

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: P648091

Luminaire Tested: **GALN-SA8A-835-U-RW-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648091  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8A-835-U-RW-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR  
WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18686.3 lumens  
Efficiency: N/A  
Efficacy: 76.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G1

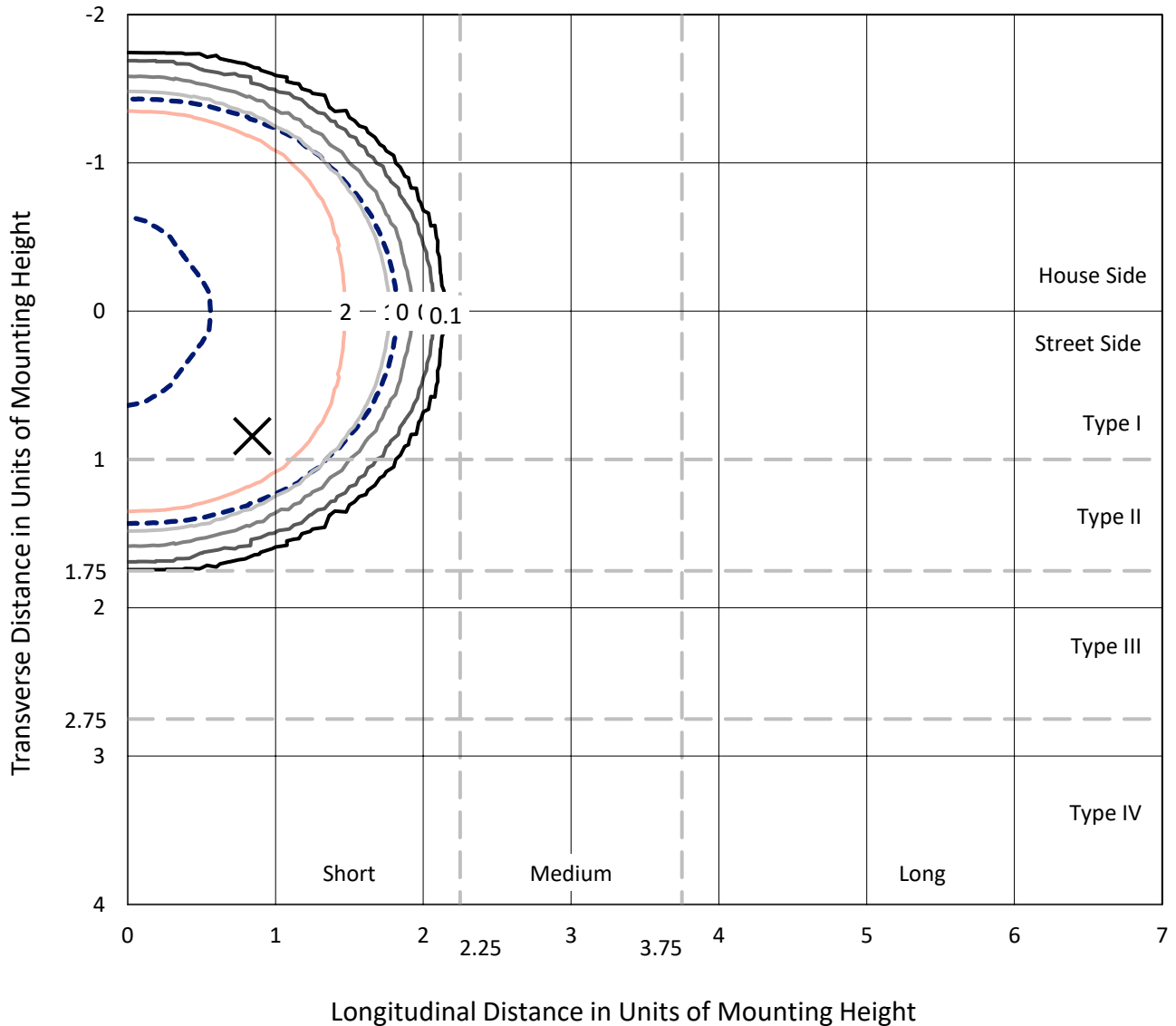
Input Watts (W): 244  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

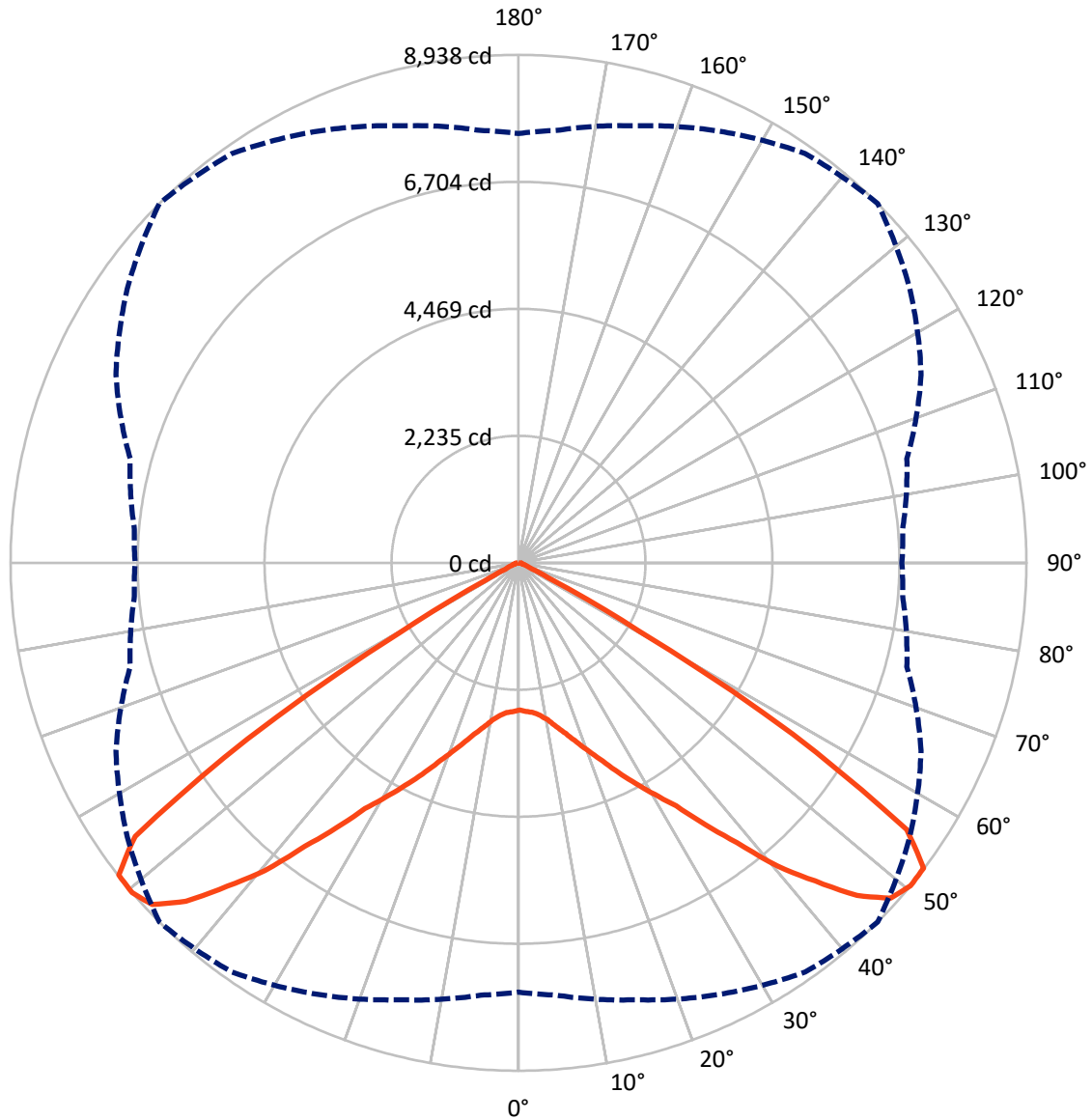
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 50-Deg Vertical

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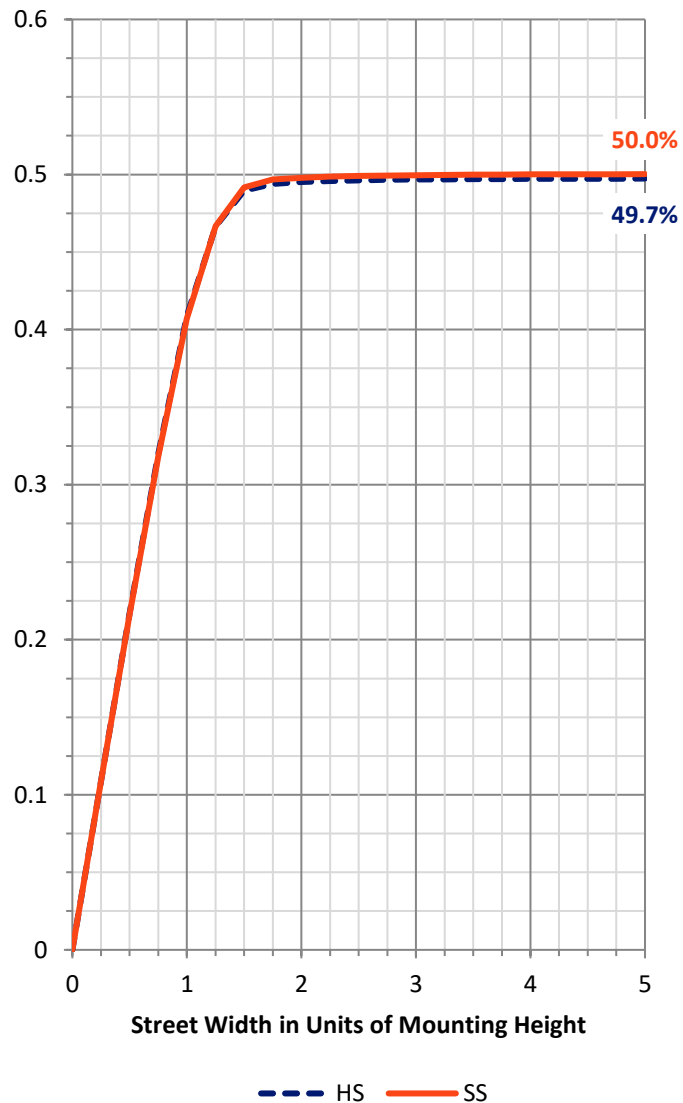
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9343.1	0.0	9343.1
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	9343.1	0.0	9343.1
