

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: P529244

Luminaire Tested: **GALN-SA4B-827-U-RW-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529244  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4B-827-U-RW-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR  
WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14500 lumens  
Efficiency: N/A  
Efficacy: 88.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G1

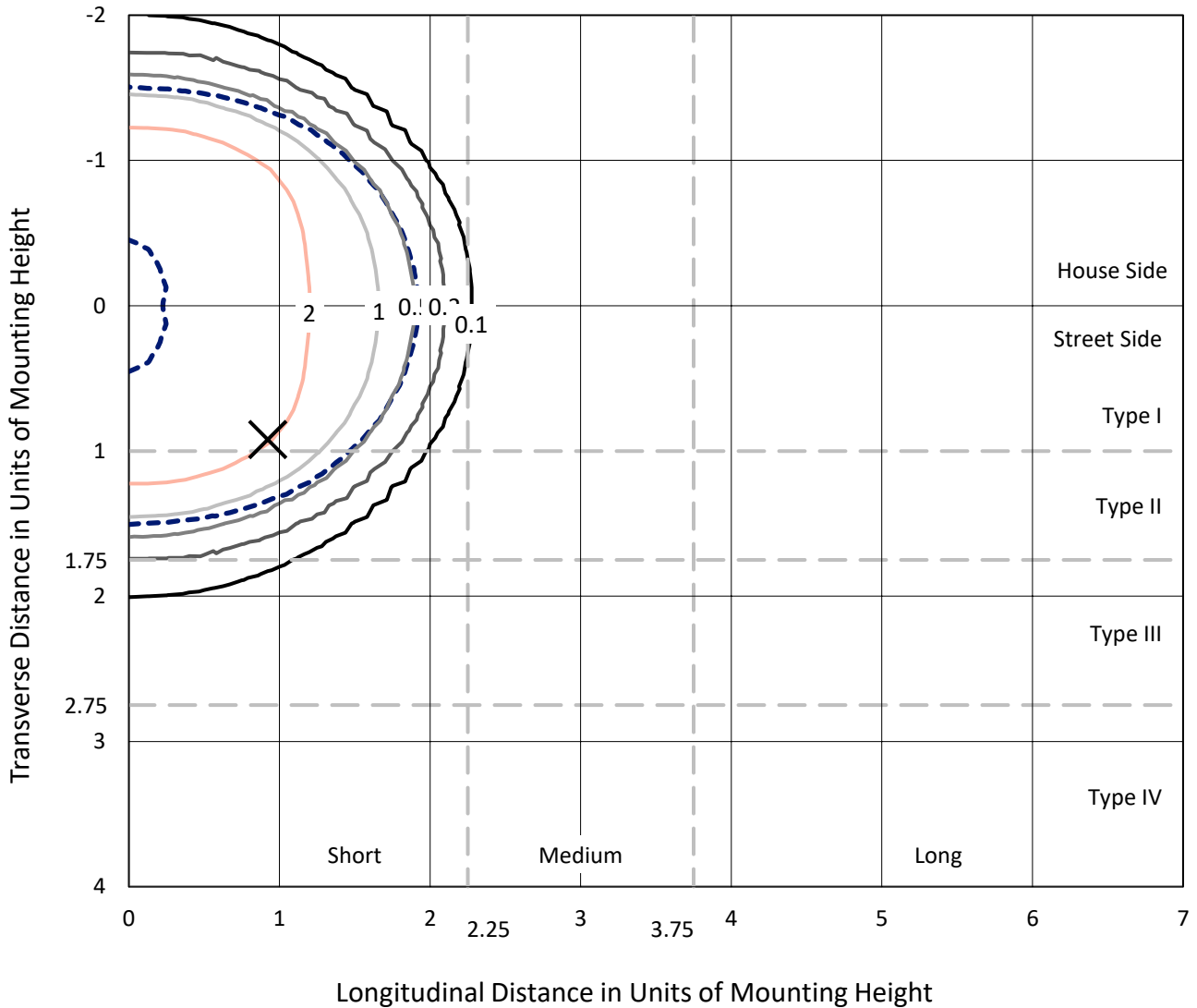
Input Watts (W): 164  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

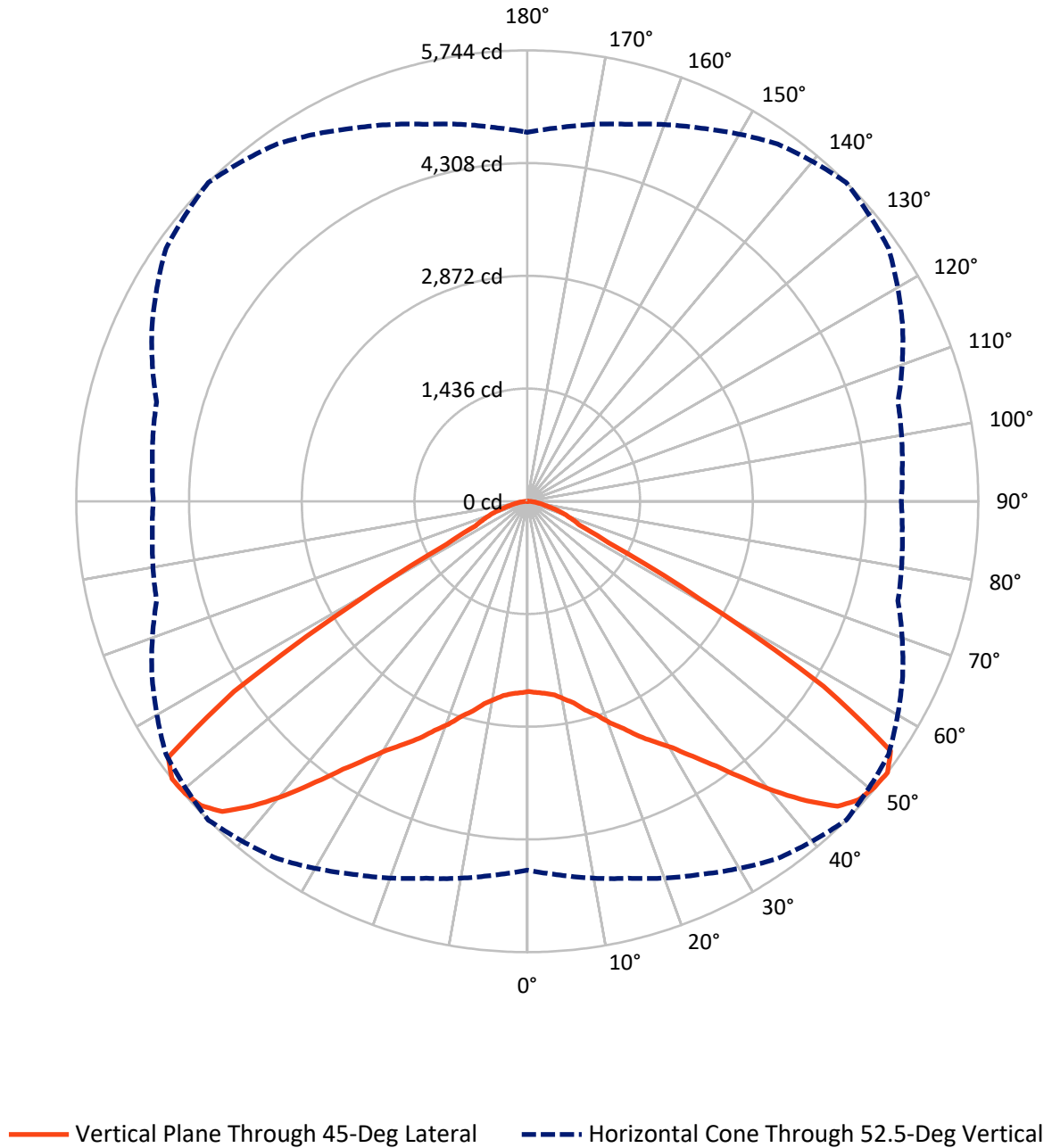
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



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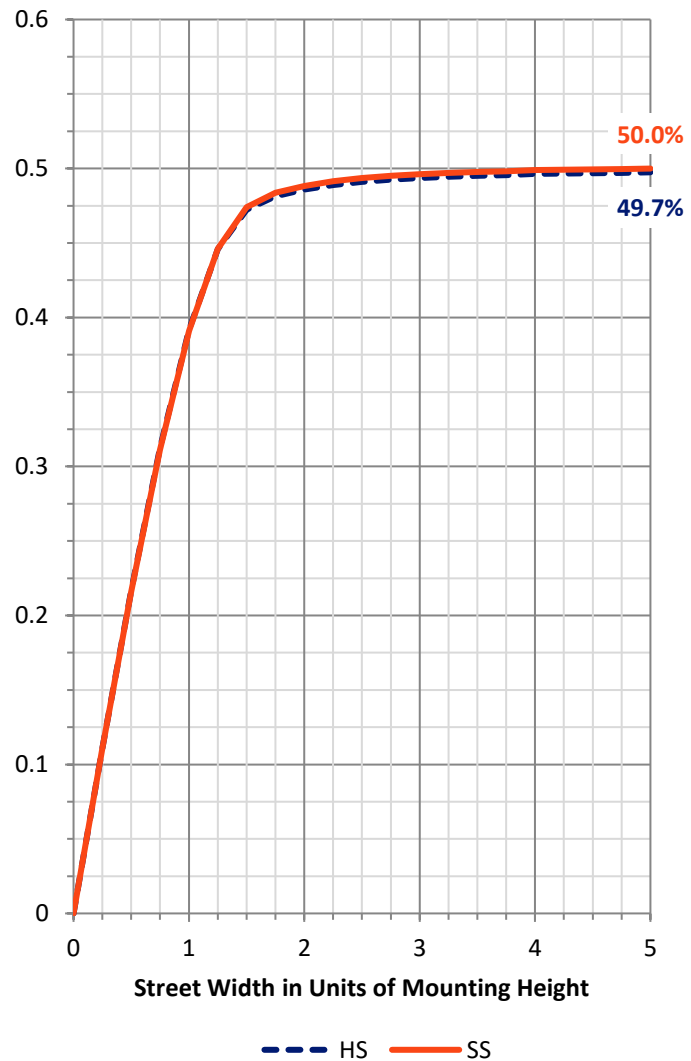
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7250.0	0.0	7250.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	7250.0	0.0	7250.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	14500.0	0.0	14500.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	238.1	1.6
