

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: P648367

Luminaire Tested: **GALN-SA4B-835-U-RW-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648367
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-SA4B-835-U-RW-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 800mA 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: 15443.9 lumens
Efficiency: N/A
Efficacy: 94.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

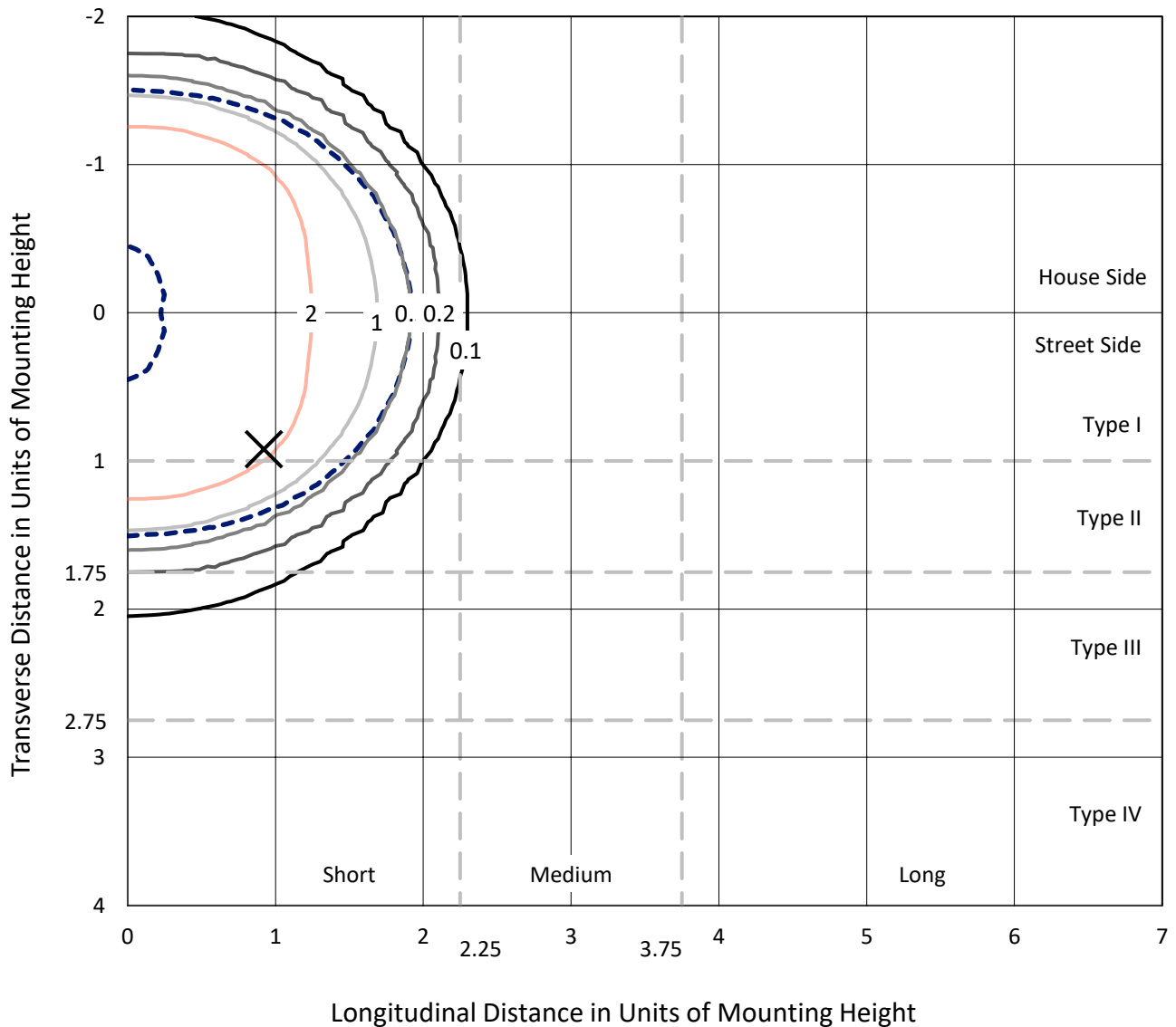
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

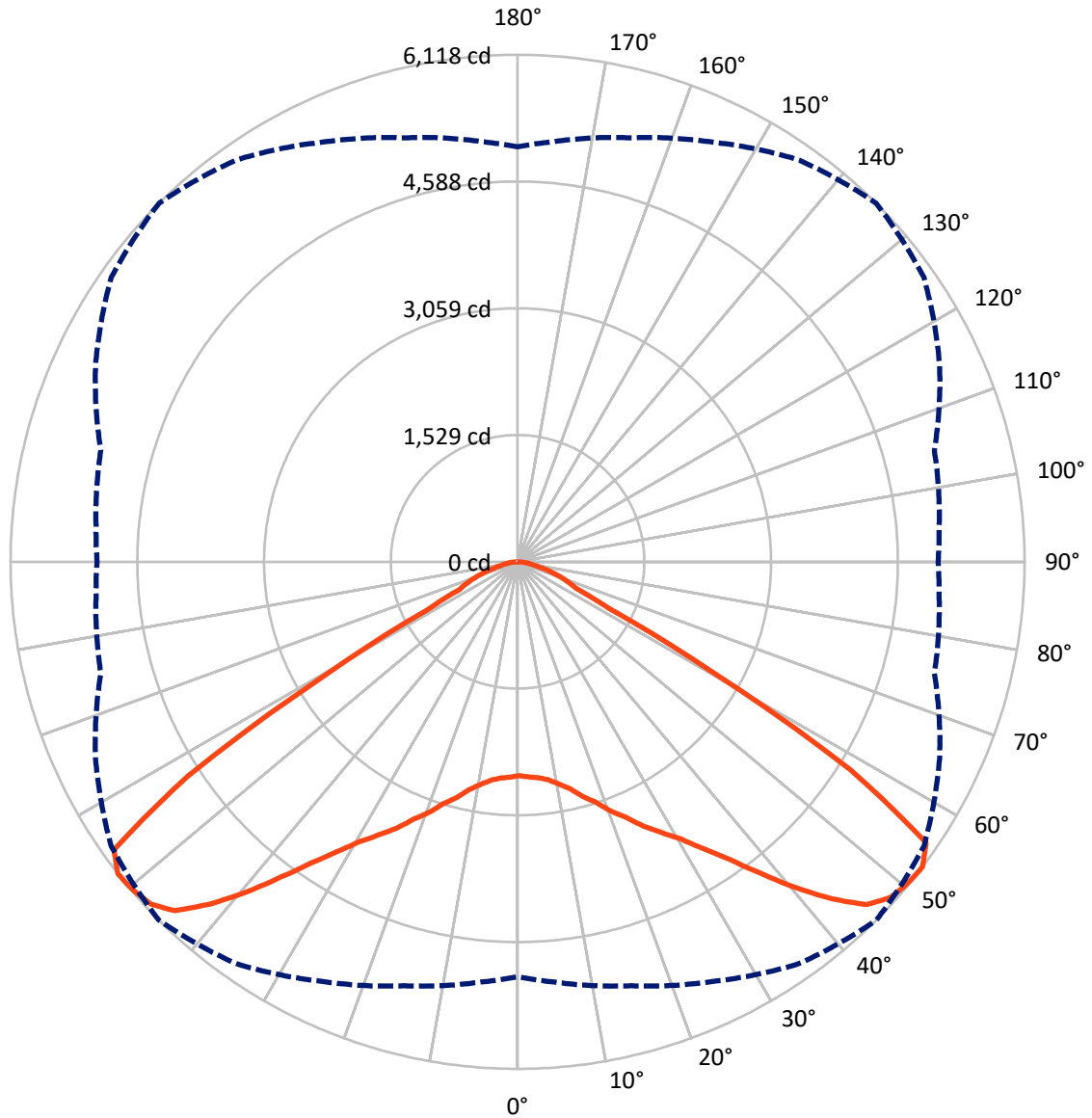
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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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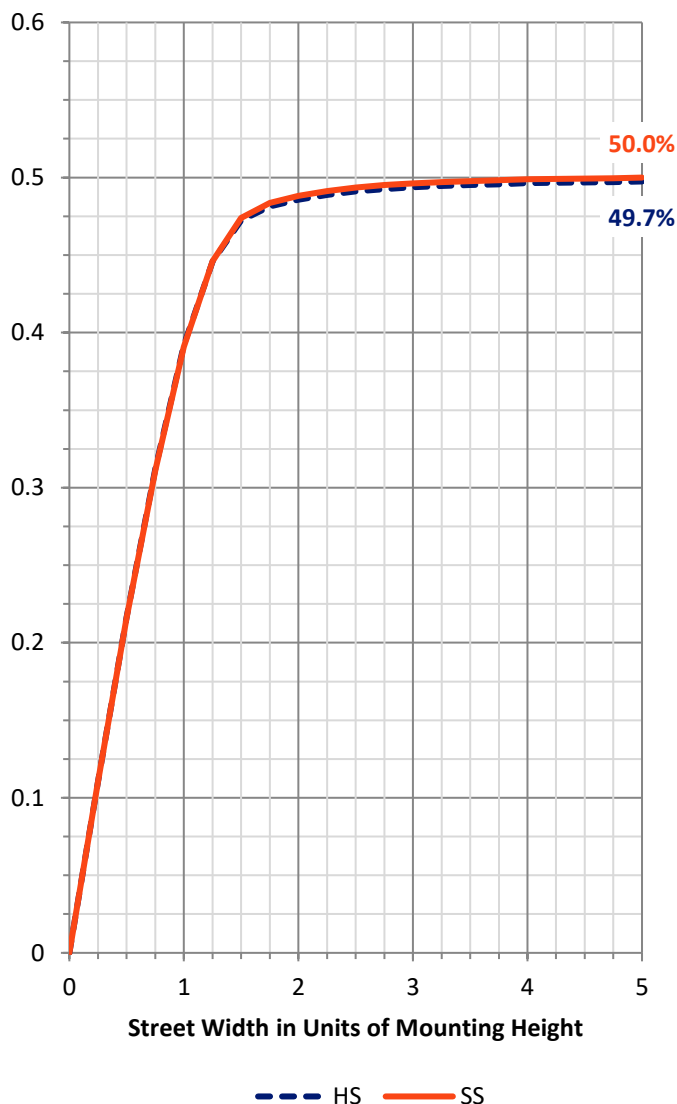
