

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: P528848

Luminaire Tested: **GALN-SA4A-727-U-5NQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528848  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4A-727-U-5NQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13628 lumens  
Efficiency: N/A  
Efficacy: 112.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G1

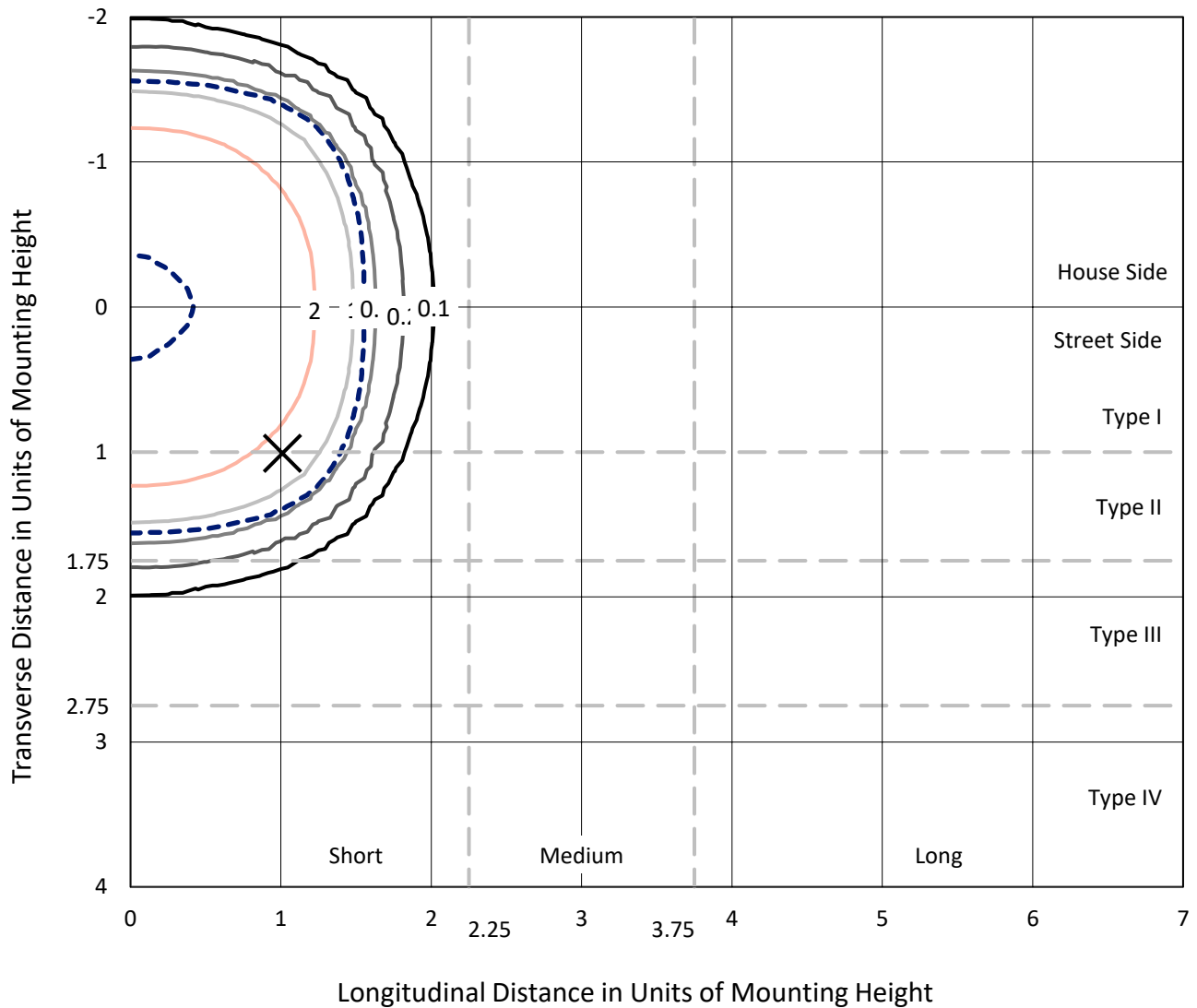
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

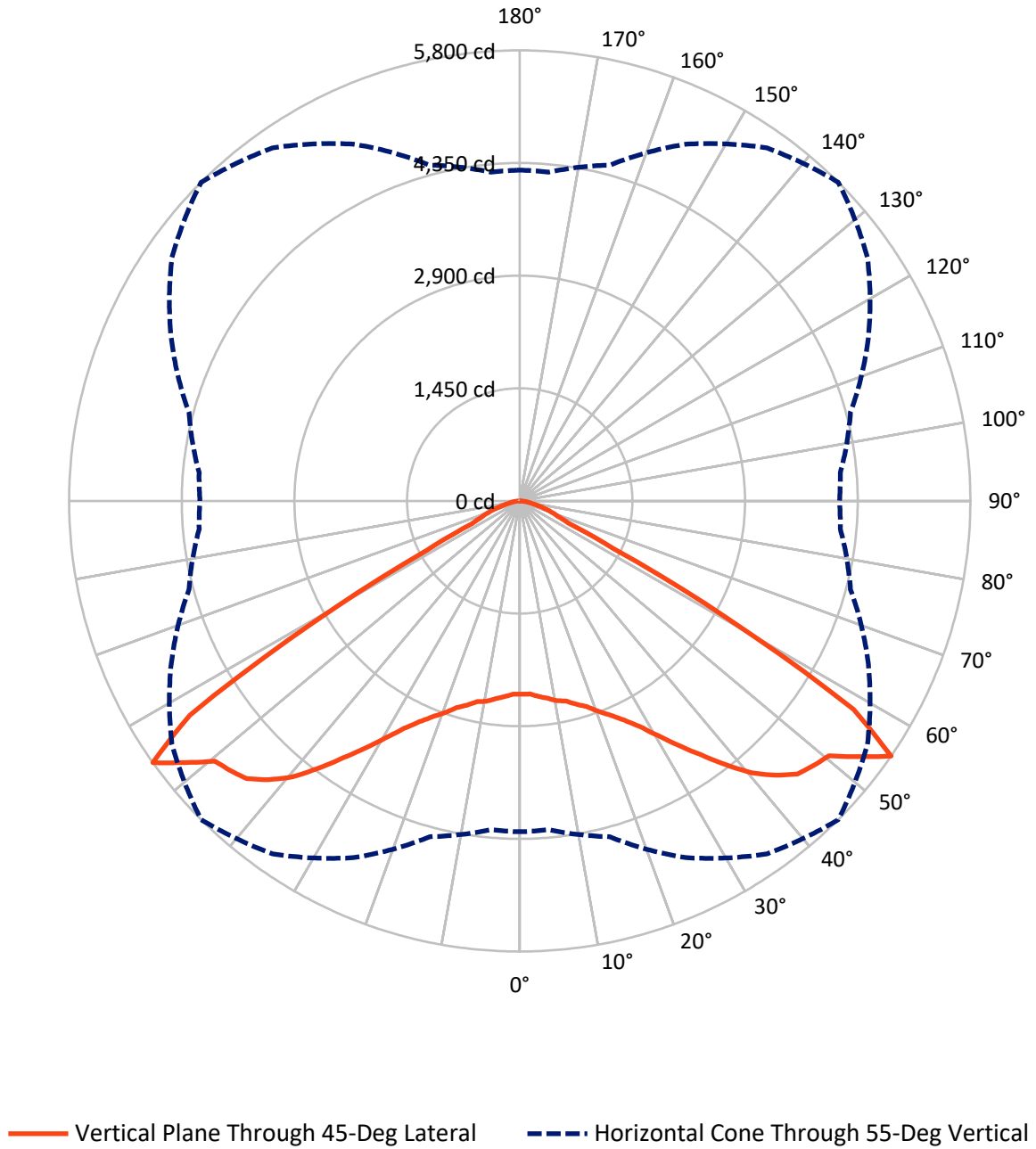
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



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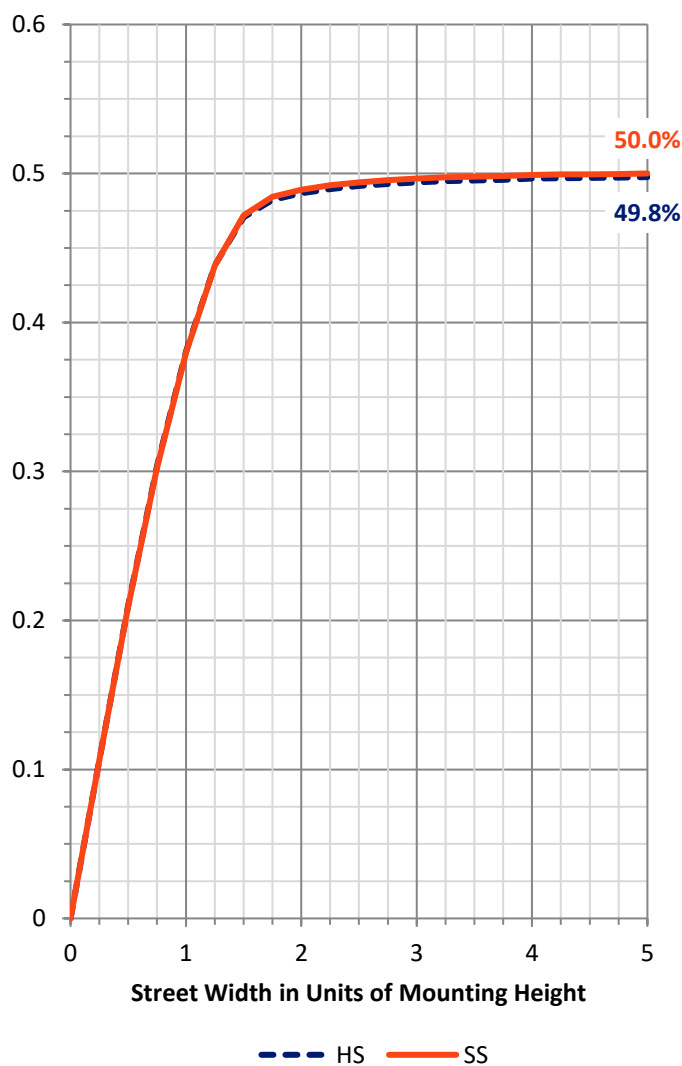
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6814.0	0.0	6814.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	6814.0	0.0	6814.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	13628.0	0.0	13628.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	243.1	1.8
