

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: P650831

Luminaire Tested: **GALN-SA4C-840-U-5NQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P650831  
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-SA4C-840-U-5NQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 4000K, 1050mA 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: 16068.2 lumens  
Efficiency: N/A  
Efficacy: 75.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G0

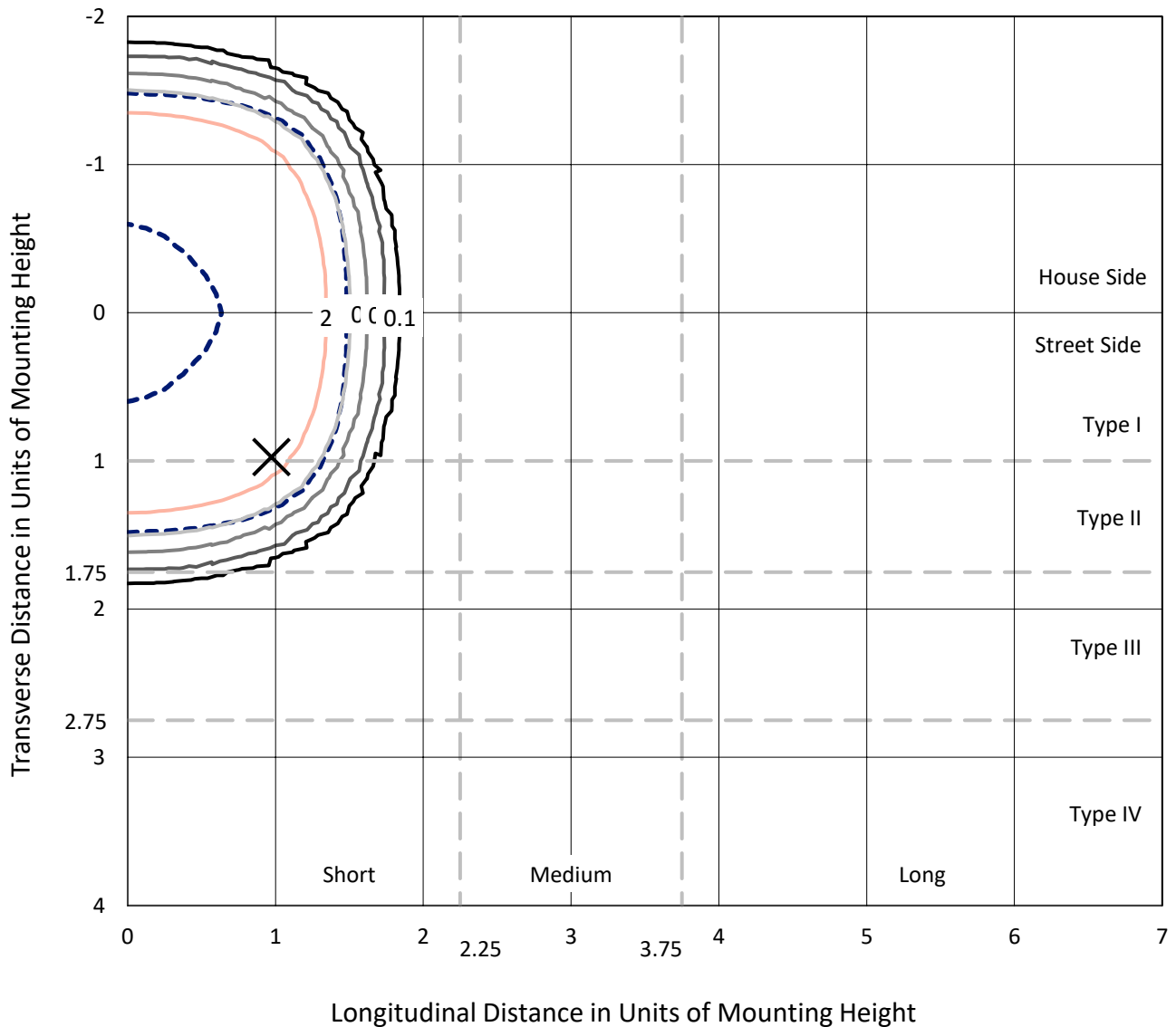
Input Watts (W): 213  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

