

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: P529783

Luminaire Tested: **GALN-SA5A-727-U-5NQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529783  
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-SA5A-727-U-5NQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 2700K, 615mA 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: 13157 lumens  
Efficiency: N/A  
Efficacy: 85.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G0

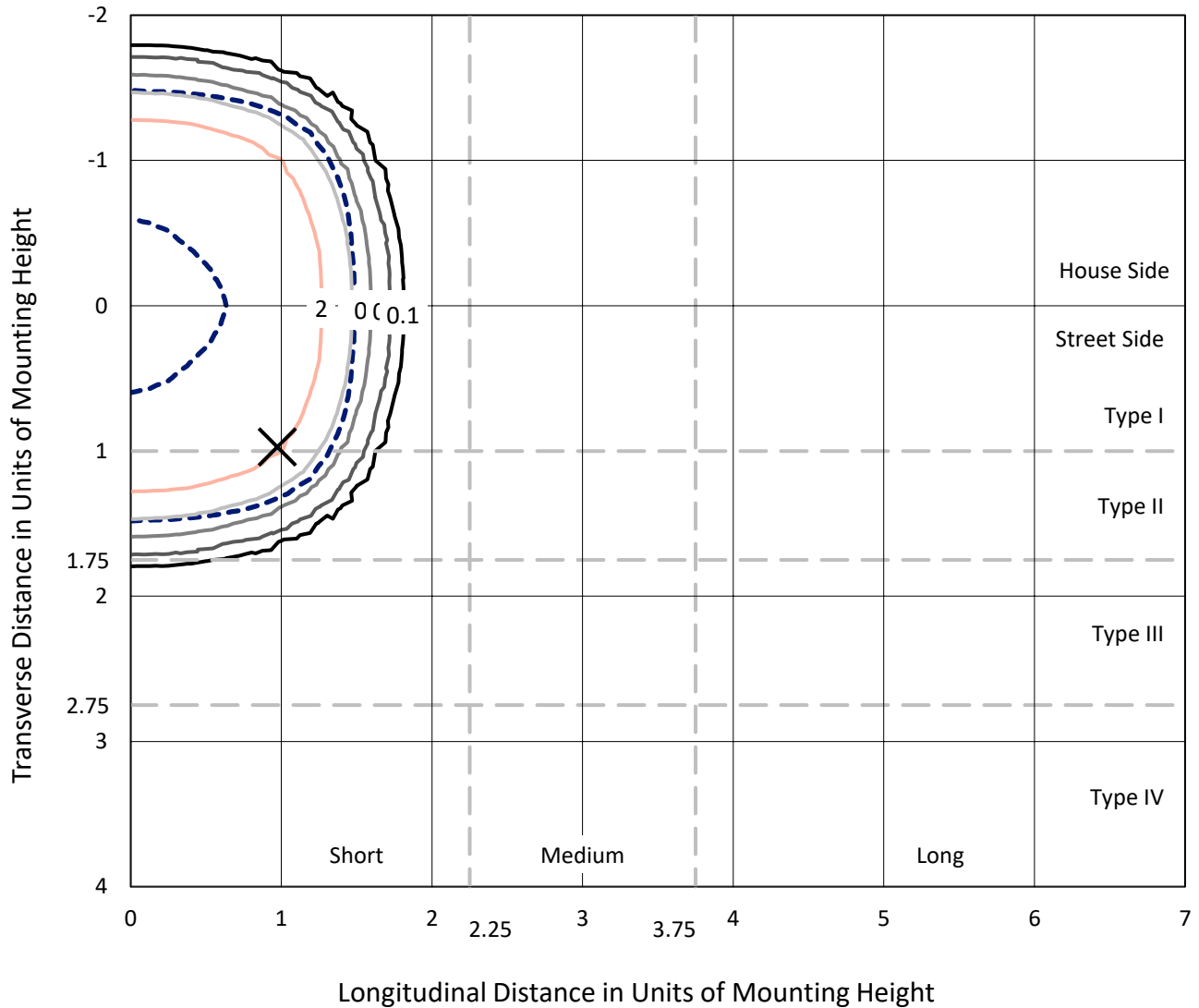
Input Watts (W): 154  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

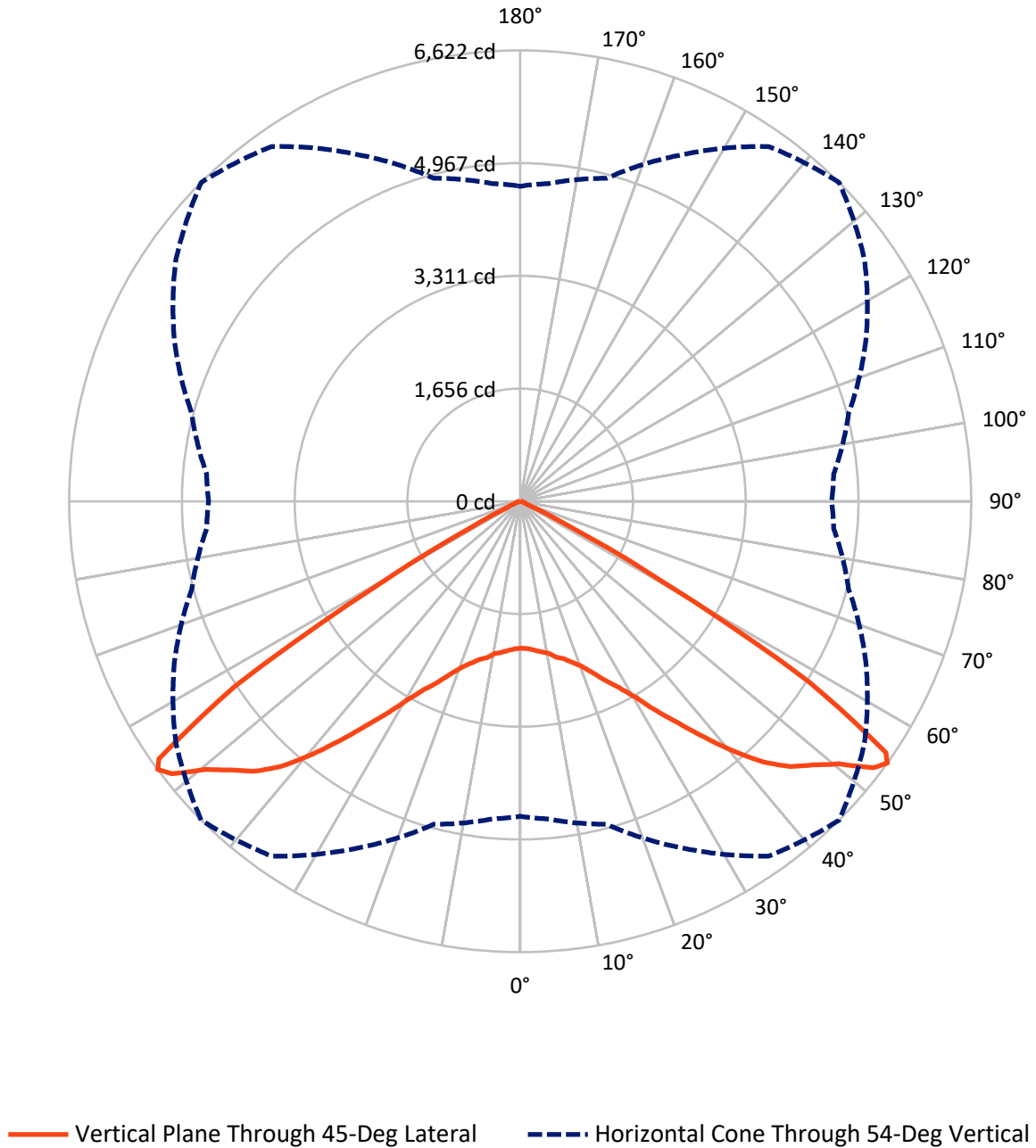
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



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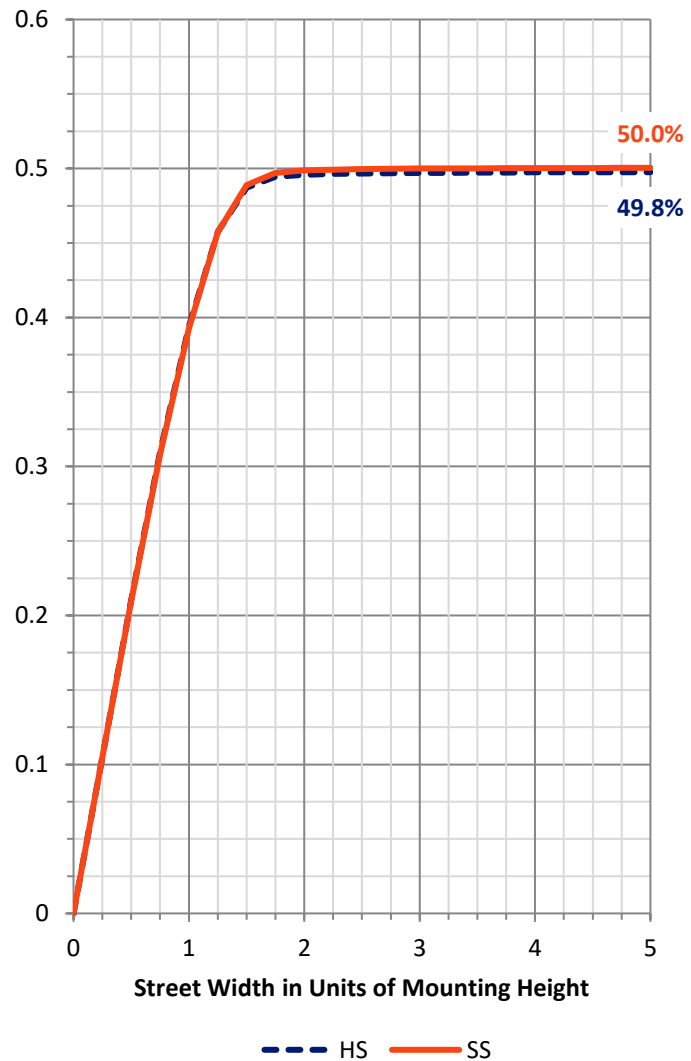
