

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: P529159

Luminaire Tested: **GALN-SA4B-740-U-5NQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529159  
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-SA4B-740-U-5NQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 4000K, 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: 15463.9 lumens  
Efficiency: N/A  
Efficacy: 94.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G0

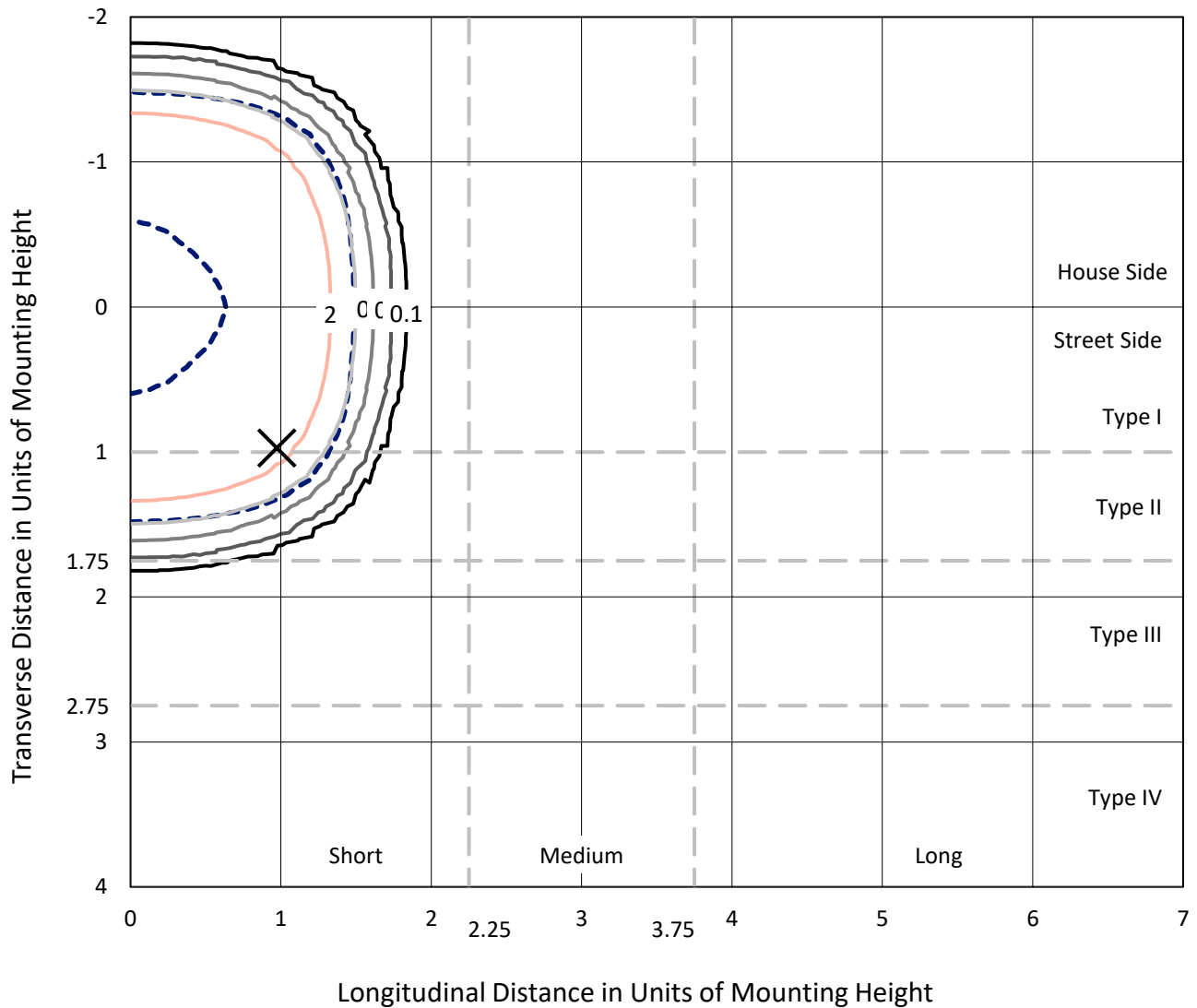
Input Watts (W): 164  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

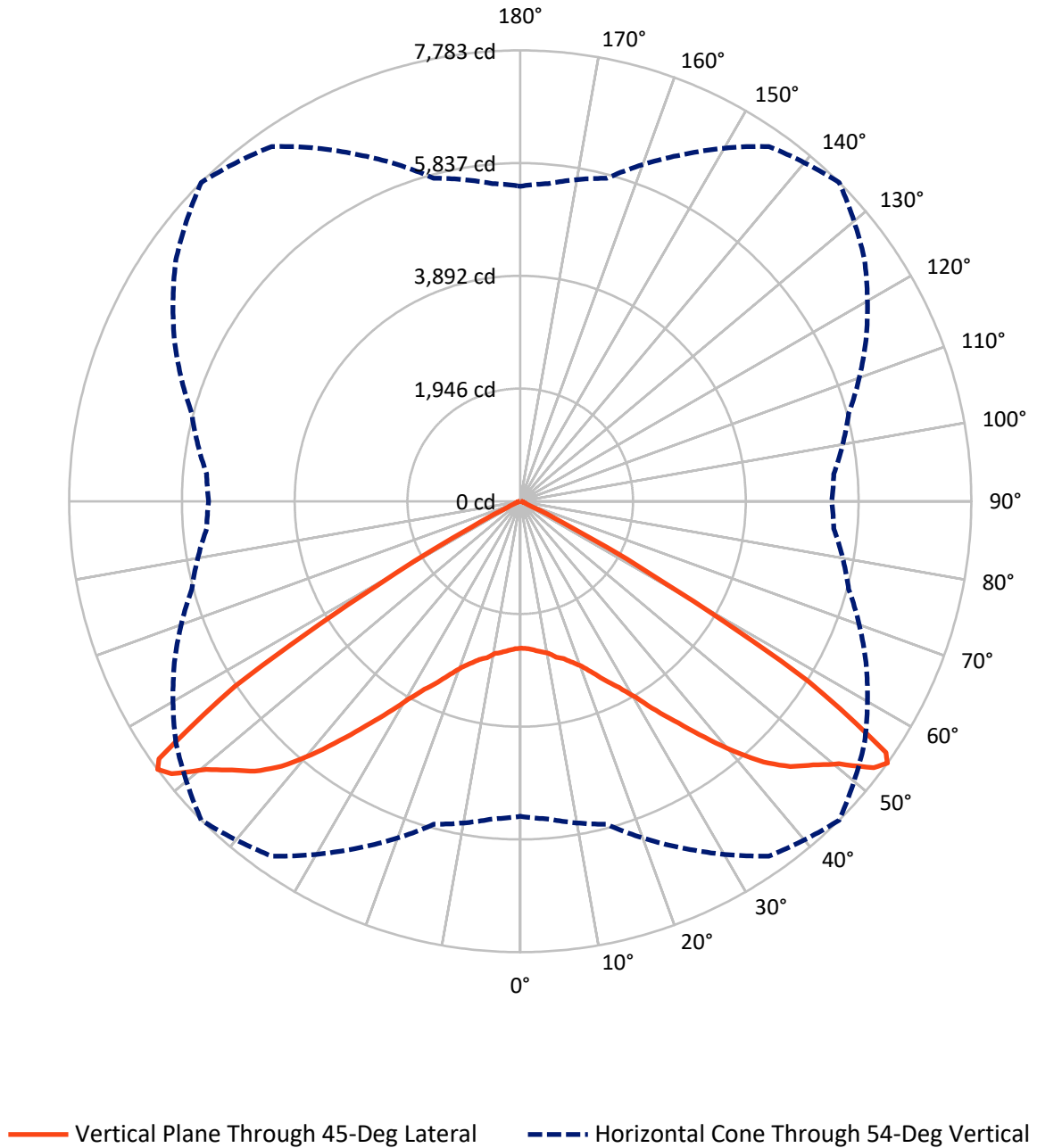
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



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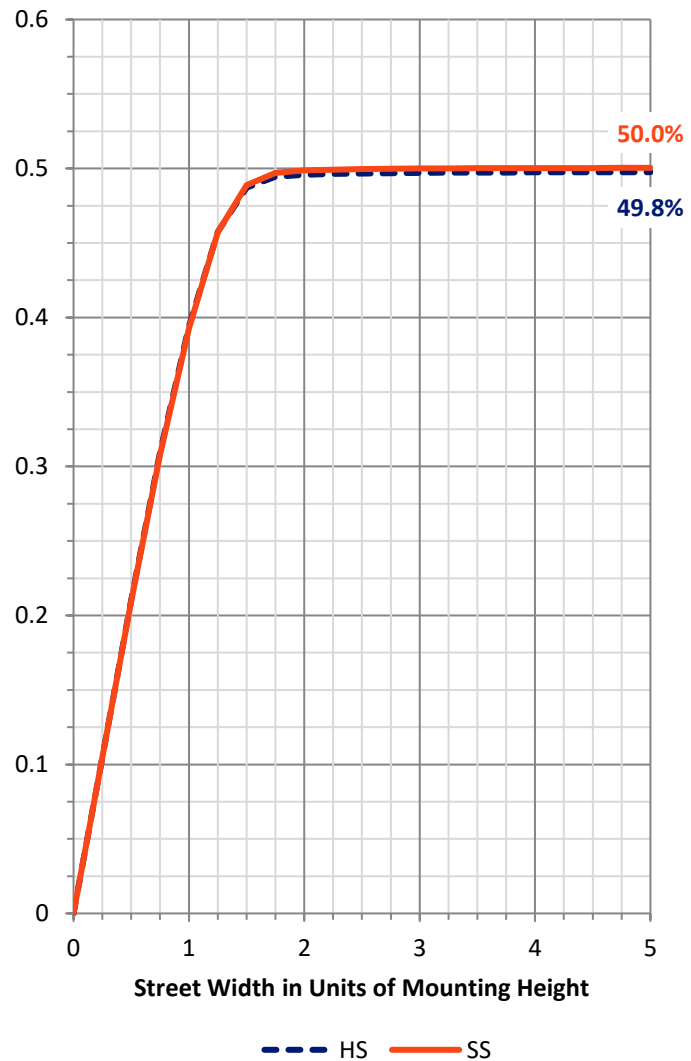
