

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: P652099

Luminaire Tested: **GALN-SA9A-840-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652099
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9A-840-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18186.6 lumens
Efficiency: N/A
Efficacy: 66.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

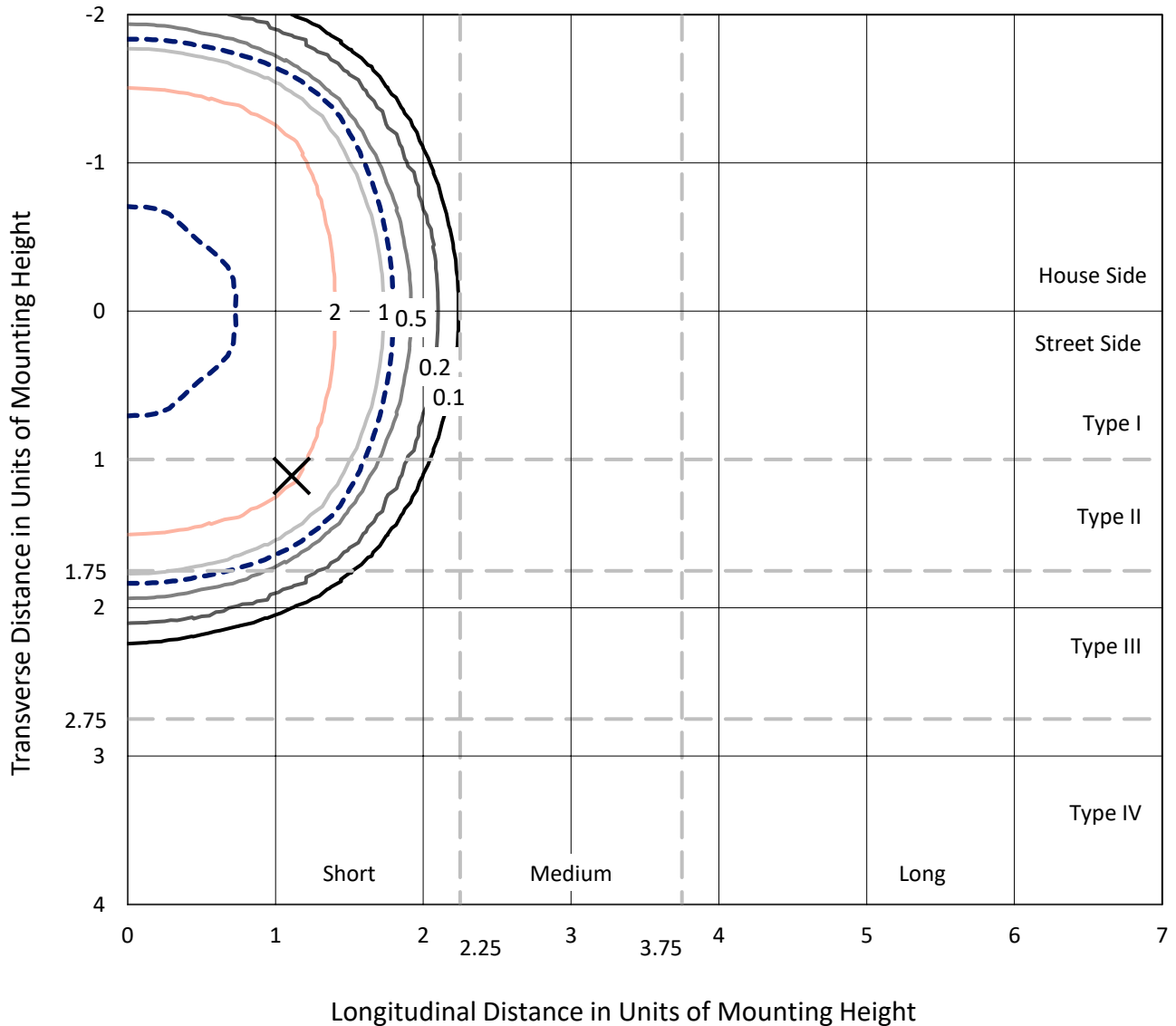
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

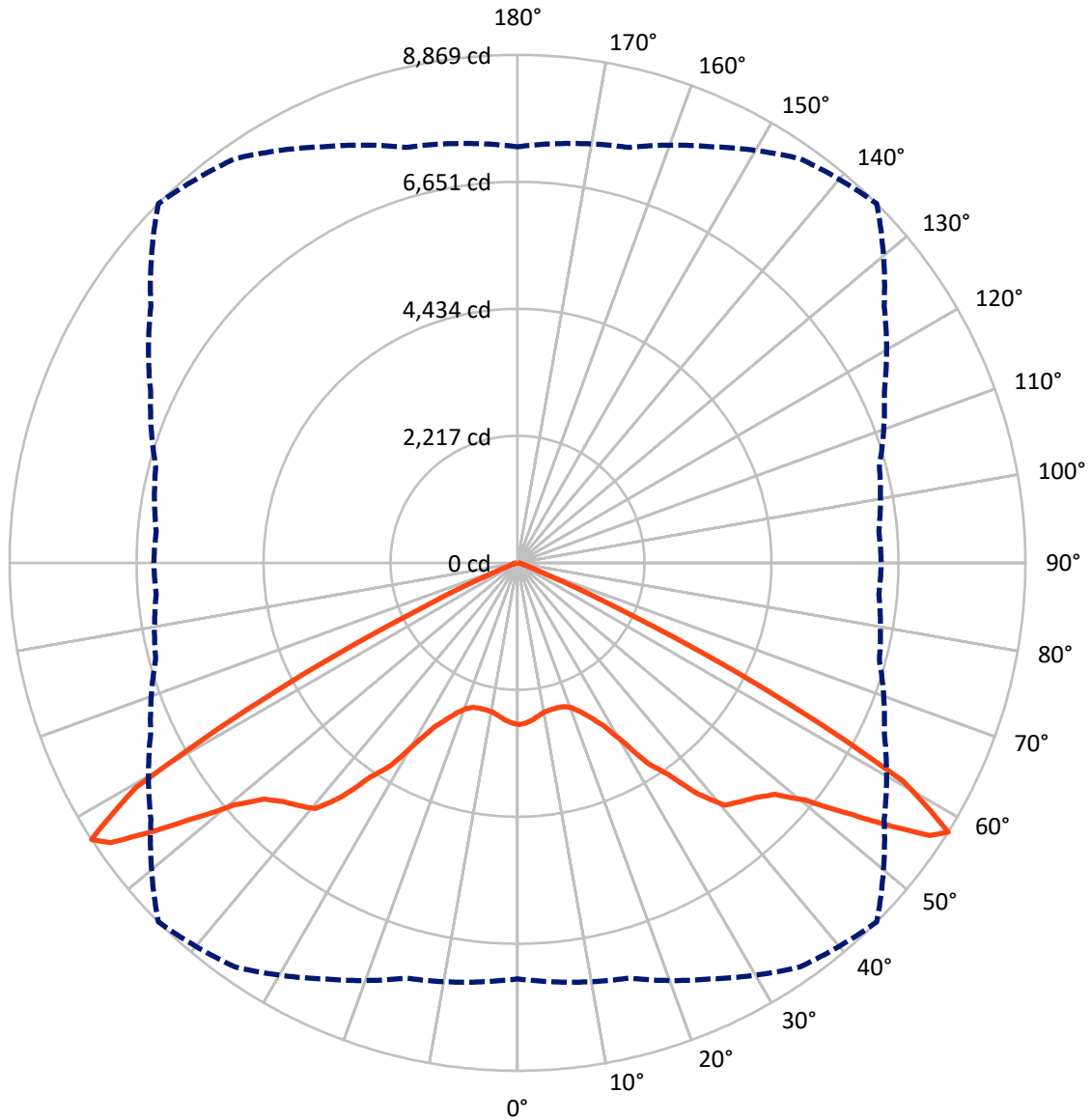
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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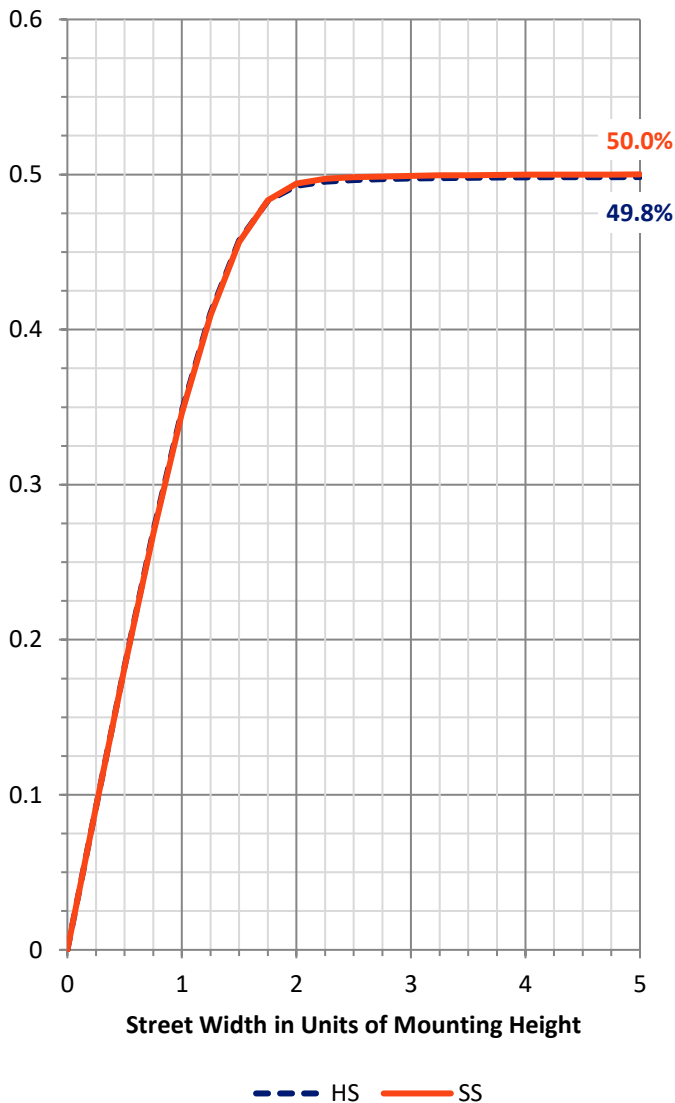
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9093.3	0.0	9093.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9093.3	0.0	9093.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	18186.6	0.0	18186.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.2	1.4