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6578.5	0.0	6578.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	6578.5	0.0	6578.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	13157.0	0.0	13157.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	211.2	1.6
10°-20°	683.8	5.2
20°-30°	1340.2	10.2
30°-40°	2409.9	18.3
40°-50°	4125.4	31.4
50°-60°	3991.7	30.3
60°-70°	341.7	2.6
70°-80°	40.5	0.3
80°-90°	12.7	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°	13157.0	100.0
0°-180°	13157.0	100.0



REPORT NUMBER: P529783

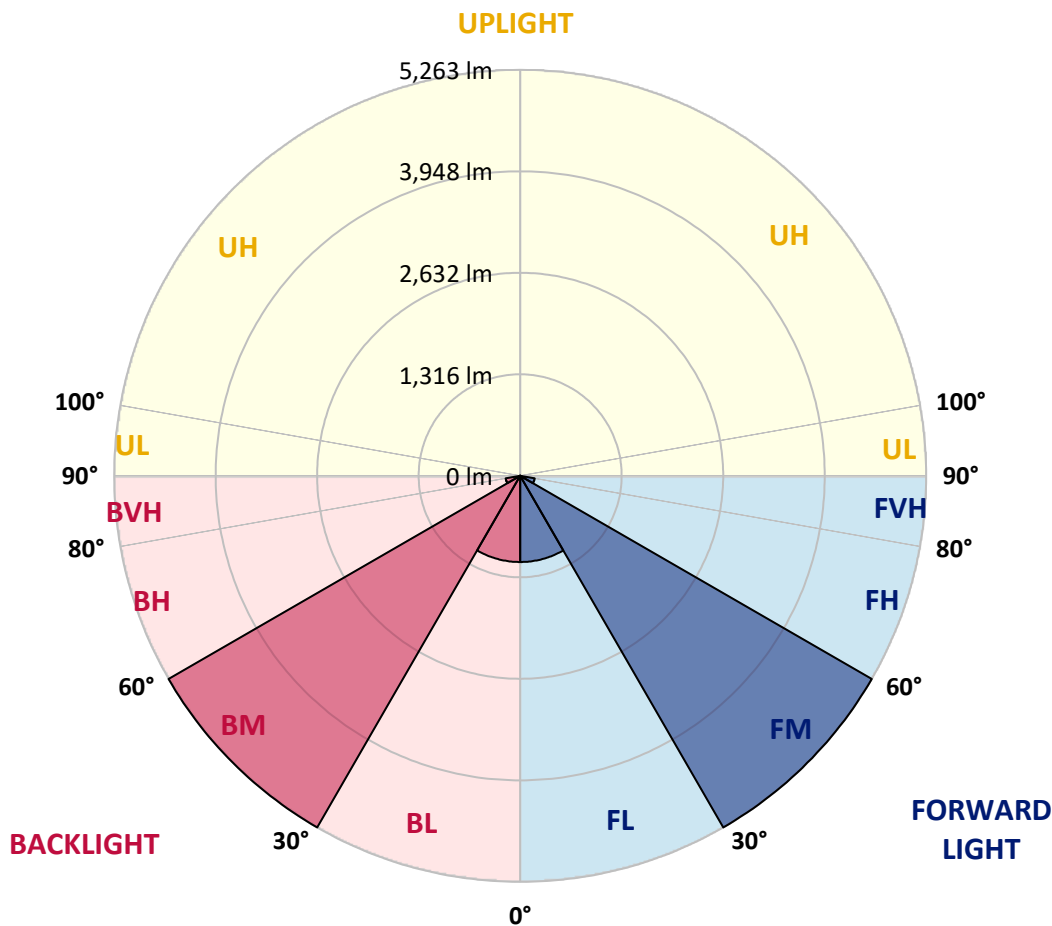
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1117.6	8.5			
FM (30°-60°)	5263.5	40.0			
FH (60°-80°)	191.1	1.5			G0/660
FVH (80°-90°)	6.4	0.0			G0/10
BL (0°-30°)	1117.6	8.5	B3/2500		
BM (30°-60°)	5263.5	40.0	B4/8500		
BH (60°-80°)	191.1	1.5	B1/500		G0/660
BVH (80°-90°)	6.4	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°	2157.3	2157.3	2157.3	2157.3	2157.3	2157.3	2157.3	2157.3	2157.3	2157.3	2157.3
