

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: P648023

Luminaire Tested: **GALN-SA7A-835-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648023
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-SA7A-835-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 615mA 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: 14967.8 lumens
Efficiency: N/A
Efficacy: 69.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G0

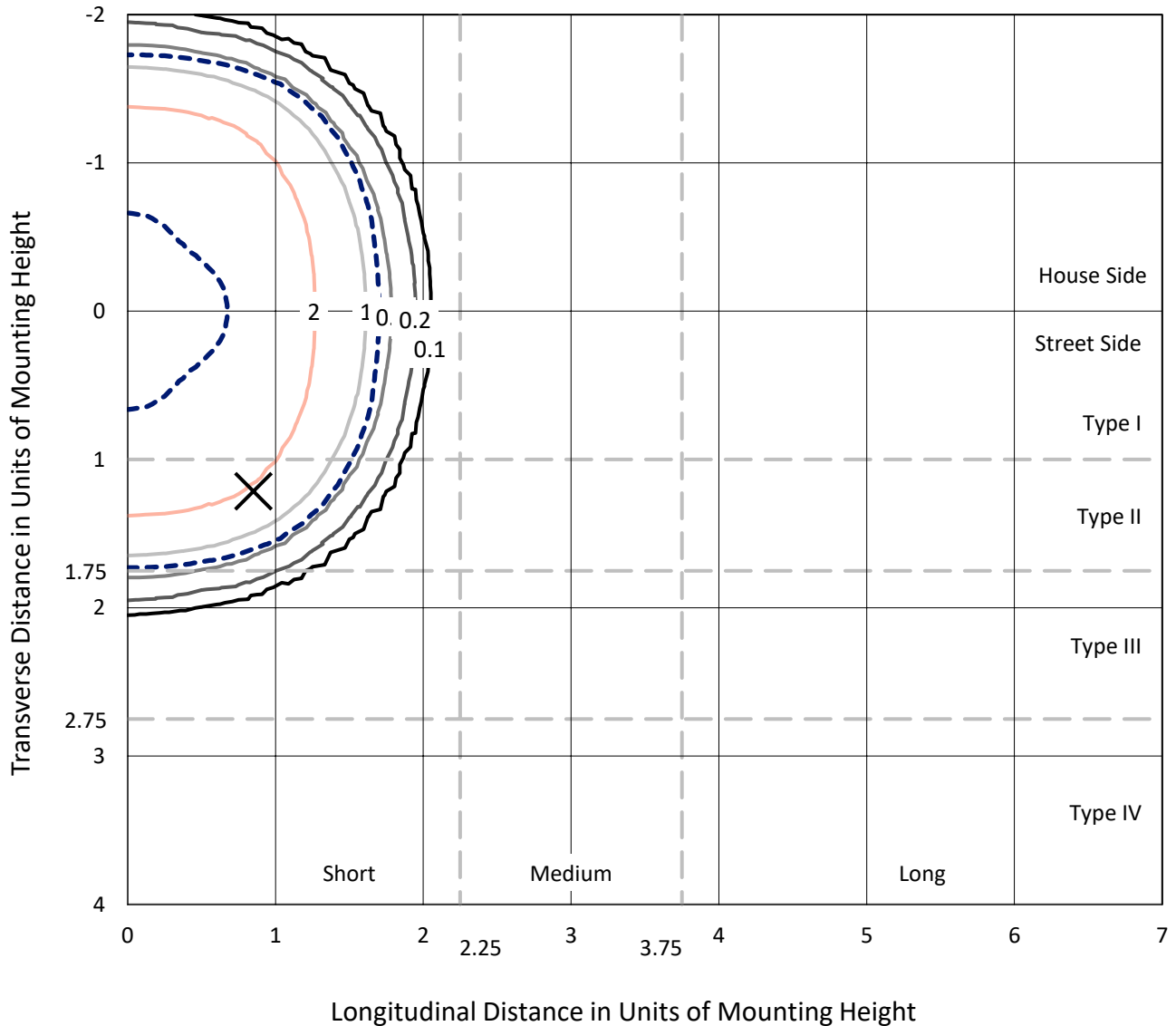
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

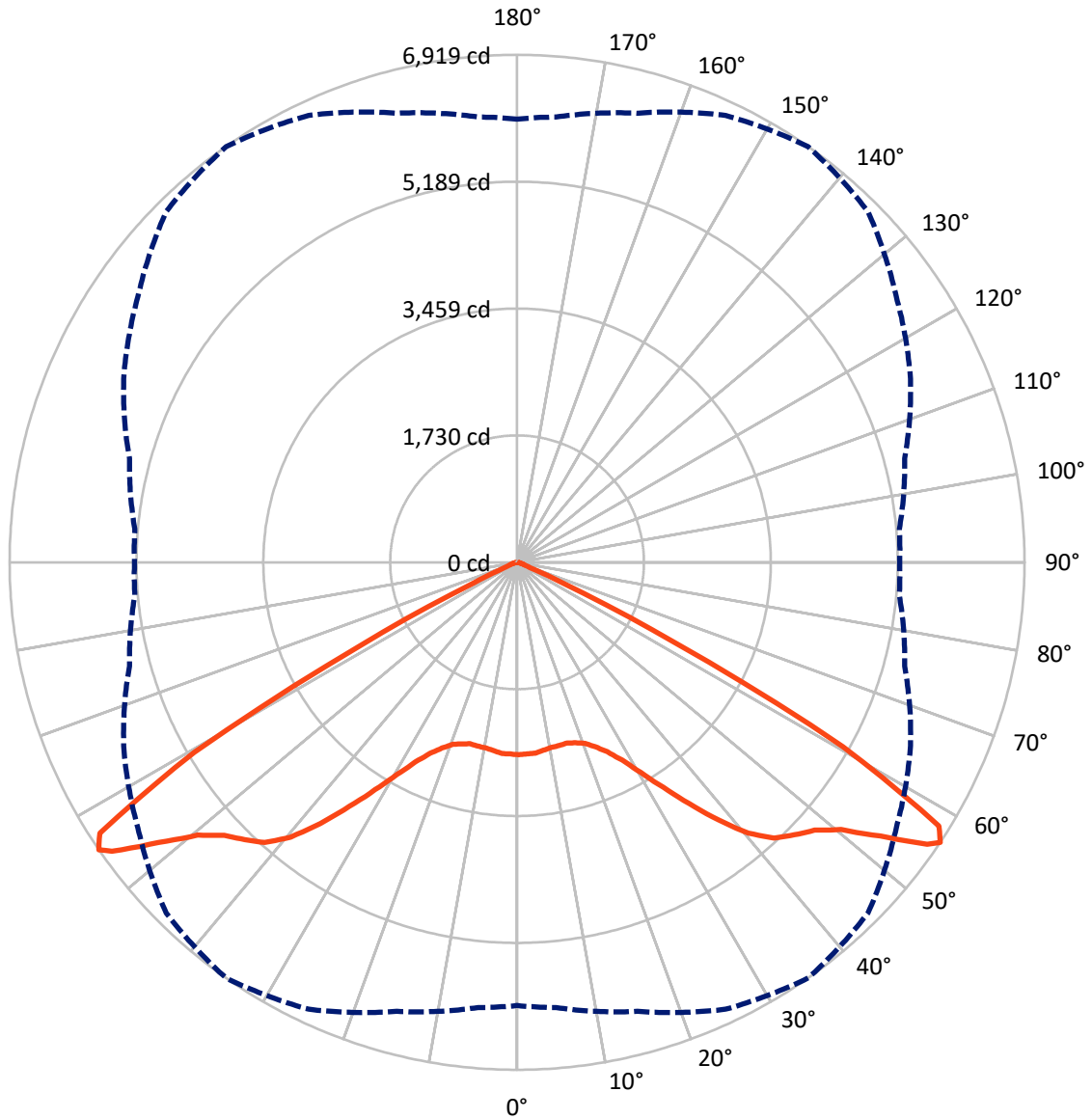
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 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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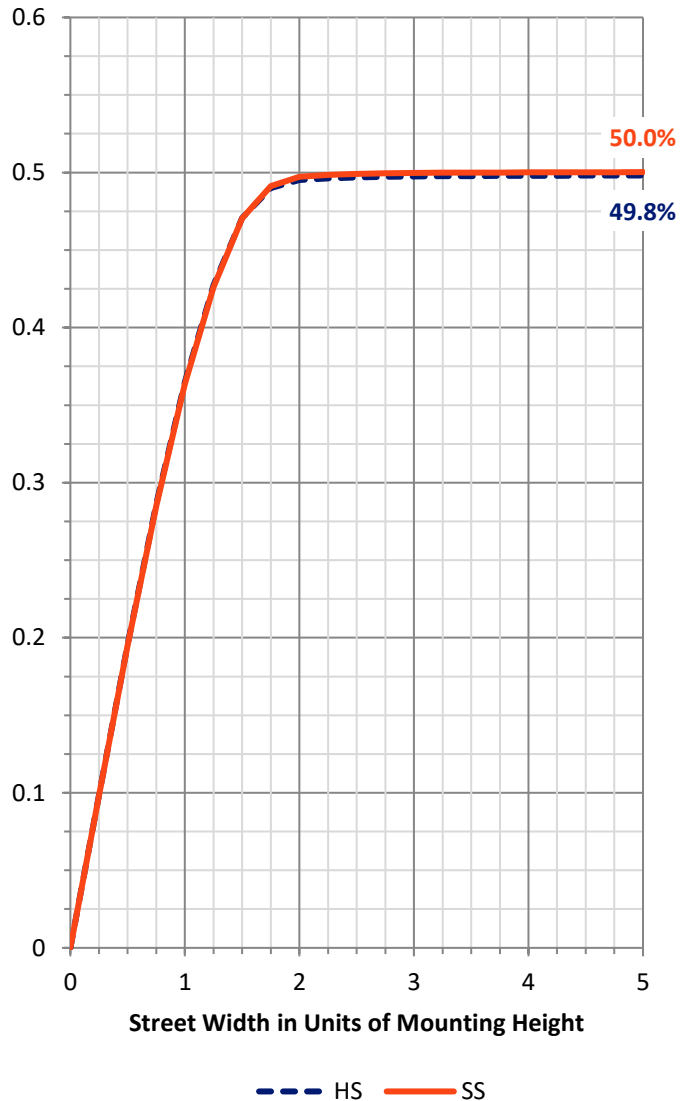
