

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: P647927

Luminaire Tested: **GALN-SA5A-835-U-RW-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647927
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-8)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5A-835-U-RW-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15712.4 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

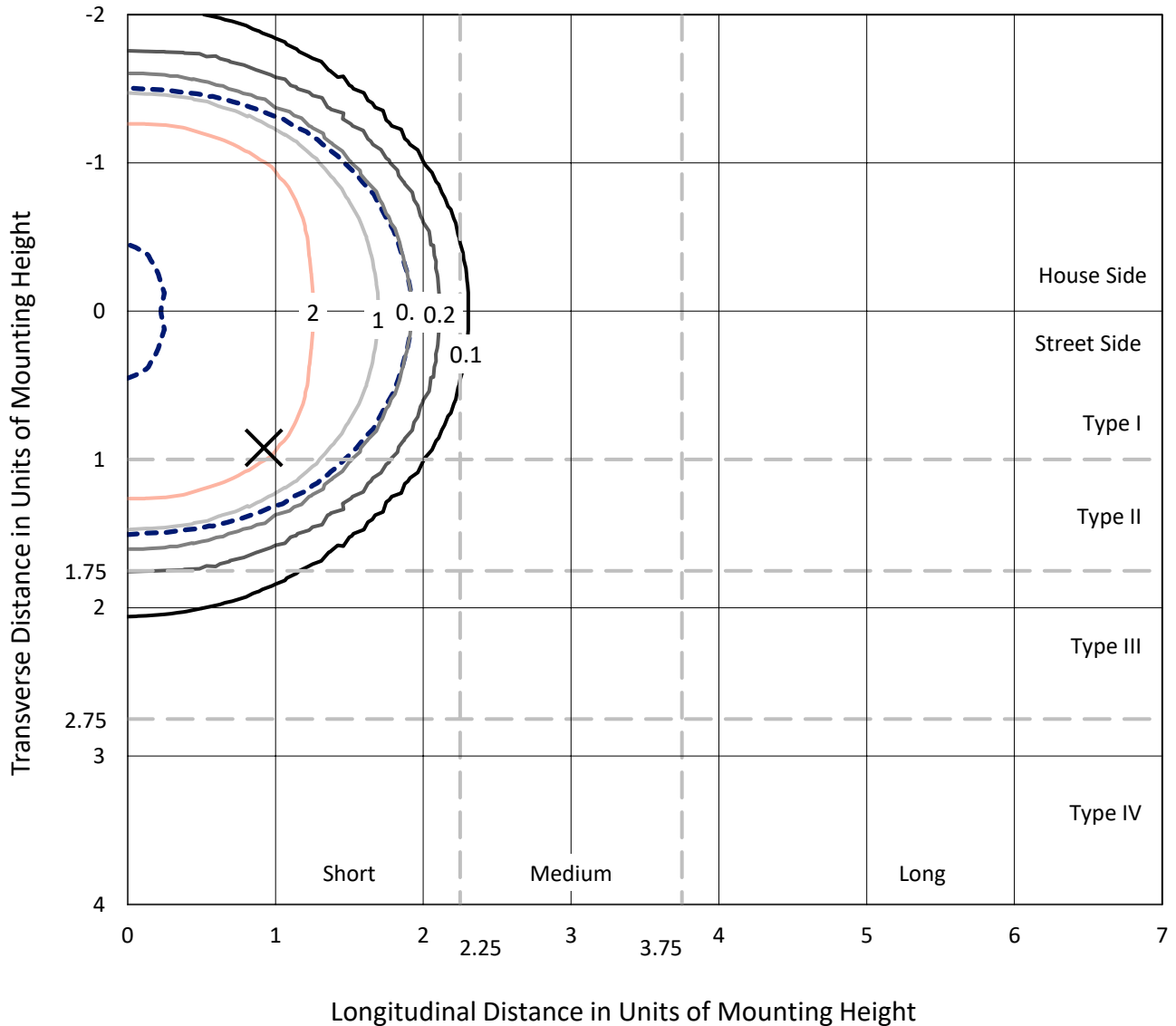
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

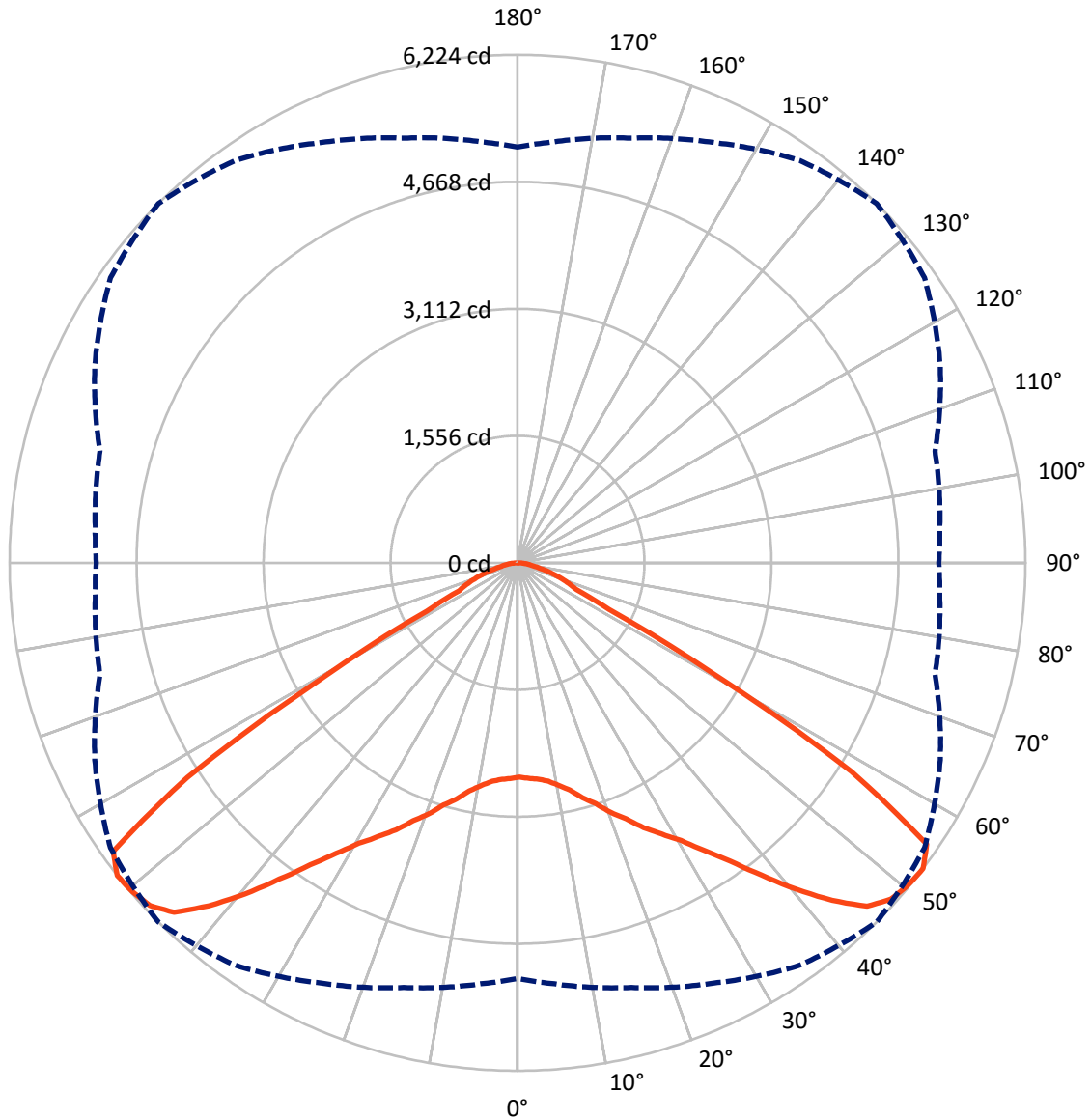
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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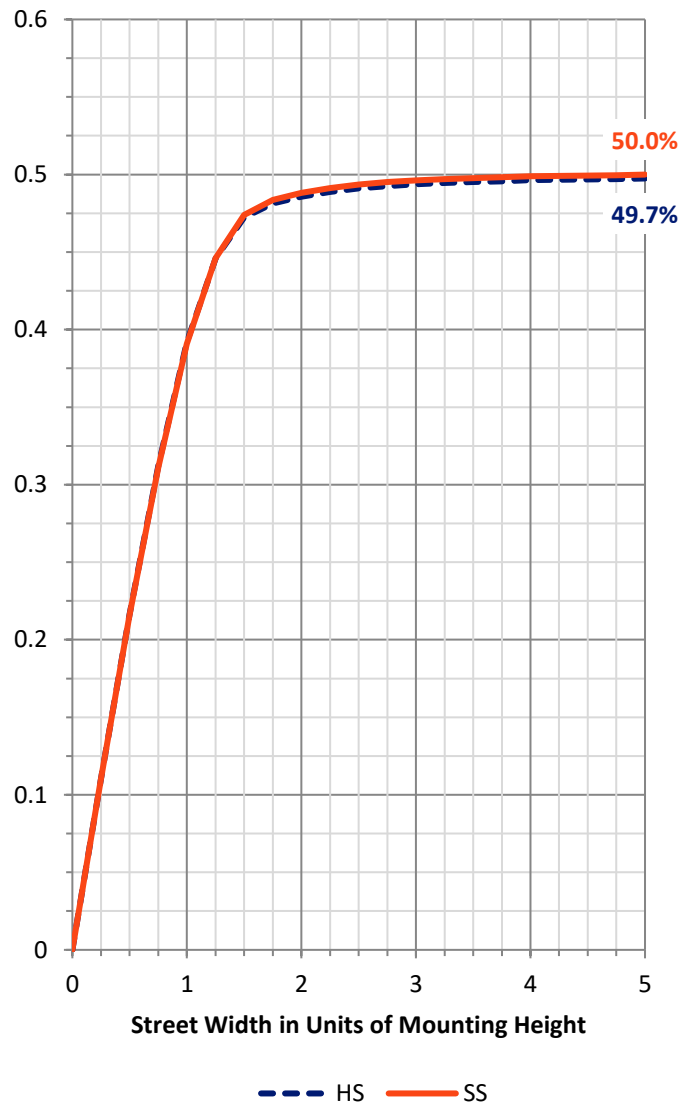
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7856.2	0.0	7856.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7856.2	0.0	7856.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	15712.4	0.0	15712.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.1	1.6