2.5°	2167.8	2180.3	2171.9	2178.2	2178.2	2167.8	2174.0	2149.0	2165.7	2153.2	2155.3
5°	2201.1	2199.0	2199.0	2201.1	2192.8	2196.9	2188.6	2180.3	2174.0	2165.7	2190.7
7.5°	2242.8	2242.8	2228.2	2232.4	2228.2	2234.5	2217.8	2201.1	2194.9	2188.6	2184.4
10°	2282.4	2278.2	2272.0	2290.7	2276.1	2267.8	2259.5	2249.1	2226.1	2217.8	2209.4
12.5°	2340.8	2338.7	2330.3	2349.1	2340.8	2349.1	2317.8	2290.7	2286.6	2259.5	2274.1
15°	2409.5	2428.3	2413.7	2413.7	2409.5	2399.1	2386.6	2374.1	2336.6	2326.2	2328.3
17.5°	2499.2	2492.9	2495.0	2495.0	2515.9	2488.8	2463.7	2432.5	2413.7	2407.5	2386.6
20°	2584.6	2593.0	2590.9	2605.5	2618.0	2588.8	2561.7	2557.5	2505.4	2513.8	2484.6
22.5°	2734.7	2728.5	2738.9	2749.3	2741.0	2736.8	2711.8	2680.5	2634.7	2613.8	2609.6
25°	2893.1	2882.7	2863.9	2889.0	2901.5	2920.2	2872.3	2855.6	2784.7	2753.5	2755.6
27.5°	3028.6	3043.2	3064.0	3074.5	3105.7	3099.5	3066.1	3011.9	2957.7	2922.3	2899.4