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	18686.3	0.0	18686.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	257.7	1.4
10°-20°	888.3	4.8
20°-30°	1814.2	9.7
30°-40°	3459.7	18.5
40°-50°	5830.2	31.2
50°-60°	5560.1	29.8
60°-70°	776.2	4.2
70°-80°	74.2	0.4
80°-90°	25.6	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°	18686.3	100.0
0°-180°	18686.3	100.0

**Coefficient of Utilization**



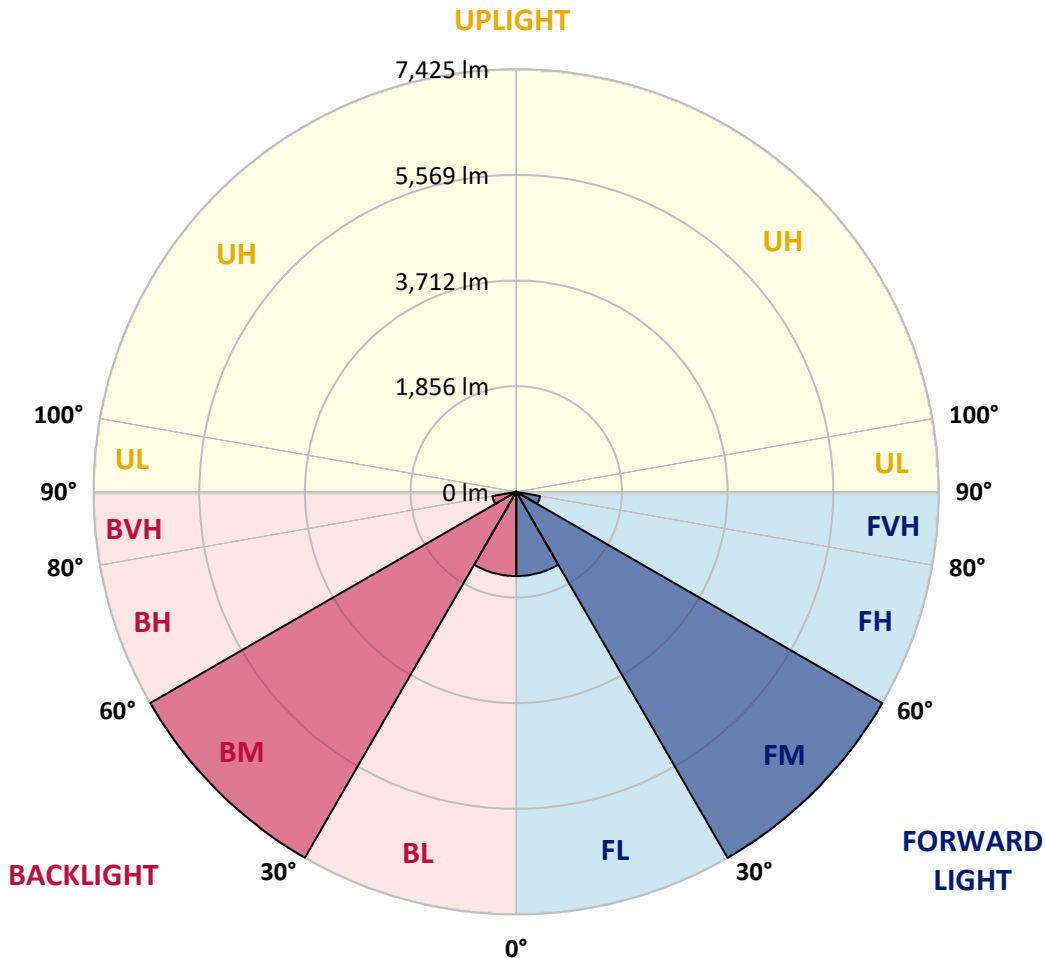
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1480.1	7.9			
FM (30°-60°)	7425.0	39.7			
FH (60°-80°)	425.2	2.3			G0/660
FVH (80°-90°)	12.8	0.1			G1/100
BL (0°-30°)	1480.1	7.9	B3/2500		
BM (30°-60°)	7425.0	39.7	B4/8500		
BH (60°-80°)	425.2	2.3	B1/500		G0/660
BVH (80°-90°)	12.8	0.1			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°	2590.6	2590.6	2590.6	2590.6	2590.6	2590.6	2590.6	2590.6	2590.6	2590.6	2590.6
