

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: P646868

Luminaire Tested: **GALN-SA4C-835-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P646868
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-3)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-835-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13069 lumens
Efficiency: N/A
Efficacy: 61.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G0

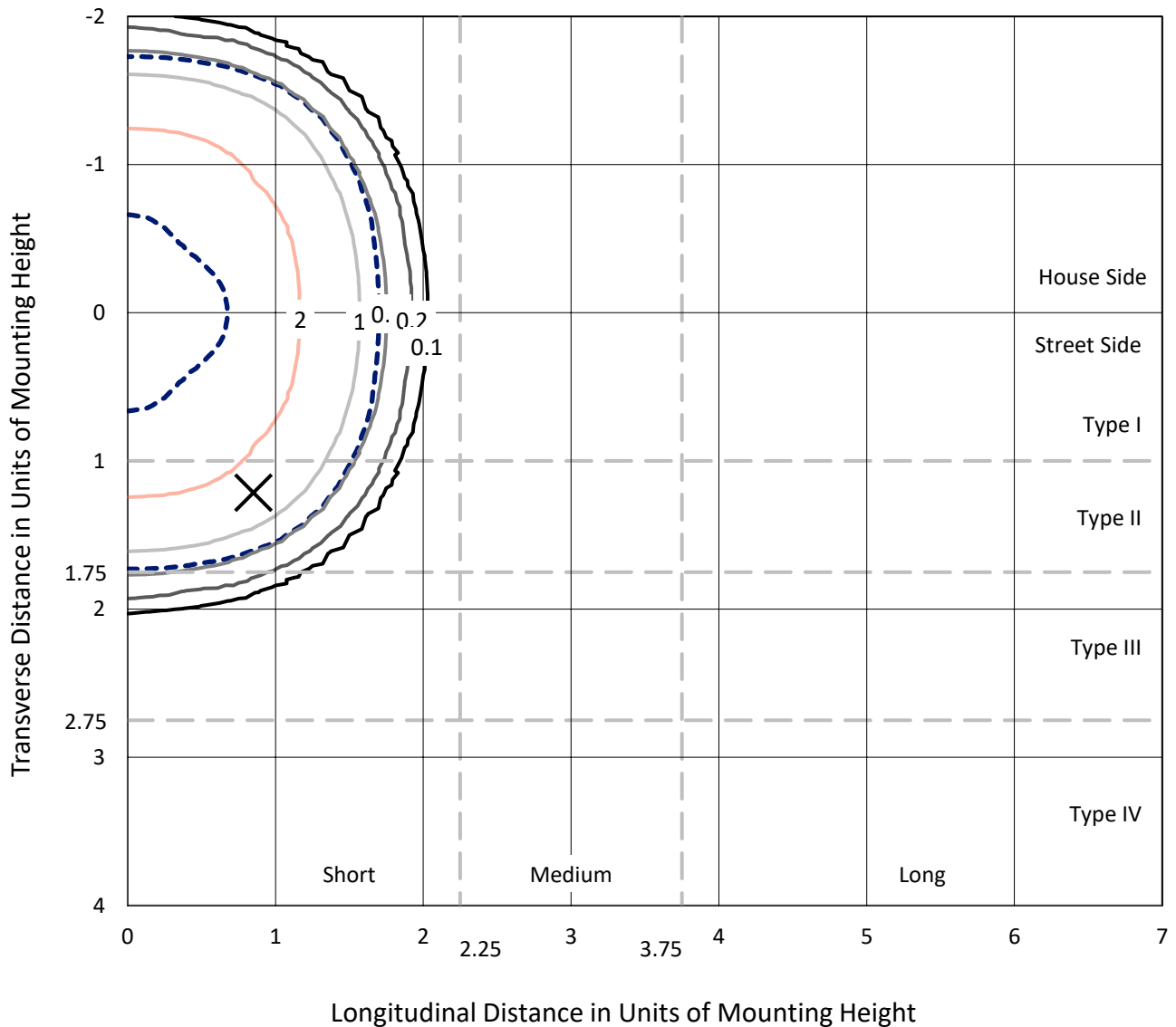
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

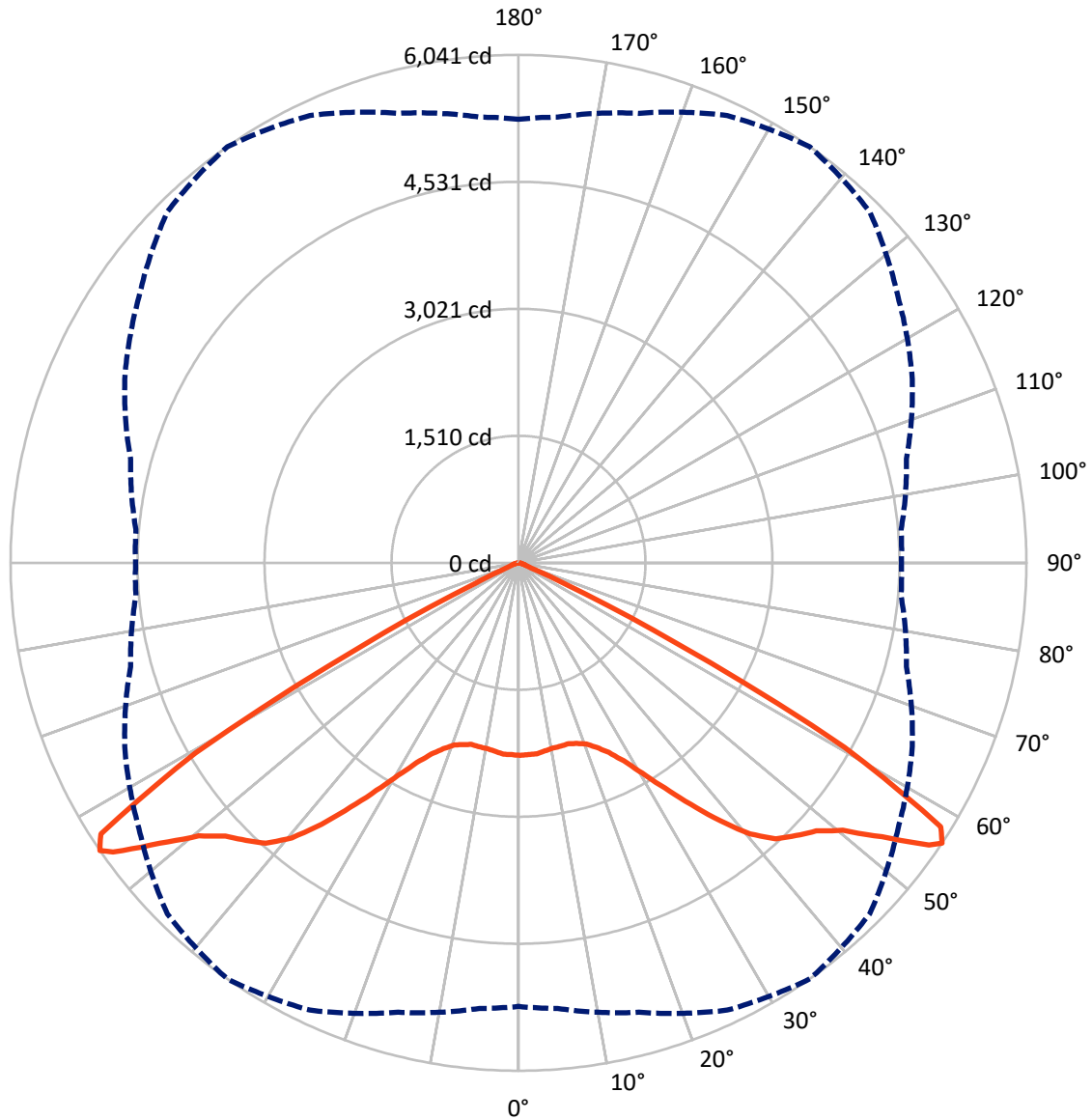
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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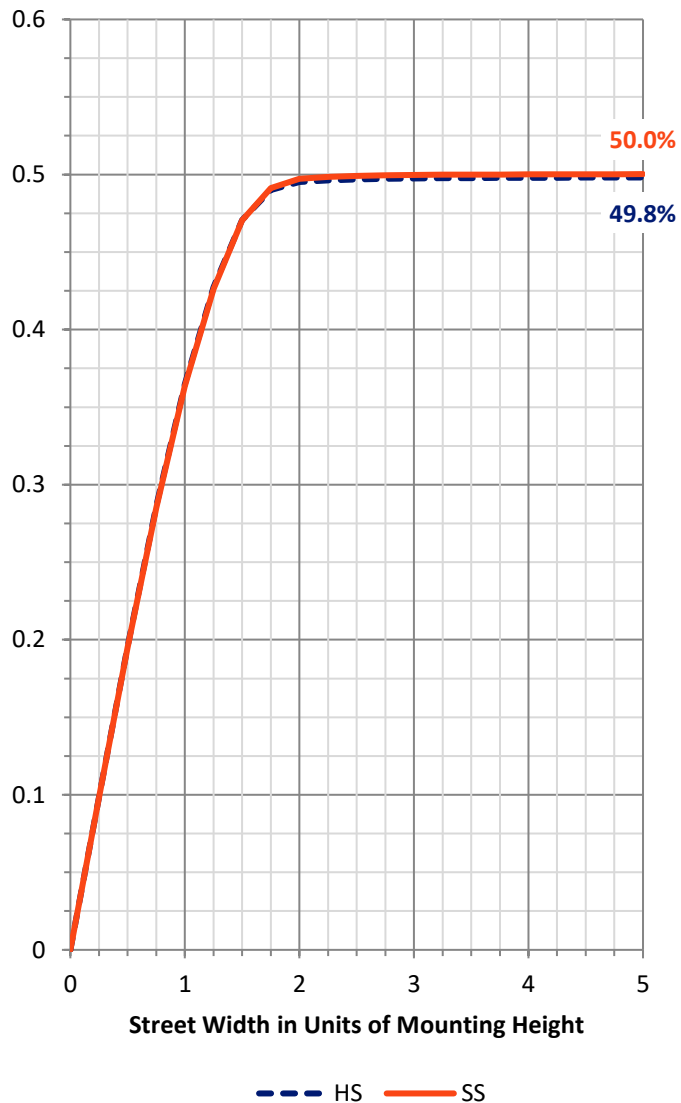
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6534.5	0.0	6534.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6534.5	0.0	6534.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	13069.0	0.0	13069.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.2	1.6
