

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: P941333

Luminaire Tested: **GALN-SB4D-827-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941333
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-SB4D-827-U-T1
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 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: 35083 lumens
Efficiency: N/A
Efficacy: 119.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

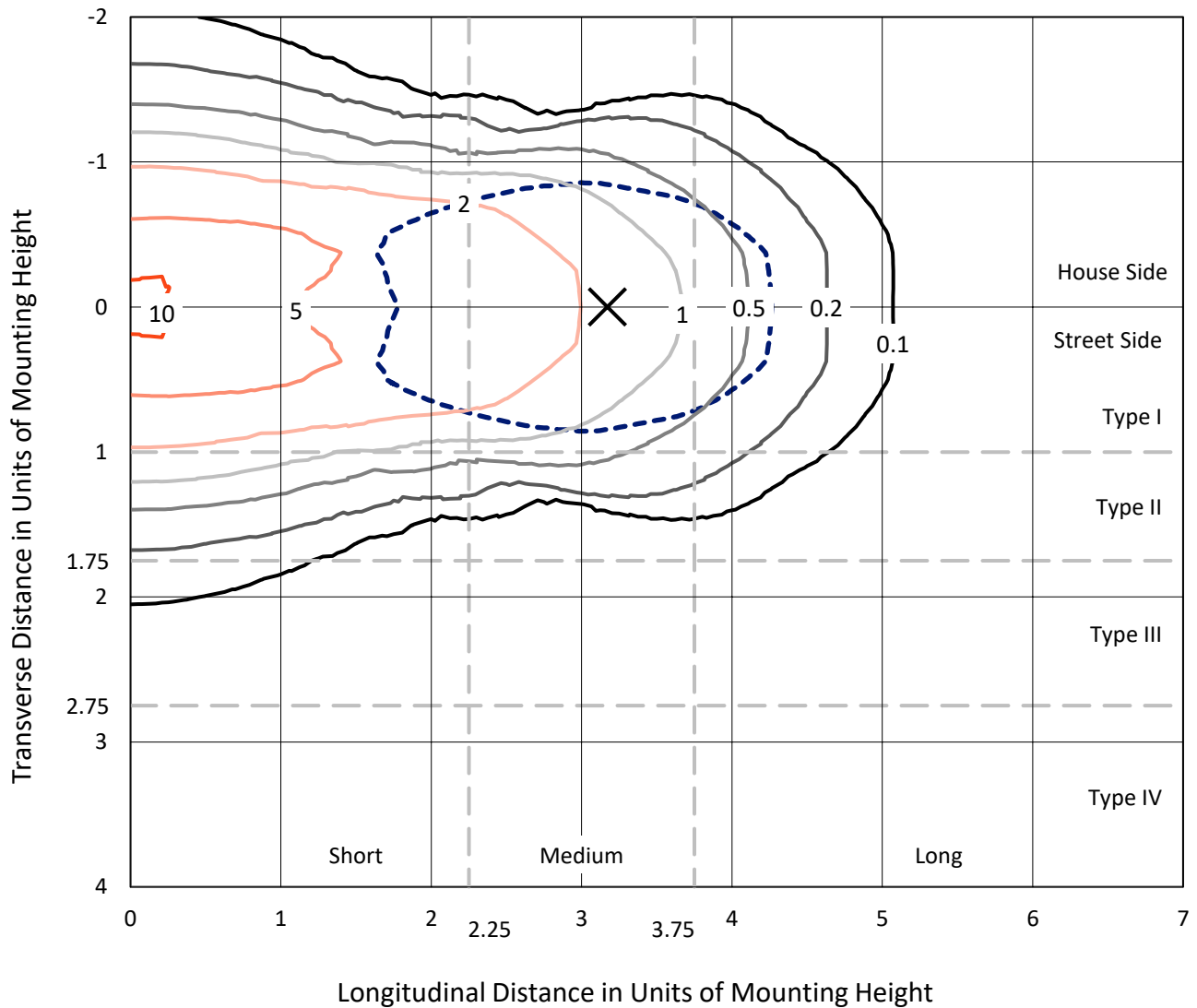
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

