

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: P652046

Luminaire Tested: **GALN-SA8A-840-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652046
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8A-840-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32503.8 lumens
Efficiency: N/A
Efficacy: 133.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

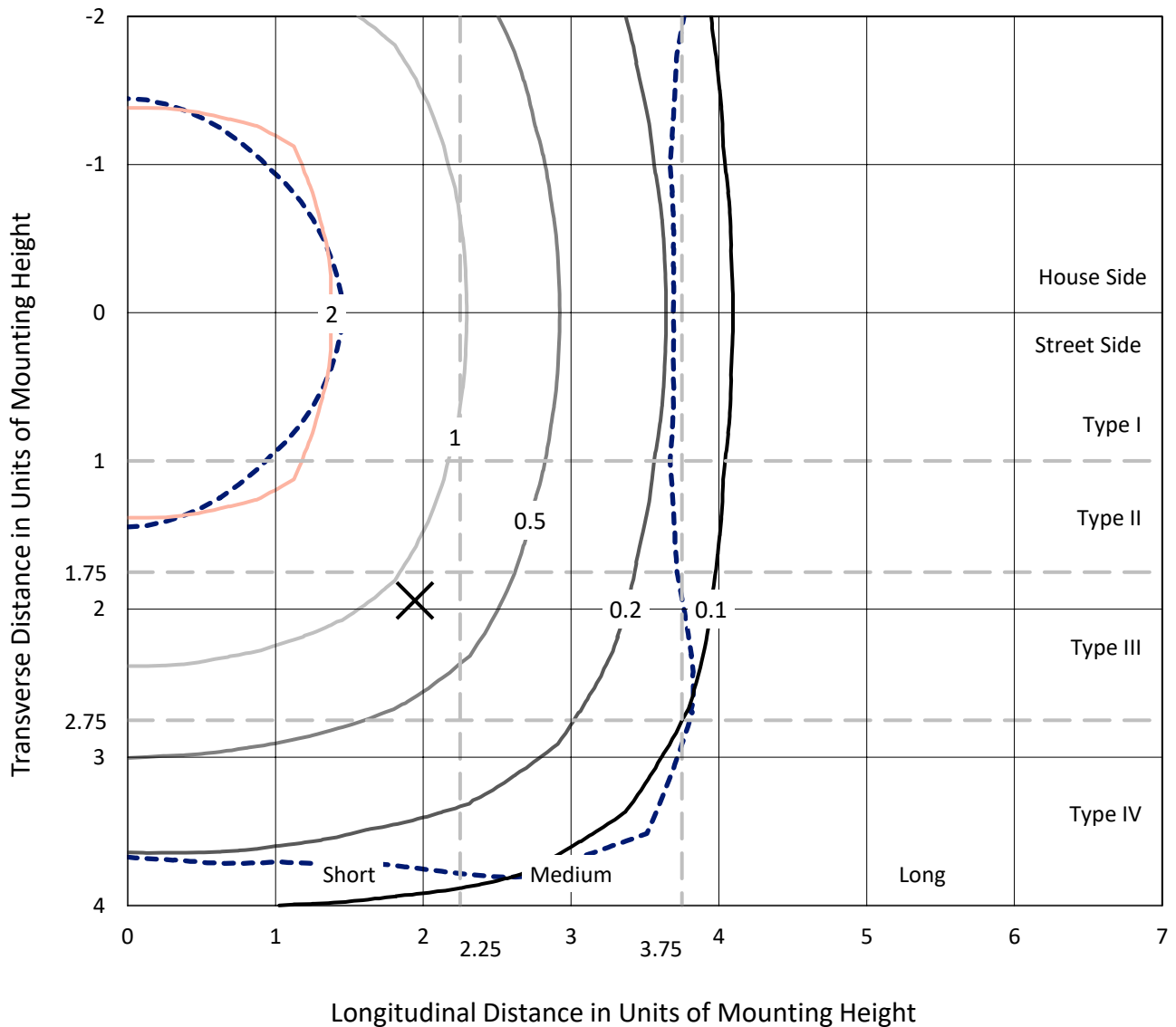
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

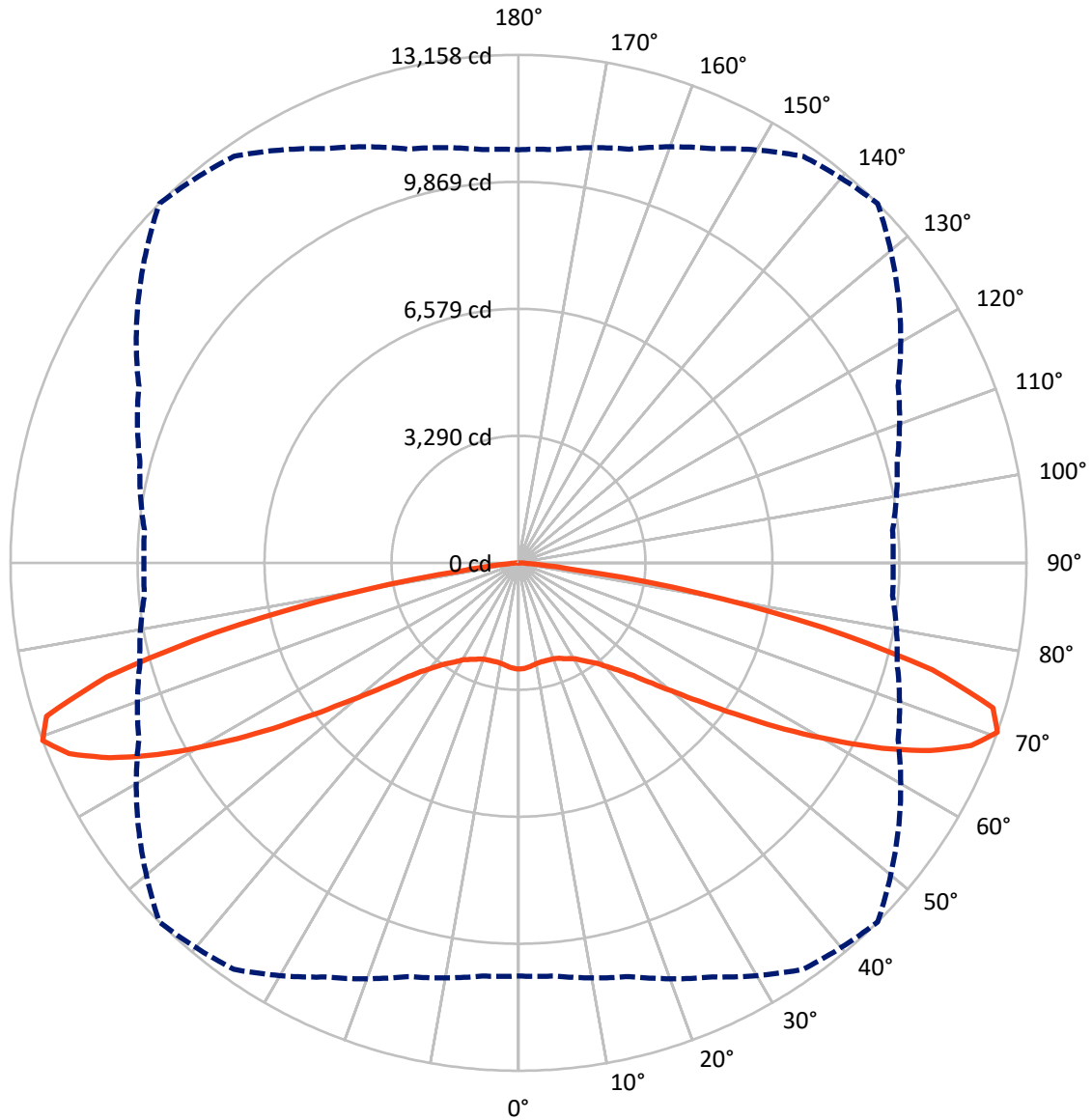
× Max cd
 - - - 1/2 Max cd



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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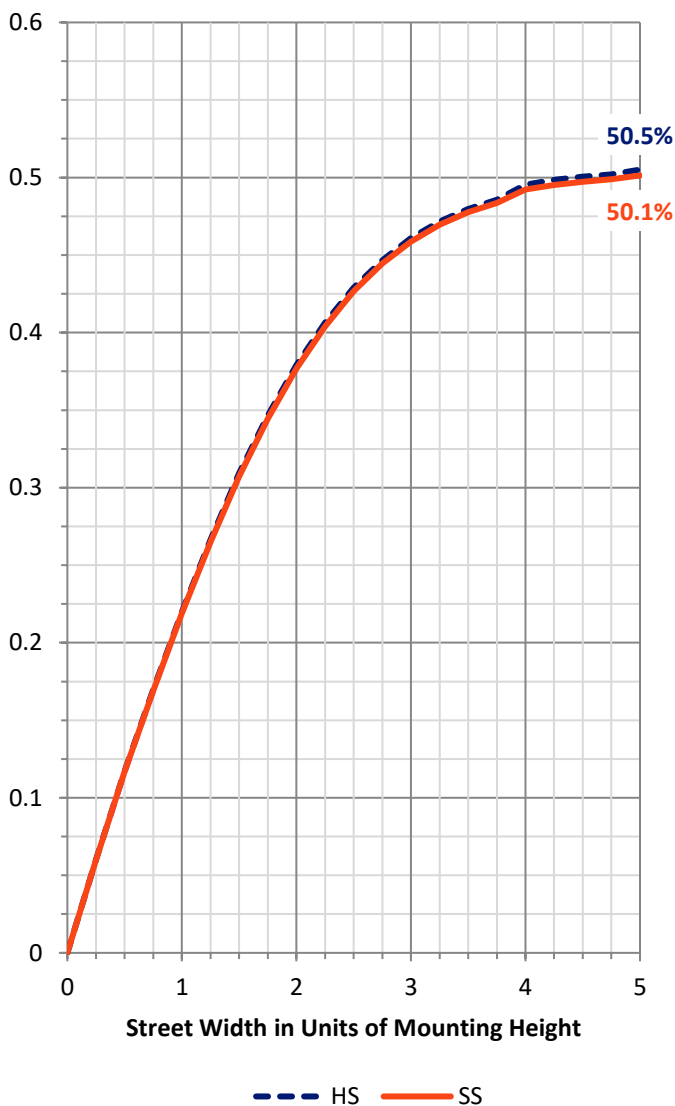
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16251.9	0.0	16251.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16251.9	0.0	16251.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	32503.8	0.0	32503.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.3	0.8
