

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: P652318

Luminaire Tested: **GALN-SA4B-840-U-5NQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652318  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4B-840-U-5NQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19756.8 lumens  
Efficiency: N/A  
Efficacy: 120.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

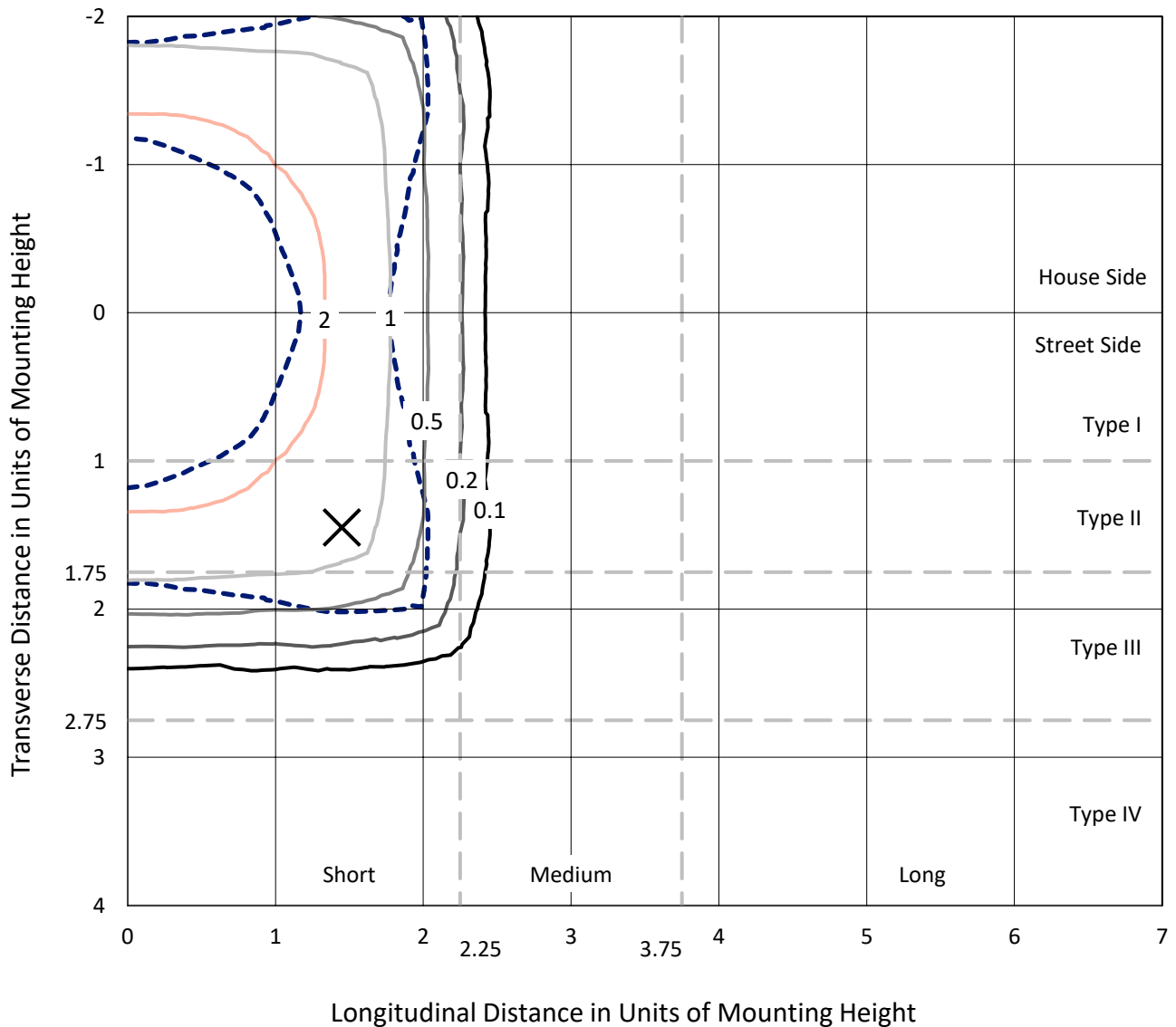
Input Watts (W): 164  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

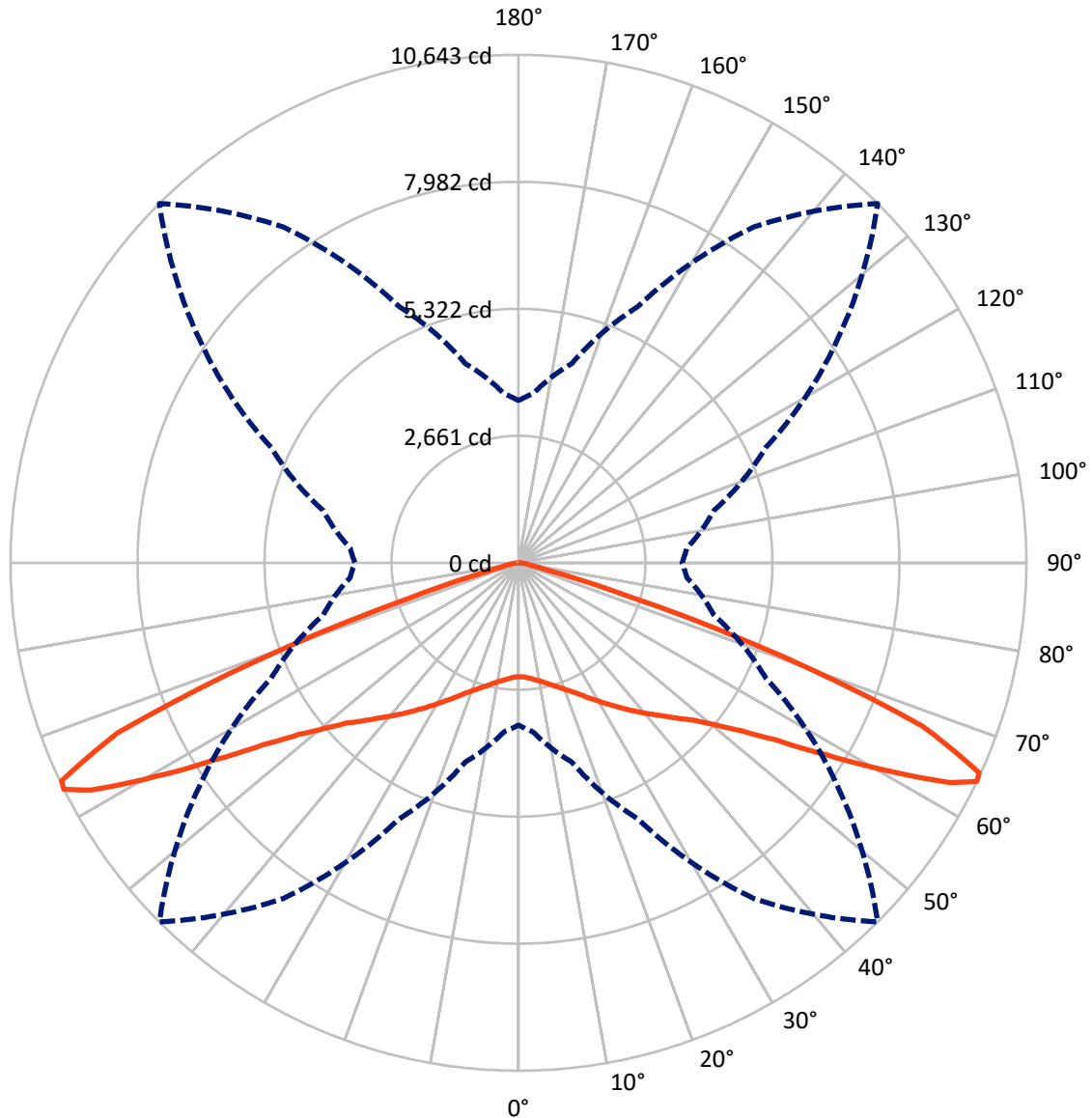
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 64-Deg Vertical

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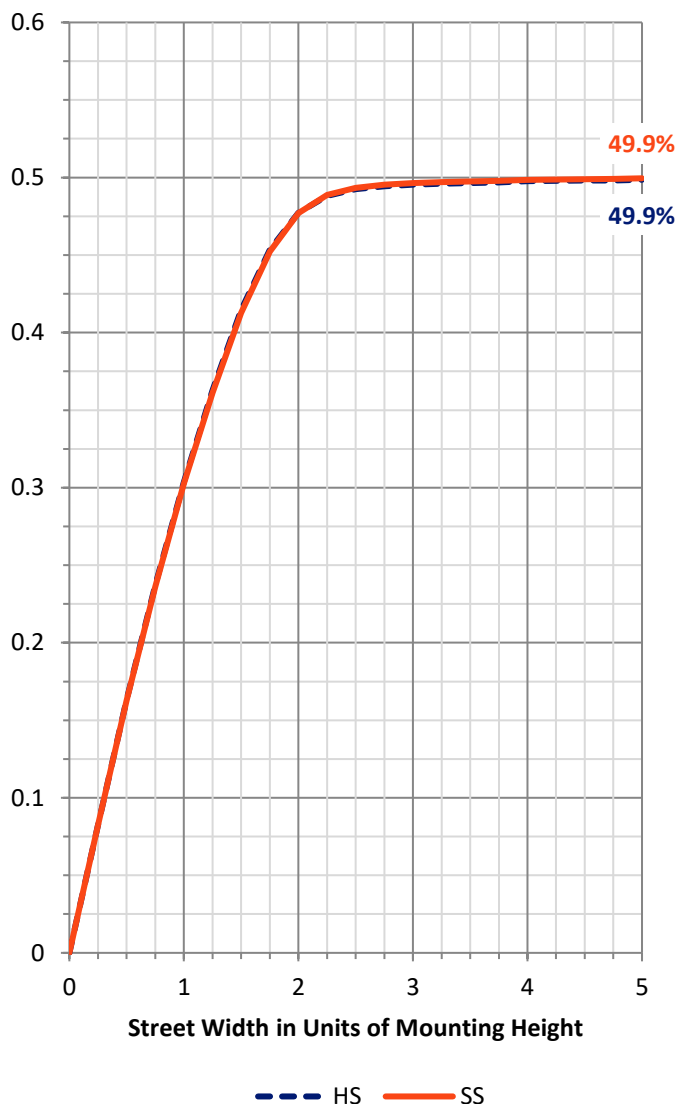
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9878.4	0.0	9878.4
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	9878.4	0.0	9878.4
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	19756.8	0.0	19756.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	234.6	1.2
