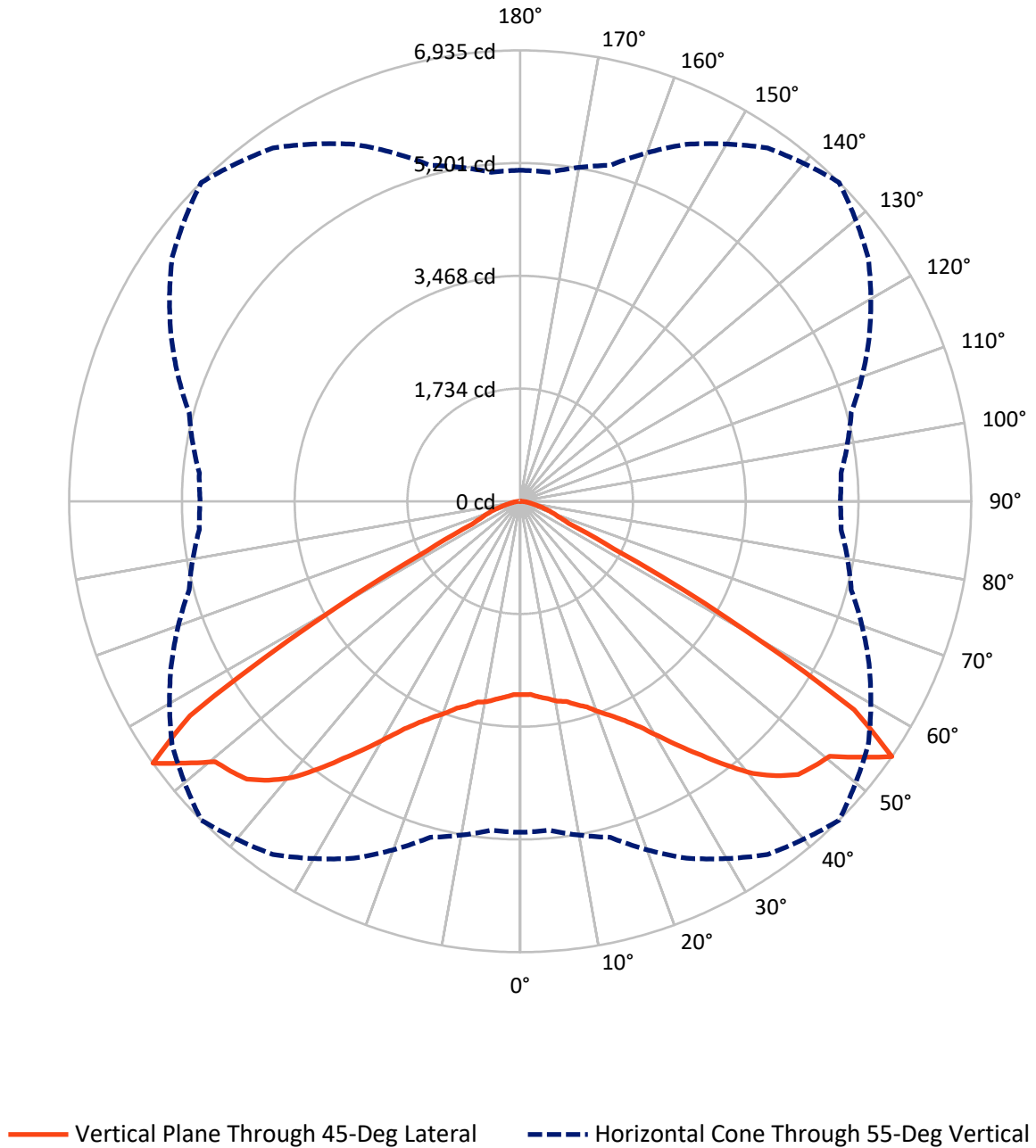
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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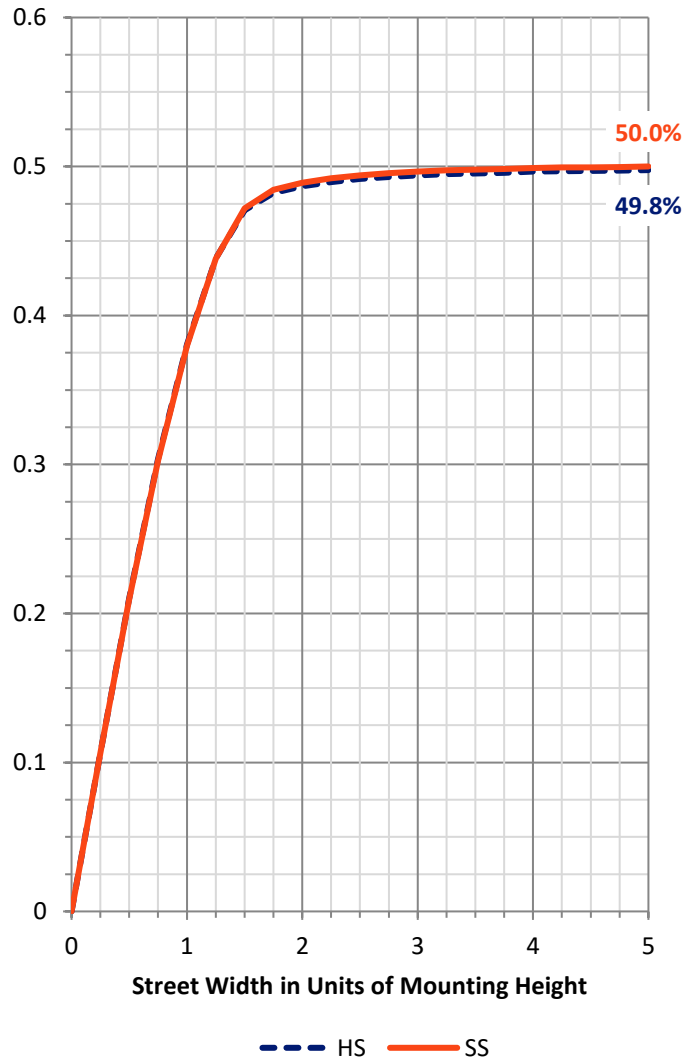
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8147.5	0.0	8147.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8147.5	0.0	8147.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	16295.0	0.0	16295.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.6	1.8
10°-20°	920.9	5.7
20°-30°	1717.2	10.5
30°-40°	2875.2	17.6
40°-50°	4474.1	27.5
50°-60°	4645.5	28.5
60°-70°	985.2	6.0
70°-80°	324.5	2.0
80°-90°	61.8	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°	16295.0	100.0
0°-180°	16295.0	100.0

Coefficient of Utilization

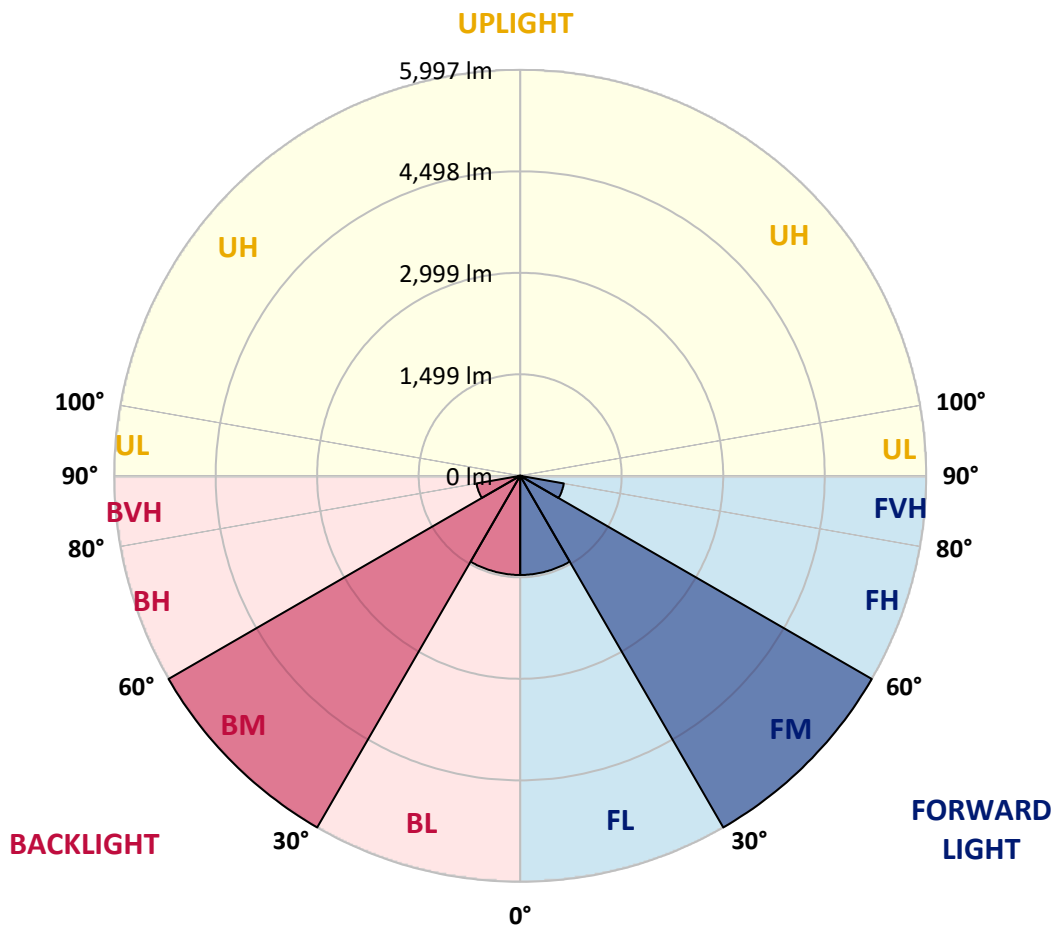


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1464.4	9.0			
FM (30°-60°)	5997.4	36.8			
FH (60°-80°)	654.8	4.0			G0/660
FVH (80°-90°)	30.9	0.2			G1/100
BL (0°-30°)	1464.4	9.0	B3/2500		
BM (30°-60°)	5997.4	36.8	B4/8500		