10°-20°	753.4	2.3
20°-30°	1283.6	3.9
30°-40°	1989.6	6.1
40°-50°	3348.8	10.3
50°-60°	6093.0	18.7
60°-70°	10315.2	31.7
70°-80°	7984.4	24.6
80°-90°	478.4	1.5
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°	32503.8	100.0
0°-180°	32503.8	100.0

Coefficient of Utilization



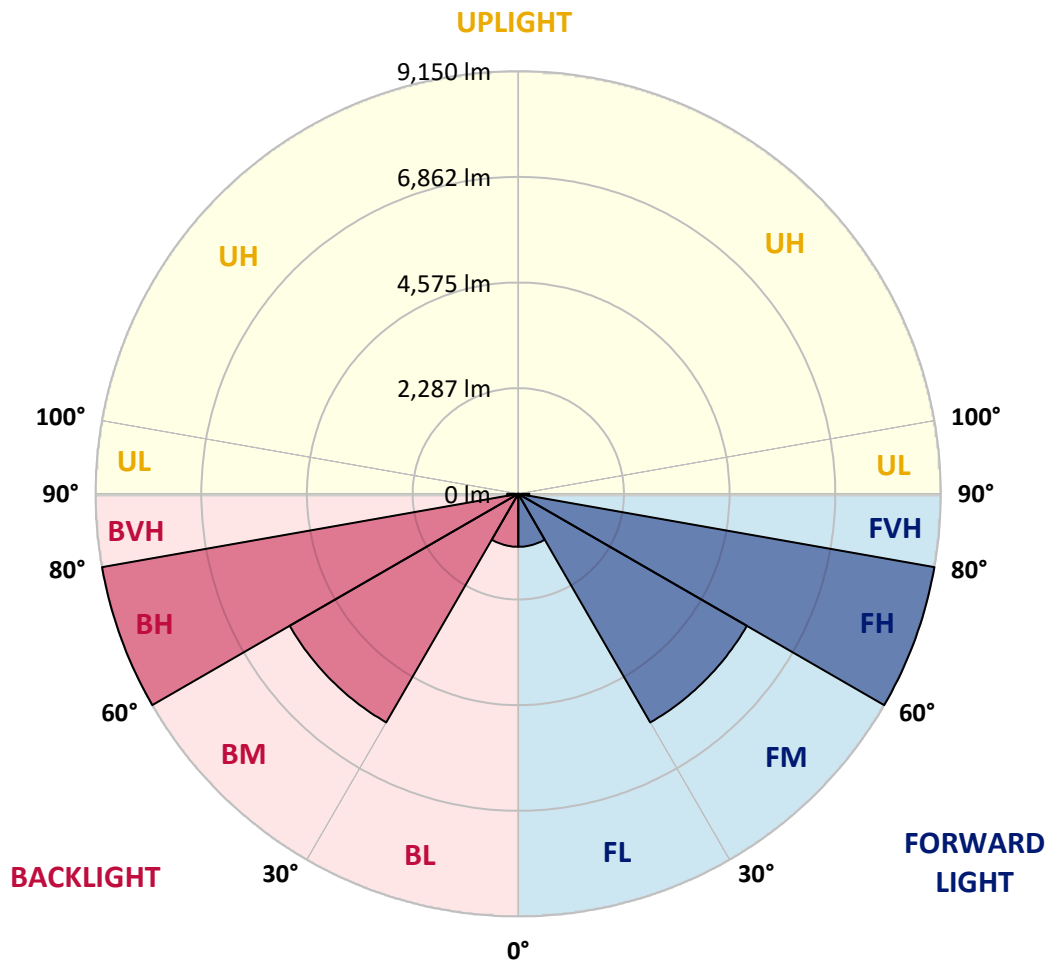
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1147.2	3.5			
FM (30°-60°)	5715.7	17.6			
FH (60°-80°)	9149.8	28.1			G4/12000
FVH (80°-90°)	239.2	0.7			G3/500
BL (0°-30°)	1147.2	3.5	B3/2500		
BM (30°-60°)	5715.7	17.6	B4/8500		
BH (60°-80°)	9149.8	28.1	B5		G4/12000
BVH (80°-90°)	239.2	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2751.8	2751.8	2751.8	2751.8	2751.8	2751.8	2751.8	2751.8	2751.8	2751.8	2751.8
2.5°	2744.9	2746.7	2746.7	2743.3	2741.6	2741.6	2739.8	2739.8	2744.9	2746.7	2748.4
5°	2721.0	2721.0	2721.0	2719.2	2715.8	2715.8	2712.4	2712.4	2714.1	2719.2	2715.8