10°-20°	847.9	5.4
20°-30°	1614.4	10.3
30°-40°	2771.9	17.6
40°-50°	4260.6	27.1
50°-60°	4326.5	27.5
60°-70°	1205.7	7.7
70°-80°	355.7	2.3
80°-90°	71.6	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°	15712.4	100.0
0°-180°	15712.4	100.0

Coefficient of Utilization



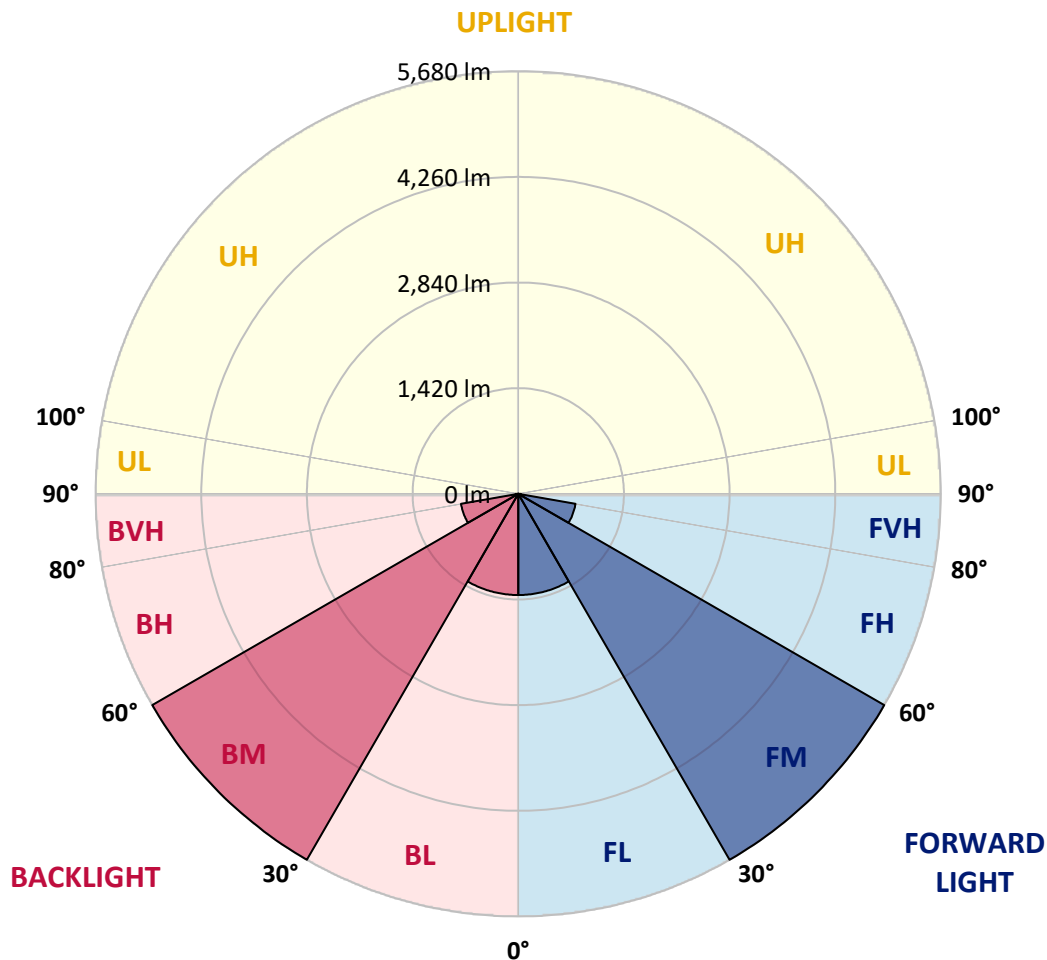
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1360.2	8.7			
FM (30°-60°)	5679.5	36.1			
FH (60°-80°)	780.7	5.0			G1/1800
FVH (80°-90°)	35.8	0.2			G1/100
BL (0°-30°)	1360.2	8.7	B3/2500		
BM (30°-60°)	5679.5	36.1	B4/8500		
BH (60°-80°)	780.7	5.0	B2/1000		G1/1800
BVH (80°-90°)	35.8	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°	2626.6	2626.6	2626.6	2626.6	2626.6	2626.6	2626.6	2626.6	2626.6	2626.6	2626.6
2.5°	2632.4	2605.1	2614.8	2620.7	2646.1	2644.1	2638.2	2646.1	2653.8	2655.8	2651.9