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7483.9	0.0	7483.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7483.9	0.0	7483.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	14967.8	0.0	14967.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.5	1.6
10°-20°	719.6	4.8
20°-30°	1303.2	8.7
30°-40°	2416.5	16.1
40°-50°	3966.6	26.5
50°-60°	5110.1	34.1
60°-70°	1126.2	7.5
70°-80°	65.3	0.4
80°-90°	13.7	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°	14967.8	100.0
0°-180°	14967.8	100.0

Coefficient of Utilization



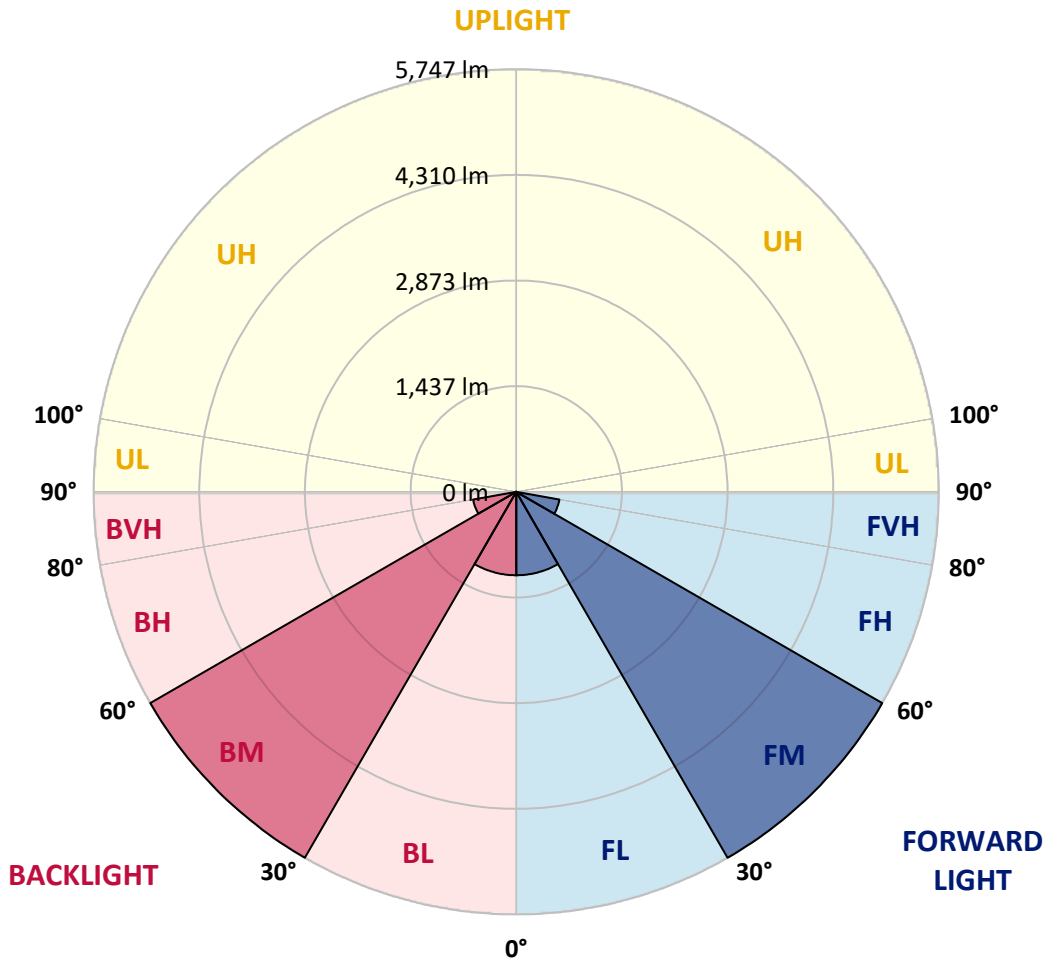
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1134.6	7.6			
FM (30°-60°)	5746.6	38.4			
FH (60°-80°)	595.8	4.0			G0/660
FVH (80°-90°)	6.9	0.0			G0/10
BL (0°-30°)	1134.6	7.6	B3/2500		
BM (30°-60°)	5746.6	38.4	B4/8500		
BH (60°-80°)	595.8	4.0	B2/1000		G0/660
BVH (80°-90°)	6.9	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°	2622.7	2622.7	2622.7	2622.7	2622.7	2622.7	2622.7	2622.7	2622.7	2622.7	2622.7
2.5°	2628.1	2628.1	2630.8	2633.5	2614.5	2606.5	2609.1	2603.7	2601.0	2609.1	2609.1