10°-20°	782.5	5.4
20°-30°	1489.8	10.3
30°-40°	2558.1	17.6
40°-50°	3931.8	27.1
50°-60°	3992.7	27.5
60°-70°	1112.7	7.7
70°-80°	328.2	2.3
80°-90°	66.1	0.5
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°	14500.0	100.0
0°-180°	14500.0	100.0



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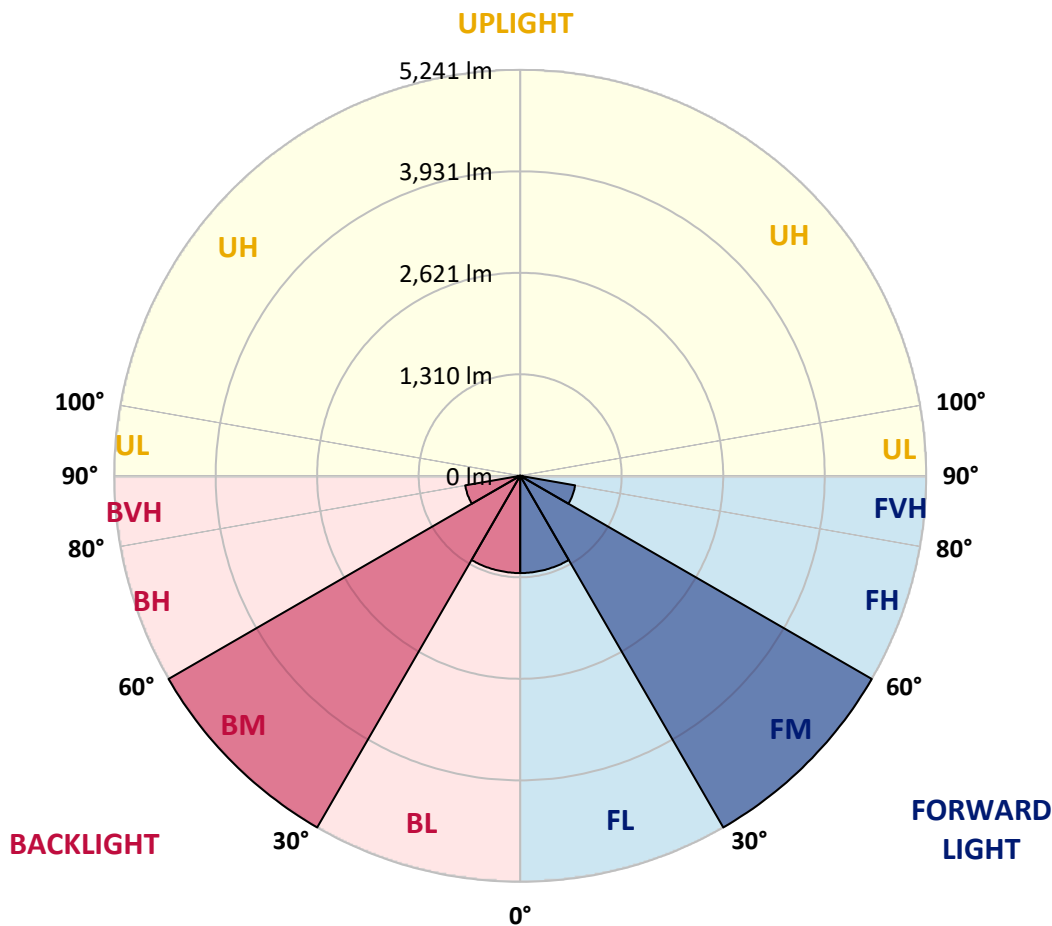
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1255.2	8.7			
FM (30°-60°)	5241.3	36.1			
FH (60°-80°)	720.5	5.0			G1/1800
FVH (80°-90°)	33.1	0.2			G1/100
BL (0°-30°)	1255.2	8.7	B3/2500		
BM (30°-60°)	5241.3	36.1	B4/8500		
BH (60°-80°)	720.5	5.0	B2/1000		G1/1800
BVH (80°-90°)	33.1	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-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2423.9	2423.9	2423.9	2423.9	2423.9	2423.9	2423.9	2423.9	2423.9	2423.9	2423.9