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7732.0	0.0	7732.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	7732.0	0.0	7732.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	15463.9	0.0	15463.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	248.2	1.6
10°-20°	803.7	5.2
20°-30°	1575.2	10.2
30°-40°	2832.5	18.3
40°-50°	4848.7	31.4
50°-60°	4691.6	30.3
60°-70°	401.6	2.6
70°-80°	47.6	0.3
80°-90°	14.9	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°	15463.9	100.0
0°-180°	15463.9	100.0



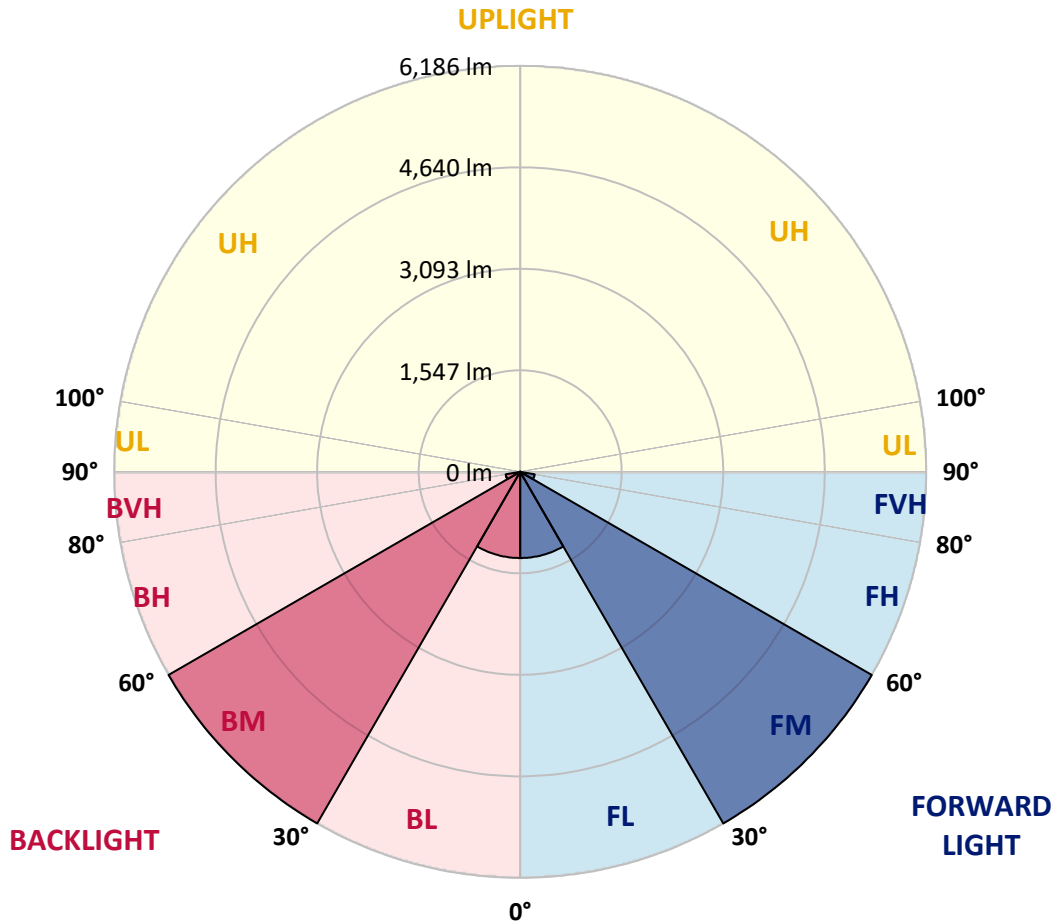
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1313.5	8.5			
FM (30°-60°)	6186.4	40.0			
FH (60°-80°)	224.6	1.5			G0/660
FVH (80°-90°)	7.5	0.0			G0/10
BL (0°-30°)	1313.5	8.5	B3/2500		
BM (30°-60°)	6186.4	40.0	B4/8500		
BH (60°-80°)	224.6	1.5	B1/500		G0/660
BVH (80°-90°)	7.5	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°	2535.6	2535.6	2535.6	2535.6	2535.6	2535.6	2535.6	2535.6	2535.6	2535.6	2535.6
2.5°	2547.9	2562.6	2552.8	2560.1	2560.1	2547.9	2555.2	2525.8	2545.4	2530.7	2533.2
