

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: P648524

Luminaire Tested: **GALN-SA7B-835-U-5WQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648524  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7B-835-U-5WQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16186.9 lumens  
Efficiency: N/A  
Efficacy: 56.6 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

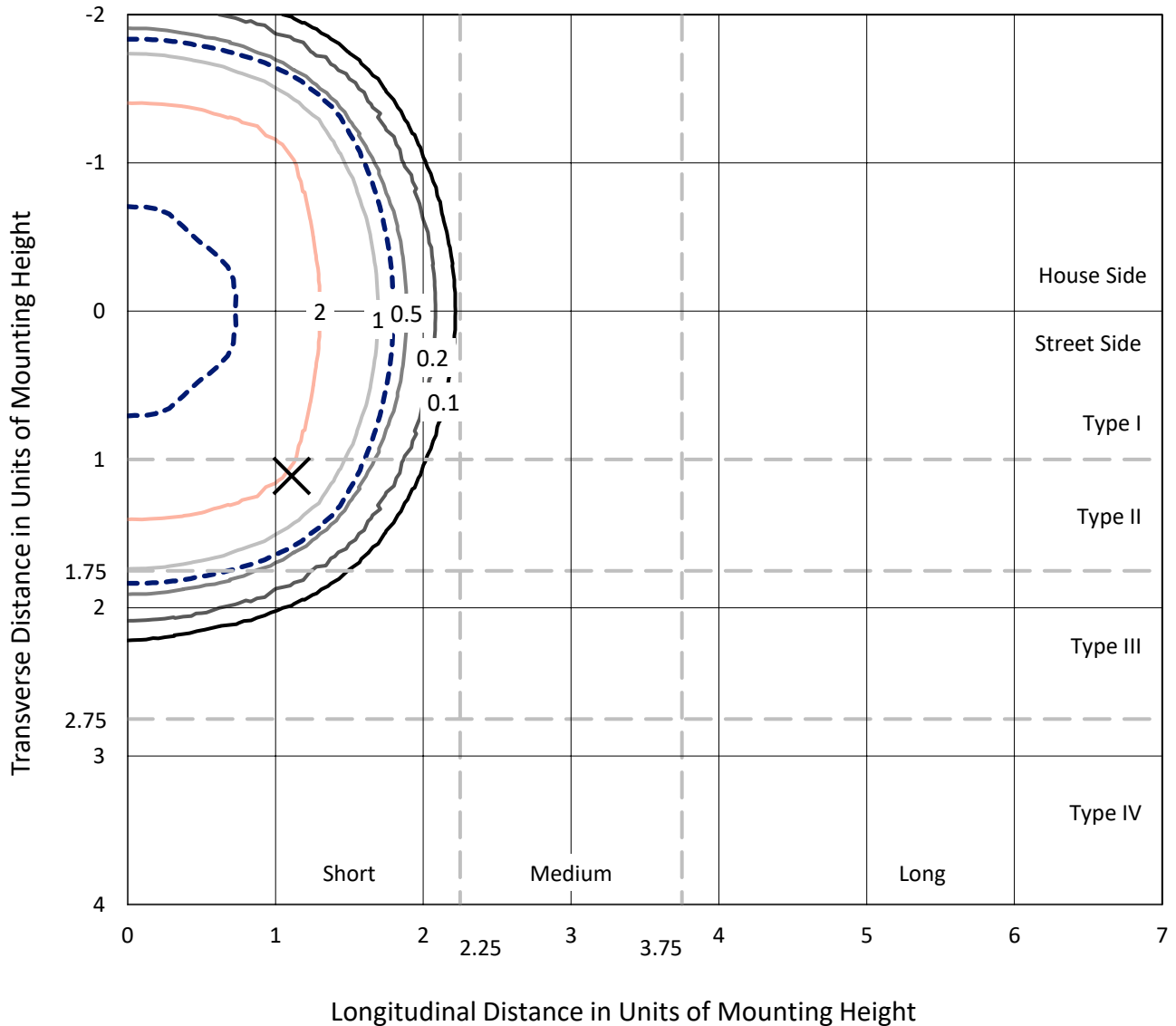
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

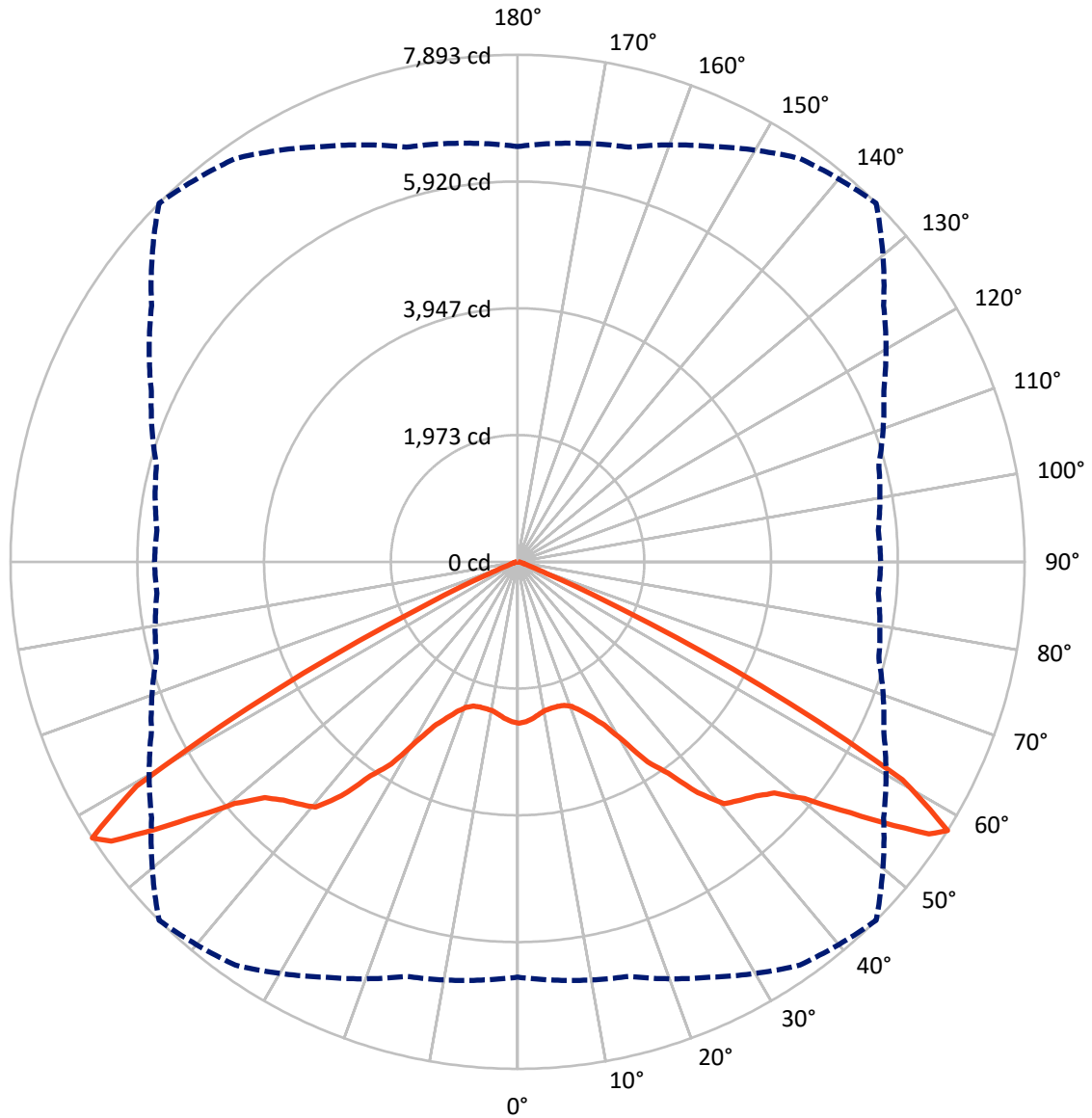
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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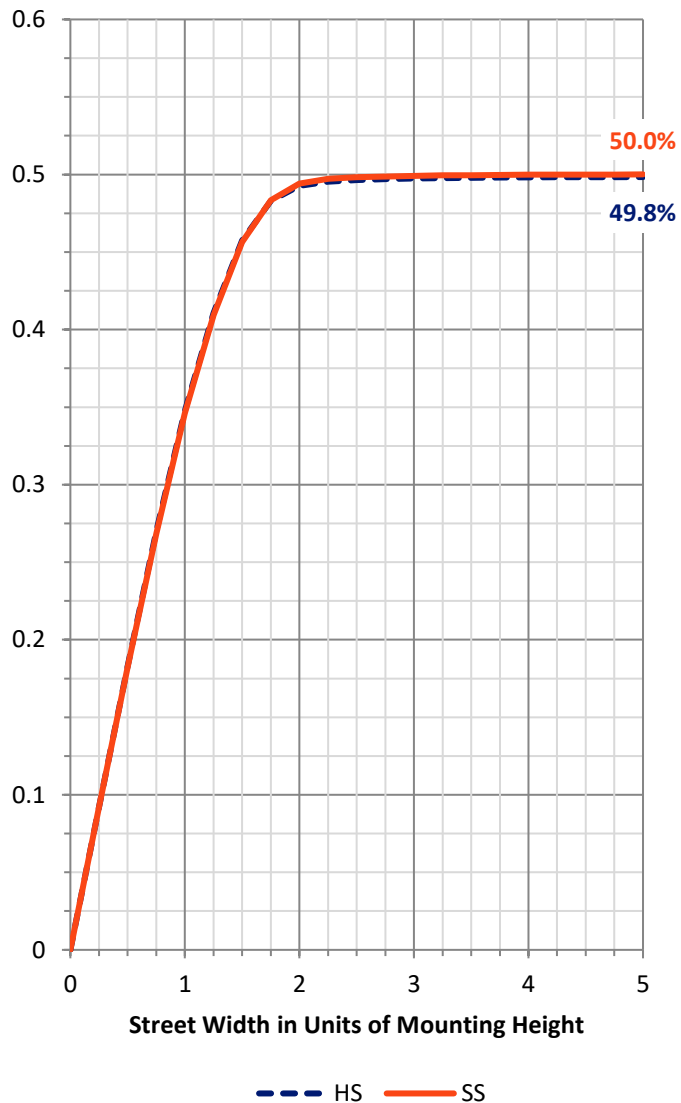
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8093.5	0.0	8093.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	8093.5	0.0	8093.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	16186.9	0.0	16186.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	230.7	1.4