10°-20°	749.3	4.1
20°-30°	1383.1	7.6
30°-40°	2720.0	15.0
40°-50°	4430.2	24.4
50°-60°	6318.0	34.7
60°-70°	2187.4	12.0
70°-80°	117.3	0.6
80°-90°	22.0	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°	18186.6	100.0
0°-180°	18186.6	100.0

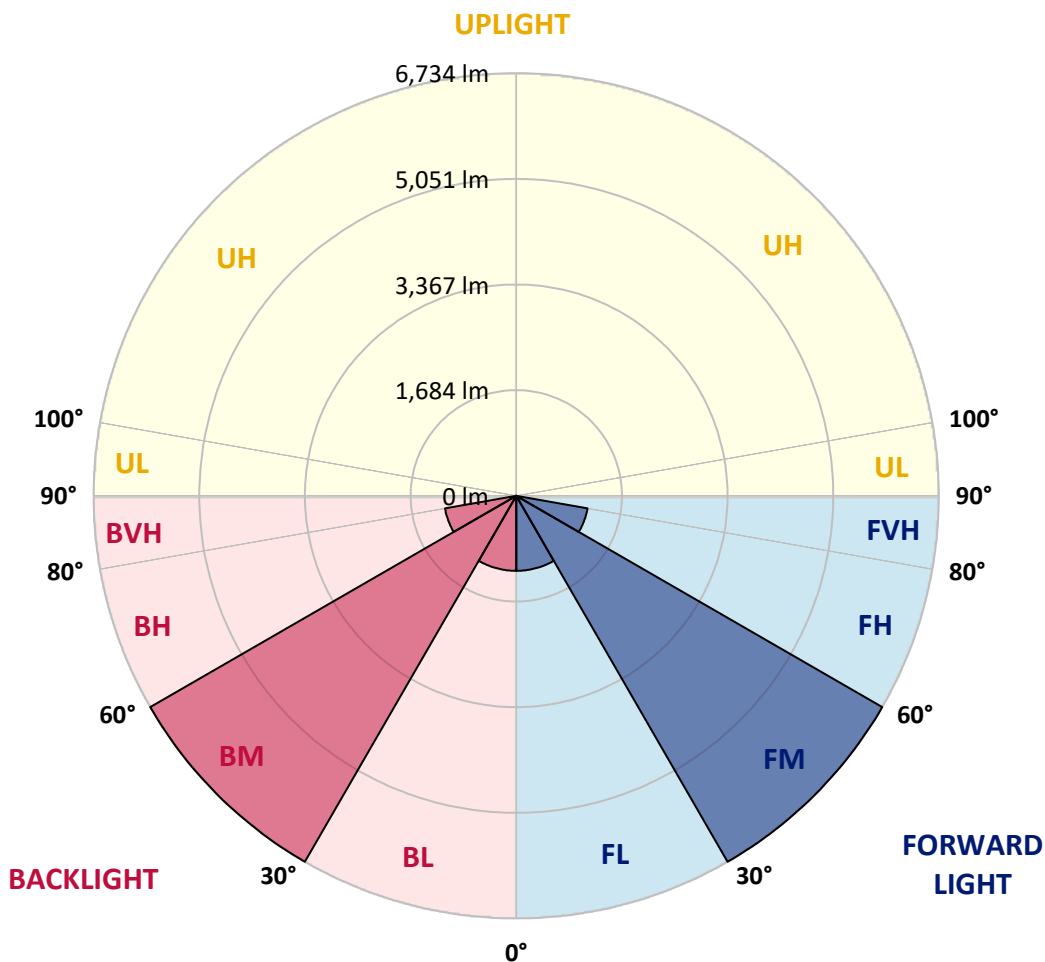


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1195.8	6.6			
FM (30°-60°)	6734.1	37.0			
FH (60°-80°)	1152.4	6.3			G1/1800
FVH (80°-90°)	11.0	0.1			G1/100
BL (0°-30°)	1195.8	6.6	B3/2500		
BM (30°-60°)	6734.1	37.0	B4/8500		
BH (60°-80°)	1152.4	6.3	B3/2500		G1/1800
BVH (80°-90°)	11.0	0.1			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°	2821.0	2821.0	2821.0	2821.0	2821.0	2821.0	2821.0	2821.0	2821.0	2821.0	2821.0
2.5°	2813.3	2828.5	2809.5	2802.0	2798.2	2798.2	2786.8	2786.8	2783.0	2786.8	2771.7
5°	2767.8	2783.0	2783.0	2779.3	2756.5	2752.7	2741.3	2733.8	2737.5	2722.3	2733.8