2.5°	2581.2	2581.2	2578.1	2603.2	2590.6	2619.0	2615.8	2625.2	2634.6	2631.5	2656.6
5°	2559.2	2556.1	2556.1	2584.4	2612.6	2644.1	2672.4	2691.2	2722.7	2722.7	2754.1
7.5°	2581.2	2565.5	2587.5	2600.1	2653.5	2707.0	2754.1	2791.9	2864.2	2889.3	2879.9
10°	2587.5	2606.4	2622.1	2659.9	2725.9	2807.6	2848.5	2942.7	3024.5	3081.1	3093.7
12.5°	2628.4	2656.6	2700.7	2791.9	2851.6	2958.5	3015.1	3106.2	3219.5	3282.3	3326.3
15°	2707.0	2716.4	2773.0	2889.3	3018.2	3115.7	3203.7	3269.7	3379.8	3452.1	3455.2
17.5°	2807.6	2848.5	2927.1	3037.1	3172.3	3316.9	3386.1	3458.4	3499.2	3596.7	3618.7
20°	3008.8	3015.1	3090.6	3235.2	3405.0	3537.0	3587.3	3625.1	3609.3	3709.9	3728.8
22.5°	3197.5	3203.7	3298.1	3493.0	3675.3	3788.5	3810.5	3788.5	3741.3	3813.7	3819.9
25°	3389.2	3445.8	3515.0	3709.9	3936.3	4087.2	4090.3	4030.6	3933.2	3945.7	3977.2
27.5°	3687.9	3728.8	3801.1	3980.3	4228.7	4398.4	4370.2	4297.8	4172.1	4181.5	4172.1