10°-20°	666.9	4.1
20°-30°	1231.0	7.6
30°-40°	2420.9	15.0
40°-50°	3943.1	24.4
50°-60°	5623.3	34.7
60°-70°	1946.9	12.0
70°-80°	104.4	0.6
80°-90°	19.6	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°	16186.9	100.0
0°-180°	16186.9	100.0

**Coefficient of Utilization**

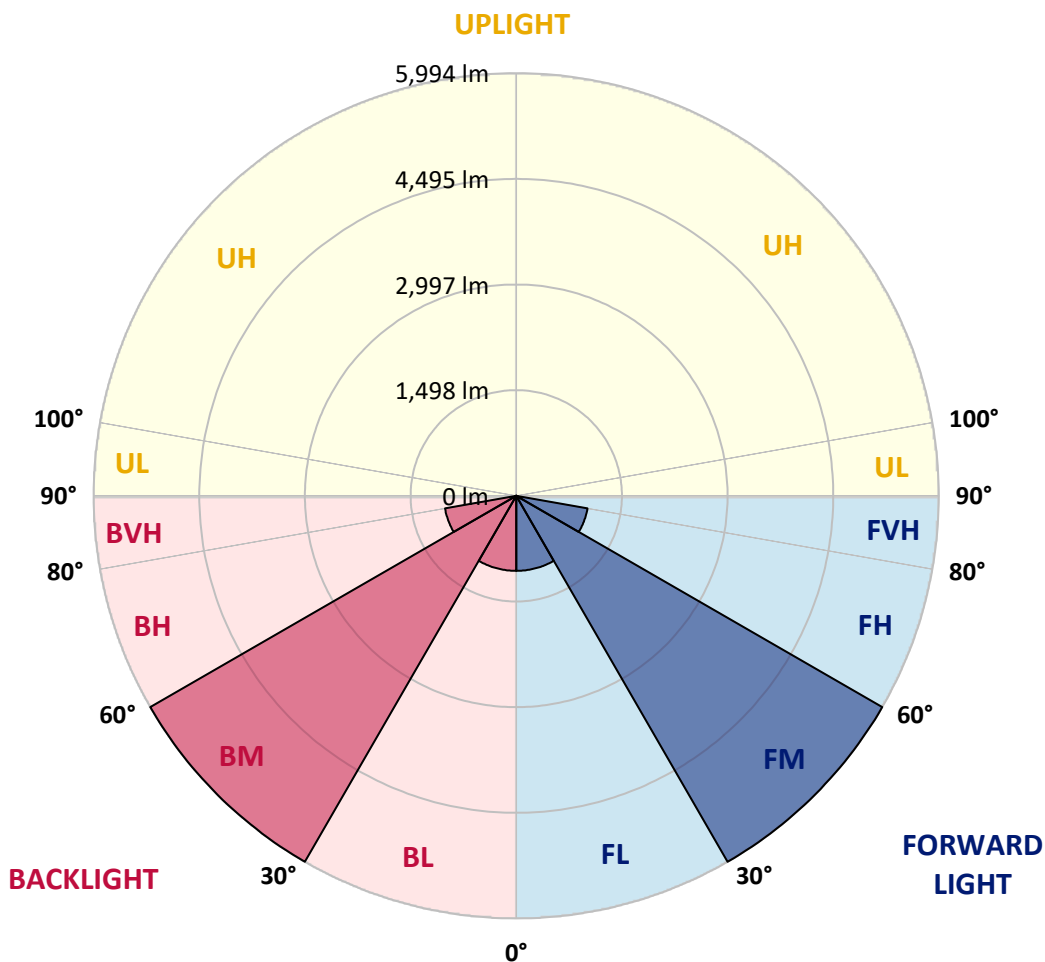


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1064.3	6.6			
FM (30°-60°)	5993.7	37.0			
FH (60°-80°)	1025.7	6.3			G1/1800
FVH (80°-90°)	9.8	0.1			G0/10
BL (0°-30°)	1064.3	6.6	B3/2500		
BM (30°-60°)	5993.7	37.0	B4/8500		
BH (60°-80°)	1025.7	6.3	B3/2500		G1/1800
BVH (80°-90°)	9.8	0.1			G0/10
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°	2510.8	2510.8	2510.8	2510.8	2510.8	2510.8	2510.8	2510.8	2510.8	2510.8	2510.8
2.5°	2504.0	2517.5	2500.7	2493.9	2490.5	2490.5	2480.4	2480.4	2477.0	2480.4	2466.9
