

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: P943403

Luminaire Tested: **GALN-SB7D-840-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943403
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-840-U-T1
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 68479 lumens
Efficiency: N/A
Efficacy: 133.5 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

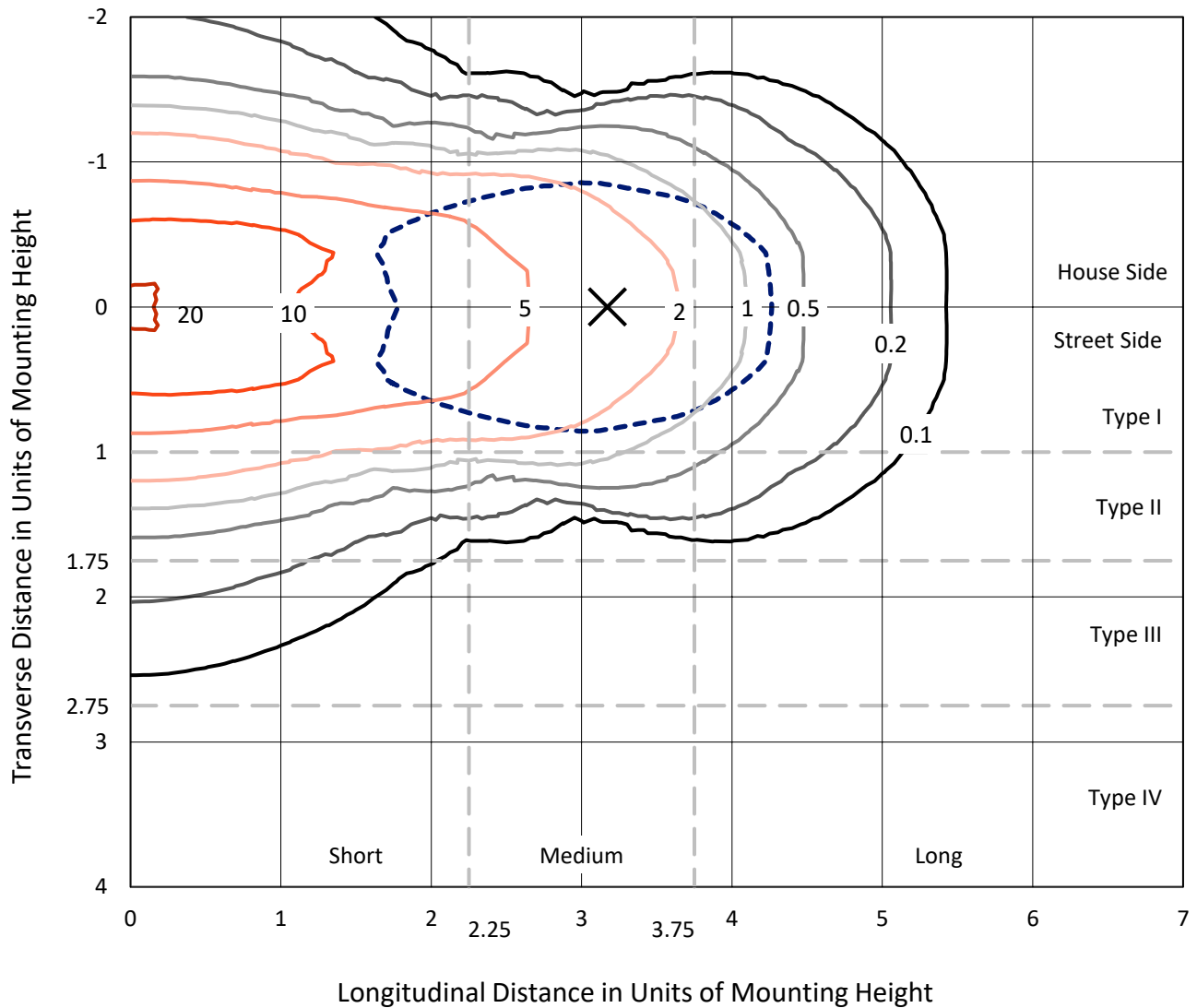
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