10°-20°	770.2	5.7
20°-30°	1436.2	10.5
30°-40°	2404.6	17.6
40°-50°	3741.8	27.5
50°-60°	3885.2	28.5
60°-70°	823.9	6.0
70°-80°	271.3	2.0
80°-90°	51.7	0.4
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°	13628.0	100.0
0°-180°	13628.0	100.0

**Coefficient of Utilization**



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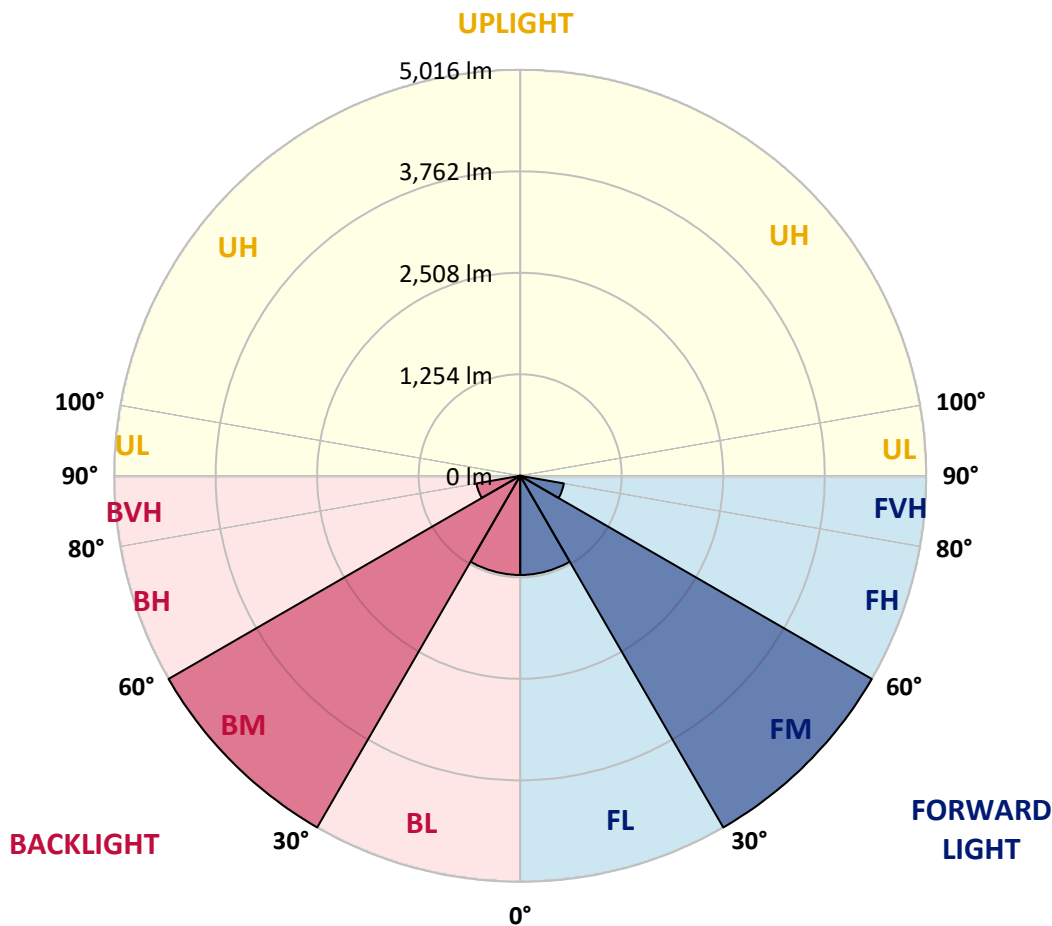
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1224.7	9.0			
FM (30°-60°)	5015.8	36.8			
FH (60°-80°)	547.6	4.0			G0/660
FVH (80°-90°)	25.8	0.2			G1/100
BL (0°-30°)	1224.7	9.0	B3/2500		
BM (30°-60°)	5015.8	36.8	B4/8500		
BH (60°-80°)	547.6	4.0	B2/1000		G0/660
BVH (80°-90°)	25.8	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°	2488.3	2488.3	2488.3	2488.3	2488.3	2488.3	2488.3	2488.3	2488.3	2488.3	2488.3
2.5°	2517.9	2506.4	2486.6	2501.4	2513.0	2488.3	2498.2	2503.1	2499.8	2486.6	2491.6