10°-20°	628.3	4.8
20°-30°	1137.9	8.7
30°-40°	2110.0	16.1
40°-50°	3463.4	26.5
50°-60°	4461.9	34.1
60°-70°	983.3	7.5
70°-80°	57.0	0.4
80°-90°	12.0	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°	13069.0	100.0
0°-180°	13069.0	100.0

Coefficient of Utilization



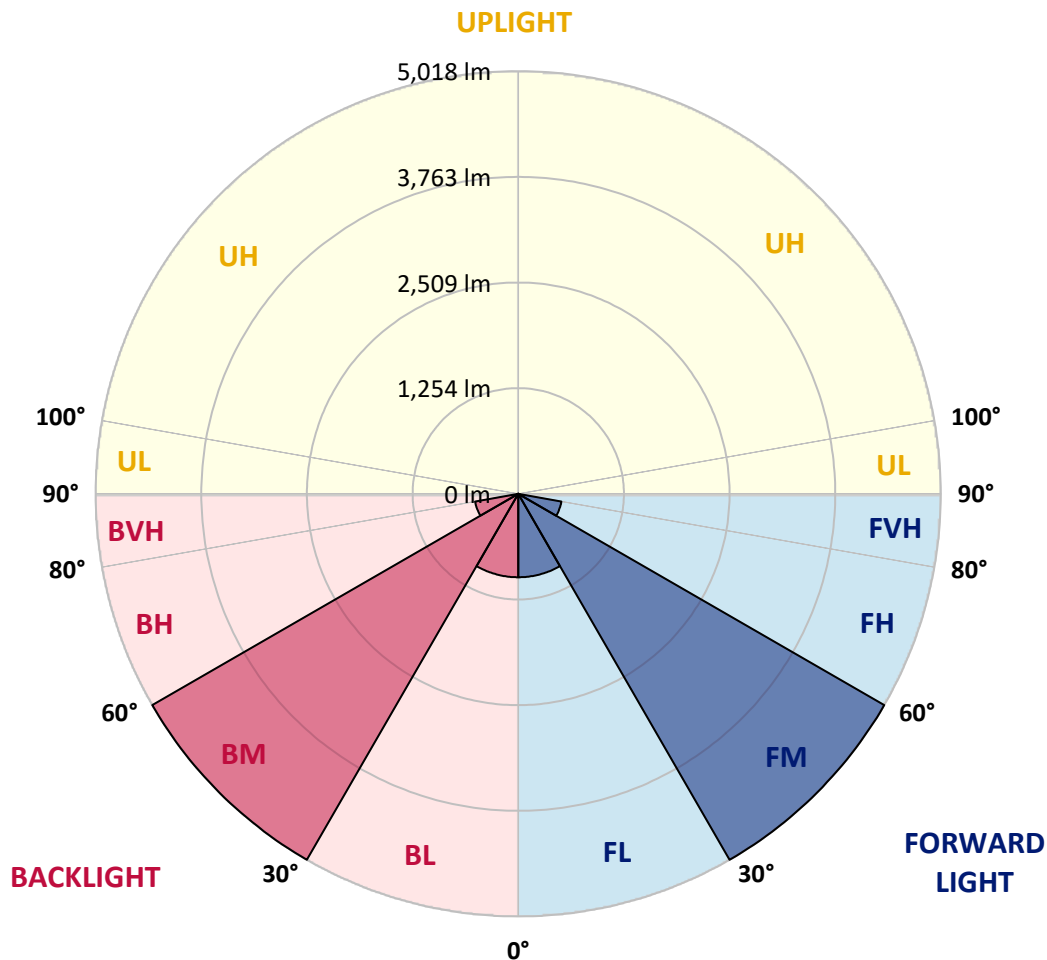
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	990.7	7.6			
FM (30°-60°)	5017.6	38.4			
FH (60°-80°)	520.2	4.0			G0/660
FVH (80°-90°)	6.0	0.0			G0/10
BL (0°-30°)	990.7	7.6	B2/1000		
BM (30°-60°)	5017.6	38.4	B4/8500		
BH (60°-80°)	520.2	4.0	B2/1000		G0/660
BVH (80°-90°)	6.0	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°	2290.0	2290.0	2290.0	2290.0	2290.0	2290.0	2290.0	2290.0	2290.0	2290.0	2290.0
2.5°	2294.7	2294.7	2297.1	2299.4	2282.8	2275.8	2278.1	2273.4	2271.0	2278.1	2278.1