5°	2620.0	2620.0	2611.9	2614.5	2614.5	2590.2	2590.2	2595.6	2595.6	2579.3	2573.9
7.5°	2598.3	2592.8	2582.0	2595.6	2587.4	2587.4	2568.5	2554.9	2549.4	2560.3	2549.4
10°	2552.2	2554.9	2565.7	2571.1	2565.7	2582.0	2549.4	2530.5	2511.5	2503.3	2503.3
12.5°	2530.5	2546.7	2530.5	2544.0	2563.0	2549.4	2530.5	2516.9	2489.8	2479.0	2479.0
15°	2527.8	2538.6	2544.0	2563.0	2554.9	2560.3	2522.4	2506.1	2465.4	2446.4	2438.3
17.5°	2525.0	2538.6	2546.7	2582.0	2587.4	2590.2	2560.3	2511.5	2476.2	2457.2	2438.3
20°	2554.9	2560.3	2576.5	2611.9	2633.5	2671.5	2617.3	2565.7	2489.8	2468.1	2460.0
22.5°	2592.8	2620.0	2636.3	2674.2	2731.2	2763.8	2693.2	2628.1	2549.4	2522.4	2489.8
25°	2714.9	2709.5	2736.6	2815.3	2861.4	2885.7	2828.8	2733.9	2630.8	2598.3	2603.7
27.5°	2866.8	2872.2	2896.6	2983.4	3051.2	3089.2	3021.4	2896.6	2796.2	2742.0	2736.6
30°	3064.7	3059.3	3086.5	3203.1	3325.2	3382.1	3262.8	3116.3	3018.7	2948.2	2964.4