7.5°	2722.3	2733.8	2718.5	2714.7	2707.2	2692.0	2688.3	2654.1	2657.9	2657.9	2665.5
10°	2714.7	2711.0	2688.3	2669.2	2646.5	2642.8	2631.3	2623.8	2623.8	2620.0	2631.3
12.5°	2714.7	2695.8	2692.0	2650.3	2612.4	2627.5	2597.3	2578.3	2604.8	2612.4	2627.5
15°	2711.0	2730.0	2665.5	2646.5	2620.0	2623.8	2597.3	2578.3	2593.5	2601.0	2612.4
17.5°	2733.8	2722.3	2703.4	2665.5	2654.1	2639.0	2604.8	2589.7	2589.7	2608.6	2612.4
20°	2794.4	2764.0	2726.2	2707.2	2718.5	2699.6	2657.9	2601.0	2616.2	2631.3	2642.8
22.5°	2851.2	2828.5	2802.0	2790.6	2855.0	2824.8	2752.7	2688.3	2665.5	2692.0	2711.0
25°	2961.2	2961.2	2912.0	2927.1	2999.2	3003.0	2919.5	2805.7	2790.6	2802.0	2809.5
27.5°	3185.0	3196.3	3154.6	3169.7	3200.1	3226.7	3154.6	3059.8	3025.7	3021.9	3033.2
30°	3427.6	3450.4	3446.6	3511.0	3598.2	3613.4	3507.2	3351.7	3249.4	3230.4	3245.6