10°-20°	756.7	3.8
20°-30°	1430.0	7.2
30°-40°	2368.3	12.0
40°-50°	3697.2	18.7
50°-60°	5715.8	28.9
60°-70°	4928.7	24.9
70°-80°	558.5	2.8
80°-90°	66.9	0.3
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°	19756.8	100.0
0°-180°	19756.8	100.0

**Coefficient of Utilization**



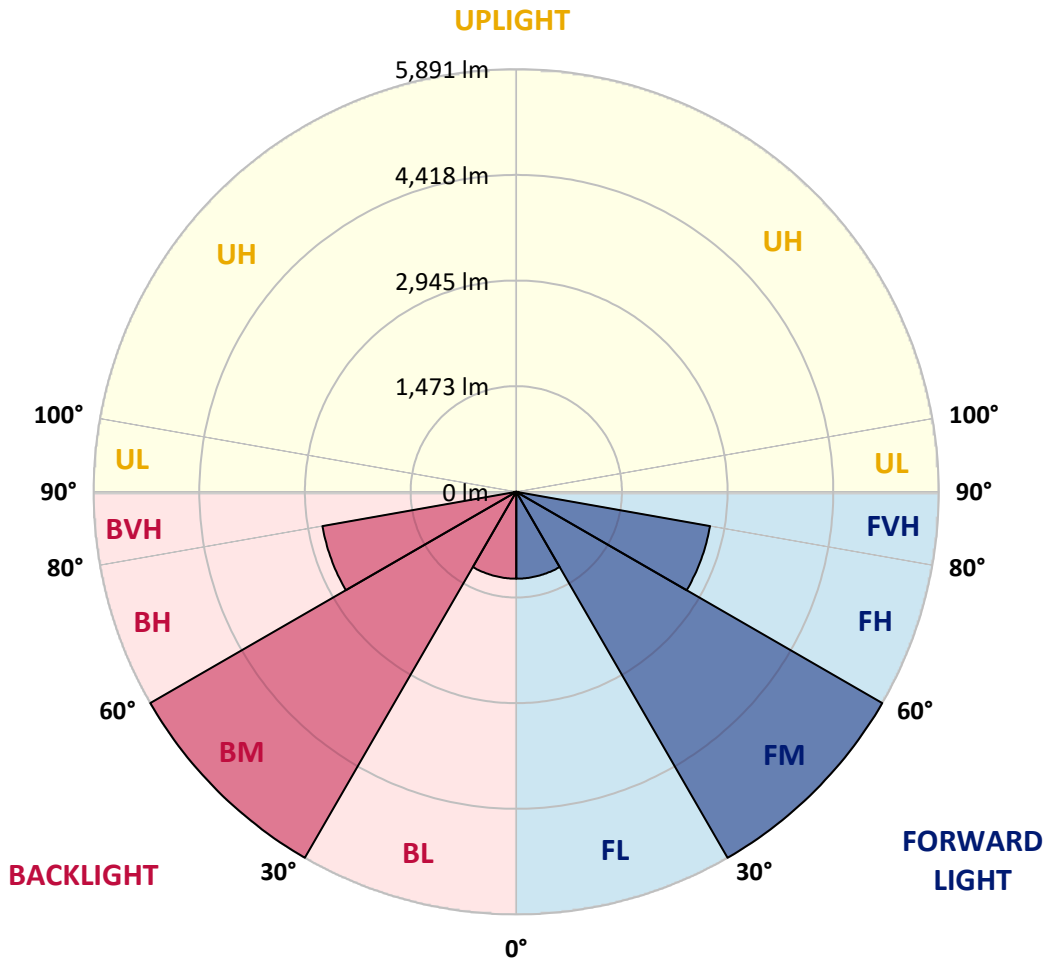
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1210.7	6.1			
FM (30°-60°)	5890.6	29.8			
FH (60°-80°)	2743.6	13.9			G2/5000
FVH (80°-90°)	33.5	0.2			G1/100
BL (0°-30°)	1210.7	6.1	B3/2500		
BM (30°-60°)	5890.6	29.8	B4/8500		
BH (60°-80°)	2743.6	13.9	B4/5000		G2/5000
BVH (80°-90°)	33.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2387.9	2387.9	2387.9	2387.9	2387.9	2387.9	2387.9	2387.9	2387.9	2387.9	2387.9
2.5°	2397.4	2402.6	2398.4	2397.4	2396.3	2396.3	2396.3	2397.4	2401.6	2404.7	2402.6
