

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: P650830

Luminaire Tested: **GALN-SA4C-840-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650830
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-840-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24531.1 lumens
Efficiency: N/A
Efficacy: 115.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

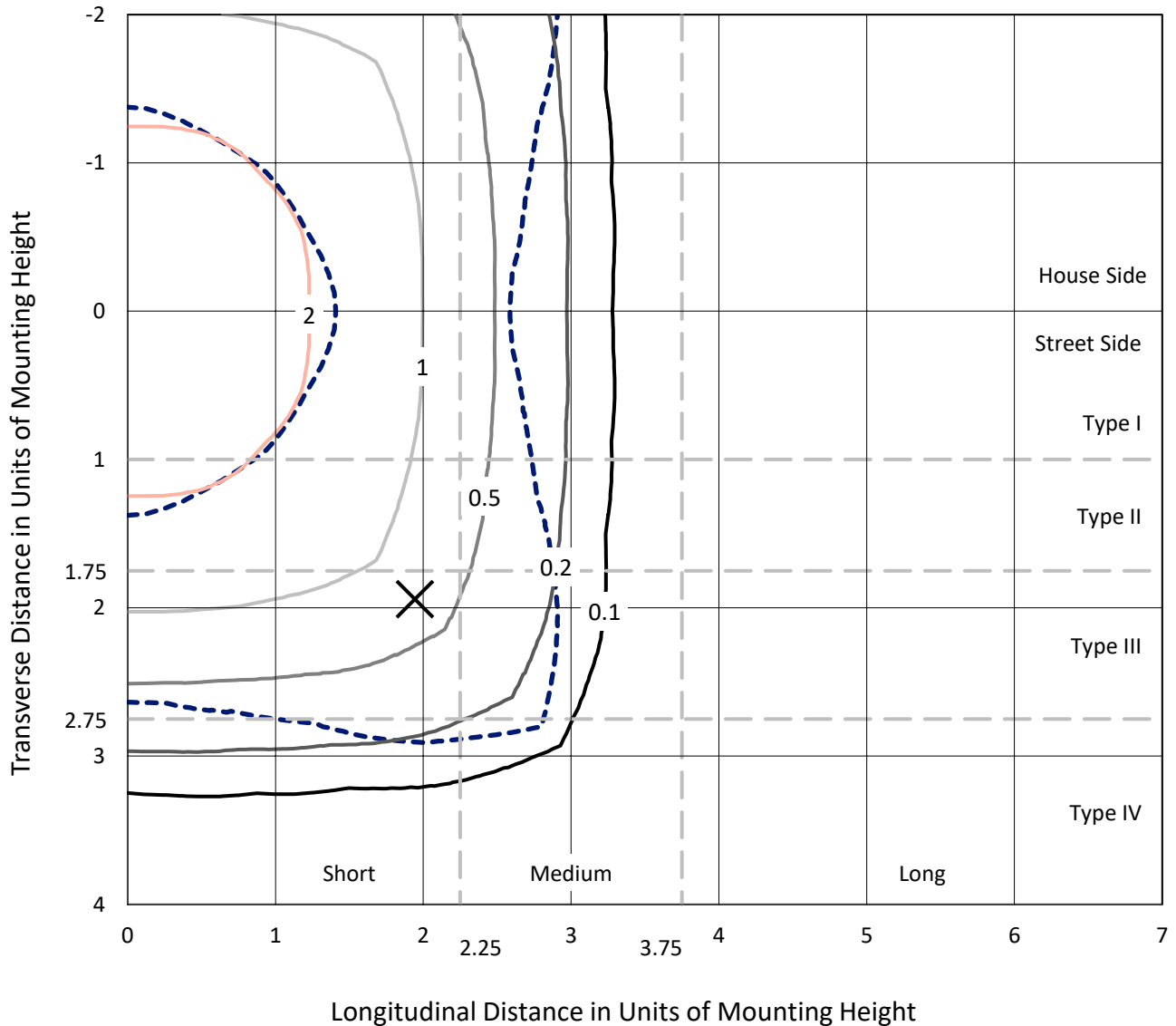
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

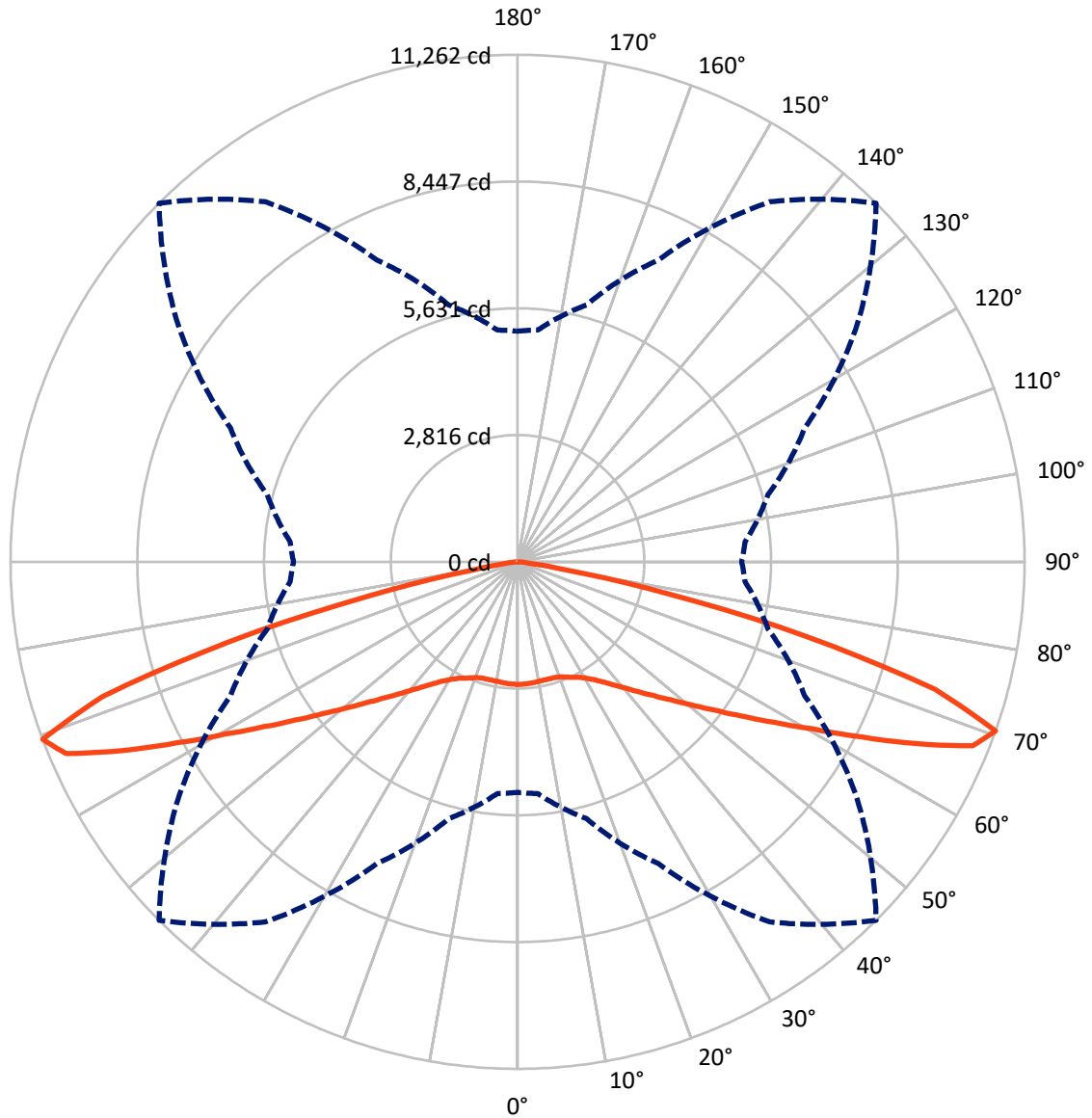
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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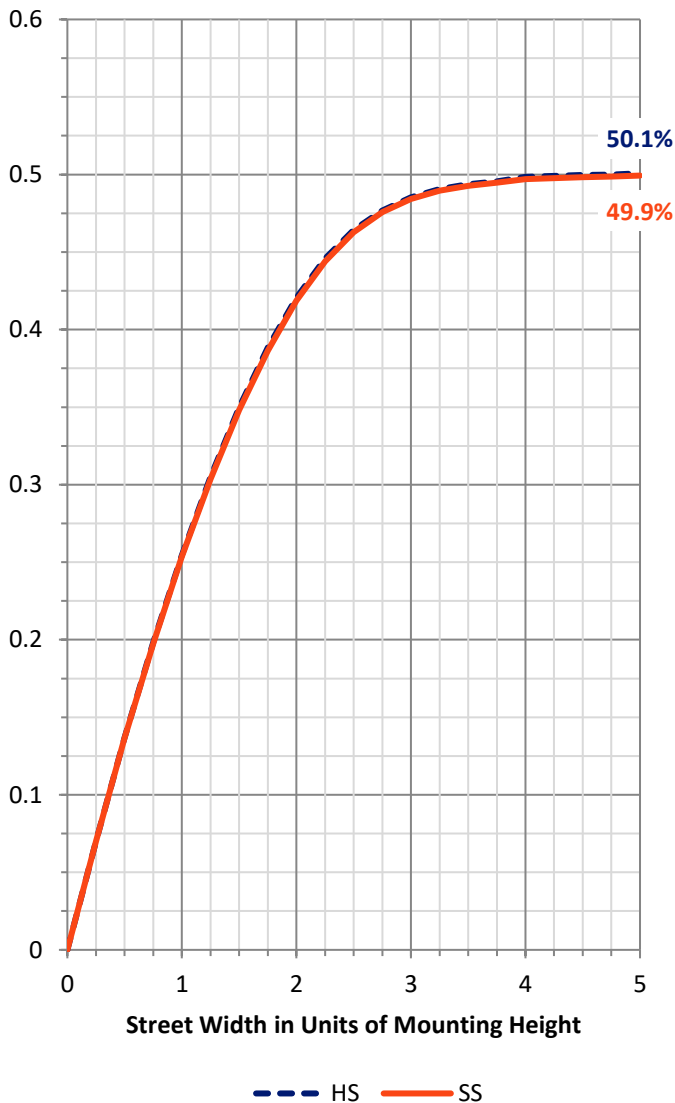
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12265.6	0.0	12265.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12265.6	0.0	12265.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	24531.1	0.0	24531.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.3	1.1
