

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: P648662

Luminaire Tested: **GALN-SA9B-835-U-T1**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648662  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9B-835-U-T1  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 40319.8 lumens  
Efficiency: N/A  
Efficacy: 110.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G5

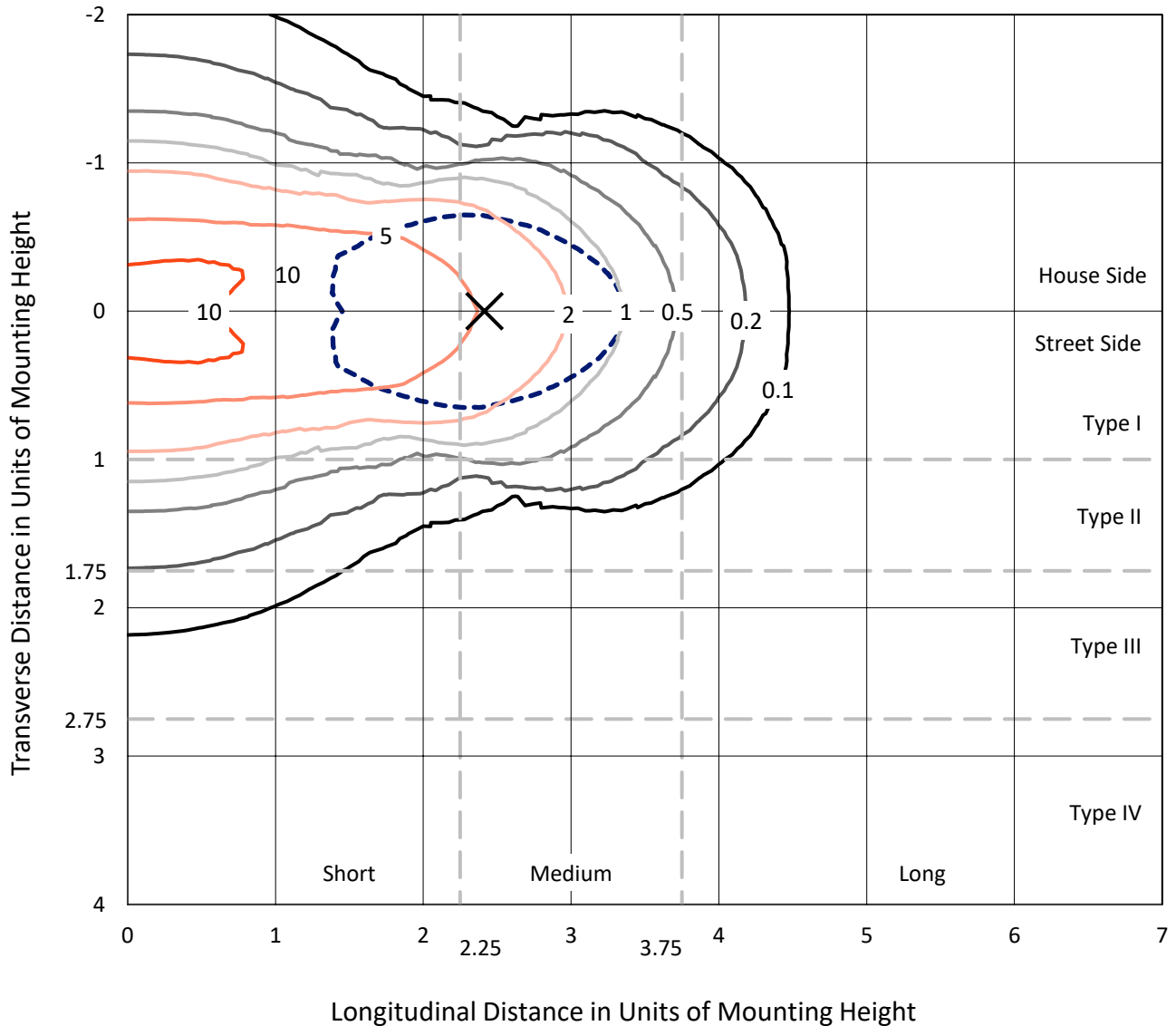
Input Watts (W): 364  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

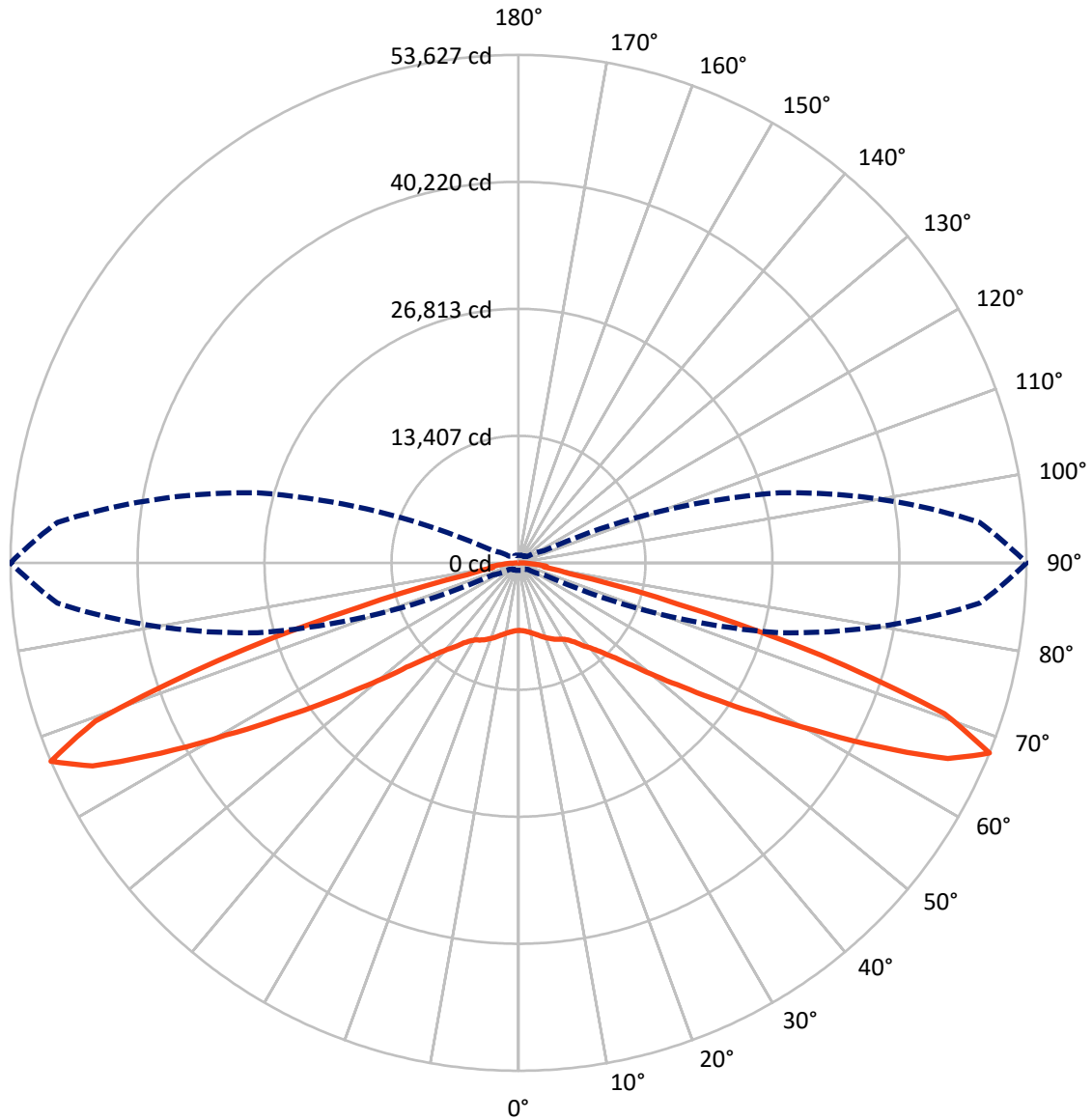
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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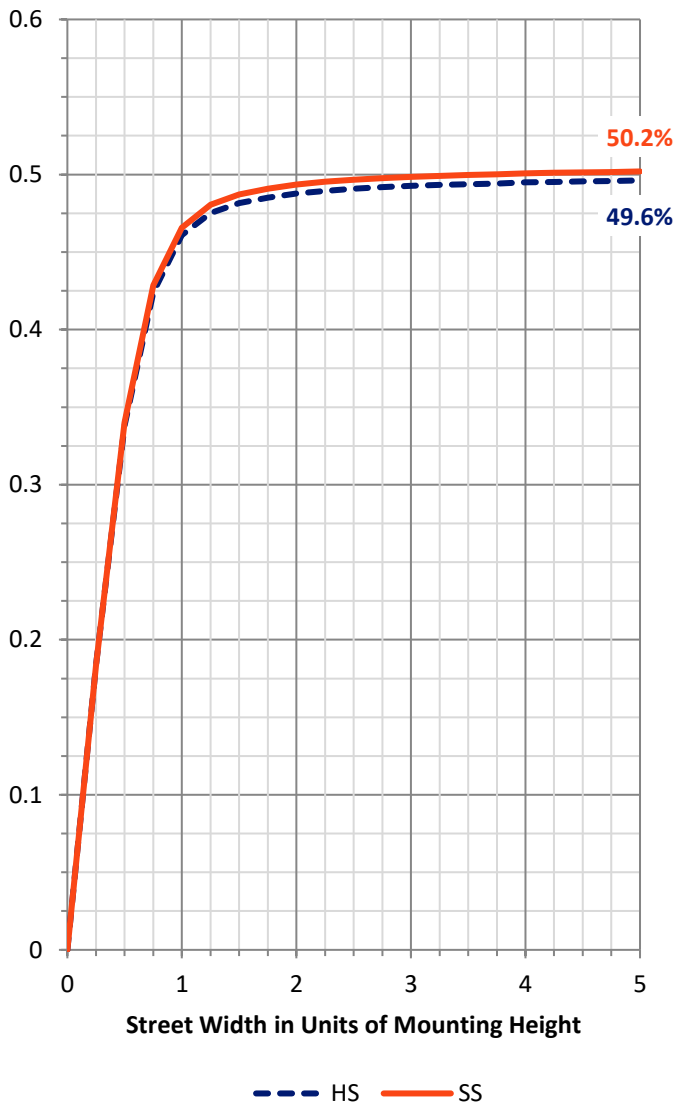
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	20159.9	0.0	20159.9
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	20159.9	0.0	20159.9
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	40319.8	0.0	40319.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	711.6	1.8
