

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: P530173

Luminaire Tested: **GALN-SA5B-827-U-5NQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530173  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5B-827-U-5NQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14391 lumens  
Efficiency: N/A  
Efficacy: 70.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G0

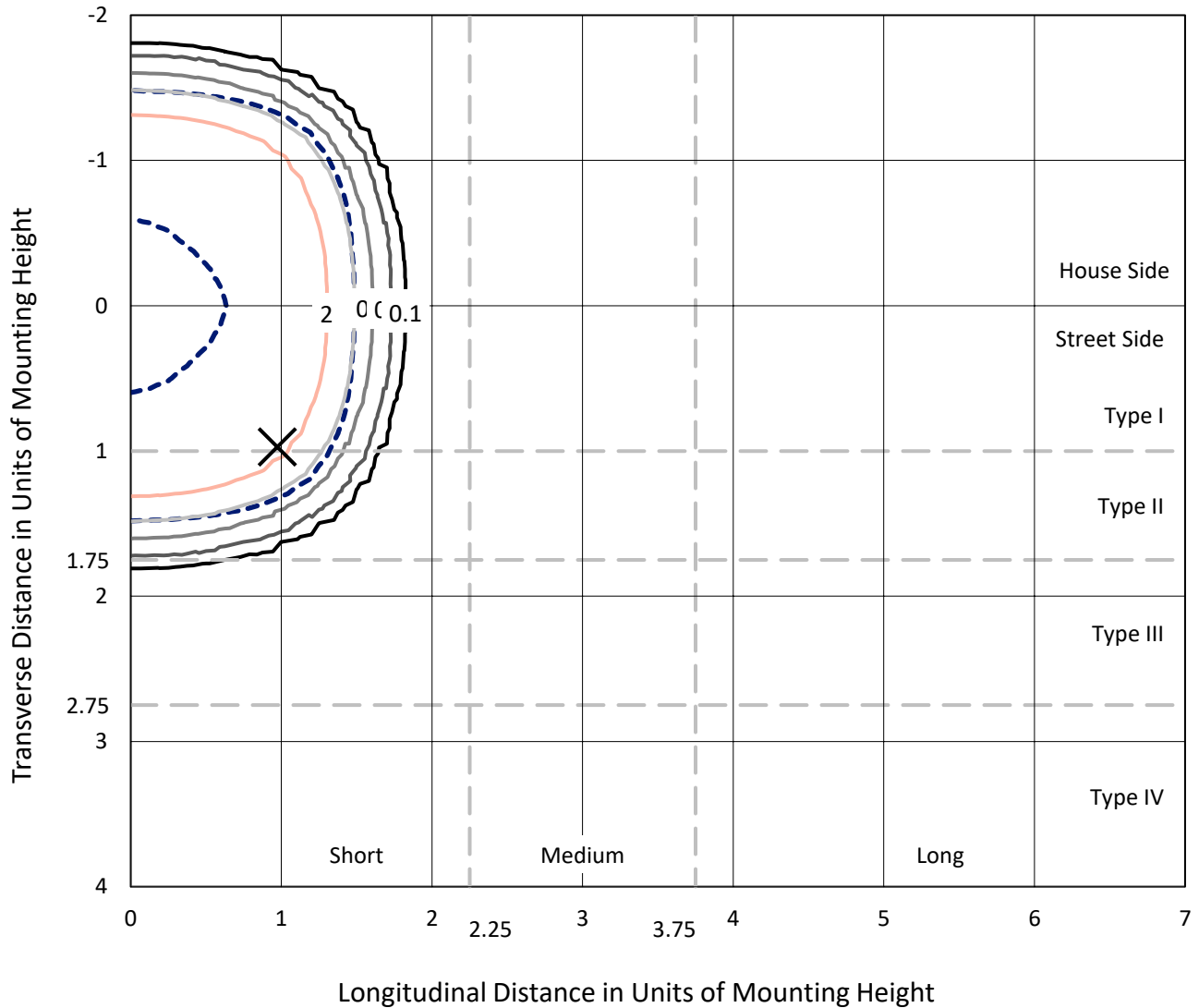
Input Watts (W): 204  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