10°-20°	758.0	3.1
20°-30°	1296.4	5.3
30°-40°	2057.7	8.4
40°-50°	3319.7	13.5
50°-60°	5401.2	22.0
60°-70°	7829.8	31.9
70°-80°	3473.0	14.2
80°-90°	137.0	0.6
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°	24531.1	100.0
0°-180°	24531.1	100.0



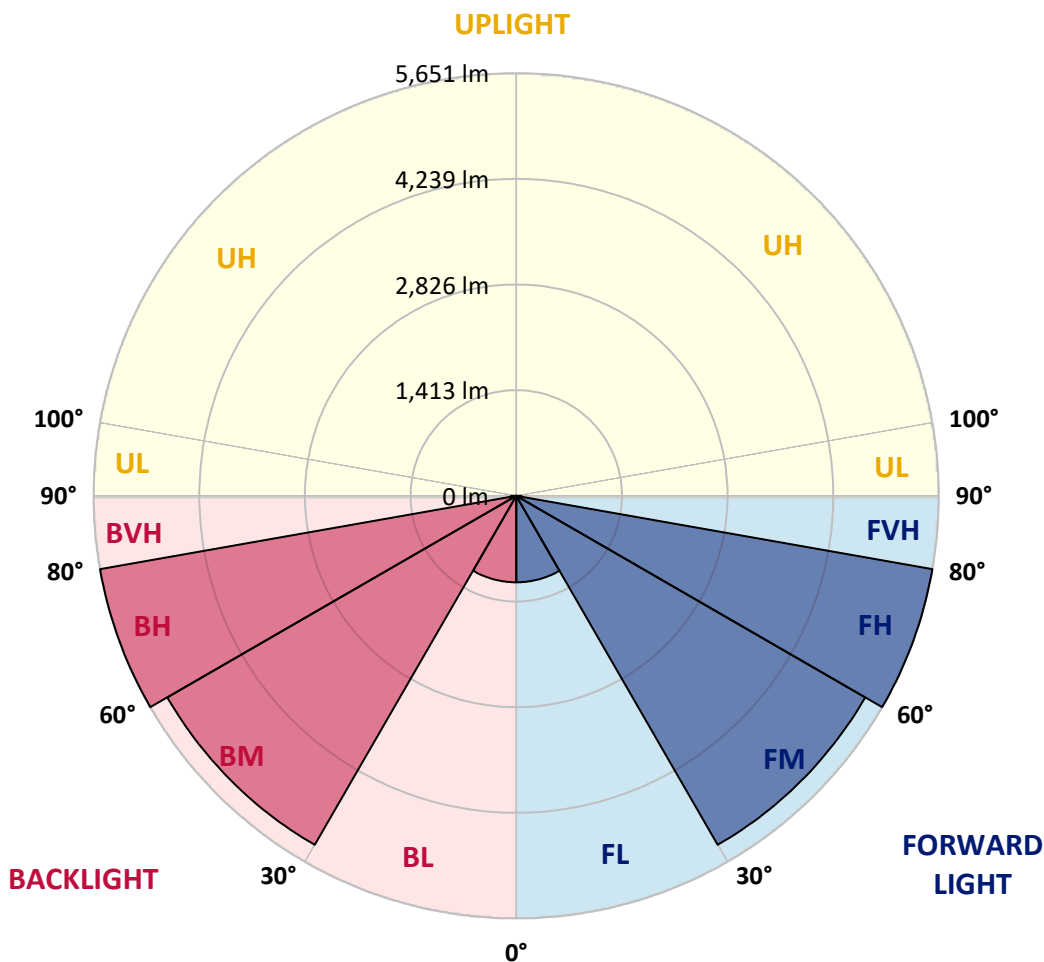
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1156.4	4.7			
FM (30°-60°)	5389.3	22.0			
FH (60°-80°)	5651.4	23.0			G3/7500
FVH (80°-90°)	68.5	0.3			G1/100
BL (0°-30°)	1156.4	4.7	B3/2500		
BM (30°-60°)	5389.3	22.0	B4/8500		
BH (60°-80°)	5651.4	23.0	B5		G3/7500
BVH (80°-90°)	68.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2724.1	2724.1	2724.1	2724.1	2724.1	2724.1	2724.1	2724.1	2724.1	2724.1	2724.1
2.5°	2724.1	2726.7	2722.7	2720.2	2718.9	2718.9	2717.6	2718.9	2726.7	2728.0	2724.1
5°	2716.3	2718.9	2717.6	2715.0	2713.7	2713.7	2712.4	2711.1	2717.6	2720.2	2718.9