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7721.9	0.0	7721.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7721.9	0.0	7721.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	15443.9	0.0	15443.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.6	1.6
10°-20°	833.4	5.4
20°-30°	1586.8	10.3
30°-40°	2724.6	17.6
40°-50°	4187.7	27.1
50°-60°	4252.6	27.5
60°-70°	1185.1	7.7
70°-80°	349.6	2.3
80°-90°	70.4	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°	15443.9	100.0
0°-180°	15443.9	100.0

Coefficient of Utilization

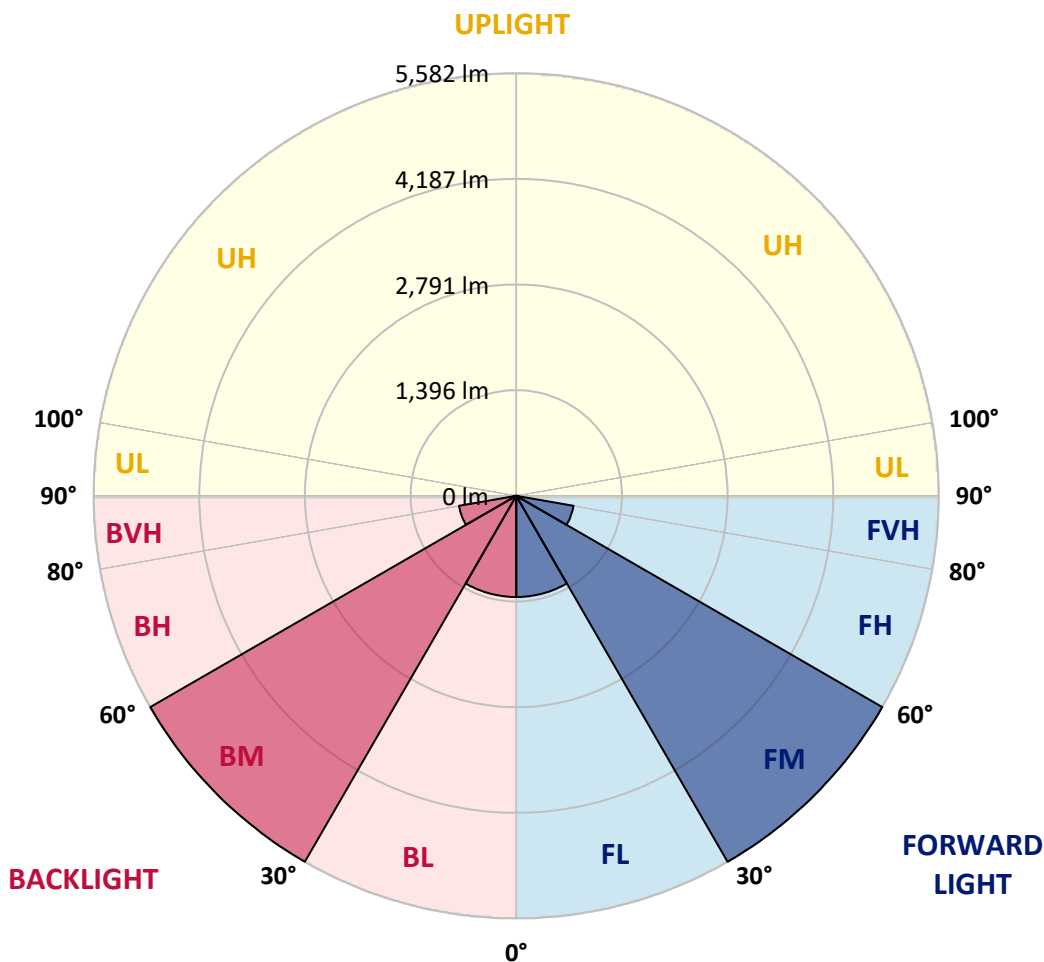


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1336.9	8.7			
FM (30°-60°)	5582.5	36.1			
FH (60°-80°)	767.4	5.0			G1/1800
FVH (80°-90°)	35.2	0.2			G1/100
BL (0°-30°)	1336.9	8.7	B3/2500		
BM (30°-60°)	5582.5	36.1	B4/8500		
BH (60°-80°)	767.4	5.0	B2/1000		G1/1800
BVH (80°-90°)	35.2	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°	2581.6	2581.6	2581.6	2581.6	2581.6	2581.6	2581.6	2581.6	2581.6	2581.6	2581.6
