

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: P943373

Luminaire Tested: **GALN-SB7D-827-U-T1**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P943373  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB7D-827-U-T1  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 62254 lumens  
Efficiency: N/A  
Efficacy: 121.4 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

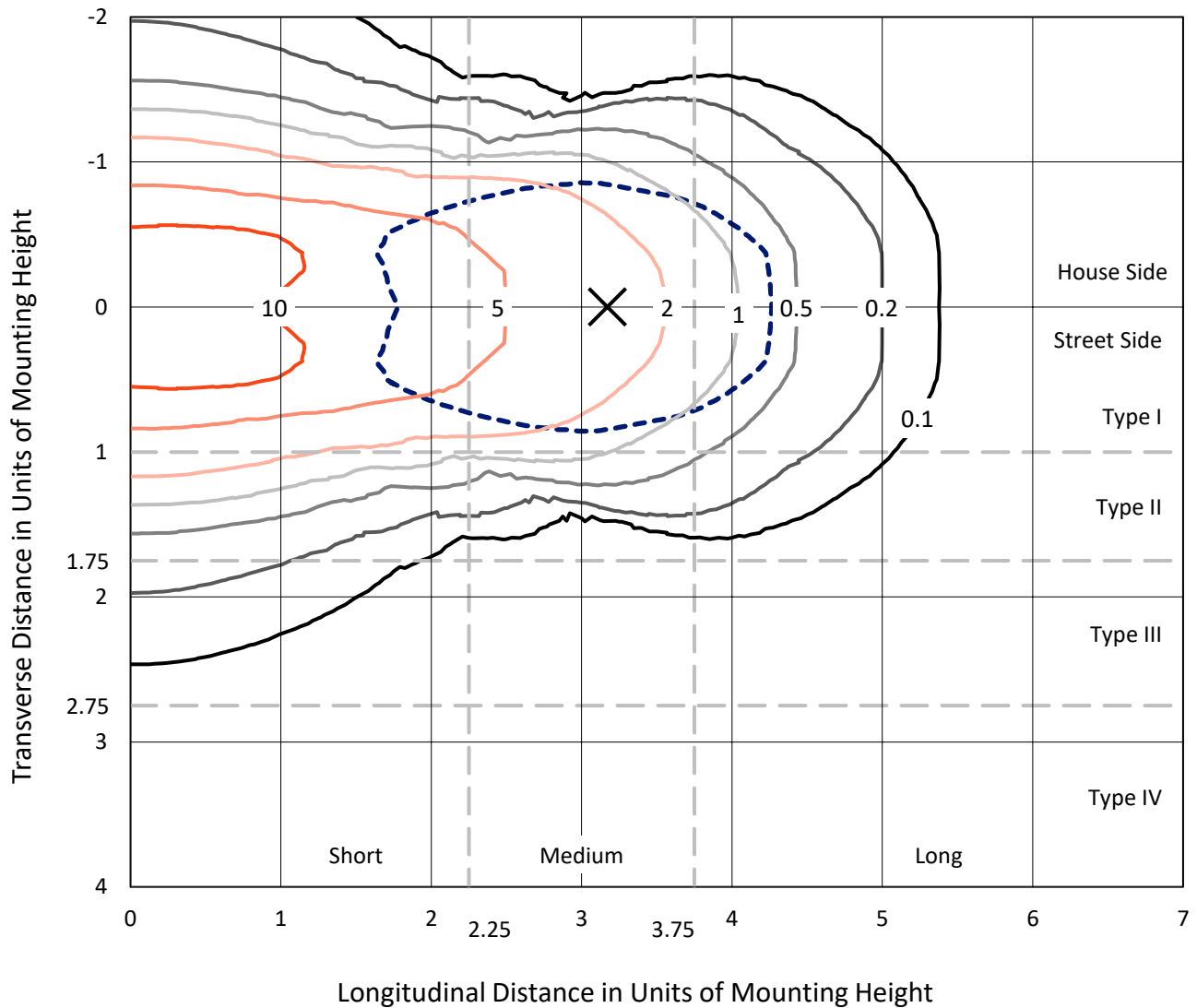
Input Watts (W): 512.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