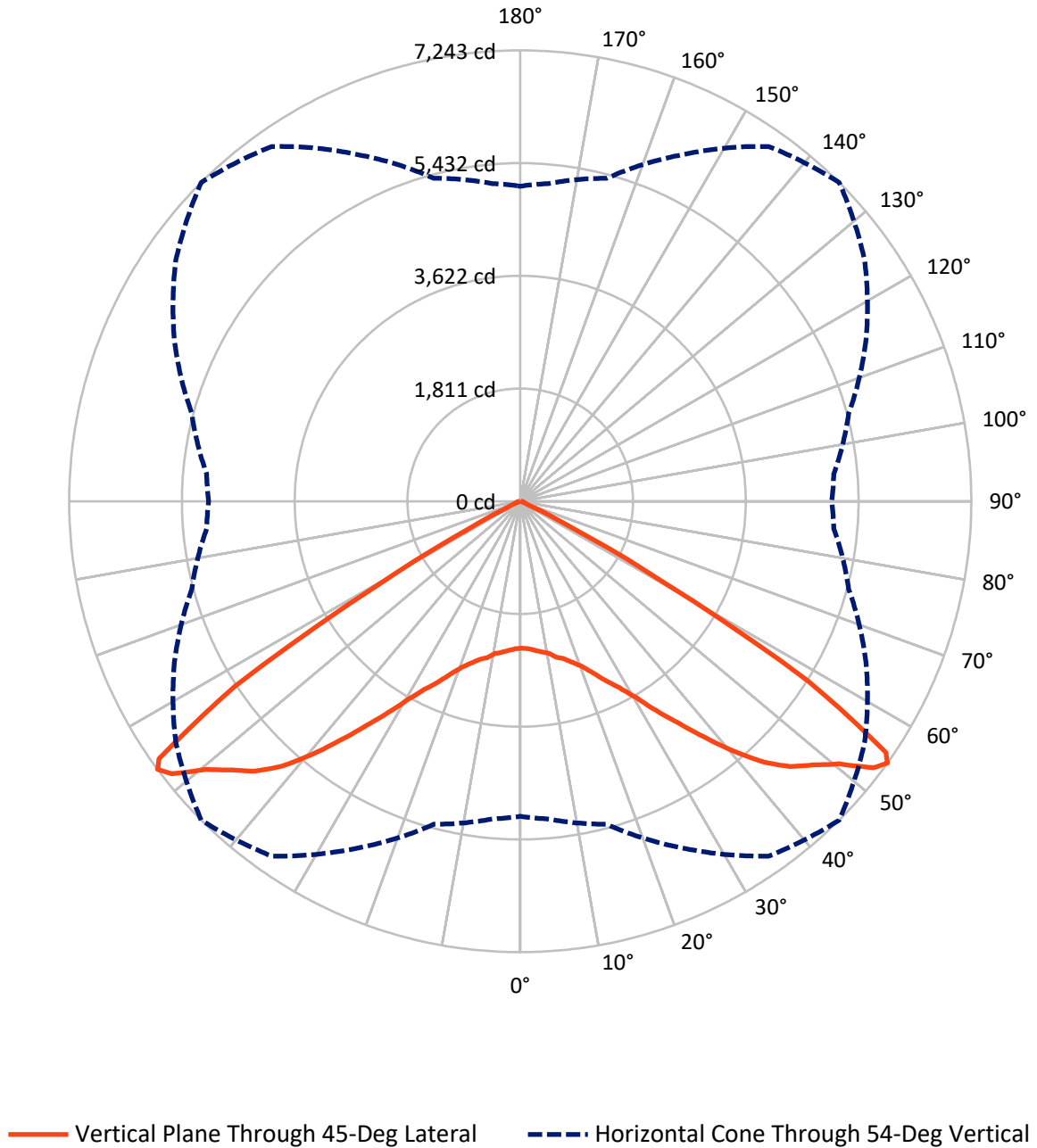
✕ Max cd  
 - - - 1/2 Max cd



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



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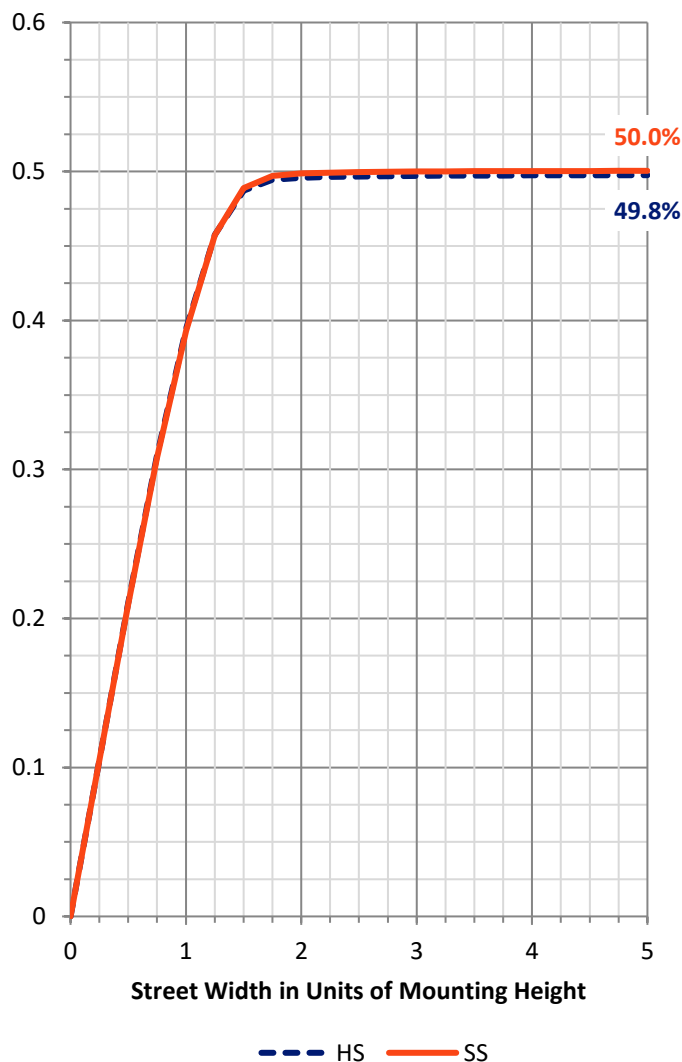
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7195.5	0.0	7195.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	7195.5	0.0	7195.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	14391.0	0.0	14391.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	231.0	1.6
10°-20°	747.9	5.2
20°-30°	1465.9	10.2
30°-40°	2636.0	18.3
40°-50°	4512.3	31.4
50°-60°	4366.1	30.3
60°-70°	373.7	2.6
70°-80°	44.3	0.3
80°-90°	13.9	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°	14391.0	100.0
0°-180°	14391.0	100.0

