

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: P458007

Luminaire Tested: **GALN-SA9B-827-U-T1**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458007  
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-827-U-T1  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 37854 lumens  
Efficiency: N/A  
Efficacy: 104.0 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

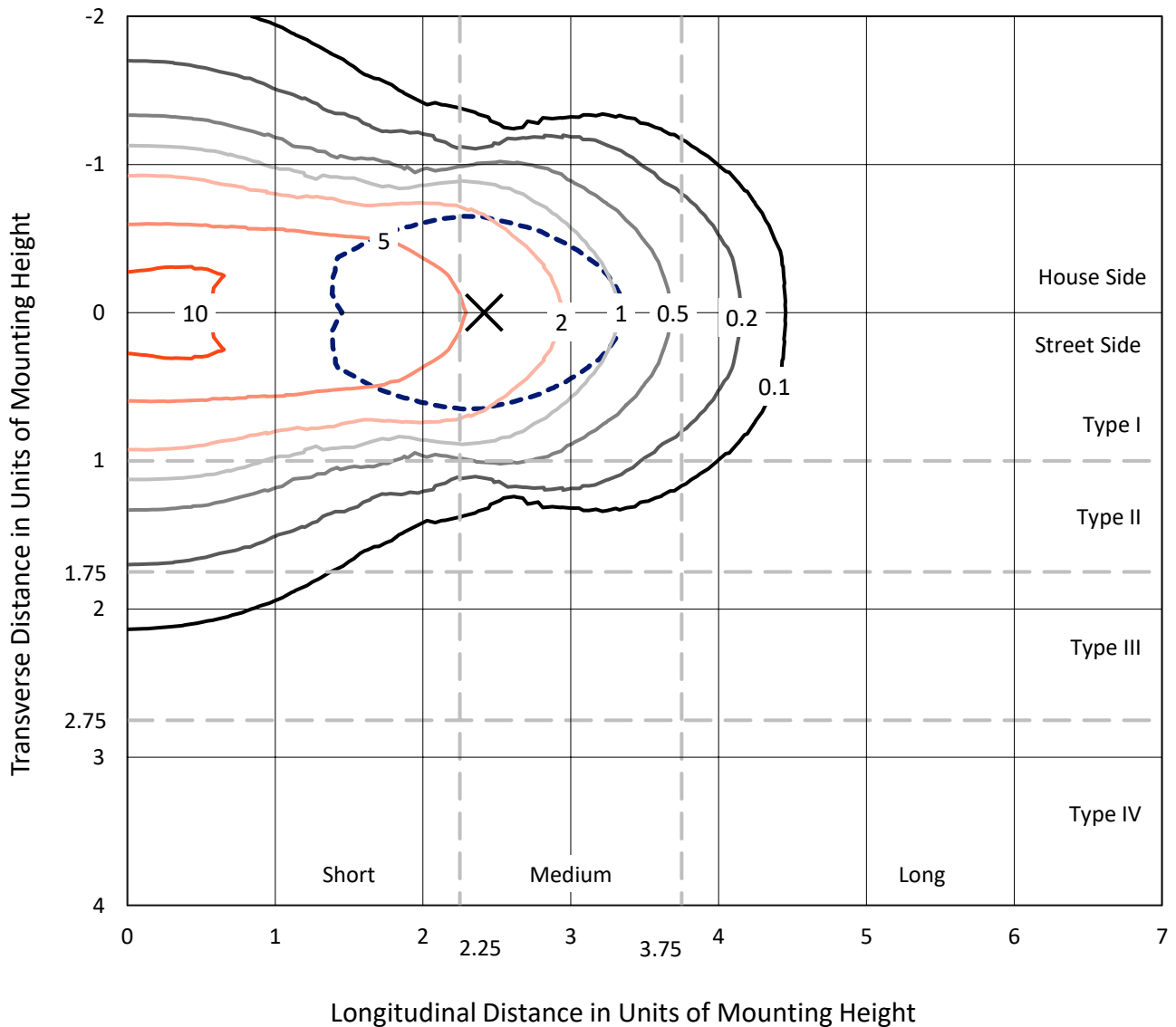
Input Watts (W): 364  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

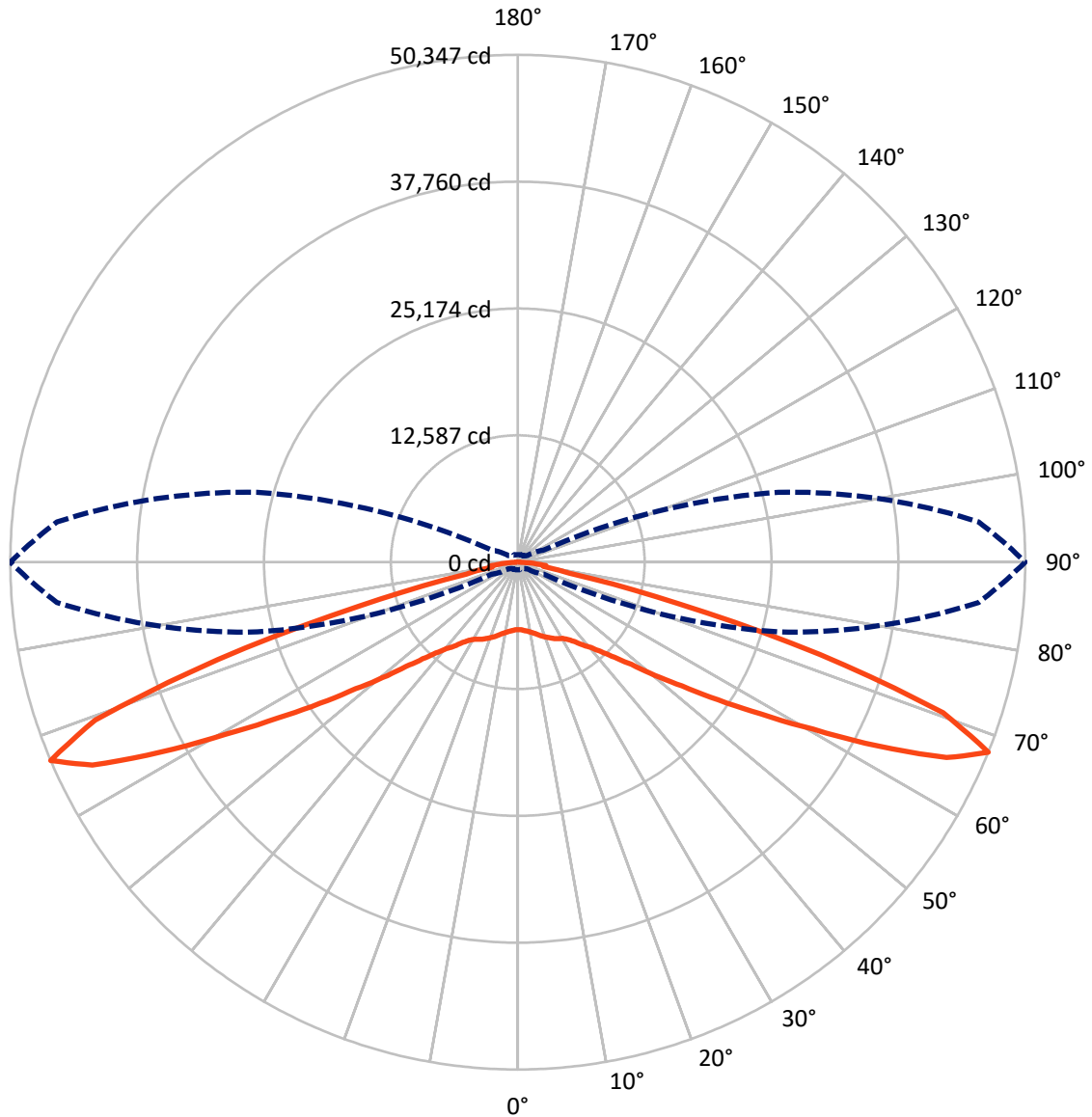
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 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	18927.0	0.0	18927.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	18927.0	0.0	18927.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	37854.0	0.0	37854.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	668.1	1.8
10°-20°	2137.6	5.6
20°-30°	3577.8	9.5
30°-40°	4847.1	12.8
40°-50°	6139.6	16.2
50°-60°	7669.9	20.3
60°-70°	9015.6	23.8
70°-80°	3448.9	9.1
80°-90°	349.4	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°	37854.0	100.0
0°-180°	37854.0	100.0