10°-20°	2276.9	5.6
20°-30°	3810.9	9.5
30°-40°	5162.8	12.8
40°-50°	6539.5	16.2
50°-60°	8169.5	20.3
60°-70°	9602.9	23.8
70°-80°	3673.5	9.1
80°-90°	372.2	0.9
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°	40319.8	100.0
0°-180°	40319.8	100.0

**Coefficient of Utilization**

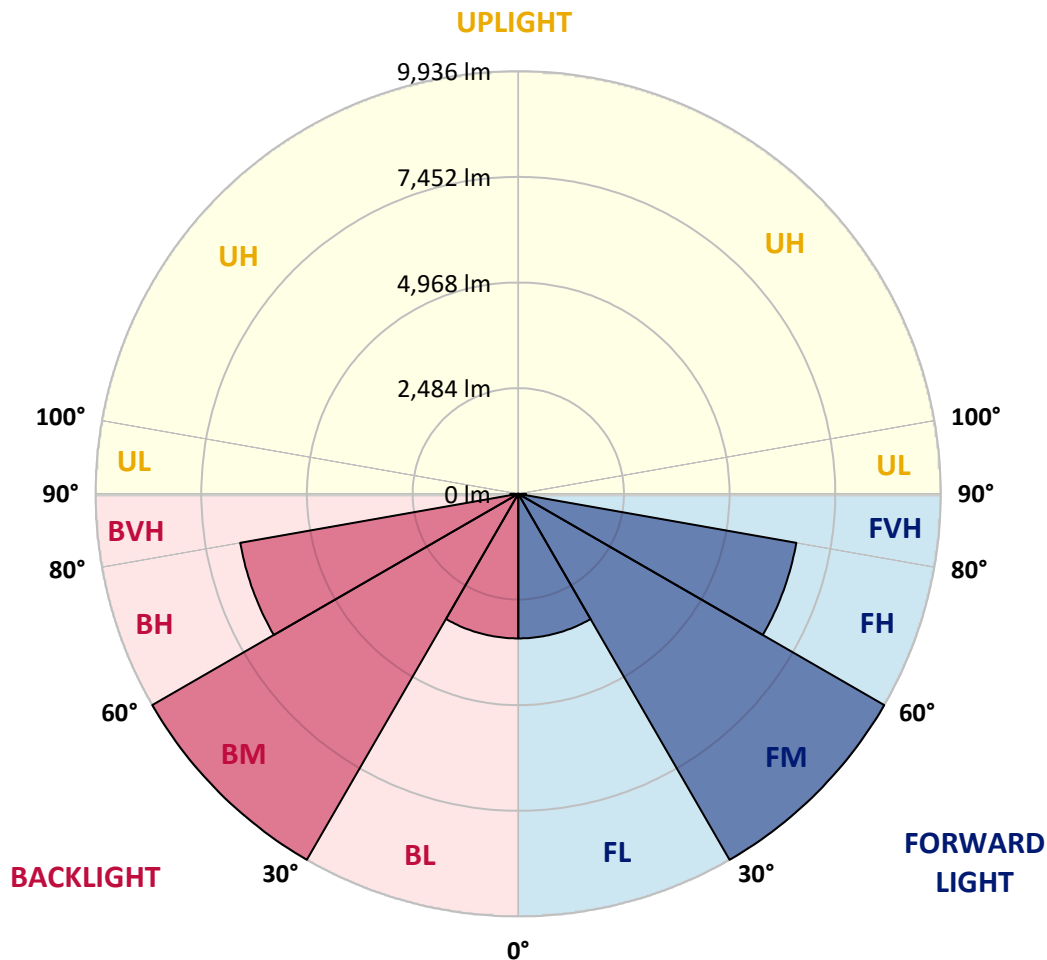


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3399.7	8.4			
FM (30°-60°)	9935.9	24.6			
FH (60°-80°)	6638.2	16.5			G3/7500
FVH (80°-90°)	186.1	0.5			G2/225
BL (0°-30°)	3399.7	8.4	B4/5000		
BM (30°-60°)	9935.9	24.6	B5		
BH (60°-80°)	6638.2	16.5	B5		G5
BVH (80°-90°)	186.1	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**  
 Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7137.8	7137.8	7137.8	7137.8	7137.8	7137.8	7137.8	7137.8	7137.8	7137.8	7137.8
2.5°	7229.4	7224.9	7227.2	7224.9	7231.6	7227.2	7200.4	7178.1	7160.2	7162.4	7155.8
