

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: P941673

Luminaire Tested: **GALN-SB5B-827-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941673
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-SB5B-827-U-T1
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24469 lumens
Efficiency: N/A
Efficacy: 133.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

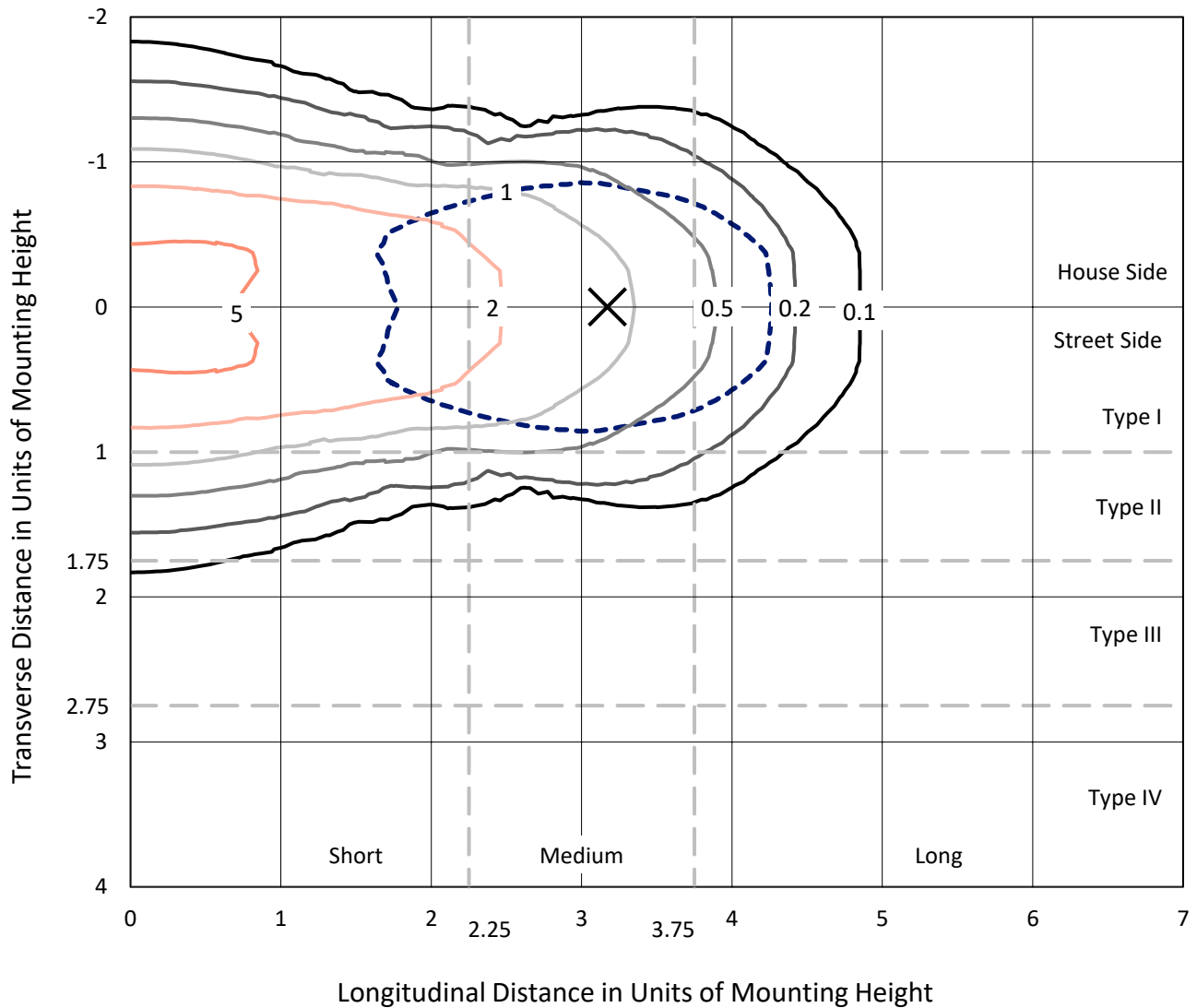
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