5°	2554.1	2547.6	2531.1	2542.6	2527.8	2527.8	2517.9	2504.7	2524.5	2521.2	2529.4
7.5°	2554.1	2545.9	2578.8	2557.4	2564.0	2564.0	2547.6	2534.4	2544.3	2529.4	2521.2
10°	2605.2	2616.7	2601.9	2606.8	2603.5	2615.1	2590.4	2582.1	2573.9	2569.0	2559.1
12.5°	2666.1	2657.9	2662.8	2659.5	2671.1	2641.4	2626.6	2608.5	2623.3	2601.9	2616.7
15°	2715.5	2710.6	2715.5	2728.7	2717.2	2715.5	2689.2	2671.1	2648.0	2652.9	2629.9
17.5°	2783.0	2778.1	2779.7	2791.3	2789.6	2781.4	2761.6	2727.1	2718.8	2705.6	2690.8
20°	2883.5	2875.3	2872.0	2876.9	2885.1	2891.7	2852.2	2839.0	2811.0	2789.6	2764.9
22.5°	2969.1	2965.8	2979.0	2957.6	2975.7	2995.5	2957.6	2951.0	2881.8	2870.3	2844.0
25°	3087.7	3082.8	3074.5	3105.8	3127.2	3125.6	3089.3	3053.1	3000.4	2987.2	2987.2
27.5°	3212.8	3184.9	3227.7	3235.9	3273.8	3285.3	3254.0	3201.3	3151.9	3123.9	3130.5
30°	3369.3	3342.9	3352.8	3412.1	3461.5	3504.3	3425.3	3347.9	3278.7	3229.3	3221.1