32.5°	3746.1	3757.4	3749.9	3825.7	4060.8	4170.8	3893.9	3674.1	3537.6	3571.6	3537.6
35°	4345.1	4333.8	4250.3	4265.6	4458.9	4538.5	4273.1	4132.8	4068.3	4136.6	4121.5
37.5°	4860.8	4819.1	4750.8	4849.5	5050.4	5122.4	4845.7	4599.2	4481.7	4595.4	4644.7
40°	5296.9	5190.7	5095.9	5194.4	5463.6	5562.3	5156.6	4955.6	4910.1	4993.5	5099.7
42.5°	5664.6	5596.4	5471.2	5478.9	5657.1	5702.6	5376.4	5258.9	5213.4	5346.2	5399.2
45°	5926.3	5861.8	5744.3	5736.6	5873.1	5842.8	5550.9	5471.2	5497.8	5585.0	5611.6
47.5°	6059.0	6093.0	6024.8	6043.8	6115.8	6043.8	5812.5	5812.5	5751.9	5804.9	5778.3
50°	6441.9	6335.8	6423.0	6423.0	6498.7	6506.3	6275.0	6191.6	6028.6	5937.6	5937.6
52.5°	6889.3	6896.9	6931.0	7056.2	7185.1	7295.0	6965.2	6608.7	6335.8	6218.2	6203.0
55°	7257.1	7332.9	7469.4	7704.5	8076.0	8227.8	7659.0	7022.0	6688.4	6506.3	6468.5
56°	7458.1	7386.0	7621.1	7943.3	8428.7	8625.9	7772.8	7105.4	6737.7	6532.9	6529.1