BH (60°-80°)	654.8	4.0	B2/1000		G0/660
BVH (80°-90°)	30.9	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°	2975.2	2975.2	2975.2	2975.2	2975.2	2975.2	2975.2	2975.2	2975.2	2975.2	2975.2
2.5°	3010.7	2996.9	2973.3	2991.0	3004.8	2975.2	2987.0	2992.9	2989.0	2973.3	2979.2
5°	3054.0	3046.1	3026.4	3040.2	3022.5	3022.5	3010.7	2994.9	3018.5	3014.6	3024.5
7.5°	3054.0	3044.1	3083.5	3057.9	3065.8	3065.8	3046.1	3030.4	3042.2	3024.5	3014.6
10°	3115.0	3128.8	3111.1	3117.0	3113.1	3126.8	3097.3	3087.5	3077.6	3071.7	3059.9
12.5°	3187.9	3178.0	3183.9	3180.0	3193.8	3158.3	3140.6	3119.0	3136.7	3111.1	3128.8
15°	3247.0	3241.0	3247.0	3262.7	3248.9	3247.0	3215.4	3193.8	3166.2	3172.1	3144.6
17.5°	3327.7	3321.8	3323.7	3337.5	3335.6	3325.7	3302.1	3260.7	3250.9	3235.1	3217.4
20°	3447.8	3437.9	3434.0	3439.9	3449.8	3457.6	3410.4	3394.6	3361.2	3335.6	3306.0
22.5°	3550.2	3546.2	3562.0	3536.4	3558.1	3581.7	3536.4	3528.5	3445.8	3432.0	3400.5
25°	3692.0	3686.0	3676.2	3713.6	3739.2	3737.2	3693.9	3650.6	3587.6	3571.8	3571.8