30°	3214.1	3222.5	3257.9	3272.5	3326.7	3341.3	3289.2	3226.6	3130.7	3084.9	3057.8
32.5°	3385.0	3443.4	3441.3	3514.3	3601.8	3662.3	3568.5	3472.6	3376.7	3322.5	3274.6
35°	3662.3	3651.8	3712.3	3789.4	3931.1	3999.9	3897.8	3787.3	3641.4	3553.9	3516.4
37.5°	3920.7	3924.9	4006.2	4129.2	4291.7	4398.1	4308.4	4127.1	3977.0	3864.4	3812.3
40°	4295.9	4304.3	4387.6	4527.3	4710.7	4825.4	4721.1	4537.7	4337.6	4250.1	4250.1
42.5°	4735.7	4771.2	4825.4	4946.2	5110.9	5238.1	5144.3	5000.4	4798.3	4685.7	4702.4
45°	5188.0	5204.7	5240.1	5419.4	5496.5	5559.1	5471.5	5404.8	5269.3	5131.8	5108.8
47.5°	5611.2	5617.4	5721.6	5777.9	5838.4	5786.3	5842.5	5755.0	5602.8	5469.4	5442.3
50°	5798.8	5788.3	5936.3	6107.2	6153.1	6061.4	6013.4	5955.1	5723.7	5563.2	5492.4
52.5°	5252.6	5313.1	5588.2	6063.5	6422.0	6499.1	6219.8	5950.9	5519.5	5206.8	5158.9
54°	4627.3	4683.6	4910.8	5615.3	6361.5	6622.1	6171.9	5600.7	4992.1	4621.1	4573.1