7.5°	2688.3	2691.8	2691.8	2684.9	2679.8	2679.8	2678.0	2679.8	2681.4	2686.6	2684.9
10°	2678.0	2679.8	2671.2	2659.2	2650.6	2645.4	2647.1	2650.6	2659.2	2662.6	2664.3
12.5°	2684.9	2684.9	2669.4	2652.3	2636.8	2630.0	2628.2	2640.2	2655.7	2666.0	2669.4
15°	2693.5	2690.0	2671.2	2648.8	2633.4	2631.7	2630.0	2638.6	2660.8	2681.4	2683.2
17.5°	2698.6	2696.9	2672.9	2645.4	2636.8	2636.8	2635.1	2642.0	2666.0	2691.8	2693.5
20°	2715.8	2710.6	2683.2	2654.0	2647.1	2650.6	2645.4	2654.0	2679.8	2710.6	2717.5
22.5°	2750.2	2744.9	2717.5	2688.3	2684.9	2684.9	2683.2	2691.8	2719.2	2751.8	2757.0
25°	2791.4	2786.1	2760.4	2739.8	2743.3	2750.2	2746.7	2748.4	2770.8	2798.2	2806.8
27.5°	2846.3	2837.7	2815.3	2798.2	2808.5	2808.5	2808.5	2806.8	2820.5	2846.3	2854.9
30°	2913.2	2909.8	2885.7	2884.0	2892.6	2884.0	2884.0	2885.7	2887.5	2911.5	2920.1
32.5°	3000.8	2993.9	2981.8	2978.5	3002.5	3009.4	2985.3	2963.0	2975.0	2999.1	3004.2