5°	2463.6	2477.0	2477.0	2473.7	2453.4	2450.0	2439.9	2433.2	2436.5	2423.0	2433.2
7.5°	2423.0	2433.2	2419.6	2416.3	2409.5	2396.1	2392.7	2362.3	2365.7	2365.7	2372.4
10°	2416.3	2412.9	2392.7	2375.8	2355.5	2352.1	2342.0	2335.3	2335.3	2331.9	2342.0
12.5°	2416.3	2399.4	2396.1	2358.9	2325.2	2338.7	2311.7	2294.8	2318.4	2325.2	2338.7
15°	2412.9	2429.8	2372.4	2355.5	2331.9	2335.3	2311.7	2294.8	2308.3	2315.0	2325.2
17.5°	2433.2	2423.0	2406.2	2372.4	2362.3	2348.8	2318.4	2304.9	2304.9	2321.8	2325.2
20°	2487.1	2460.1	2426.4	2409.5	2419.6	2402.8	2365.7	2315.0	2328.6	2342.0	2352.1
22.5°	2537.8	2517.5	2493.9	2483.8	2541.1	2514.1	2450.0	2392.7	2372.4	2396.1	2412.9
25°	2635.7	2635.7	2591.7	2605.3	2669.4	2672.8	2598.5	2497.3	2483.8	2493.9	2500.7
27.5°	2834.8	2844.9	2807.8	2821.2	2848.2	2871.9	2807.8	2723.4	2693.0	2689.6	2699.8
30°	3050.7	3070.9	3067.6	3125.0	3202.5	3216.1	3121.6	2983.2	2892.1	2875.3	2888.7