5°	2630.4	2610.9	2618.7	2624.6	2649.9	2663.6	2659.7	2692.8	2716.2	2710.4	2739.6
7.5°	2614.8	2626.6	2616.8	2646.1	2667.5	2700.6	2735.7	2767.0	2796.2	2829.4	2835.2
10°	2649.9	2649.9	2667.5	2690.9	2747.5	2772.8	2823.5	2868.4	2924.9	2963.9	2948.3
12.5°	2687.0	2692.8	2692.8	2753.3	2800.1	2856.6	2903.4	2963.9	3043.8	3090.7	3114.0
15°	2724.1	2728.0	2747.5	2829.4	2899.5	2989.3	3032.2	3086.7	3131.6	3219.3	3221.3
17.5°	2757.2	2778.6	2837.1	2928.8	3016.5	3102.3	3170.6	3227.1	3266.1	3301.2	3293.5
20°	2882.0	2897.6	2958.0	3049.7	3180.3	3264.2	3287.6	3297.3	3322.7	3392.9	3371.4
22.5°	3002.9	3008.8	3065.3	3205.7	3297.3	3408.5	3433.8	3428.0	3437.7	3455.3	3486.5
25°	3127.7	3137.4	3215.4	3334.4	3463.1	3595.7	3617.1	3572.3	3558.6	3578.1	3580.0
27.5°	3287.6	3289.5	3389.0	3492.3	3638.5	3763.3	3796.5	3761.4	3697.1	3712.7	3738.0
30°	3490.4	3476.7	3576.2	3724.3	3878.4	3948.6	4005.1	3987.6	3917.4	3903.7	3882.3