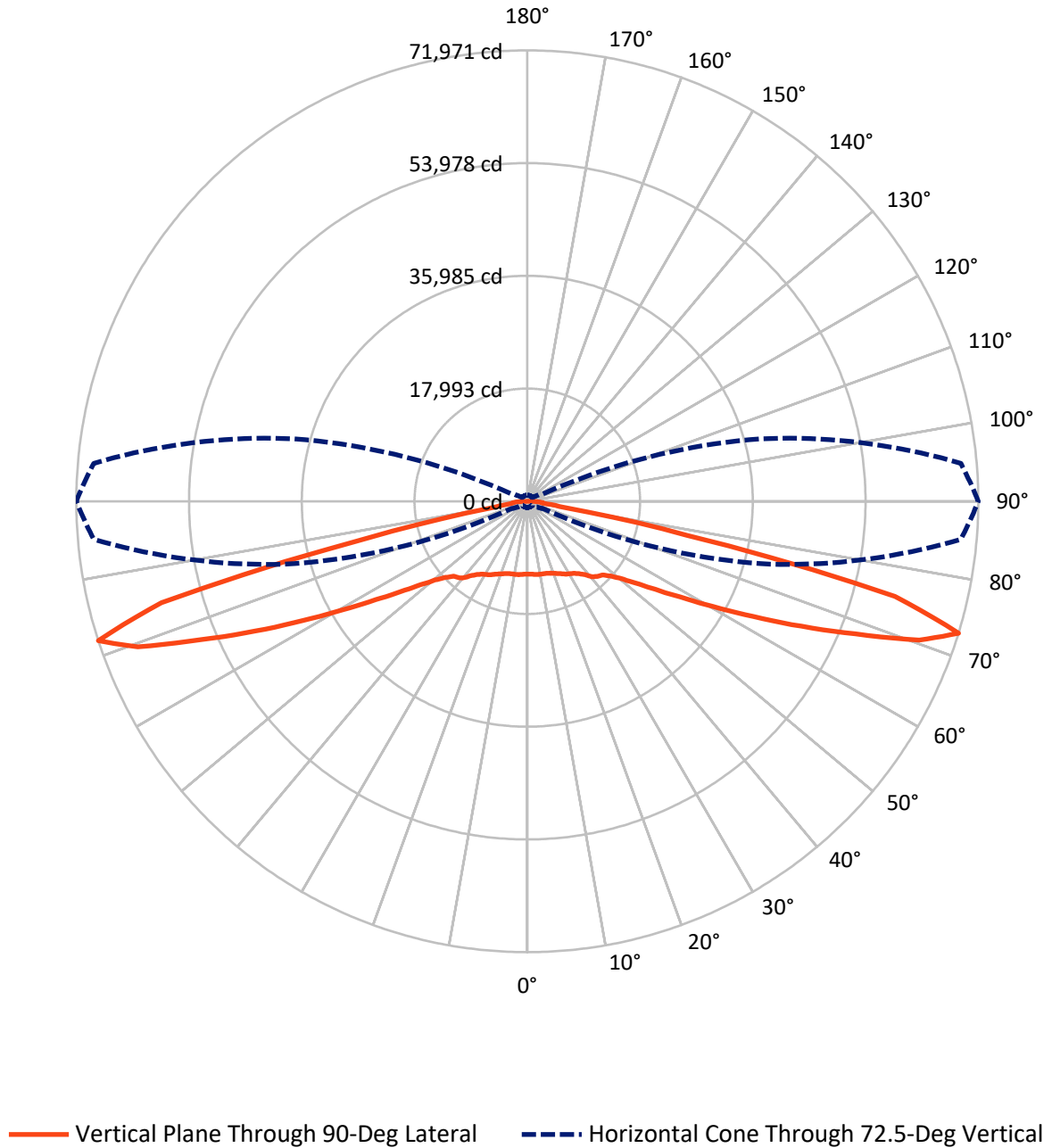
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.6 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	31127.0	0.0	31127.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	31127.0	0.0	31127.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	62254.0	0.0	62254.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1127.9	1.8
10°-20°	3448.8	5.5
20°-30°	5750.6	9.2
30°-40°	7908.8	12.7
40°-50°	9658.8	15.5
50°-60°	11171.4	17.9
60°-70°	13320.1	21.4
70°-80°	9296.6	14.9
80°-90°	571.0	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°	62254.0	100.0
0°-180°	62254.0	100.0