57.5°	7264.6	7344.3	7507.4	8015.4	8610.7	8868.5	7814.5	7067.5	6540.5	6332.0	6350.9
60°	5736.6	5812.5	6032.4	6601.2	7533.8	7734.8	6612.5	5827.6	5357.5	5057.9	5061.7
62.5°	3245.6	3302.4	3473.1	4000.1	4580.3	4773.6	4121.5	3598.2	3272.2	3105.3	3052.2
65°	1194.4	1171.6	1198.2	1467.4	1823.7	1986.8	1713.8	1448.4	1277.7	1217.1	1194.4
67.5°	447.4	413.3	386.8	413.3	519.5	549.8	504.3	420.8	394.3	405.7	413.3
70°	276.8	261.6	208.6	197.1	193.3	189.6	200.9	212.4	242.6	284.3	291.9
72.5°	193.3	182.0	147.8	140.3	132.7	128.9	147.8	163.1	189.6	219.9	223.7
75°	75.9	79.6	75.9	83.4	87.2	91.0	106.1	117.6	128.9	128.9	125.1
77.5°	15.1	15.1	22.8	30.4	37.9	49.3	72.1	83.4	87.2	83.4	72.1
80°	0.0	0.0	7.6	15.1	30.4	41.7	64.4	72.1	79.6	72.1	56.9
82.5°	0.0	0.0	7.6	18.9	30.4	37.9	60.6	75.9	87.2	79.6	60.6
85°	0.0	0.0	7.6	15.1	22.8	26.6	26.6	18.9	18.9	11.4	7.6
87.5°	0.0	0.0	0.0	0.0	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)