5°	2427.7	2431.9	2429.8	2428.7	2427.7	2428.7	2426.6	2425.6	2428.7	2428.7	2427.7
7.5°	2465.4	2470.6	2468.5	2470.6	2471.6	2472.7	2467.5	2463.3	2462.2	2465.4	2463.3
10°	2516.6	2520.8	2521.9	2522.9	2525.0	2524.0	2517.7	2510.4	2509.3	2508.3	2507.2
12.5°	2574.2	2577.3	2578.4	2582.5	2585.7	2586.7	2579.4	2573.1	2562.7	2564.8	2560.6
15°	2639.1	2645.4	2644.3	2650.6	2659.0	2661.1	2653.7	2643.3	2633.8	2628.6	2625.5
17.5°	2718.6	2722.8	2720.7	2726.9	2737.5	2742.7	2736.4	2722.8	2713.4	2701.9	2695.6
20°	2812.8	2820.1	2822.2	2822.2	2831.6	2836.9	2827.4	2823.2	2808.6	2800.2	2795.0
22.5°	2919.5	2922.6	2929.0	2935.3	2944.6	2942.6	2939.4	2933.2	2919.5	2912.2	2903.8
25°	3039.9	3043.0	3058.7	3072.3	3075.5	3073.4	3069.1	3066.0	3053.5	3036.7	3030.5
27.5°	3180.1	3186.4	3207.3	3219.9	3219.9	3220.9	3212.5	3223.0	3195.8	3175.9	3173.8
30°	3355.8	3360.0	3377.9	3390.4	3384.1	3378.9	3376.8	3387.3	3357.9	3322.4	3314.0
32.5°	3529.6	3544.2	3560.0	3587.1	3565.2	3555.7	3553.6	3561.0	3527.5	3487.7	3476.2