**Coefficient of Utilization**



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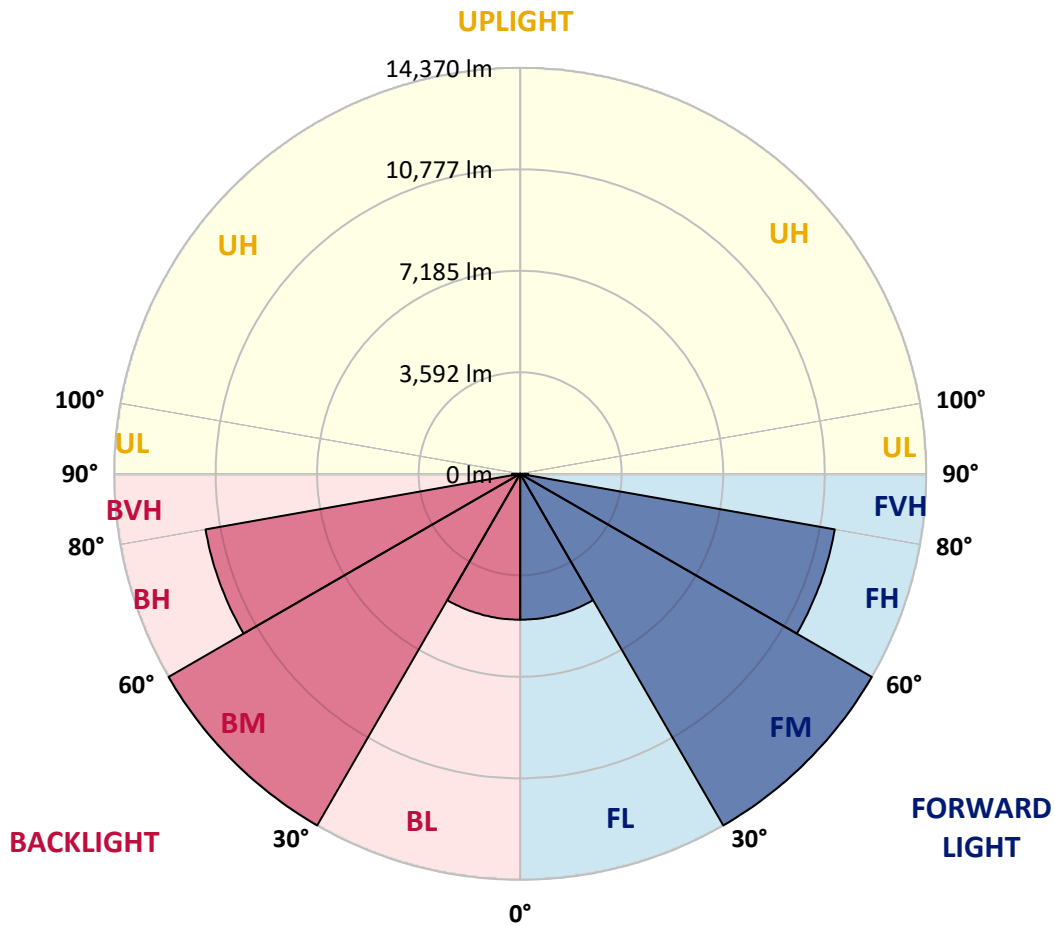
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5163.6	8.3			
FM (30°-60°)	14369.5	23.1			
FH (60°-80°)	11308.3	18.2			G4/12000
FVH (80°-90°)	285.5	0.5			G3/500
BL (0°-30°)	5163.6	8.3	B5		
BM (30°-60°)	14369.5	23.1	B5		
BH (60°-80°)	11308.3	18.2	B5		G5
BVH (80°-90°)	285.5	0.5			G3/500
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°
0°	11632.8	11632.8	11632.8	11632.8	11632.8	11632.8	11632.8	11632.8	11632.8	11632.8
2.5°	11642.7	11656.0	11656.0	11646.1	11669.2	11649.4	11649.4	11639.4	11649.4	11639.4
5°	11702.3	11718.8	11725.5	11722.1	11751.9	11735.4	11735.4	11722.1	11725.5	11715.5
7.5°	11814.8	11837.9	11851.2	11867.7	11910.7	11890.9	11877.6	11837.9	11821.4	11794.9
10°	11851.2	11877.6	11920.7	12006.7	12105.9	12109.2	12069.5	11970.3	11894.2	11834.6
12.5°	11738.7	11775.1	11864.4	12039.8	12261.4	12350.8	12287.9	12122.5	11973.6	11867.7
15°	11596.4	11636.1	11771.8	12036.5	12364.0	12572.4	12565.8	12347.5	12109.2	11943.8
17.5°	11374.8	11414.5	11609.7	11980.2	12443.4	12787.5	12880.1	12655.2	12321.0	12099.3
20°	10974.4	11010.8	11282.1	11801.6	12469.9	13015.8	13257.3	13058.8	12641.9	12340.8
22.5°	10455.0	10511.2	10828.8	11493.9	12407.0	13254.0	13687.4	13551.8	13015.8	12598.9
25°	9899.1	9958.7	10329.3	11116.7	12244.9	13426.0	14196.9	14110.9	13439.3	12919.8
27.5°	9419.4	9482.3	9885.9	10742.8	11993.4	13492.2	14699.8	14742.8	13952.1	13273.9
30°	9042.2	9101.8	9531.9	10441.7	11669.2	13426.0	15139.9	15437.6	14474.9	13581.5
32.5°	8628.7	8704.8	9158.0	10074.5	11285.4	13267.2	15523.7	16188.7	15080.3	13912.4
35°	8105.9	8175.4	8651.8	9571.6	10782.5	13012.5	15844.6	17022.4	15947.1	14415.3
37.5°	7470.7	7536.8	8010.0	8943.0	10282.9	12655.2	16089.4	17962.0	16979.4	15139.9
40°	6832.1	6895.0	7338.3	8241.6	9684.1	12198.6	16175.4	18881.8	18163.9	16135.7