32.5°	3525.7	3499.4	3529.0	3586.7	3685.5	3749.7	3672.3	3537.3	3456.6	3384.1	3398.9
35°	3652.5	3672.3	3720.1	3807.3	3909.4	4013.2	3889.7	3785.9	3670.7	3590.0	3601.5
37.5°	3856.7	3917.7	3955.5	4056.0	4200.9	4308.0	4179.5	4044.5	3921.0	3815.6	3779.3
40°	4123.5	4164.7	4207.5	4326.1	4497.3	4604.4	4482.5	4306.3	4184.4	4075.8	4070.8
42.5°	4416.6	4456.2	4500.6	4645.5	4747.6	4828.3	4716.3	4622.5	4487.4	4401.8	4396.9
45°	4757.5	4729.5	4778.9	4874.4	4960.1	5012.8	4940.3	4894.2	4797.0	4718.0	4709.8
47.5°	4984.8	4960.1	5049.0	5134.6	5147.8	5090.2	5105.0	5147.8	5045.7	4915.6	4956.8
50°	5116.5	5116.5	5175.8	5254.8	5230.1	5156.0	5273.0	5276.3	5174.2	5058.9	5058.9
52.5°	4887.6	4938.7	5106.6	5365.2	5447.5	5468.9	5442.6	5330.6	5063.8	4828.3	4816.8
55°	4258.5	4247.0	4474.3	5067.1	5546.3	5799.9	5464.0	4948.5	4406.8	4141.6	4115.3
57.5°	2769.9	2783.0	3122.3	3726.6	4591.2	5063.8	4497.3	3772.8	3122.3	2756.7	2791.3
