

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: P529107

Luminaire Tested: **GALN-SA4B-730-U-5NQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529107  
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-730-U-5NQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3000K, 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: 14083 lumens  
Efficiency: N/A  
Efficacy: 85.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G0

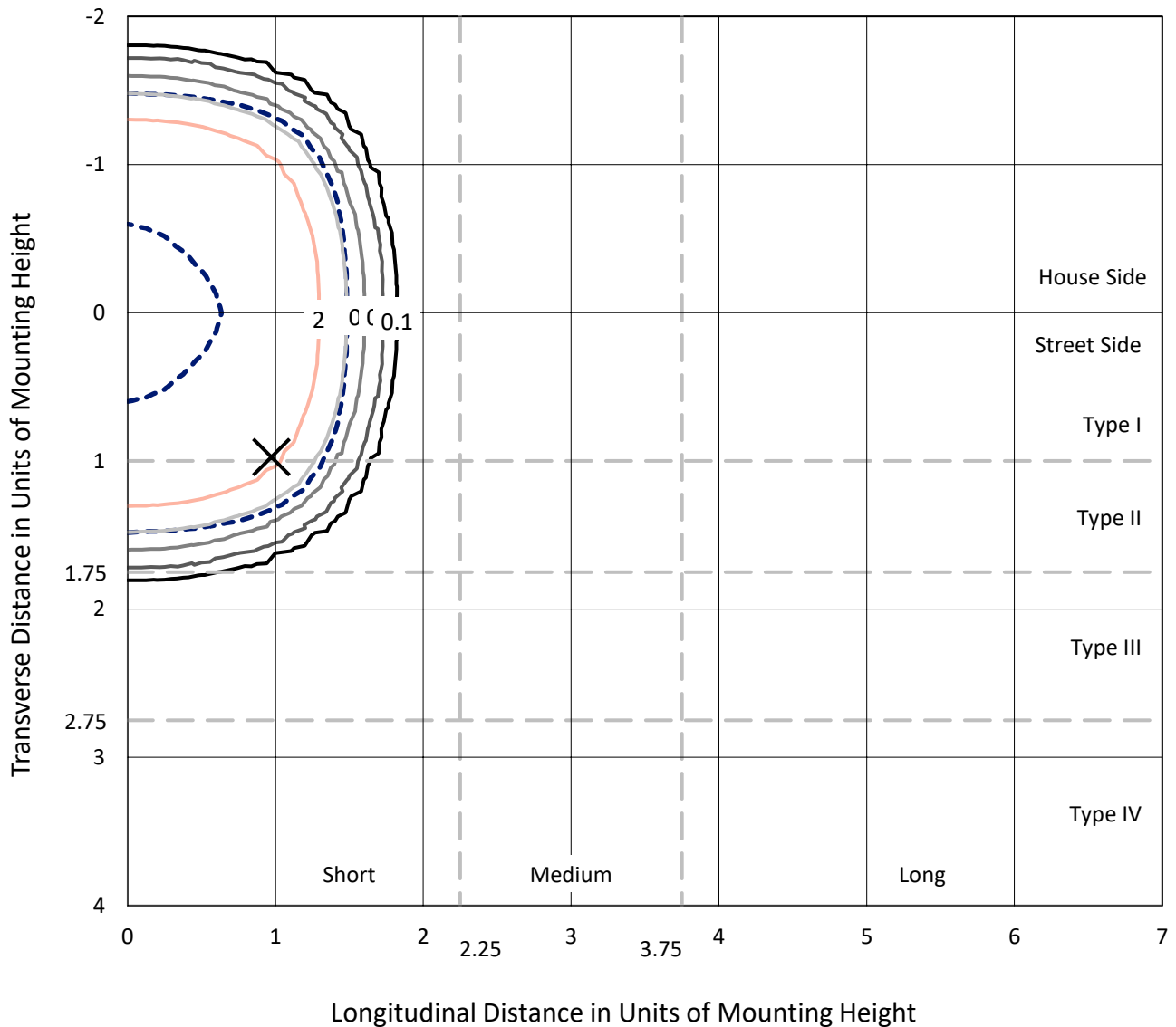
Input Watts (W): 164  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

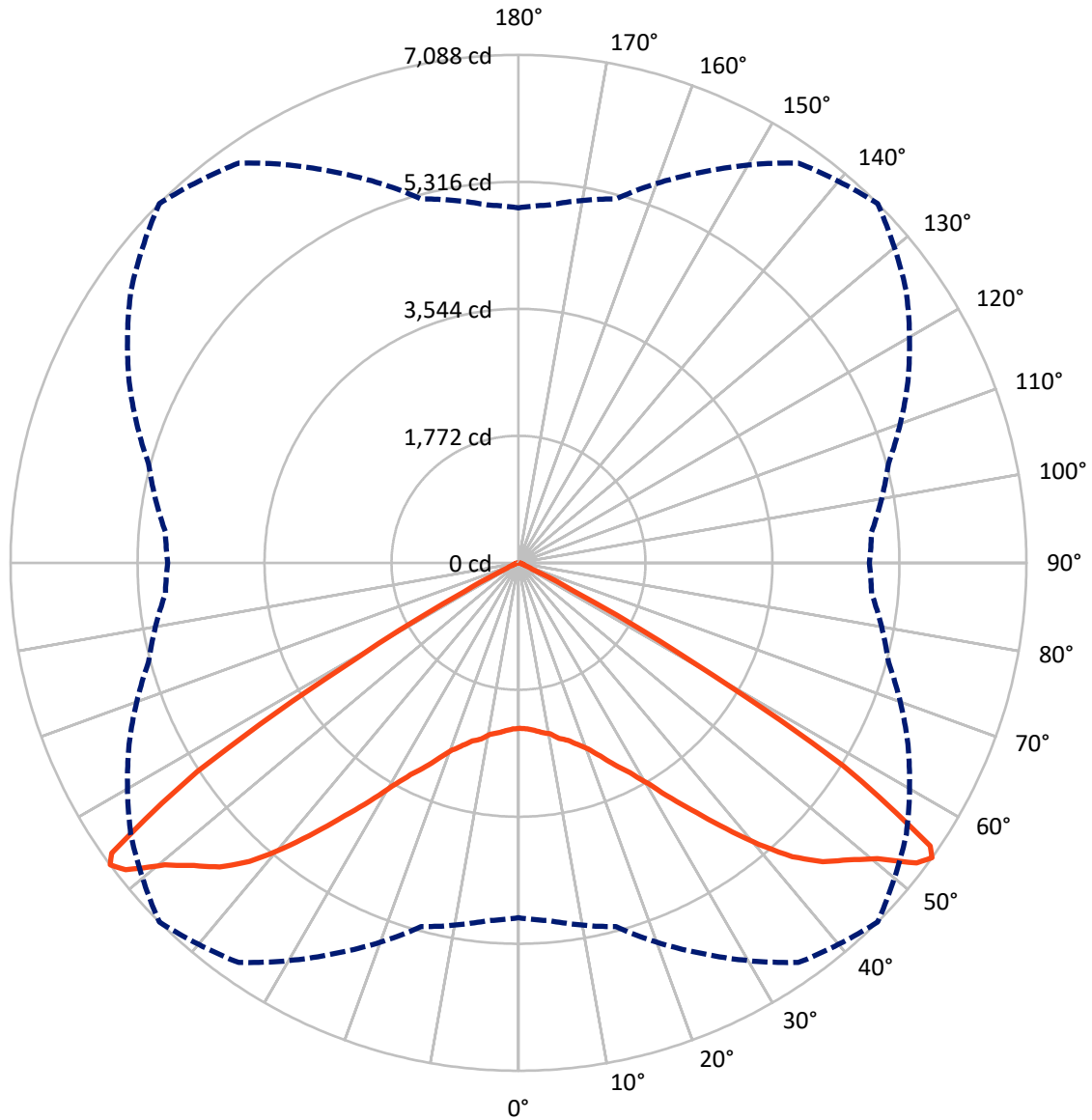
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 54-Deg Vertical

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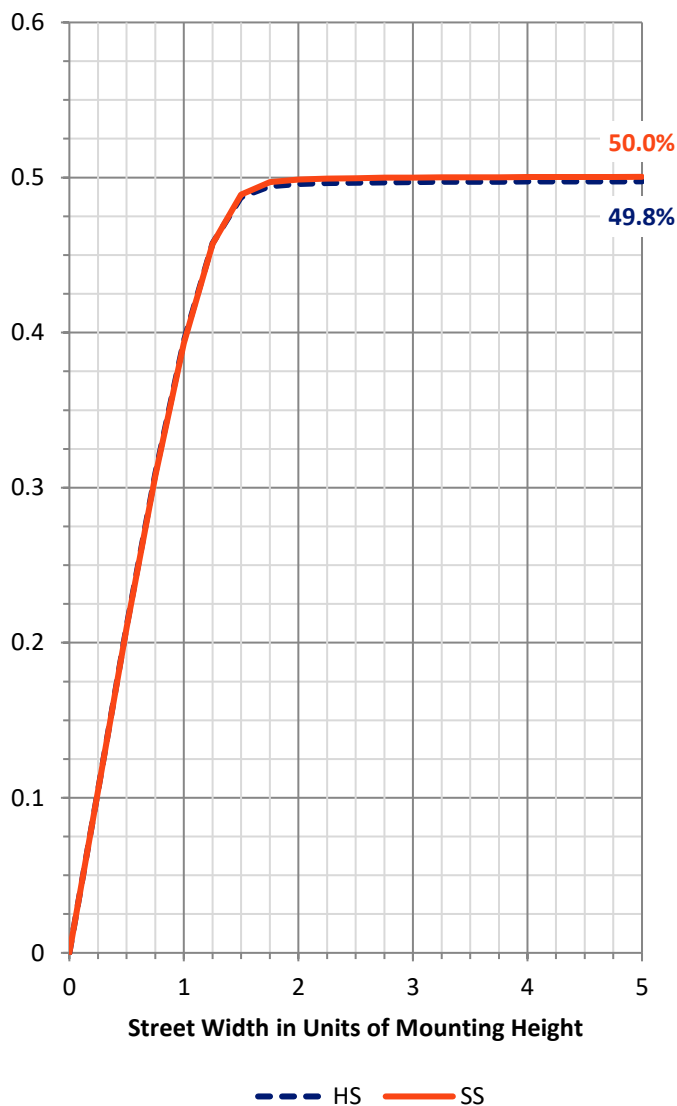