42.5°	6246.5	6302.8	6709.7	7550.1	9012.5	11616.3	16062.9	19682.5	19225.9	16830.5
45°	5707.2	5756.9	6117.5	6901.6	8314.4	10908.2	15725.5	20542.7	20489.8	17326.8
47.5°	5091.8	5141.5	5515.3	6273.0	7616.3	10077.8	15153.1	21389.7	22246.6	18451.7
50°	4340.8	4383.8	4767.6	5548.4	6891.7	9194.4	14359.1	22054.7	24463.3	20155.6
52.5°	3450.8	3497.1	3871.0	4651.8	6031.5	8244.9	13313.6	22488.1	27024.1	22643.6
55°	2567.4	2600.5	2924.7	3626.2	4966.1	7163.0	12003.4	22610.5	29929.0	26044.8
57.5°	1862.7	1882.6	2091.0	2613.7	3765.1	5809.8	10412.0	22292.9	33386.4	30405.5
60°	1508.7	1515.3	1578.2	1809.8	2617.1	4281.2	8489.7	21201.1	37138.3	36026.7
62.5°	1369.7	1369.7	1386.3	1449.1	1770.1	2825.5	6163.8	18938.1	41161.5	43130.1
65°	1273.8	1273.8	1280.4	1310.2	1396.2	1799.8	3890.8	15252.4	44552.8	51451.1
67.5°	1187.8	1191.1	1187.8	1197.7	1247.3	1330.0	2256.4	10534.4	46379.1	60073.1
70°	1098.4	1105.1	1088.5	1088.5	1128.2	1131.5	1412.7	5776.7	44863.8	67299.0
72.5°	992.6	1002.5	976.0	969.4	999.2	985.9	1062.0	2772.6	38518.0	69456.1
75°	899.9	913.2	853.6	837.1	837.1	827.1	863.5	1422.7	24999.3	56658.7
77.5°	817.2	843.7	747.7	694.8	681.6	651.8	704.7	870.1	10934.7	26600.6
80°	674.9	711.3	615.4	552.5	529.4	496.3	555.8	608.8	3252.3	6177.0
82.5°	502.9	519.4	436.7	393.7	373.9	350.7	416.9	423.5	1058.7	2186.9
85°	320.9	327.5	268.0	231.6	221.7	211.7	264.7	231.6	403.6	1607.9
87.5°	112.5	129.0	102.6	92.6	99.3	82.7	122.4	69.5	112.5	1134.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°

11632.8  
11639.4  
11715.5  
11794.9  
11824.7  
11851.2  
11917.4  
12062.9  
12284.6  
12522.8  
12814.0  
13161.4  
13419.4  
13707.3  
14187.0  
14835.5  
15811.5  
16413.7  
16764.4  
17803.2  
19341.7  
21641.1  
24790.9  
28827.3  
34038.2  
40466.7  
48083.0  
56437.0  
66342.8  
71970.6  
60602.5  
26048.1  
5915.7  
2471.5  
2335.8  
1406.1  
0.0

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