5°	2287.6	2287.6	2280.5	2282.8	2282.8	2261.5	2261.5	2266.3	2266.3	2252.1	2247.4
7.5°	2268.7	2264.0	2254.5	2266.3	2259.2	2259.2	2242.6	2230.8	2226.1	2235.5	2226.1
10°	2228.4	2230.8	2240.2	2245.0	2240.2	2254.5	2226.1	2209.5	2192.9	2185.7	2185.7
12.5°	2209.5	2223.6	2209.5	2221.3	2237.9	2226.1	2209.5	2197.6	2173.9	2164.4	2164.4
15°	2207.1	2216.6	2221.3	2237.9	2230.8	2235.5	2202.3	2188.2	2152.6	2136.0	2129.0
17.5°	2204.7	2216.6	2223.6	2254.5	2259.2	2261.5	2235.5	2192.9	2162.1	2145.5	2129.0
20°	2230.8	2235.5	2249.7	2280.5	2299.4	2332.6	2285.3	2240.2	2173.9	2155.0	2147.9
22.5°	2264.0	2287.6	2301.8	2335.0	2384.7	2413.1	2351.6	2294.7	2226.1	2202.3	2173.9
25°	2370.5	2365.8	2389.4	2458.2	2498.4	2519.7	2470.0	2387.1	2297.1	2268.7	2273.4
27.5°	2503.1	2507.9	2529.2	2605.0	2664.2	2697.3	2638.1	2529.2	2441.6	2394.2	2389.4
30°	2676.0	2671.3	2694.9	2796.7	2903.3	2953.1	2848.9	2721.0	2635.7	2574.2	2588.4