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7041.5	0.0	7041.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	7041.5	0.0	7041.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	14083.0	0.0	14083.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	226.0	1.6
10°-20°	731.9	5.2
20°-30°	1434.5	10.2
30°-40°	2579.6	18.3
40°-50°	4415.7	31.4
50°-60°	4272.6	30.3
60°-70°	365.8	2.6
70°-80°	43.4	0.3
80°-90°	13.6	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°	14083.0	100.0
0°-180°	14083.0	100.0

**Coefficient of Utilization**

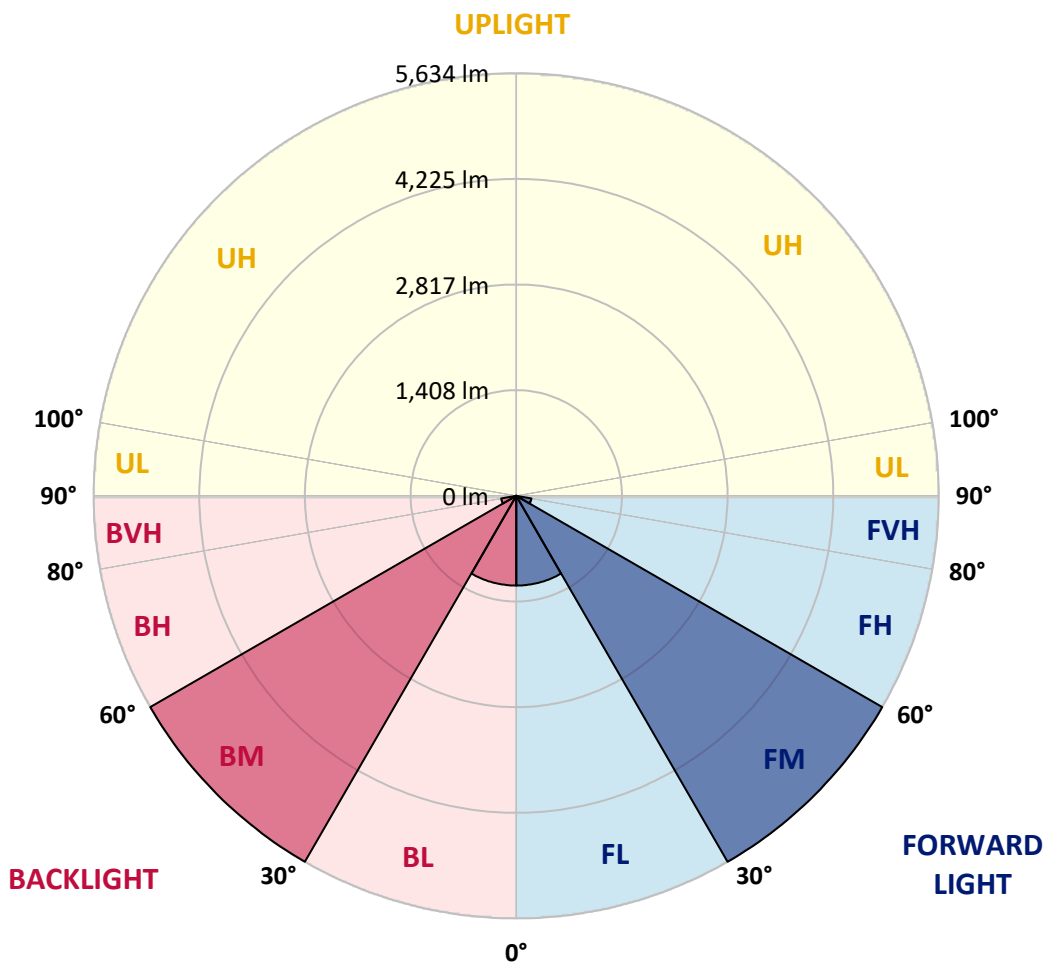


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1196.2	8.5			
FM (30°-60°)	5633.9	40.0			
FH (60°-80°)	204.6	1.5			G0/660
FVH (80°-90°)	6.8	0.0			G0/10
BL (0°-30°)	1196.2	8.5	B3/2500		
BM (30°-60°)	5633.9	40.0	B4/8500		
BH (60°-80°)	204.6	1.5	B1/500		G0/660
BVH (80°-90°)	6.8	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°	2309.2	2309.2	2309.2	2309.2	2309.2	2309.2	2309.2	2309.2	2309.2	2309.2	2309.2