35°	3145.0	3134.7	3117.5	3098.6	3117.5	3150.1	3098.6	3081.4	3112.4	3145.0	3148.4
37.5°	3340.7	3335.5	3308.1	3273.7	3272.0	3306.3	3253.2	3251.4	3309.8	3349.3	3354.4
40°	3586.2	3591.3	3557.0	3524.4	3507.2	3534.6	3493.4	3508.9	3565.6	3610.2	3606.7
42.5°	3931.2	3912.3	3859.1	3828.2	3809.3	3799.0	3788.7	3812.8	3876.3	3924.4	3962.1
45°	4334.6	4327.8	4260.8	4223.1	4181.9	4166.4	4163.0	4205.8	4283.1	4341.5	4346.6
47.5°	4791.3	4775.8	4732.9	4693.5	4678.0	4659.1	4641.9	4674.5	4751.8	4792.9	4805.0
50°	5261.6	5265.1	5265.1	5258.2	5273.7	5277.1	5230.8	5242.8	5285.7	5282.2	5278.8
52.5°	5798.9	5817.9	5907.1	5915.7	5989.5	6039.3	5955.2	5905.4	5889.9	5797.3	5804.1
55°	6430.7	6447.9	6581.8	6715.6	6914.8	6998.9	6822.1	6667.6	6557.7	6417.0	6423.8
57.5°	7218.6	7227.2	7354.3	7611.8	7927.7	8125.1	7814.3	7508.8	7285.6	7151.7	7098.5
60°	8066.7	8075.3	8260.7	8574.8	9065.8	9306.2	8921.6	8422.0	8140.5	7936.3	7950.0