**Coefficient of Utilization**

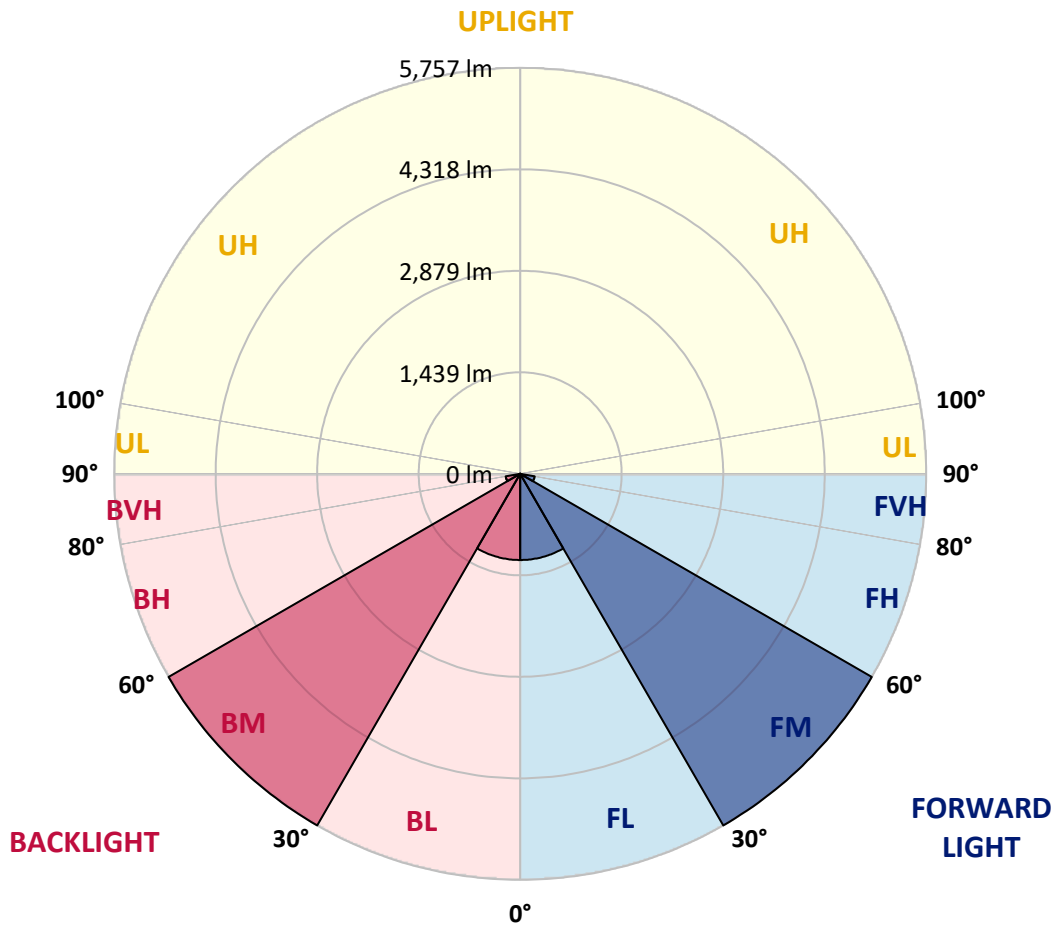


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1222.4	8.5			
FM (30°-60°)	5757.1	40.0			
FH (60°-80°)	209.0	1.5			G0/660
FVH (80°-90°)	6.9	0.0			G0/10
BL (0°-30°)	1222.4	8.5	B3/2500		
BM (30°-60°)	5757.1	40.0	B4/8500		
BH (60°-80°)	209.0	1.5	B1/500		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°	2359.7	2359.7	2359.7	2359.7	2359.7	2359.7	2359.7	2359.7	2359.7	2359.7	2359.7
2.5°	2371.1	2384.8	2375.6	2382.5	2382.5	2371.1	2377.9	2350.6	2368.8	2355.1	2357.4
5°	2407.6	2405.3	2405.3	2407.6	2398.4	2403.0	2393.9	2384.8	2377.9	2368.8	2396.2
7.5°	2453.2	2453.2	2437.2	2441.8	2437.2	2444.0	2425.8	2407.6	2400.7	2393.9	2389.3
10°	2496.5	2491.9	2485.1	2505.6	2489.6	2480.5	2471.4	2460.0	2434.9	2425.8	2416.7
12.5°	2560.3	2558.0	2548.9	2569.4	2560.3	2569.4	2535.2	2505.6	2501.0	2471.4	2487.3
15°	2635.5	2656.1	2640.1	2640.1	2635.5	2624.1	2610.5	2596.8	2555.7	2544.3	2546.6
17.5°	2733.6	2726.7	2729.0	2729.0	2751.8	2722.2	2694.8	2660.6	2640.1	2633.3	2610.5
20°	2827.1	2836.2	2833.9	2849.8	2863.5	2831.6	2802.0	2797.4	2740.4	2749.5	2717.6
22.5°	2991.2	2984.4	2995.8	3007.2	2998.0	2993.5	2966.1	2931.9	2881.8	2859.0	2854.4
25°	3164.5	3153.1	3132.6	3159.9	3173.6	3194.1	3141.7	3123.4	3045.9	3011.7	3014.0
27.5°	3312.7	3328.6	3351.4	3362.8	3397.0	3390.2	3353.7	3294.4	3235.1	3196.4	3171.3
30°	3515.6	3524.7	3563.5	3579.4	3638.7	3654.6	3597.7	3529.3	3424.4	3374.2	3344.6
32.5°	3702.5	3766.4	3764.1	3843.9	3939.6	4005.7	3903.2	3798.3	3693.4	3634.1	3581.7
35°	4005.7	3994.3	4060.5	4144.8	4299.9	4375.1	4263.4	4142.5	3983.0	3887.2	3846.2