30°	4036.9	4074.6	4134.3	4363.9	4546.2	4731.7	4772.5	4703.4	4514.8	4473.9	4521.0
32.5°	4458.2	4511.6	4621.7	4832.3	4986.4	5099.5	5127.9	5102.7	4926.6	4910.9	4942.4
35°	4970.6	5043.0	5143.6	5329.1	5454.8	5659.2	5659.2	5574.3	5414.0	5432.8	5429.6
37.5°	5511.4	5618.3	5775.5	5964.2	6133.9	6244.0	6209.3	6137.1	5976.7	5935.8	5976.7
40°	6190.6	6244.0	6442.1	6687.3	6894.8	7020.5	6872.8	6715.6	6332.0	6391.7	6501.8
42.5°	6809.9	6894.8	7045.7	7316.0	7551.9	7655.6	7479.5	7168.3	6706.2	6658.9	6740.7
45°	7338.0	7429.3	7627.4	8014.0	8262.4	8353.6	7963.7	7460.7	6932.5	6813.0	6847.6
47.5°	7690.2	7737.4	8014.0	8381.9	8608.2	8815.7	8256.1	7661.9	7039.4	6813.0	6800.4
50°	7555.0	7636.8	7960.6	8378.7	8790.6	8938.3	8403.9	7816.0	7074.0	6784.8	6747.0
52.5°	6709.3	6850.8	7212.3	7775.1	8397.6	8925.8	8608.2	7765.6	7061.4	6813.0	6869.7
55°	4668.8	4672.0	5112.1	5942.1	7042.5	8287.6	8309.6	7822.2	7143.2	6989.1	6992.3