2.5°	2429.3	2404.1	2413.1	2418.5	2441.9	2440.1	2434.7	2441.9	2449.1	2450.9	2447.3
5°	2427.5	2409.5	2416.7	2422.1	2445.5	2458.1	2454.5	2485.0	2506.6	2501.2	2528.2
7.5°	2413.1	2423.9	2414.9	2441.9	2461.7	2492.2	2524.6	2553.4	2580.4	2611.0	2616.4
10°	2445.5	2445.5	2461.7	2483.2	2535.4	2558.8	2605.6	2647.0	2699.2	2735.2	2720.8
12.5°	2479.6	2485.0	2485.0	2540.8	2584.0	2636.2	2679.4	2735.2	2808.9	2852.1	2873.7
15°	2513.8	2517.4	2535.4	2611.0	2675.8	2758.6	2798.2	2848.5	2889.9	2970.9	2972.7
17.5°	2544.4	2564.2	2618.2	2702.8	2783.8	2862.9	2925.9	2978.1	3014.1	3046.5	3039.3
20°	2659.6	2674.0	2729.8	2814.3	2934.9	3012.3	3033.9	3042.9	3066.3	3131.1	3111.3
22.5°	2771.2	2776.6	2828.7	2958.3	3042.9	3145.4	3168.8	3163.4	3172.4	3188.6	3217.4
25°	2886.3	2895.3	2967.3	3077.1	3195.8	3318.2	3338.0	3296.6	3284.0	3302.0	3303.8
27.5°	3033.9	3035.7	3127.5	3222.8	3357.8	3472.9	3503.5	3471.1	3411.8	3426.2	3449.6