32.5°	3724.3	3728.3	3818.0	3979.8	4081.2	4198.2	4258.7	4229.4	4184.5	4161.1	4174.8
35°	4053.9	4071.4	4131.9	4266.4	4430.2	4488.7	4584.2	4521.9	4404.8	4434.1	4459.5
37.5°	4324.9	4375.6	4488.7	4648.6	4746.1	4853.3	4888.4	4804.6	4718.8	4683.7	4767.5
40°	4740.3	4724.6	4849.4	5009.3	5153.6	5260.9	5216.0	5132.2	4919.7	4921.6	4945.0
42.5°	5097.1	5104.9	5200.5	5391.5	5588.5	5654.7	5512.4	5307.7	5071.7	5046.4	5097.1
45°	5397.4	5428.6	5483.2	5738.6	5931.7	6003.8	5740.6	5498.8	5182.9	5077.6	5161.5
47.5°	5504.6	5555.3	5674.2	5908.3	6099.3	6157.8	5947.3	5600.2	5286.3	5114.6	5159.5
50°	5520.2	5502.7	5697.7	5912.2	6079.8	6206.6	6021.3	5674.2	5260.9	5171.2	5157.5
52.5°	5093.2	5179.0	5387.7	5682.1	6021.3	6224.1	6087.7	5715.2	5296.0	5194.6	5161.5
55°	4122.1	4020.7	4401.0	4896.3	5520.2	6083.8	6064.3	5736.6	5317.4	5233.6	5188.7
57.5°	2300.9	2330.1	2544.7	3082.8	3888.1	4824.1	5391.5	5510.4	5307.7	5258.9	5282.4