7.5°	2706.0	2707.3	2706.0	2704.7	2706.0	2704.7	2700.8	2698.2	2703.4	2703.4	2702.0
10°	2687.8	2690.4	2689.2	2690.4	2693.1	2693.1	2687.8	2682.7	2684.0	2681.4	2681.4
12.5°	2665.9	2669.8	2671.1	2676.2	2682.7	2690.4	2678.8	2667.1	2664.6	2663.3	2662.0
15°	2651.7	2655.5	2660.8	2665.9	2677.5	2694.3	2677.5	2659.4	2654.3	2649.1	2646.5
17.5°	2647.8	2652.9	2660.8	2668.5	2684.0	2700.8	2686.6	2668.5	2655.5	2647.8	2645.2
20°	2658.1	2662.0	2673.6	2687.8	2709.9	2726.7	2712.4	2693.1	2673.6	2662.0	2658.1
22.5°	2678.8	2685.3	2699.5	2725.3	2756.4	2780.9	2761.6	2729.2	2698.2	2682.7	2677.5
25°	2724.1	2729.2	2746.0	2780.9	2817.2	2840.4	2819.7	2782.3	2739.6	2718.9	2712.4
27.5°	2792.6	2800.4	2818.4	2859.8	2889.6	2902.5	2888.2	2862.4	2831.4	2809.4	2804.2
30°	2889.6	2898.6	2925.8	2969.7	2989.1	2996.8	2990.4	2973.6	2951.6	2928.4	2923.1
32.5°	3020.1	3025.3	3056.4	3097.7	3115.8	3118.4	3110.6	3102.9	3066.7	3027.9	3025.3