30°	3221.0	3208.4	3300.2	3437.0	3579.1	3643.9	3696.1	3679.9	3615.1	3602.5	3582.7
32.5°	3437.0	3440.6	3523.3	3672.7	3766.3	3874.2	3930.0	3903.0	3861.6	3840.0	3852.6
35°	3741.1	3757.3	3813.0	3937.2	4088.4	4142.3	4230.5	4172.9	4065.0	4092.0	4115.4
37.5°	3991.2	4038.0	4142.3	4289.9	4379.9	4478.8	4511.2	4433.9	4354.7	4322.3	4399.7
40°	4374.5	4360.1	4475.2	4622.8	4756.0	4854.9	4813.5	4736.2	4540.0	4541.8	4563.4
42.5°	4703.8	4711.0	4799.1	4975.5	5157.2	5218.4	5087.1	4898.1	4680.4	4657.0	4703.8
45°	4980.9	5009.7	5060.1	5295.8	5473.9	5540.5	5297.6	5074.5	4783.0	4685.8	4763.2
47.5°	5079.9	5126.6	5236.4	5452.3	5628.7	5682.7	5488.3	5168.0	4878.3	4720.0	4761.4
50°	5094.3	5078.1	5258.0	5455.9	5610.7	5727.7	5556.7	5236.4	4854.9	4772.2	4759.6
52.5°	4700.2	4779.4	4971.9	5243.6	5556.7	5743.9	5617.9	5274.2	4887.3	4793.7	4763.2
55°	3804.0	3710.5	4061.4	4518.4	5094.3	5614.3	5596.3	5294.0	4907.1	4829.7	4788.4
57.5°	2123.4	2150.3	2348.3	2844.9	3588.1	4451.9	4975.5	5085.3	4898.1	4853.1	4874.7