37.5°	4288.5	4293.0	4381.9	4516.4	4694.3	4810.5	4712.5	4514.2	4350.0	4226.9	4169.9
40°	4698.8	4708.0	4799.1	4951.9	5152.5	5277.9	5163.9	4963.3	4744.4	4648.7	4648.7
42.5°	5179.9	5218.6	5277.9	5410.2	5590.3	5729.3	5626.7	5469.4	5248.3	5125.2	5143.4
45°	5674.6	5692.9	5731.6	5927.7	6012.0	6080.4	5984.7	5911.7	5763.5	5613.1	5588.0
47.5°	6137.4	6144.3	6258.3	6319.8	6385.9	6328.9	6390.5	6294.7	6128.3	5982.4	5952.8
50°	6342.6	6331.2	6493.1	6680.0	6730.2	6629.9	6577.5	6513.6	6260.6	6085.0	6007.5
52.5°	5745.3	5811.4	6112.4	6632.2	7024.3	7108.7	6803.2	6509.1	6037.1	5695.1	5642.7
54°	5061.3	5122.9	5371.4	6142.0	6958.2	7243.2	6750.7	6126.0	5460.3	5054.5	5002.1
55°	4384.2	4315.8	4767.2	5553.8	6648.1	7124.6	6543.3	5631.3	4869.8	4498.2	4425.2
57.5°	2373.4	2384.8	2765.5	3508.7	4671.5	5462.6	4824.2	3809.7	2877.2	2460.0	2423.5
60°	752.4	770.6	937.0	1418.1	2232.0	2665.2	2284.4	1529.8	1057.9	848.1	813.9
62.5°	234.8	243.9	266.7	396.7	611.0	873.2	684.0	410.4	305.5	280.4	285.0
65°	143.6	143.6	145.9	155.0	182.4	212.0	205.2	180.1	173.3	168.7	166.4
67.5°	93.5	91.2	95.8	102.6	107.2	109.4	116.3	123.1	120.8	116.3	116.3
70°	57.0	54.7	59.3	68.4	70.7	75.2	82.1	91.2	88.9	84.4	86.6
72.5°	31.9	31.9	34.2	41.0	47.9	52.4	59.3	66.1	68.4	66.1	66.1
75°	11.4	13.7	18.2	25.1	29.6	36.5	43.3	50.2	57.0	52.4	50.2
77.5°	4.6	4.6	9.1	16.0	22.8	29.6	41.0	47.9	52.4	47.9	43.3
80°	2.3	2.3	6.8	13.7	20.5	27.4	34.2	41.0	43.3	38.8	34.2
82.5°	2.3	2.3	6.8	13.7	20.5	25.1	36.5	41.0	45.6	41.0	34.2
85°	0.0	2.3	6.8	13.7	18.2	20.5	20.5	13.7	11.4	6.8	6.8
87.5°	0.0	0.0	2.3	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)