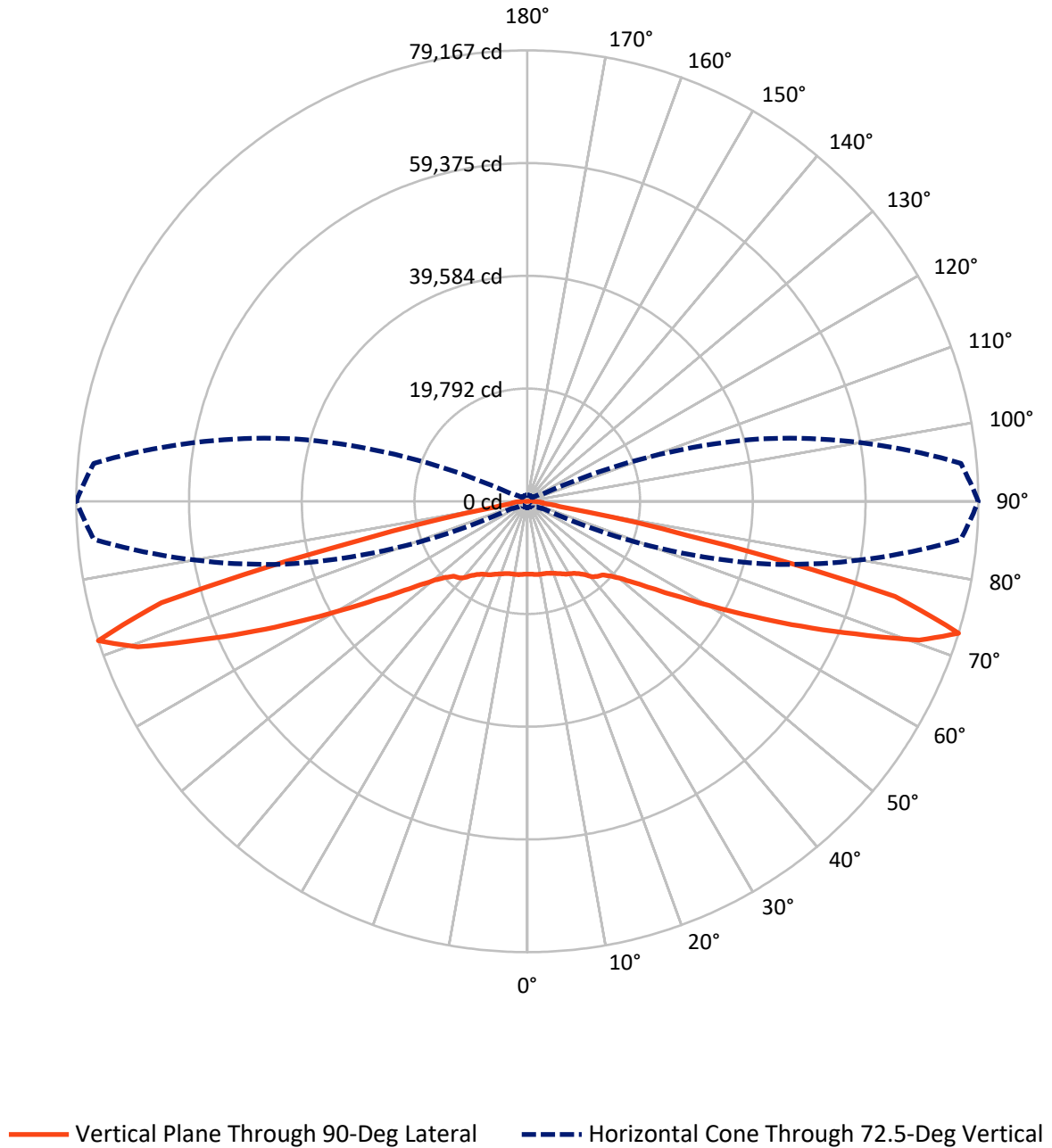
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.5 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	34239.5	0.0	34239.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	34239.5	0.0	34239.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	68479.0	0.0	68479.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1240.7	1.8
10°-20°	3793.7	5.5
20°-30°	6325.6	9.2
30°-40°	8699.6	12.7
40°-50°	10624.6	15.5
50°-60°	12288.5	17.9
60°-70°	14652.0	21.4
70°-80°	10226.2	14.9
80°-90°	628.1	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°	68479.0	100.0
0°-180°	68479.0	100.0