2.5°	2320.3	2333.7	2324.8	2331.5	2331.5	2320.3	2327.0	2300.2	2318.1	2304.7	2306.9
5°	2356.0	2353.8	2353.8	2356.0	2347.1	2351.6	2342.6	2333.7	2327.0	2318.1	2344.9
7.5°	2400.6	2400.6	2385.0	2389.5	2385.0	2391.7	2373.9	2356.0	2349.3	2342.6	2338.2
10°	2443.0	2438.6	2431.9	2452.0	2436.3	2427.4	2418.5	2407.3	2382.8	2373.9	2365.0
12.5°	2505.5	2503.3	2494.4	2514.4	2505.5	2514.4	2481.0	2452.0	2447.5	2418.5	2434.1
15°	2579.1	2599.2	2583.6	2583.6	2579.1	2568.0	2554.6	2541.2	2501.0	2489.9	2492.1
17.5°	2675.1	2668.4	2670.6	2670.6	2692.9	2663.9	2637.1	2603.7	2583.6	2576.9	2554.6
20°	2766.5	2775.5	2773.2	2788.9	2802.2	2771.0	2742.0	2737.5	2681.8	2690.7	2659.5
22.5°	2927.2	2920.5	2931.6	2942.8	2933.9	2929.4	2902.6	2869.2	2820.1	2797.8	2793.3
25°	3096.7	3085.6	3065.5	3092.3	3105.7	3125.8	3074.4	3056.6	2980.7	2947.3	2949.5
27.5°	3241.8	3257.4	3279.7	3290.9	3324.3	3317.6	3281.9	3223.9	3165.9	3128.0	3103.4