27.5°	3841.6	3808.1	3859.3	3869.2	3914.5	3928.2	3890.8	3827.8	3768.7	3735.3	3743.2
30°	4028.7	3997.2	4009.0	4079.9	4138.9	4190.1	4095.6	4003.1	3920.4	3861.3	3851.4
32.5°	4215.7	4184.2	4219.7	4288.6	4406.7	4483.5	4391.0	4229.5	4133.0	4046.4	4064.1
35°	4367.3	4391.0	4448.1	4552.4	4674.5	4798.6	4650.9	4526.8	4389.0	4292.5	4306.3
37.5°	4611.5	4684.4	4729.6	4849.8	5023.0	5151.0	4997.4	4836.0	4688.3	4562.3	4519.0
40°	4930.5	4979.7	5030.9	5172.7	5377.5	5505.4	5359.7	5149.0	5003.3	4873.4	4867.5
42.5°	5281.0	5328.2	5381.4	5554.7	5676.8	5773.2	5639.3	5527.1	5365.6	5263.3	5257.3
45°	5688.6	5655.1	5714.2	5828.4	5930.8	5993.8	5907.1	5852.0	5735.8	5641.3	5631.5
47.5°	5960.3	5930.8	6037.1	6139.5	6155.2	6086.3	6104.0	6155.2	6033.1	5877.6	5926.8
50°	6117.8	6117.8	6188.7	6283.2	6253.7	6165.1	6304.9	6308.8	6186.7	6048.9	6048.9
52.5°	5844.1	5905.2	6106.0	6415.1	6513.6	6539.2	6507.7	6373.8	6054.8	5773.2	5759.5
55°	5091.9	5078.2	5349.9	6058.7	6631.7	6935.0	6533.3	5917.0	5269.2	4952.1	4920.6