Coefficient of Utilization



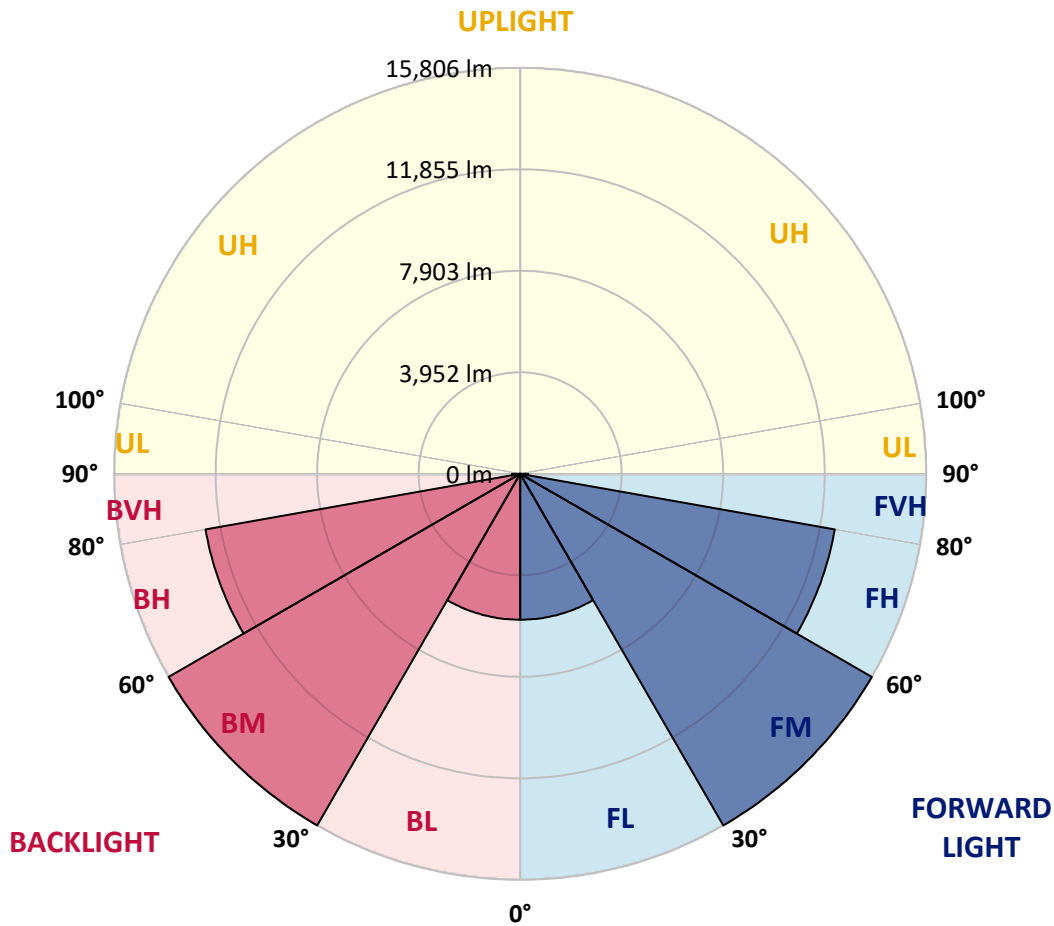
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5680.0	8.3			
FM (30°-60°)	15806.4	23.1			
FH (60°-80°)	12439.1	18.2			G5
FVH (80°-90°)	314.0	0.5			G3/500
BL (0°-30°)	5680.0	8.3	B5		
BM (30°-60°)	15806.4	23.1	B5		
BH (60°-80°)	12439.1	18.2	B5		G5
BVH (80°-90°)	314.0	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°	12796.0	12796.0	12796.0	12796.0	12796.0	12796.0	12796.0	12796.0	12796.0	12796.0
2.5°	12806.9	12821.5	12821.5	12810.6	12836.1	12814.2	12814.2	12803.3	12814.2	12803.3
5°	12872.5	12890.6	12897.9	12894.3	12927.0	12908.8	12908.8	12894.3	12897.9	12887.0
7.5°	12996.2	13021.7	13036.2	13054.4	13101.7	13079.9	13065.3	13021.7	13003.5	12974.4
10°	13036.2	13065.3	13112.6	13207.3	13316.5	13320.1	13276.4	13167.2	13083.5	13018.0
12.5°	12912.5	12952.5	13050.8	13243.7	13487.5	13585.8	13516.6	13334.7	13170.9	13054.4
15°	12756.0	12799.7	12948.9	13240.0	13600.3	13829.6	13822.3	13582.1	13320.1	13138.1
17.5°	12512.2	12555.8	12770.5	13178.2	13687.7	14066.2	14168.1	13920.6	13553.0	13309.2
20°	12071.8	12111.8	12410.3	12981.6	13716.8	14317.3	14583.0	14364.6	13906.0	13574.8
22.5°	11500.4	11562.3	11911.7	12643.2	13647.6	14579.3	15056.1	14906.9	14317.3	13858.7
25°	10889.0	10954.5	11362.1	12228.3	13469.3	14768.6	15616.5	15521.9	14783.1	14211.7
27.5°	10361.3	10430.4	10874.4	11817.0	13192.7	14841.3	16169.7	16217.0	15347.2	14601.2
30°	9946.4	10011.9	10485.0	11485.9	12836.1	14768.6	16653.8	16981.3	15922.2	14939.6
32.5°	9491.5	9575.2	10073.8	11081.9	12413.9	14593.9	17075.9	17807.4	16588.2	15303.5
35°	8916.5	8992.9	9517.0	10528.7	11860.7	14313.6	17428.9	18724.6	17541.8	15856.7
37.5°	8217.7	8290.5	8810.9	9837.2	11311.2	13920.6	17698.3	19758.1	18677.2	16653.8
40°	7515.3	7584.4	8072.1	9065.7	10652.4	13418.4	17792.9	20769.9	19980.1	17749.2