60°	1064.6	1074.4	1166.0	1417.6	1916.8	2735.7	3482.5	4241.0	4590.1	4660.3	4660.3
62.5°	793.6	789.7	813.1	857.9	963.2	1257.7	1678.9	2281.4	2761.1	3096.5	3184.2
65°	717.5	715.6	727.3	742.9	750.7	791.7	885.3	1070.5	1226.5	1316.2	1300.6
67.5°	627.9	625.9	629.8	639.6	653.3	674.7	698.0	737.0	791.7	787.8	778.0
70°	507.0	507.0	512.9	520.6	536.2	561.6	588.9	616.1	663.0	672.8	670.8
72.5°	374.4	368.6	380.2	395.8	411.5	442.6	471.9	497.2	530.4	540.1	536.2
75°	237.9	241.8	249.6	267.2	294.4	315.9	347.1	368.6	390.0	397.8	399.7
77.5°	132.6	136.5	150.2	171.6	198.9	222.3	249.6	267.2	280.8	282.7	284.7
80°	79.9	81.9	95.5	115.0	138.4	163.8	185.3	202.8	214.5	208.7	206.7
82.5°	48.8	50.7	62.4	79.9	99.4	118.9	142.3	157.9	169.7	161.8	154.0
85°	25.4	27.3	37.0	48.8	64.4	74.1	74.1	66.3	64.4	60.4	58.5
87.5°	7.8	7.8	9.8	11.7	9.8	11.7	13.6	15.6	15.6	17.5	15.6
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)