32.5°	3273.6	3276.3	3352.3	3458.0	3656.1	3767.2	3574.6	3395.6	3249.2	3200.4	3176.0
35°	3582.8	3596.4	3656.1	3818.8	4038.5	4182.2	3970.7	3756.4	3588.3	3498.8	3509.6
37.5°	3965.2	3951.6	4052.0	4228.3	4458.9	4564.6	4385.6	4141.5	3970.7	3911.0	3949.0
40°	4372.0	4385.6	4437.1	4597.1	4854.8	4925.3	4659.6	4526.7	4377.4	4347.6	4393.7
42.5°	4778.9	4770.7	4808.7	4952.5	5139.6	5090.8	4933.4	4854.8	4749.1	4689.4	4751.7
45°	5077.2	5063.7	5134.2	5231.8	5299.6	5207.4	5136.9	5109.8	5055.5	4990.5	5047.4
47.5°	5367.4	5356.6	5424.4	5451.5	5456.9	5334.9	5348.4	5397.2	5261.7	5126.1	5191.1
50°	5614.3	5595.2	5679.3	5739.0	5725.5	5530.2	5579.0	5530.2	5318.6	5158.6	5134.2
52.5°	6026.5	6034.6	6124.2	6232.6	6200.0	6037.3	5966.9	5744.4	5473.2	5329.4	5245.4
55°	6286.9	6246.1	6400.8	6745.2	6783.2	6615.0	6303.2	5974.9	5568.1	5391.8	5370.1
56°	6042.7	6094.3	6338.4	6723.5	6918.8	6764.2	6311.3	5918.0	5470.5	5231.8	5215.6