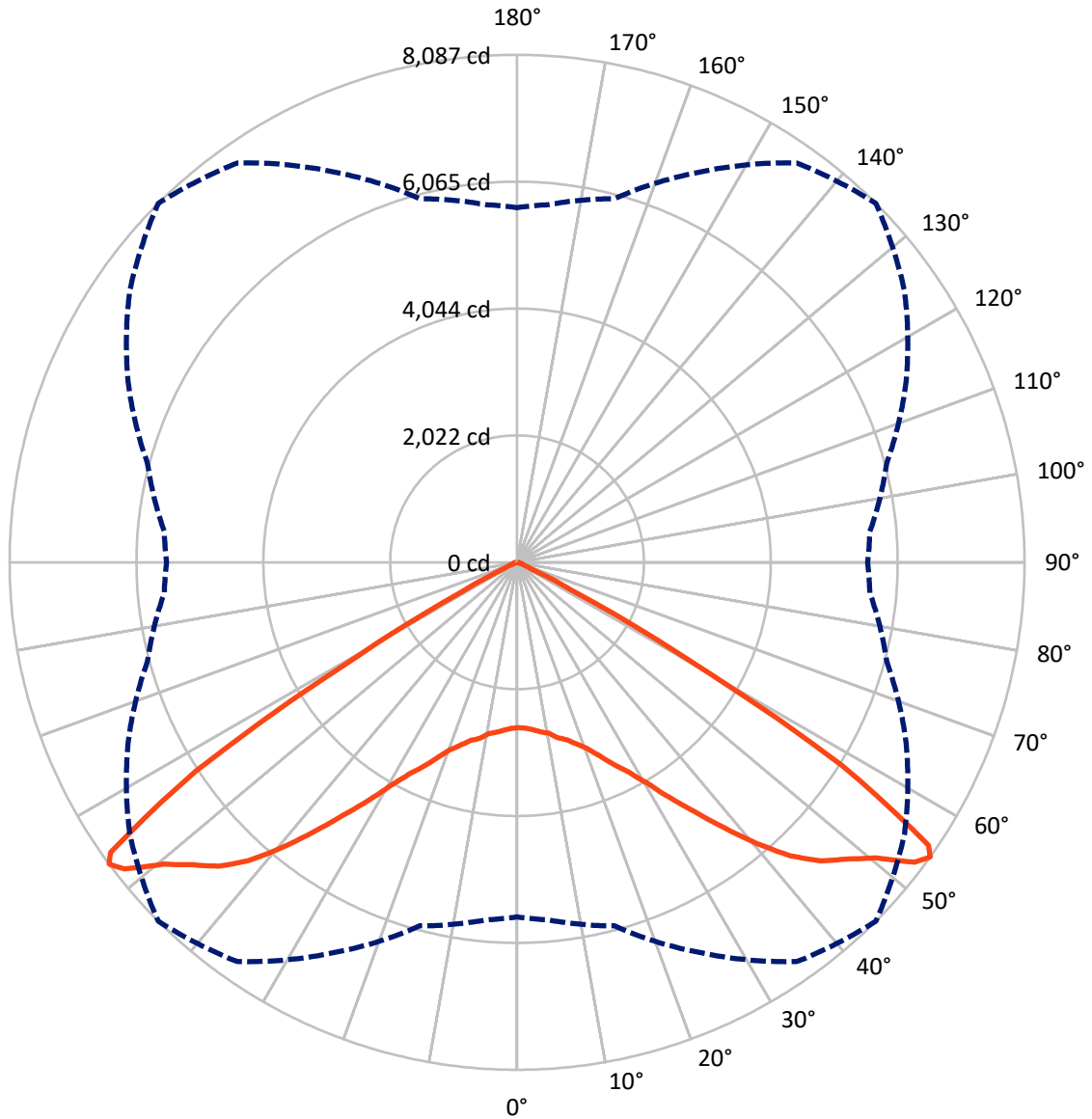
× Max cd  
 - - - 1/2 Max cd



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



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

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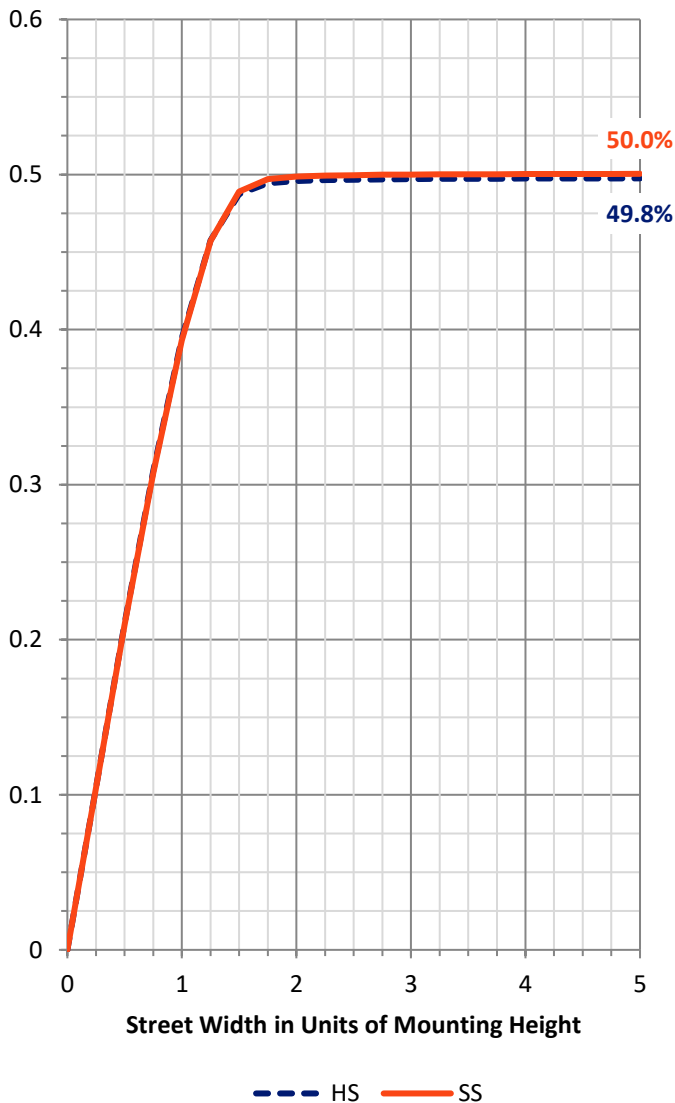
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8034.1	0.0	8034.1
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	8034.1	0.0	8034.1
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	16068.2	0.0	16068.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	257.9	1.6
10°-20°	835.1	5.2
20°-30°	1636.7	10.2
30°-40°	2943.2	18.3
40°-50°	5038.1	31.4
50°-60°	4874.9	30.3
60°-70°	417.3	2.6
70°-80°	49.5	0.3
80°-90°	15.5	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°	16068.2	100.0
0°-180°	16068.2	100.0