35°	3715.9	3726.3	3755.7	3778.6	3758.8	3736.8	3746.2	3769.2	3729.4	3676.1	3674.0
37.5°	3922.0	3931.4	3969.1	3993.2	3978.5	3940.8	3956.6	3983.7	3944.0	3878.0	3864.5
40°	4136.5	4156.4	4203.5	4228.6	4204.5	4154.3	4183.6	4212.9	4177.3	4101.0	4070.6
42.5°	4377.2	4408.6	4476.6	4489.2	4443.1	4375.1	4426.4	4473.4	4448.4	4360.4	4348.9
45°	4658.6	4677.5	4761.2	4788.4	4724.6	4639.9	4703.7	4789.5	4770.7	4669.1	4647.2
47.5°	4973.7	4991.4	5078.3	5119.1	5038.5	4924.5	5039.6	5151.5	5140.0	5031.2	5020.8
50°	5346.2	5350.4	5470.7	5516.7	5436.1	5337.8	5440.3	5579.5	5533.5	5394.3	5392.2
52.5°	5754.3	5759.5	5911.2	6000.2	5955.2	5844.3	5965.6	6050.4	5933.3	5751.2	5737.6
55°	6108.0	6134.2	6341.3	6577.8	6639.5	6559.0	6595.6	6555.8	6267.0	6011.7	5971.9
57.5°	6252.4	6303.6	6618.6	7060.2	7462.0	7581.4	7298.8	6920.0	6399.9	6038.9	6000.2
60°	5899.7	5955.2	6443.9	7282.1	8307.6	8825.5	8031.3	6981.7	6097.5	5590.0	5529.3