32.5°	2858.3	2860.7	2927.0	3019.3	3192.2	3289.3	3121.2	2964.9	2837.0	2794.4	2773.1
35°	3128.3	3140.1	3192.2	3334.3	3526.2	3651.7	3467.0	3279.8	3133.0	3054.9	3064.3
37.5°	3462.2	3450.4	3538.0	3691.9	3893.2	3985.5	3829.3	3616.1	3467.0	3414.8	3448.0
40°	3817.4	3829.3	3874.3	4014.0	4238.9	4300.5	4068.5	3952.4	3822.1	3796.1	3836.4
42.5°	4172.6	4165.6	4198.7	4324.2	4487.6	4445.0	4307.6	4238.9	4146.6	4094.5	4149.0
45°	4433.1	4421.3	4482.8	4568.1	4627.3	4546.8	4485.3	4461.5	4414.2	4357.3	4407.1
47.5°	4686.5	4677.0	4736.3	4759.9	4764.6	4658.1	4670.0	4712.6	4594.2	4475.8	4532.6
50°	4902.0	4885.5	4958.9	5011.0	4999.1	4828.6	4871.2	4828.6	4643.9	4504.2	4482.8
52.5°	5262.0	5269.1	5347.3	5441.9	5413.5	5271.5	5209.8	5015.7	4778.9	4653.4	4579.9
55°	5489.3	5453.8	5588.8	5889.6	5922.7	5775.9	5503.6	5217.0	4861.8	4707.9	4688.9
56°	5276.2	5321.2	5534.3	5870.6	6041.1	5906.1	5510.6	5167.3	4776.5	4568.1	4553.9