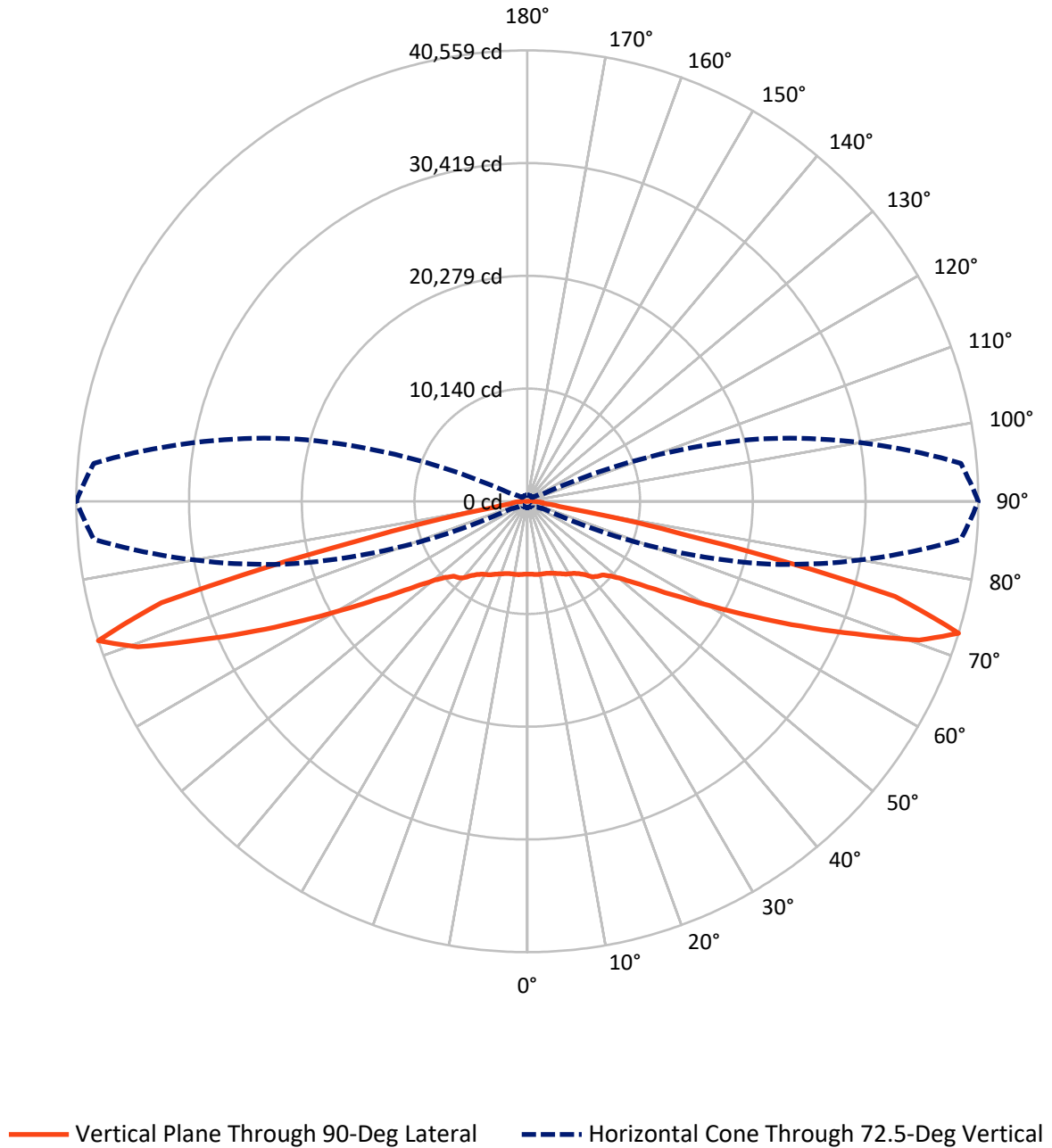
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 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	17541.5	0.0	17541.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17541.5	0.0	17541.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	35083.0	0.0	35083.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	635.6	1.8
10°-20°	1943.6	5.5
20°-30°	3240.7	9.2
30°-40°	4457.0	12.7
40°-50°	5443.2	15.5
50°-60°	6295.6	17.9
60°-70°	7506.5	21.4
70°-80°	5239.0	14.9
80°-90°	321.8	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°	35083.0	100.0
0°-180°	35083.0	100.0