62.5°	4724.6	4740.3	5459.2	6759.9	8800.4	10142.0	8340.0	6455.3	5217.5	4527.9	4503.8
64°	3399.8	3561.0	4322.7	5926.9	8584.8	10643.2	8162.1	5717.6	4238.1	3540.0	3427.1
65°	2542.8	2586.7	3484.6	5061.6	8205.0	10605.5	7816.8	5012.4	3509.7	2709.2	2583.6
67.5°	960.6	965.9	1286.1	2522.9	5841.2	9124.8	5965.6	2726.9	1478.6	1069.4	1030.7
70°	398.7	406.0	472.0	848.7	2510.4	5858.9	2876.6	983.6	541.0	438.4	432.2
72.5°	291.9	296.1	316.0	376.7	772.3	2405.8	946.0	417.6	317.1	283.6	280.5
75°	229.2	231.3	245.9	277.3	359.9	666.6	393.4	286.7	241.7	217.7	215.5
77.5°	174.8	180.0	190.5	211.3	241.7	316.0	260.5	214.5	186.3	166.3	163.2
80°	120.3	126.7	146.5	154.9	162.2	205.1	177.9	162.2	145.5	121.4	114.0
82.5°	74.3	78.5	98.4	105.7	102.5	115.1	114.0	116.1	103.6	75.4	70.1
85°	38.7	40.8	53.4	55.4	51.3	47.1	58.6	68.0	63.8	42.9	41.9
87.5°	8.4	9.4	11.5	10.4	11.5	11.5	14.6	22.0	23.0	14.6	13.6
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)