**Coefficient of Utilization**



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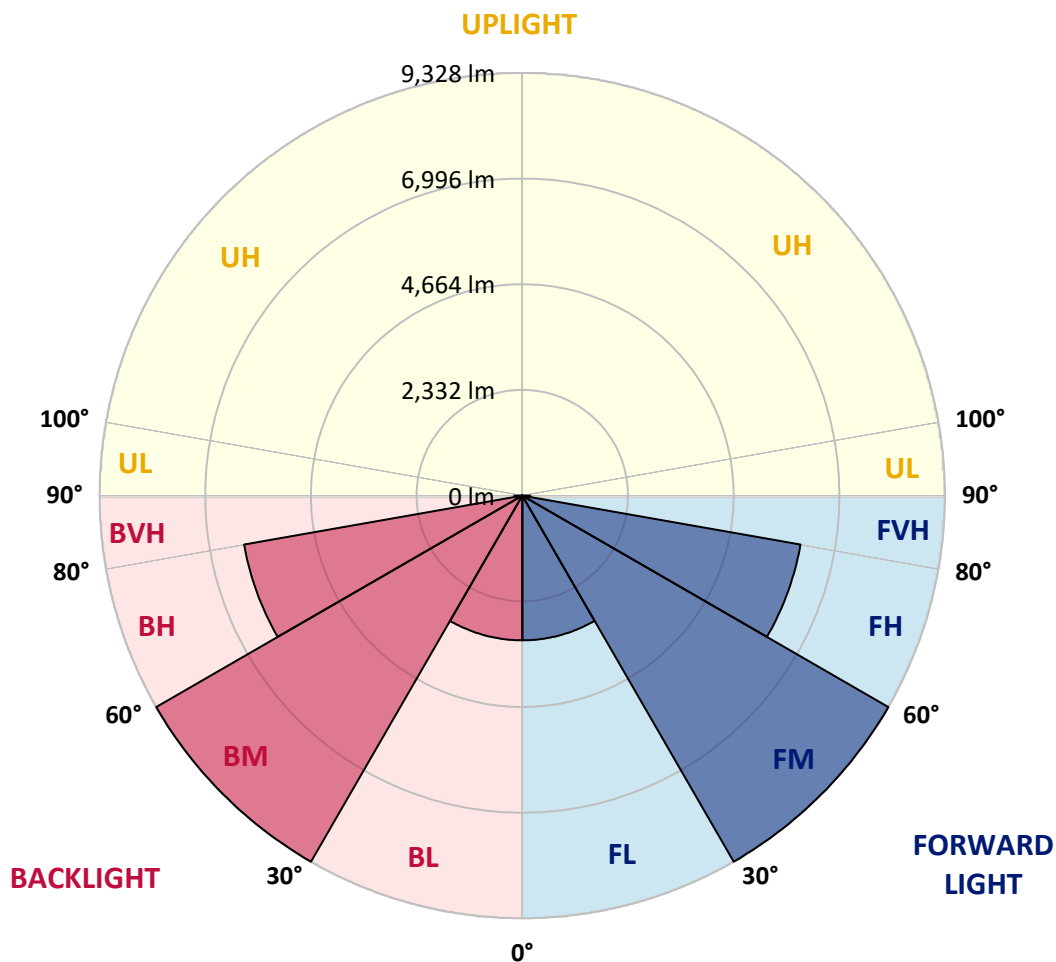
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3191.8	8.4			
FM (30°-60°)	9328.3	24.6			
FH (60°-80°)	6232.2	16.5			G3/7500
FVH (80°-90°)	174.7	0.5			G2/225
BL (0°-30°)	3191.8	8.4	B4/5000		
BM (30°-60°)	9328.3	24.6	B5		
BH (60°-80°)	6232.2	16.5	B5		G5
BVH (80°-90°)	174.7	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°	6701.3	6701.3	6701.3	6701.3	6701.3	6701.3	6701.3	6701.3	6701.3	6701.3	6701.3
2.5°	6787.3	6783.1	6785.2	6783.1	6789.4	6785.2	6760.0	6739.1	6722.3	6724.4	6718.1
5°	6931.9	6934.0	6936.1	6925.6	6940.3	6931.9	6892.1	6858.5	6825.0	6812.4	6808.2
7.5°	7051.4	7061.9	7068.2	7078.6	7103.8	7103.8	7082.8	7034.6	6961.3	6919.3	6917.2
10°	7170.9	7179.3	7198.1	7231.7	7273.6	7313.4	7305.0	7240.0	7145.7	7074.4	7057.7
12.5°	7212.8	7223.3	7286.2	7382.6	7476.9	7554.5	7554.5	7502.1	7380.5	7271.5	7240.0
15°	7066.1	7084.9	7198.1	7403.5	7650.9	7820.7	7858.4	7785.0	7655.1	7487.4	7449.7
17.5°	6774.7	6820.8	6986.4	7290.3	7701.2	8053.3	8162.3	8126.7	7959.0	7745.2	7701.2