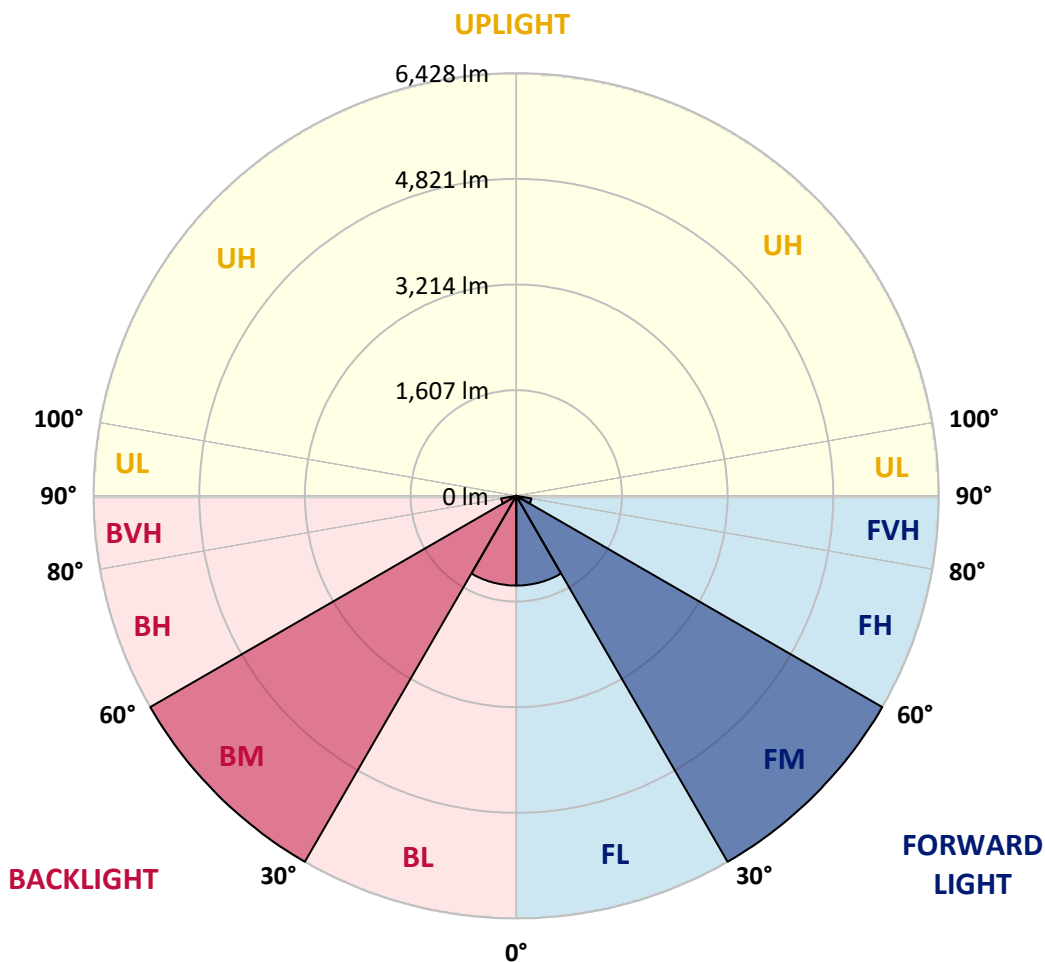


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1364.8	8.5			
FM (30°-60°)	6428.1	40.0			
FH (60°-80°)	233.4	1.5			G0/660
FVH (80°-90°)	7.8	0.0			G0/10
BL (0°-30°)	1364.8	8.5	B3/2500		
BM (30°-60°)	6428.1	40.0	B4/8500		
BH (60°-80°)	233.4	1.5	B1/500		G0/660
BVH (80°-90°)	7.8	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°	2634.7	2634.7	2634.7	2634.7	2634.7	2634.7	2634.7	2634.7	2634.7	2634.7	2634.7
2.5°	2647.4	2662.7	2652.5	2660.2	2660.2	2647.4	2655.0	2624.5	2644.9	2629.6	2632.2
5°	2688.2	2685.6	2685.6	2688.2	2677.9	2683.0	2672.9	2662.7	2655.0	2644.9	2675.4
7.5°	2739.1	2739.1	2721.2	2726.4	2721.2	2728.9	2708.5	2688.2	2680.5	2672.9	2667.7
10°	2787.4	2782.3	2774.7	2797.6	2779.8	2769.6	2759.4	2746.7	2718.7	2708.5	2698.3
12.5°	2858.7	2856.1	2845.9	2868.9	2858.7	2868.9	2830.7	2797.6	2792.5	2759.4	2777.2
15°	2942.7	2965.6	2947.8	2947.8	2942.7	2930.0	2914.7	2899.4	2853.6	2840.9	2843.4
17.5°	3052.2	3044.5	3047.0	3047.0	3072.5	3039.5	3008.8	2970.7	2947.8	2940.1	2914.7
20°	3156.5	3166.7	3164.2	3182.0	3197.2	3161.6	3128.5	3123.4	3059.8	3070.0	3034.3
22.5°	3339.8	3332.1	3344.9	3357.6	3347.4	3342.4	3311.8	3273.6	3217.6	3192.2	3187.1
25°	3533.3	3520.5	3497.6	3528.2	3543.5	3566.3	3507.8	3487.5	3400.9	3362.7	3365.3
27.5°	3698.7	3716.5	3742.0	3754.7	3792.9	3785.3	3744.6	3678.4	3612.2	3568.9	3540.9
30°	3925.3	3935.5	3978.8	3996.6	4062.8	4080.5	4017.0	3940.6	3823.4	3767.4	3734.4
32.5°	4134.0	4205.3	4202.7	4291.9	4398.8	4472.6	4358.1	4240.9	4123.8	4057.7	3999.1
35°	4472.6	4459.8	4533.7	4627.9	4800.9	4884.9	4760.2	4625.3	4447.1	4340.2	4294.4