Coefficient of Utilization



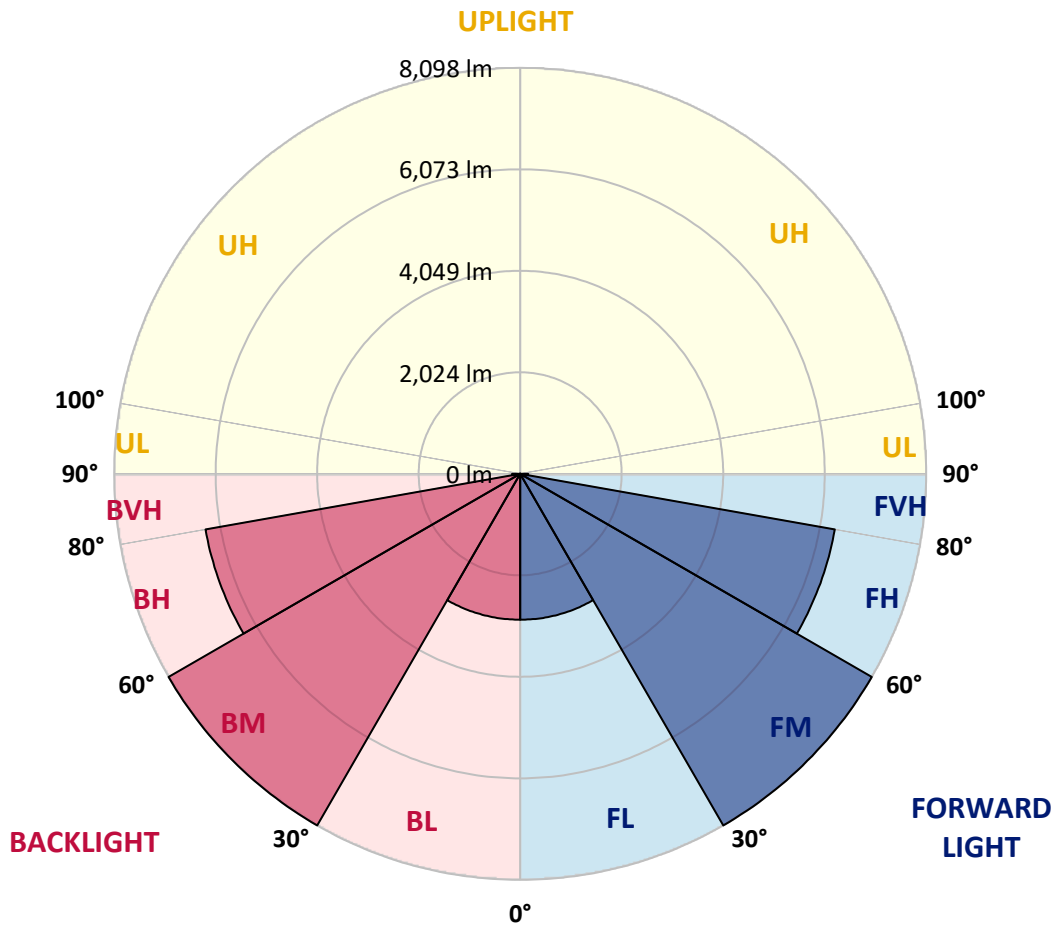
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2910.0	8.3			
FM (30°-60°)	8097.9	23.1			
FH (60°-80°)	6372.8	18.2			G3/7500
FVH (80°-90°)	160.9	0.5			G2/225
BL (0°-30°)	2910.0	8.3	B4/5000		
BM (30°-60°)	8097.9	23.1	B4/8500		
BH (60°-80°)	6372.8	18.2	B5		G5
BVH (80°-90°)	160.9	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°
0°	6555.6	6555.6	6555.6	6555.6	6555.6	6555.6	6555.6	6555.6	6555.6	6555.6
2.5°	6561.2	6568.7	6568.7	6563.1	6576.1	6565.0	6565.0	6559.4	6565.0	6559.4
5°	6594.8	6604.1	6607.8	6606.0	6622.8	6613.4	6613.4	6606.0	6607.8	6602.2
7.5°	6658.2	6671.2	6678.7	6688.0	6712.2	6701.1	6693.6	6671.2	6661.9	6647.0
10°	6678.7	6693.6	6717.8	6766.3	6822.3	6824.1	6801.7	6745.8	6702.9	6669.4
12.5°	6615.3	6635.8	6686.1	6785.0	6909.9	6960.2	6924.8	6831.6	6747.7	6688.0
15°	6535.1	6557.5	6633.9	6783.1	6967.7	7085.2	7081.4	6958.4	6824.1	6730.9
17.5°	6410.2	6432.6	6542.6	6751.4	7012.4	7206.3	7258.6	7131.8	6943.4	6818.5
20°	6184.6	6205.1	6358.0	6650.7	7027.4	7335.0	7471.1	7359.2	7124.3	6954.6
22.5°	5891.9	5923.6	6102.6	6477.3	6991.9	7469.2	7713.5	7637.0	7335.0	7100.1
25°	5578.6	5612.2	5821.0	6264.8	6900.6	7566.2	8000.6	7952.1	7573.7	7280.9
27.5°	5308.3	5343.7	5571.2	6054.1	6758.9	7603.5	8284.0	8308.3	7862.7	7480.4
30°	5095.7	5129.3	5371.7	5884.4	6576.1	7566.2	8532.0	8699.8	8157.2	7653.8
32.5°	4862.7	4905.5	5161.0	5677.4	6359.9	7476.7	8748.3	9123.1	8498.5	7840.3
35°	4568.1	4607.2	4875.7	5394.0	6076.4	7333.1	8929.2	9592.9	8987.0	8123.7
37.5°	4210.1	4247.4	4514.0	5039.8	5794.9	7131.8	9067.1	10122.4	9568.7	8532.0
40°	3850.2	3885.6	4135.5	4644.5	5457.4	6874.5	9115.6	10640.8	10236.2	9093.2