20°	6462.4	6512.7	6688.8	7091.2	7659.3	8189.6	8506.1	8514.5	8307.0	7996.7	7931.8
22.5°	6118.6	6156.3	6382.7	6854.4	7533.5	8221.0	8801.7	8946.3	8665.4	8248.3	8156.1
25°	5732.9	5774.8	6011.7	6521.1	7296.6	8185.4	9072.1	9390.7	9040.6	8516.6	8399.2
27.5°	5364.0	5380.8	5634.4	6152.1	6984.3	8093.2	9271.2	9799.4	9455.7	8738.8	8590.0
30°	5009.8	5049.6	5273.9	5785.3	6625.9	7912.9	9443.1	10264.8	9902.1	8971.4	8780.7
32.5°	4634.5	4682.8	4925.9	5443.7	6267.4	7642.5	9547.9	10774.1	10524.7	9348.8	9145.4
35°	4274.0	4305.5	4550.7	5053.8	5917.4	7328.1	9566.8	11348.5	11327.5	9921.0	9650.6
37.5°	3905.1	3951.2	4198.6	4680.7	5546.4	6994.8	9472.4	11958.4	12295.9	10715.4	10424.1
40°	3550.8	3590.7	3833.8	4320.1	5125.0	6588.1	9248.1	12516.0	13425.7	11532.9	11120.0
42.5°	3165.2	3175.6	3441.9	3936.5	4712.1	6116.5	8925.3	13012.8	14685.5	12629.2	12115.6
45°	2727.1	2754.3	3001.7	3488.0	4238.4	5588.3	8487.2	13423.6	16282.8	14148.9	13448.8
47.5°	2289.0	2312.0	2538.4	3018.4	3720.6	4982.5	7812.3	13784.2	17921.9	16079.4	15161.3
50°	1861.4	1873.9	2058.4	2483.9	3137.9	4345.3	6975.9	13899.5	19774.9	18812.8	17641.1
52.5°	1471.5	1490.4	1630.8	1964.1	2515.4	3592.8	6072.5	13614.4	21938.1	22053.4	20401.7