30°	3440.3	3449.3	3487.2	3502.8	3560.8	3576.4	3520.7	3453.7	3351.1	3302.0	3273.0
32.5°	3623.3	3685.8	3683.5	3761.6	3855.3	3920.0	3819.6	3717.0	3614.4	3556.3	3505.0
35°	3920.0	3908.9	3973.6	4056.1	4207.8	4281.5	4172.1	4053.9	3897.7	3804.0	3763.8
37.5°	4196.7	4201.1	4288.1	4419.8	4593.8	4707.6	4611.7	4417.5	4256.9	4136.4	4080.7
40°	4598.3	4607.2	4696.4	4845.9	5042.3	5165.0	5053.4	4857.1	4642.9	4549.2	4549.2
42.5°	5069.0	5107.0	5165.0	5294.4	5470.6	5606.7	5506.3	5352.4	5136.0	5015.5	5033.3
45°	5553.2	5571.0	5608.9	5800.8	5883.4	5950.3	5856.6	5785.2	5640.2	5492.9	5468.4
47.5°	6006.1	6012.8	6124.3	6184.6	6249.3	6193.5	6253.7	6160.0	5997.2	5854.4	5825.4
50°	6206.9	6195.7	6354.1	6537.1	6586.2	6488.0	6436.7	6374.2	6126.6	5954.8	5878.9
52.5°	5622.3	5687.0	5981.5	6490.2	6874.0	6956.5	6657.6	6369.7	5907.9	5573.3	5521.9
54°	4953.0	5013.2	5256.4	6010.5	6809.3	7088.2	6606.2	5994.9	5343.4	4946.3	4895.0