35°	3166.2	3175.3	3212.8	3261.9	3278.7	3280.0	3264.5	3252.8	3210.2	3179.1	3179.1
37.5°	3360.1	3364.0	3400.2	3455.8	3473.9	3468.8	3461.0	3450.6	3405.4	3365.3	3366.6
40°	3587.7	3595.4	3626.5	3691.1	3691.1	3684.7	3689.8	3682.1	3636.8	3598.1	3599.3
42.5°	3857.9	3861.8	3899.3	3967.8	3962.6	3949.7	3954.9	3944.5	3916.1	3872.1	3856.7
45°	4146.2	4161.8	4226.4	4292.3	4282.0	4240.6	4261.3	4258.7	4232.8	4166.9	4170.8
47.5°	4494.0	4519.9	4581.9	4660.7	4649.1	4584.5	4607.8	4623.3	4587.1	4514.7	4501.8
50°	4885.7	4902.5	4994.4	5068.0	5057.7	4989.1	5042.1	5044.7	4954.2	4852.1	4852.1
52.5°	5303.3	5320.2	5444.2	5559.3	5565.8	5466.2	5508.9	5506.3	5358.9	5224.5	5198.6
55°	5771.4	5779.1	5939.4	6108.8	6145.0	6048.1	6053.2	6001.5	5810.1	5653.7	5639.5
57.5°	6254.9	6283.4	6460.5	6680.2	6787.5	6728.1	6700.9	6562.6	6377.7	6198.0	6188.9
60°	6790.1	6791.4	7021.5	7281.4	7498.6	7538.7	7427.5	7242.6	7003.4	6765.6	6755.2