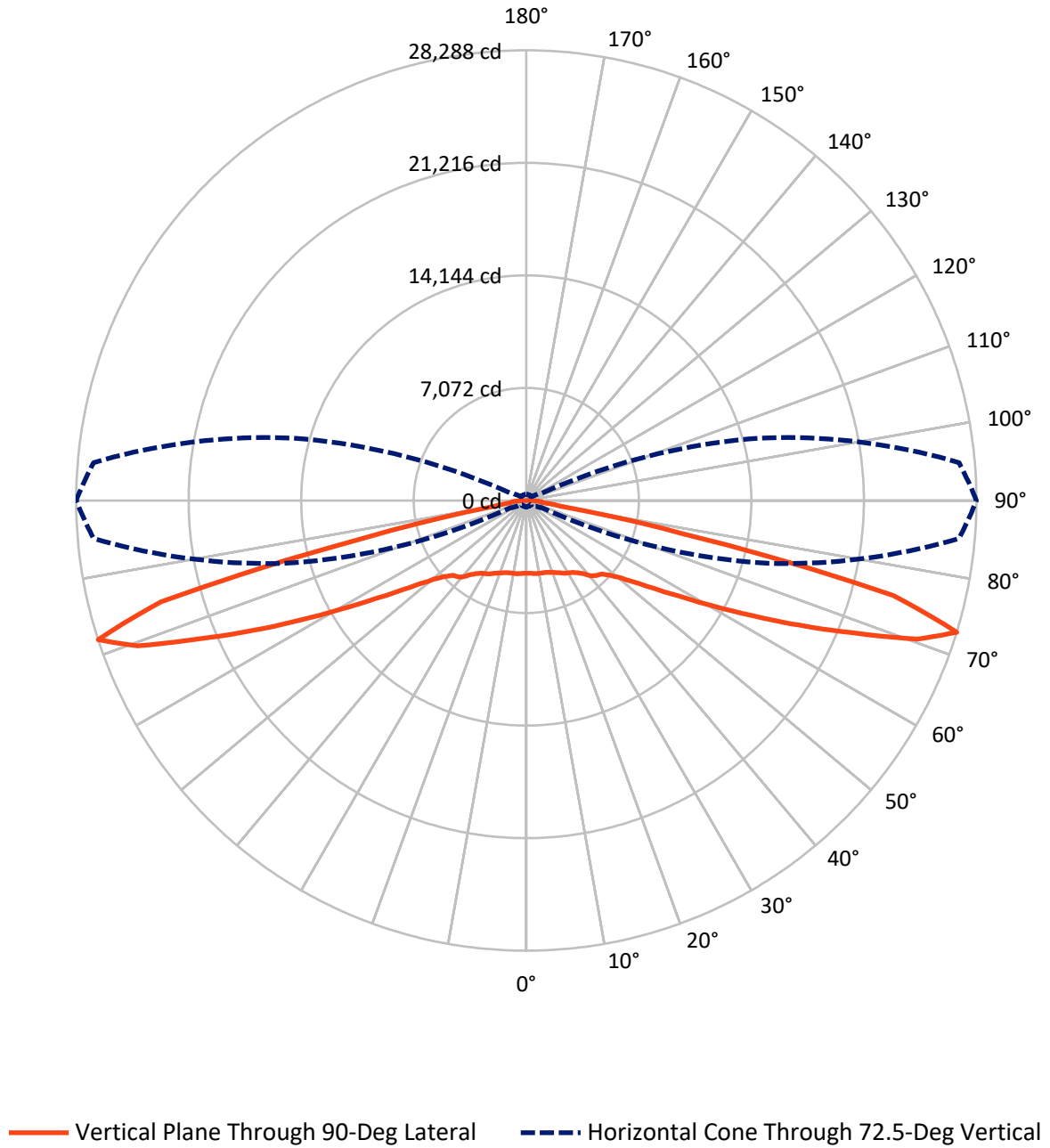
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 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	12234.5	0.0	12234.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12234.5	0.0	12234.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	24469.0	0.0	24469.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	443.3	1.8
10°-20°	1355.6	5.5
20°-30°	2260.3	9.2
30°-40°	3108.6	12.7
40°-50°	3796.4	15.5
50°-60°	4390.9	17.9
60°-70°	5235.5	21.4
70°-80°	3654.0	14.9
80°-90°	224.4	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°	24469.0	100.0
0°-180°	24469.0	100.0