57.5°	4733.9	4710.2	4999.1	5458.5	5922.7	5865.8	5316.4	4812.0	4357.3	4122.9	4094.5
60°	2946.0	3014.6	3268.0	3836.4	4456.8	4485.3	3940.5	3507.2	2976.7	2768.4	2818.1
62.5°	1153.3	1094.1	1252.7	1676.6	2102.9	2197.6	1991.6	1655.3	1359.3	1153.3	1139.1
65°	267.6	260.5	293.6	405.0	566.0	656.0	622.8	447.6	329.2	312.6	288.9
67.5°	151.6	151.6	144.5	144.5	158.6	168.1	161.1	158.6	165.8	172.9	170.5
70°	106.6	104.2	99.4	101.9	97.1	97.1	104.2	116.0	125.5	125.5	127.9
72.5°	64.0	64.0	64.0	71.0	71.0	71.0	78.1	87.6	90.0	87.6	85.3
75°	28.4	28.4	33.1	40.2	45.0	47.4	54.5	59.2	64.0	59.2	54.5
77.5°	7.1	7.1	11.8	16.6	21.3	26.1	35.5	42.6	45.0	42.6	35.5
80°	2.3	2.3	4.7	11.8	21.3	26.1	35.5	37.9	40.2	35.5	28.4
82.5°	2.3	2.3	4.7	11.8	16.6	21.3	28.4	33.1	35.5	30.8	28.4
85°	0.0	2.3	4.7	9.5	14.2	18.9	18.9	14.2	11.8	7.1	9.5
87.5°	0.0	0.0	2.3	2.3	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)