62.5°	7161.2	7216.8	7507.7	7947.3	8336.4	8561.4	8267.9	7880.0	7409.4	7025.5	6986.6
65°	7237.5	7275.0	7718.4	8463.1	9258.2	9743.1	9064.3	8239.4	7436.5	6924.6	6898.7
67.5°	6620.8	6660.8	7258.2	8401.0	9904.6	10898.9	9581.4	8066.2	6976.3	6342.8	6292.4
70°	5121.0	5166.3	5904.5	7395.2	9761.2	11262.2	9213.0	7035.8	5753.3	5069.3	4977.5
72.5°	2722.7	2889.6	3520.5	5075.8	7922.6	9696.5	7554.2	5134.0	3710.5	3033.1	2911.5
75°	994.2	1014.9	1366.5	2250.9	4609.1	6649.2	4786.2	2448.7	1407.9	1087.3	1031.7
77.5°	411.2	409.8	449.9	680.0	1674.3	3405.4	1868.2	718.8	448.6	415.0	409.8
80°	243.0	243.0	267.6	283.2	440.9	1027.8	492.6	320.6	269.0	245.7	249.5
82.5°	108.6	115.0	169.4	178.4	213.4	281.8	237.9	204.3	175.9	121.5	109.9
85°	59.5	51.7	89.2	93.1	102.1	104.7	112.4	111.2	102.1	59.5	60.8
87.5°	11.6	14.2	25.8	19.4	22.0	19.4	25.8	36.2	37.5	20.7	16.8
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)