5°	2587.1	2584.6	2584.6	2587.1	2577.3	2582.2	2572.4	2562.6	2555.2	2545.4	2574.8
7.5°	2636.1	2636.1	2618.9	2623.8	2618.9	2626.3	2606.7	2587.1	2579.7	2572.4	2567.5
10°	2682.6	2677.7	2670.4	2692.4	2675.3	2665.5	2655.7	2643.4	2616.5	2606.7	2596.9
12.5°	2751.2	2748.8	2739.0	2761.0	2751.2	2761.0	2724.3	2692.4	2687.5	2655.7	2672.8
15°	2832.0	2854.1	2836.9	2836.9	2832.0	2819.8	2805.1	2790.4	2746.3	2734.1	2736.5
17.5°	2937.4	2930.0	2932.5	2932.5	2957.0	2925.1	2895.7	2859.0	2836.9	2829.6	2805.1
20°	3037.8	3047.6	3045.2	3062.3	3077.0	3042.7	3010.9	3006.0	2944.7	2954.5	2920.2
22.5°	3214.2	3206.9	3219.1	3231.4	3221.6	3216.7	3187.3	3150.5	3096.6	3072.1	3067.2
25°	3400.4	3388.2	3366.1	3395.5	3410.2	3432.3	3375.9	3356.3	3273.0	3236.3	3238.7
27.5°	3559.7	3576.8	3601.3	3613.6	3650.3	3643.0	3603.8	3540.1	3476.4	3434.7	3407.8
30°	3777.7	3787.5	3829.1	3846.3	3910.0	3927.1	3865.9	3792.4	3679.7	3625.8	3594.0