32.5°	3334.2	3344.3	3337.5	3405.0	3614.3	3712.1	3465.8	3270.0	3148.6	3179.0	3148.6
35°	3867.4	3857.3	3783.0	3796.5	3968.6	4039.5	3803.3	3678.4	3621.1	3681.7	3668.3
37.5°	4326.3	4289.2	4228.5	4316.2	4495.0	4559.2	4312.8	4093.5	3988.9	4090.2	4134.0
40°	4714.4	4619.9	4535.6	4623.3	4862.9	4950.7	4589.6	4410.7	4370.2	4444.5	4539.0
42.5°	5041.8	4981.1	4869.7	4876.4	5035.0	5075.6	4785.3	4680.7	4640.2	4758.3	4805.6
45°	5274.6	5217.3	5112.7	5105.9	5227.4	5200.4	4940.6	4869.7	4893.3	4970.9	4994.5
47.5°	5392.8	5423.1	5362.4	5379.3	5443.3	5379.3	5173.4	5173.4	5119.4	5166.6	5143.1
50°	5733.6	5639.1	5716.7	5716.7	5784.2	5791.0	5585.1	5510.8	5365.7	5284.8	5284.8
52.5°	6131.8	6138.6	6168.9	6280.3	6395.0	6492.9	6199.3	5882.1	5639.1	5534.5	5521.0
55°	6459.1	6526.6	6648.1	6857.4	7188.1	7323.1	6816.9	6249.9	5952.9	5791.0	5757.2
56°	6638.0	6573.9	6783.1	7069.9	7501.9	7677.4	6918.1	6324.1	5996.8	5814.6	5811.2