57.5°	5421.6	5394.6	5725.5	6251.6	6783.2	6718.1	6088.8	5511.1	4990.5	4721.9	4689.4
60°	3373.9	3452.6	3742.8	4393.7	5104.3	5136.9	4513.1	4016.7	3409.2	3170.5	3227.5
62.5°	1320.8	1253.0	1434.8	1920.2	2408.4	2516.9	2281.0	1895.8	1556.8	1320.8	1304.6
65°	306.5	298.3	336.3	463.8	648.2	751.3	713.3	512.6	377.0	358.0	330.9
67.5°	173.6	173.6	165.4	165.4	181.7	192.5	184.4	181.7	189.9	198.0	195.3
70°	122.1	119.3	113.9	116.6	111.2	111.2	119.3	132.9	143.8	143.8	146.4
72.5°	73.2	73.2	73.2	81.4	81.4	81.4	89.5	100.4	103.0	100.4	97.6
75°	32.6	32.6	38.0	46.1	51.5	54.3	62.4	67.8	73.2	67.8	62.4
77.5°	8.1	8.1	13.5	18.9	24.4	29.8	40.7	48.8	51.5	48.8	40.7
80°	2.7	2.7	5.4	13.5	24.4	29.8	40.7	43.4	46.1	40.7	32.6
82.5°	2.7	2.7	5.4	13.5	18.9	24.4	32.6	38.0	40.7	35.2	32.6
85°	0.0	2.7	5.4	10.9	16.3	21.7	21.7	16.3	13.5	8.1	10.9
87.5°	0.0	0.0	2.7	2.7	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)