60°	982.5	991.5	1076.1	1308.2	1768.9	2524.6	3213.8	3913.8	4235.9	4300.7	4300.7
62.5°	732.4	728.8	750.4	791.8	888.9	1160.6	1549.3	2105.4	2548.0	2857.5	2938.5
65°	662.2	660.4	671.2	685.6	692.8	730.6	817.0	987.9	1131.9	1214.6	1200.2
67.5°	579.4	577.6	581.2	590.2	602.8	622.6	644.2	680.2	730.6	727.0	718.0
70°	467.9	467.9	473.3	480.5	494.9	518.2	543.4	568.6	611.8	620.8	619.0
72.5°	345.5	340.1	350.9	365.3	379.7	408.5	435.5	458.9	489.5	498.4	494.9
75°	219.5	223.1	230.3	246.5	271.7	291.5	320.3	340.1	359.9	367.1	368.9
77.5°	122.4	126.0	138.6	158.4	183.5	205.1	230.3	246.5	259.1	260.9	262.7
80°	73.8	75.6	88.2	106.2	127.8	151.2	170.9	187.1	197.9	192.5	190.7
82.5°	45.0	46.8	57.6	73.8	91.8	109.8	131.4	145.8	156.6	149.4	142.2
85°	23.4	25.2	34.2	45.0	59.4	68.4	68.4	61.2	59.4	55.8	54.0
87.5°	7.2	7.2	9.0	10.8	9.0	10.8	12.6	14.4	14.4	16.2	14.4
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)