5°	7383.5	7385.7	7387.9	7376.7	7392.4	7383.5	7341.0	7305.3	7269.6	7256.2	7251.8
7.5°	7510.7	7521.9	7528.5	7539.7	7566.5	7566.5	7544.2	7492.8	7414.7	7370.1	7367.8
10°	7638.0	7646.9	7667.0	7702.8	7747.4	7789.8	7780.9	7711.7	7611.2	7535.3	7517.4
12.5°	7682.6	7693.8	7760.8	7863.5	7964.0	8046.6	8046.6	7990.7	7861.2	7745.1	7711.7
15°	7526.4	7546.5	7667.0	7885.8	8149.2	8330.1	8370.3	8292.1	8153.7	7975.1	7934.9
17.5°	7216.0	7265.1	7441.5	7765.2	8202.9	8577.9	8694.0	8656.1	8477.5	8249.8	8202.9
20°	6883.4	6936.9	7124.4	7553.1	8158.2	8723.1	9060.2	9069.1	8848.1	8517.6	8448.4
22.5°	6517.1	6557.4	6798.5	7300.8	8024.3	8756.5	9375.0	9529.0	9229.8	8785.6	8687.3
25°	6106.4	6151.0	6403.3	6945.8	7771.9	8718.6	9663.0	10002.4	9629.5	9071.4	8946.3
27.5°	5713.4	5731.2	6001.5	6552.9	7439.3	8620.4	9875.1	10437.8	10071.6	9308.0	9149.5
30°	5336.1	5378.5	5617.4	6162.2	7057.5	8428.4	10058.2	10933.4	10547.2	9555.8	9352.7
32.5°	4936.4	4987.8	5246.8	5798.3	6675.7	8140.3	10169.8	11476.0	11210.3	9957.7	9741.1