60°	1246.6	1291.1	1496.9	1948.1	2690.8	3076.2	2697.4	2046.9	1571.0	1363.5	1381.6
62.5°	716.3	724.6	732.8	869.5	1146.2	1355.3	1190.6	918.9	810.2	774.0	774.0
65°	604.4	599.4	601.1	612.6	642.2	685.1	666.9	642.2	645.5	642.2	637.3
67.5°	513.8	520.4	515.4	523.7	525.3	531.9	543.4	553.3	555.0	558.3	555.0
70°	421.6	423.2	426.5	433.1	434.7	439.7	456.2	464.4	469.3	469.3	475.9
72.5°	322.8	321.1	324.4	331.0	339.2	340.9	355.7	367.2	373.8	365.6	367.2
75°	212.4	214.1	219.0	224.0	235.5	247.0	252.0	263.5	265.1	268.4	260.2
77.5°	126.8	130.1	135.0	144.9	154.8	164.7	176.2	184.4	187.7	184.4	174.6
80°	82.3	82.3	88.9	97.2	108.7	116.9	123.5	130.1	135.0	130.1	126.8
82.5°	51.0	51.0	59.3	69.2	77.4	82.3	92.2	100.5	105.4	102.1	97.2
85°	26.3	28.0	34.6	42.8	49.4	52.7	51.0	46.1	41.2	39.5	36.2
87.5°	8.2	8.2	9.9	9.9	8.2	8.2	9.9	8.2	9.9	9.9	9.9
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)