55°	4008.3	3945.7	4358.4	5077.6	6078.1	6513.7	5982.2	5148.4	4452.2	4112.5	4045.8
57.5°	2169.8	2180.3	2528.4	3207.9	4270.9	4994.2	4410.6	3483.0	2630.5	2249.1	2215.7
60°	687.8	704.5	856.7	1296.5	2040.6	2436.6	2088.6	1398.6	967.2	775.4	744.1
62.5°	214.7	223.0	243.9	362.7	558.6	798.3	625.3	375.2	279.3	256.4	260.5
65°	131.3	131.3	133.4	141.7	166.8	193.8	187.6	164.7	158.4	154.2	152.2
67.5°	85.5	83.4	87.5	93.8	98.0	100.1	106.3	112.6	110.5	106.3	106.3
70°	52.1	50.0	54.2	62.5	64.6	68.8	75.0	83.4	81.3	77.1	79.2
72.5°	29.2	29.2	31.3	37.5	43.8	47.9	54.2	60.4	62.5	60.4	60.4
75°	10.4	12.5	16.7	22.9	27.1	33.4	39.6	45.9	52.1	47.9	45.9
77.5°	4.2	4.2	8.3	14.6	20.8	27.1	37.5	43.8	47.9	43.8	39.6
80°	2.1	2.1	6.3	12.5	18.8	25.0	31.3	37.5	39.6	35.4	31.3
82.5°	2.1	2.1	6.3	12.5	18.8	22.9	33.4	37.5	41.7	37.5	31.3
85°	0.0	2.1	6.3	12.5	16.7	18.8	18.8	12.5	10.4	6.3	6.3
87.5°	0.0	0.0	2.1	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)