35°	4552.4	4585.9	4847.2	5383.0	6302.8	7805.4	10190.0	12087.7	12065.4	10567.2	10279.2
37.5°	4159.5	4208.6	4472.0	4985.6	5907.7	7450.4	10089.4	12737.4	13096.8	11413.4	11103.1
40°	3782.1	3824.6	4083.6	4601.5	5458.9	7017.3	9850.5	13331.3	14300.2	12284.2	11844.4
42.5°	3371.4	3382.5	3666.1	4193.0	5019.0	6515.0	9506.7	13860.4	15642.1	13451.9	12904.9
45°	2904.7	2933.7	3197.2	3715.2	4514.5	5952.3	9040.1	14298.0	17343.4	15070.6	14324.8
47.5°	2438.1	2462.6	2703.8	3215.1	3963.0	5307.1	8321.2	14682.0	19089.4	17126.9	16148.9
50°	1982.6	1996.0	2192.5	2645.8	3342.3	4628.3	7430.4	14804.9	21063.0	20038.2	18790.2
52.5°	1567.3	1587.5	1737.0	2092.0	2679.2	3826.8	6468.0	14501.2	23367.1	23490.0	21730.6
55°	1270.4	1277.1	1388.7	1649.9	2094.2	2987.3	5307.1	13655.1	25845.4	27912.9	25669.1
57.5°	1094.0	1098.5	1161.0	1306.1	1612.0	2252.8	4117.0	12054.2	28071.4	33094.9	30210.3