57.5°	1876.9	1971.3	2307.7	3140.8	4156.3	5690.6	6765.9	7256.3	7152.5	7114.9	7212.3
60°	474.7	477.9	581.6	886.6	1461.9	2439.7	3543.3	4794.6	5520.9	5769.2	5803.8
62.5°	242.1	245.2	270.4	314.4	399.3	654.0	1163.3	1845.5	2625.2	3021.4	3125.1
65°	198.1	198.1	213.8	235.8	239.0	251.5	301.8	430.7	625.6	710.6	720.0
67.5°	150.9	150.9	163.5	176.1	182.4	179.2	172.9	179.2	217.0	207.5	201.2
70°	94.4	97.5	103.7	116.4	122.6	125.7	128.9	135.2	154.1	160.4	154.1
72.5°	56.6	56.6	59.7	69.1	78.6	84.9	94.4	100.6	110.0	125.7	122.6
75°	25.1	25.1	31.5	40.9	50.3	59.7	69.1	78.6	84.9	94.4	97.5
77.5°	6.3	9.4	15.7	28.3	37.7	50.3	62.9	72.3	78.6	78.6	75.5
80°	3.1	3.1	12.6	22.0	40.9	53.5	69.1	75.5	84.9	78.6	69.1
82.5°	3.1	3.1	12.6	22.0	37.7	53.5	72.3	81.7	88.0	78.6	66.0
85°	0.0	3.1	9.4	18.9	31.5	37.7	31.5	22.0	12.6	12.6	9.4
87.5°	0.0	0.0	3.1	3.1	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)