37.5°	4788.2	4793.4	4892.6	5042.8	5241.4	5371.2	5261.7	5040.3	4856.9	4719.5	4655.9
40°	5246.4	5256.6	5358.4	5529.0	5753.0	5893.1	5765.7	5541.8	5297.4	5190.4	5190.4
42.5°	5783.6	5826.9	5893.1	6040.7	6241.7	6397.1	6282.5	6106.8	5859.9	5722.5	5742.9
45°	6335.9	6356.3	6399.6	6618.5	6712.7	6789.1	6682.2	6600.7	6435.2	6267.2	6239.2
47.5°	6852.7	6860.4	6987.6	7056.3	7130.2	7066.5	7135.3	7028.3	6842.5	6679.6	6646.5
50°	7081.8	7069.1	7249.8	7458.6	7514.6	7402.6	7344.0	7272.7	6990.1	6794.2	6707.6
52.5°	6414.9	6488.7	6824.7	7405.1	7842.9	7937.1	7596.0	7267.7	6740.7	6358.9	6300.4
54°	5651.2	5719.9	5997.4	6857.8	7769.1	8087.3	7537.5	6839.9	6096.7	5643.5	5585.0
55°	4895.1	4818.8	5322.8	6201.0	7422.9	7954.9	7305.9	6287.6	5437.3	5022.5	4941.0
57.5°	2649.9	2662.7	3087.8	3917.6	5215.9	6099.2	5386.4	4253.7	3212.5	2746.7	2705.9
60°	840.1	860.4	1046.2	1583.4	2492.1	2975.8	2550.7	1708.1	1181.2	947.0	908.8
62.5°	262.2	272.4	297.8	443.0	682.2	975.0	763.7	458.2	341.1	313.1	318.2
65°	160.4	160.4	162.9	173.1	203.6	236.7	229.1	201.1	193.4	188.4	185.9
67.5°	104.4	101.8	106.9	114.5	119.7	122.2	129.9	137.4	134.9	129.9	129.9
70°	63.7	61.1	66.2	76.4	78.9	84.0	91.7	101.8	99.2	94.2	96.7
72.5°	35.7	35.7	38.2	45.8	53.5	58.5	66.2	73.8	76.4	73.8	73.8
75°	12.7	15.3	20.4	28.0	33.1	40.7	48.4	56.0	63.7	58.5	56.0
77.5°	5.1	5.1	10.2	17.8	25.5	33.1	45.8	53.5	58.5	53.5	48.4
80°	2.5	2.5	7.7	15.3	22.9	30.5	38.2	45.8	48.4	43.3	38.2
82.5°	2.5	2.5	7.7	15.3	22.9	28.0	40.7	45.8	50.9	45.8	38.2
85°	0.0	2.5	7.7	15.3	20.4	22.9	22.9	15.3	12.7	7.7	7.7
87.5°	0.0	0.0	2.5	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)