55°	1192.7	1199.0	1303.8	1549.0	1966.2	2804.6	4982.5	12819.9	24264.8	26205.9	24099.2
57.5°	1027.1	1031.3	1090.0	1226.2	1513.4	2115.0	3865.3	11317.0	26354.7	31071.0	28362.8
60°	932.8	934.9	968.4	1048.1	1199.0	1622.4	2769.0	9195.7	28417.3	36485.3	33661.8
62.5°	874.1	874.1	897.1	941.2	1014.5	1245.1	2006.0	6634.3	29830.1	41979.3	40193.3
65°	817.5	817.5	834.3	865.7	905.5	1018.7	1482.0	4326.4	29794.4	45980.8	46762.6
67.5°	752.5	752.5	765.1	796.5	819.6	876.2	1144.5	2834.0	26763.4	45892.7	50347.0
70°	675.0	675.0	691.7	719.0	737.8	773.5	903.4	1938.9	19661.7	39185.1	44775.5
72.5°	597.4	599.5	610.0	637.2	651.9	672.9	750.4	1358.3	12061.1	26681.7	31307.8
75°	511.5	515.6	526.1	553.4	566.0	574.3	633.0	968.4	6101.8	14385.8	16379.2
77.5°	412.9	421.3	427.6	457.0	465.3	477.9	521.9	700.1	2678.9	5169.1	5215.2
80°	301.8	312.3	331.2	358.4	364.7	373.1	398.3	496.8	1213.7	2360.2	2563.6
82.5°	222.2	236.9	213.8	249.4	249.4	239.0	280.9	333.3	557.6	2337.2	2796.2
85°	121.6	123.7	111.1	127.9	136.2	134.2	148.8	163.5	270.4	1559.5	1607.7
87.5°	29.3	31.4	33.5	39.8	48.2	48.2	52.4	46.1	88.0	505.2	289.3
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)