55°	4290.4	4223.4	4665.2	5434.9	6505.8	6972.1	6403.2	5510.8	4765.6	4401.9	4330.5
57.5°	2322.6	2333.7	2706.3	3433.6	4571.5	5345.7	4721.0	3728.1	2815.6	2407.3	2371.6
60°	736.3	754.1	917.0	1387.7	2184.2	2608.1	2235.5	1497.1	1035.2	830.0	796.5
62.5°	229.8	238.7	261.0	388.2	597.9	854.5	669.3	401.6	299.0	274.4	278.9
65°	140.6	140.6	142.8	151.7	178.5	207.5	200.8	176.3	169.6	165.1	162.9
67.5°	91.5	89.2	93.7	100.4	104.9	107.1	113.8	120.5	118.2	113.8	113.8
70°	55.8	53.5	58.0	66.9	69.2	73.6	80.3	89.2	87.0	82.6	84.8
72.5°	31.2	31.2	33.5	40.2	46.9	51.3	58.0	64.7	66.9	64.7	64.7
75°	11.2	13.4	17.8	24.5	29.0	35.7	42.4	49.1	55.8	51.3	49.1
77.5°	4.5	4.5	8.9	15.6	22.3	29.0	40.2	46.9	51.3	46.9	42.4
80°	2.2	2.2	6.7	13.4	20.1	26.8	33.5	40.2	42.4	37.9	33.5
82.5°	2.2	2.2	6.7	13.4	20.1	24.5	35.7	40.2	44.6	40.2	33.5
85°	0.0	2.2	6.7	13.4	17.8	20.1	20.1	13.4	11.2	6.7	6.7
87.5°	0.0	0.0	2.2	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)