60°	993.5	995.7	1031.5	1116.3	1277.1	1728.1	2949.3	9794.8	30268.4	38861.9	35854.5
62.5°	931.0	931.0	955.6	1002.5	1080.6	1326.2	2136.7	7066.4	31773.2	44713.8	42811.5
65°	870.8	870.8	888.6	922.1	964.5	1085.1	1578.5	4608.3	31735.2	48975.9	49808.7
67.5°	801.6	801.6	814.9	848.4	873.0	933.3	1219.1	3018.5	28506.8	48882.1	53626.6
70°	719.0	719.0	736.8	765.8	785.9	823.9	962.3	2065.2	20942.5	41737.6	47692.1
72.5°	636.3	638.5	649.7	678.7	694.4	716.7	799.3	1446.7	12846.8	28419.7	33347.2
75°	544.8	549.3	560.4	589.4	602.8	611.8	674.2	1031.5	6499.3	15322.8	17446.1
77.5°	439.8	448.7	455.5	486.7	495.6	509.0	555.9	745.7	2853.3	5505.7	5554.9
80°	321.5	332.7	352.7	381.8	388.4	397.5	424.2	529.2	1292.7	2514.0	2730.6
82.5°	236.7	252.3	227.7	265.7	265.7	254.6	299.2	355.0	593.9	2489.5	2978.4
85°	129.5	131.7	118.3	136.2	145.1	142.9	158.6	174.1	288.0	1661.1	1712.5
87.5°	31.2	33.5	35.7	42.4	51.4	51.4	55.8	49.1	93.8	538.1	308.1
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)