62.5°	9084.7	9119.0	9285.6	9718.2	10313.9	10583.4	10073.5	9405.7	9024.6	8770.5	8780.9
65°	10174.8	10233.1	10415.1	10890.6	11440.0	11730.1	11105.2	10334.5	9860.6	9549.9	9582.5
67.5°	10882.0	10933.6	11196.2	11721.5	12406.5	12646.8	11839.9	10942.2	10349.9	9979.1	9910.4
70°	10701.8	10744.7	11094.9	11839.9	12854.5	13158.4	12015.1	10852.9	10155.9	9728.4	9701.0
72.5°	9447.0	9357.6	9869.2	10938.7	12342.9	12852.8	11464.0	9912.1	9034.9	8595.4	8544.0
75°	6260.7	6454.8	7210.1	8470.1	10442.6	11074.4	9785.1	7958.6	6854.7	6489.1	6432.4
77.5°	2092.7	2242.0	2913.2	4801.6	7119.1	8068.4	7129.4	5204.9	3682.3	2966.5	2980.2
80°	554.5	547.7	709.0	1320.1	3076.3	4672.8	3581.0	1763.1	964.8	698.7	662.6
82.5°	199.1	223.2	286.7	365.7	815.4	1452.3	1024.8	494.4	362.2	267.8	259.2
85°	87.5	85.9	123.6	145.9	204.3	271.2	240.4	209.4	183.7	121.9	113.3
87.5°	18.9	18.9	29.2	22.3	36.1	36.1	44.7	53.2	54.9	36.1	29.2
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)