32.5°	3978.6	4047.2	4044.7	4130.5	4233.4	4304.4	4194.2	4081.5	3968.8	3905.1	3848.7
35°	4304.4	4292.2	4363.2	4453.9	4620.5	4701.3	4581.3	4451.4	4279.9	4177.0	4132.9
37.5°	4608.2	4613.1	4708.6	4853.2	5044.3	5169.2	5063.9	4850.7	4674.3	4542.1	4480.8
40°	5049.2	5059.0	5157.0	5321.1	5536.7	5671.4	5549.0	5333.4	5098.2	4995.3	4995.3
42.5°	5566.1	5607.7	5671.4	5813.5	6007.1	6156.5	6046.3	5877.2	5639.6	5507.3	5526.9
45°	6097.7	6117.3	6159.0	6369.7	6460.3	6533.8	6430.9	6352.5	6193.3	6031.6	6004.6
47.5°	6595.0	6602.4	6724.9	6791.0	6862.1	6800.8	6867.0	6764.1	6585.2	6428.5	6396.6
50°	6815.5	6803.3	6977.2	7178.1	7232.0	7124.2	7067.9	6999.3	6727.3	6538.7	6455.4
52.5°	6173.7	6244.7	6568.1	7126.7	7548.0	7638.7	7310.4	6994.4	6487.3	6119.8	6063.4
54°	5438.7	5504.9	5771.9	6599.9	7477.0	7783.2	7254.1	6582.8	5867.4	5431.4	5375.0