2.5°	2587.4	2560.6	2570.1	2575.9	2600.8	2598.9	2593.1	2600.8	2608.5	2610.4	2606.5
5°	2585.5	2566.3	2574.0	2579.8	2604.6	2618.0	2614.2	2646.9	2669.8	2664.1	2692.8
7.5°	2570.1	2581.6	2572.1	2600.8	2621.9	2654.4	2689.0	2719.7	2748.4	2781.0	2786.7
10°	2604.6	2604.6	2621.9	2644.9	2700.5	2725.4	2775.2	2819.3	2874.9	2913.2	2897.9
12.5°	2641.1	2646.9	2646.9	2706.2	2752.2	2807.8	2853.8	2913.2	2991.8	3037.8	3060.8
15°	2677.5	2681.3	2700.5	2781.0	2850.0	2938.1	2980.3	3034.0	3078.1	3164.3	3166.2
17.5°	2710.0	2731.2	2788.7	2878.7	2965.0	3049.3	3116.4	3171.9	3210.3	3244.8	3237.2
20°	2832.7	2848.1	2907.4	2997.6	3126.0	3208.3	3231.4	3241.0	3265.9	3334.9	3313.8
22.5°	2951.5	2957.3	3012.9	3150.9	3241.0	3350.2	3375.1	3369.4	3379.0	3396.2	3426.9
25°	3074.2	3083.8	3160.4	3277.4	3403.9	3534.2	3555.3	3511.2	3497.8	3516.9	3518.9
27.5°	3231.4	3233.3	3331.0	3432.6	3576.4	3699.0	3731.6	3697.1	3633.8	3649.2	3674.1
30°	3430.7	3417.2	3515.0	3660.7	3812.1	3881.1	3936.7	3919.5	3850.4	3837.0	3816.0