57.5°	3311.9	3327.7	3733.3	4455.9	5489.7	6054.8	5377.5	4511.1	3733.3	3296.2	3337.5
60°	1490.6	1543.7	1789.9	2329.4	3217.4	3678.2	3225.3	2447.5	1878.5	1630.4	1652.0
62.5°	856.5	866.4	876.2	1039.7	1370.5	1620.5	1423.6	1098.7	968.8	925.5	925.5
65°	722.6	716.7	718.7	732.5	767.9	819.1	797.5	767.9	771.9	767.9	762.0
67.5°	614.3	622.2	616.3	626.2	628.1	636.0	649.8	661.6	663.6	667.5	663.6
70°	504.1	506.0	510.0	517.9	519.8	525.7	545.4	555.3	561.2	561.2	569.1
72.5°	385.9	384.0	387.9	395.8	405.6	407.6	425.3	439.1	447.0	437.1	439.1
75°	254.0	256.0	261.9	267.8	281.6	295.4	301.3	315.0	317.0	321.0	311.1
77.5°	151.6	155.6	161.5	173.3	185.1	196.9	210.7	220.5	224.5	220.5	208.7
80°	98.5	98.5	106.3	116.2	130.0	139.8	147.7	155.6	161.5	155.6	151.6
82.5°	61.0	61.0	70.9	82.7	92.5	98.5	110.3	120.1	126.0	122.1	116.2
85°	31.5	33.5	41.3	51.2	59.1	63.0	61.0	55.1	49.2	47.3	43.3
87.5°	9.8	9.8	11.8	11.8	9.8	9.8	11.8	9.8	11.8	11.8	11.8
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)