42.5°	3520.2	3551.9	3781.2	4254.8	5078.9	6546.3	9052.2	11092.0	10834.7	9484.8
45°	3216.3	3244.3	3447.5	3889.4	4685.5	6147.3	8862.0	11576.8	11546.9	9764.5
47.5°	2869.5	2897.5	3108.1	3535.1	4292.1	5679.3	8539.5	12054.1	12537.0	10398.4
50°	2446.2	2470.5	2686.8	3126.8	3883.8	5181.5	8092.0	12428.8	13786.2	11358.6
52.5°	1944.7	1970.8	2181.5	2621.5	3399.0	4646.4	7502.8	12673.1	15229.3	12760.7
55°	1446.9	1465.5	1648.2	2043.5	2798.6	4036.7	6764.5	12742.1	16866.4	14677.4
57.5°	1049.7	1060.9	1178.4	1473.0	2121.8	3274.1	5867.6	12563.1	18814.8	17134.9
60°	850.2	853.9	889.4	1019.9	1474.8	2412.7	4784.3	11947.8	20929.2	20302.7
62.5°	771.9	771.9	781.2	816.7	997.5	1592.3	3473.6	10672.5	23196.4	24305.8
65°	717.8	717.8	721.6	738.3	786.8	1014.3	2192.7	8595.4	25107.5	28995.0
67.5°	669.4	671.2	669.4	675.0	702.9	749.5	1271.6	5936.6	26136.7	33854.0
70°	619.0	622.7	613.4	613.4	635.8	637.7	796.1	3255.4	25282.8	37926.1
72.5°	559.4	564.9	550.0	546.3	563.1	555.6	598.5	1562.5	21706.7	39141.7
75°	507.1	514.6	481.0	471.7	471.7	466.1	486.6	801.7	14088.3	31929.8
77.5°	460.5	475.5	421.4	391.5	384.1	367.3	397.1	490.4	6162.2	14990.7
80°	380.4	400.9	346.8	311.4	298.3	279.7	313.2	343.1	1832.8	3481.0
82.5°	283.4	292.7	246.1	221.9	210.7	197.6	234.9	238.7	596.6	1232.4
85°	180.9	184.6	151.0	130.5	124.9	119.3	149.2	130.5	227.5	906.2
87.5°	63.4	72.7	57.8	52.2	55.9	46.6	69.0	39.2	63.4	639.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°

6555.6
6559.4
6602.2
6647.0
6663.8
6678.7
6716.0
6798.0
6922.9
7057.2
7221.3
7417.0
7562.5
7724.7
7995.0
8360.5
8910.5
9249.9
9447.5
10032.9
10899.9
12195.8
13970.8
16245.5
19182.1
22804.9
27097.0
31804.9
37387.2
40558.8
34152.3
14679.3
3333.7
1392.8
1316.3
792.4
0.0

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