32.5°	3660.7	3664.5	3752.7	3911.8	4011.5	4126.4	4185.8	4157.1	4113.0	4090.0	4103.4
35°	3984.6	4001.8	4061.3	4193.5	4354.5	4412.0	4505.9	4444.5	4329.6	4358.3	4383.2
37.5°	4251.0	4300.9	4412.0	4569.1	4665.0	4770.4	4804.9	4722.5	4638.2	4603.6	4686.1
40°	4659.2	4643.9	4766.6	4923.7	5065.5	5170.9	5126.8	5044.5	4835.6	4837.5	4860.5
42.5°	5009.9	5017.6	5111.6	5299.3	5493.0	5558.1	5418.2	5217.0	4985.0	4960.1	5009.9
45°	5305.1	5335.8	5389.5	5640.5	5830.3	5901.2	5642.5	5404.8	5094.3	4990.8	5073.2
47.5°	5410.5	5460.4	5577.3	5807.3	5995.1	6052.6	5845.6	5504.5	5195.9	5027.3	5071.3
50°	5425.9	5408.7	5600.3	5811.1	5975.9	6100.5	5918.5	5577.3	5170.9	5082.8	5069.4
52.5°	5006.1	5090.4	5295.5	5585.0	5918.5	6117.7	5983.6	5617.6	5205.5	5105.8	5073.2
55°	4051.7	3952.0	4325.8	4812.6	5425.9	5979.8	5960.6	5638.6	5226.5	5144.2	5100.1
57.5°	2261.6	2290.4	2501.1	3030.1	3821.7	4741.6	5299.3	5416.3	5217.0	5169.1	5192.1