55°	4711.1	4637.6	5122.7	5967.9	7143.8	7655.8	7031.1	6051.2	5232.9	4833.6	4755.2
57.5°	2550.3	2562.6	2971.7	3770.3	5019.8	5869.9	5183.9	4093.7	3091.7	2643.4	2604.2
60°	808.5	828.1	1006.9	1523.8	2398.4	2863.9	2454.8	1643.9	1136.7	911.4	874.6
62.5°	252.3	262.1	286.6	426.3	656.6	938.3	735.0	441.0	328.3	301.3	306.2
65°	154.3	154.3	156.8	166.6	196.0	227.8	220.5	193.5	186.2	181.3	178.8
67.5°	100.4	98.0	102.9	110.2	115.1	117.6	124.9	132.3	129.8	124.9	124.9
70°	61.2	58.8	63.7	73.5	75.9	80.8	88.2	98.0	95.5	90.6	93.1
72.5°	34.3	34.3	36.7	44.1	51.4	56.3	63.7	71.0	73.5	71.0	71.0
75°	12.2	14.7	19.6	26.9	31.8	39.2	46.5	53.9	61.2	56.3	53.9
77.5°	4.9	4.9	9.8	17.1	24.5	31.8	44.1	51.4	56.3	51.4	46.5
80°	2.4	2.4	7.3	14.7	22.0	29.4	36.7	44.1	46.5	41.6	36.7
82.5°	2.4	2.4	7.3	14.7	22.0	26.9	39.2	44.1	49.0	44.1	36.7
85°	0.0	2.4	7.3	14.7	19.6	22.0	22.0	14.7	12.2	7.3	7.3
87.5°	0.0	0.0	2.4	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)