57.5°	6465.9	6536.8	6681.9	7134.1	7663.9	7893.4	6955.2	6290.4	5821.4	5635.7	5652.6
60°	5105.9	5173.4	5369.1	5875.3	6705.5	6884.4	5885.4	5186.9	4768.5	4501.9	4505.2
62.5°	2888.7	2939.4	3091.2	3560.3	4076.6	4248.7	3668.3	3202.5	2912.4	2763.8	2716.6
65°	1063.0	1042.8	1066.4	1306.0	1623.2	1768.3	1525.4	1289.1	1137.3	1083.3	1063.0
67.5°	398.2	367.9	344.2	367.9	462.4	489.3	448.8	374.6	350.9	361.1	367.9
70°	246.3	232.9	185.6	175.5	172.1	168.7	178.8	189.0	216.0	253.1	259.9
72.5°	172.1	162.0	131.6	124.9	118.1	114.7	131.6	145.1	168.7	195.8	199.1
75°	67.5	70.9	67.5	74.2	77.6	81.0	94.5	104.6	114.7	114.7	111.3
77.5°	13.5	13.5	20.3	27.0	33.7	43.8	64.1	74.2	77.6	74.2	64.1
80°	0.0	0.0	6.7	13.5	27.0	37.1	57.4	64.1	70.9	64.1	50.6
82.5°	0.0	0.0	6.7	16.8	27.0	33.7	54.0	67.5	77.6	70.9	54.0
85°	0.0	0.0	6.7	13.5	20.3	23.6	23.6	16.8	16.8	10.1	6.7
87.5°	0.0	0.0	0.0	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)