42.5°	6871.1	6933.0	7380.6	8305.0	9913.6	12777.8	17669.1	21650.6	21148.4	18513.5
45°	6277.9	6332.5	6729.2	7591.7	9145.7	11999.0	17297.9	22596.8	22538.6	19059.4
47.5°	5601.0	5655.6	6066.8	6900.2	8377.8	11085.5	16668.3	23528.5	24471.1	20296.8
50°	4774.9	4822.2	5244.3	6103.2	7580.8	10113.8	15794.9	24260.0	26909.5	22171.0
52.5°	3795.9	3846.8	4258.1	5117.0	6634.6	9069.3	14644.8	24736.8	29726.4	24907.8
55°	2824.2	2860.5	3217.2	3988.7	5462.7	7879.2	13203.6	24871.5	32921.7	28649.1
57.5°	2049.0	2070.8	2300.1	2875.1	4141.6	6390.7	11453.1	24522.1	36724.9	33445.8
60°	1659.6	1666.8	1736.0	1990.7	2878.7	4709.3	9338.6	23321.1	40851.9	39629.1
62.5°	1506.7	1506.7	1524.9	1594.0	1947.1	3108.0	6780.1	20831.8	45277.4	47442.8
65°	1401.2	1401.2	1408.4	1441.2	1535.8	1979.8	4279.9	16777.5	49007.8	56595.8
67.5°	1306.5	1310.2	1306.5	1317.5	1372.0	1463.0	2482.1	11587.8	51016.7	66080.0
70°	1208.3	1215.5	1197.4	1197.4	1241.0	1244.7	1554.0	6354.3	49349.9	74028.4
72.5°	1091.8	1102.7	1073.6	1066.3	1099.1	1084.5	1168.2	3049.8	42369.5	76401.3
75°	989.9	1004.5	939.0	920.8	920.8	909.8	949.9	1564.9	27499.1	62324.2
77.5°	898.9	928.0	822.5	764.3	749.7	717.0	775.2	957.2	12028.1	29260.5
80°	742.4	782.5	676.9	607.8	582.3	545.9	611.4	669.6	3577.5	6794.7
82.5°	553.2	571.4	480.4	433.1	411.2	385.8	458.6	465.8	1164.6	2405.6
85°	353.0	360.3	294.8	254.8	243.8	232.9	291.1	254.8	444.0	1768.7
87.5°	123.7	141.9	112.8	101.9	109.2	91.0	134.7	76.4	123.7	1248.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°

12796.0
12803.3
12887.0
12974.4
13007.1
13036.2
13109.0
13269.1
13513.0
13775.0
14095.3
14477.4
14761.3
15077.9
15605.6
16318.9
17392.5
18054.9
18440.7
19583.4
21275.8
23805.1
27269.8
31709.8
37441.8
44513.1
52891.0
62080.4
72976.6
79167.2
66662.3
28652.8
6507.2
2718.6
2569.4
1546.7
0.0

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