60°	1046.5	1056.0	1146.2	1393.3	1884.0	2689.0	3423.0	4168.6	4511.6	4580.6	4580.6
62.5°	780.0	776.2	799.2	843.3	946.8	1236.2	1650.2	2242.4	2713.9	3043.5	3129.8
65°	705.3	703.4	714.9	730.2	737.9	778.1	870.1	1052.2	1205.5	1293.7	1278.4
67.5°	617.2	615.2	619.0	628.7	642.1	663.1	686.1	724.5	778.1	774.3	764.8
70°	498.3	498.3	504.1	511.8	527.0	552.0	578.8	605.7	651.6	661.2	659.3
72.5°	368.0	362.2	373.7	389.1	404.4	435.0	463.8	488.7	521.3	530.9	527.0
75°	233.8	237.6	245.3	262.5	289.4	310.5	341.2	362.2	383.4	391.0	392.9
77.5°	130.3	134.1	147.6	168.7	195.5	218.5	245.3	262.5	276.0	277.9	279.8
80°	78.6	80.5	93.9	113.1	136.1	161.0	182.0	199.4	210.9	205.1	203.2
82.5°	47.9	49.8	61.3	78.6	97.7	116.9	139.9	155.3	166.8	159.1	151.4
85°	24.9	26.9	36.4	47.9	63.3	72.8	72.8	65.1	63.3	59.4	57.5
87.5°	7.7	7.7	9.6	11.5	9.6	11.5	13.4	15.3	15.3	17.2	15.3
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)