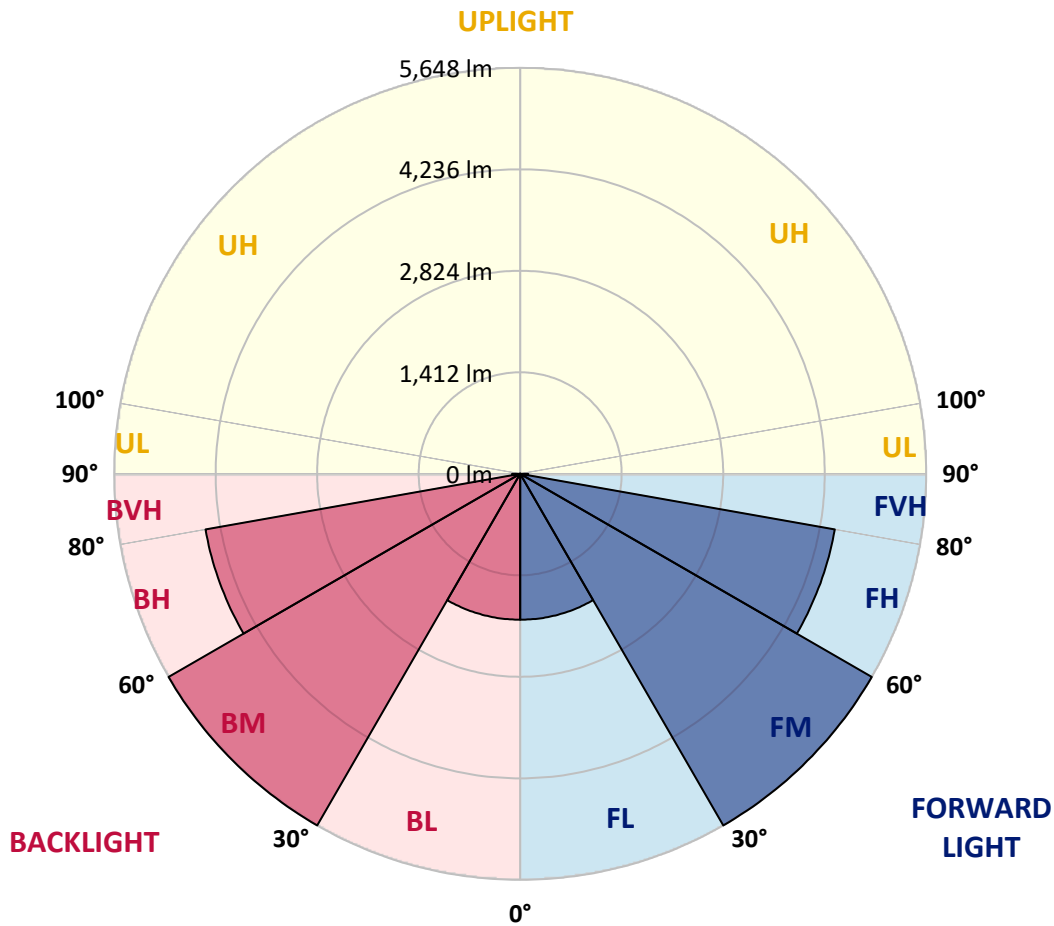
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2029.6	8.3			
FM (30°-60°)	5648.0	23.1			
FH (60°-80°)	4444.8	18.2			G2/5000
FVH (80°-90°)	112.2	0.5			G2/225
BL (0°-30°)	2029.6	8.3	B3/2500		
BM (30°-60°)	5648.0	23.1	B4/8500		
BH (60°-80°)	4444.8	18.2	B4/5000		G4/5000
BVH (80°-90°)	112.2	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4572.3	4572.3	4572.3	4572.3	4572.3	4572.3	4572.3	4572.3	4572.3	4572.3
2.5°	4576.2	4581.4	4581.4	4577.5	4586.6	4578.8	4578.8	4574.9	4578.8	4574.9
5°	4599.6	4606.1	4608.7	4607.4	4619.1	4612.6	4612.6	4607.4	4608.7	4604.8
7.5°	4643.8	4652.9	4658.1	4664.6	4681.5	4673.7	4668.5	4652.9	4646.4	4636.0
10°	4658.1	4668.5	4685.4	4719.2	4758.3	4759.6	4743.9	4704.9	4675.0	4651.6
12.5°	4613.9	4628.2	4663.3	4732.2	4819.4	4854.5	4829.8	4764.8	4706.2	4664.6
15°	4558.0	4573.6	4626.9	4730.9	4859.7	4941.6	4939.0	4853.2	4759.6	4694.5
17.5°	4470.9	4486.5	4563.2	4708.8	4890.9	5026.1	5062.6	4974.1	4842.8	4755.7
20°	4313.5	4327.8	4434.4	4638.6	4901.3	5115.9	5210.8	5132.8	4968.9	4850.6
22.5°	4109.3	4131.4	4256.3	4517.7	4876.6	5209.5	5379.9	5326.5	5115.9	4952.0
25°	3890.9	3914.3	4059.9	4369.4	4812.9	5277.1	5580.1	5546.3	5282.3	5078.2
27.5°	3702.3	3727.0	3885.7	4222.5	4714.0	5303.1	5777.8	5794.7	5483.9	5217.3
30°	3554.1	3577.5	3746.5	4104.1	4586.6	5277.1	5950.7	6067.8	5689.4	5338.2
32.5°	3391.5	3421.4	3599.6	3959.8	4435.7	5214.7	6101.6	6363.0	5927.3	5468.3
35°	3186.0	3213.3	3400.6	3762.1	4238.1	5114.6	6227.7	6690.7	6268.0	5665.9
37.5°	2936.4	2962.4	3148.3	3515.0	4041.7	4974.1	6324.0	7060.0	6673.8	5950.7
40°	2685.4	2710.1	2884.3	3239.4	3806.3	4794.7	6357.8	7421.5	7139.3	6342.2
42.5°	2455.2	2477.3	2637.3	2967.6	3542.4	4565.8	6313.6	7736.2	7556.8	6615.3
45°	2243.2	2262.7	2404.5	2712.7	3268.0	4287.5	6180.9	8074.3	8053.5	6810.3
47.5°	2001.4	2020.9	2167.8	2465.6	2993.6	3961.1	5955.9	8407.2	8744.1	7252.5
50°	1706.2	1723.1	1873.9	2180.8	2708.8	3613.9	5643.8	8668.6	9615.3	7922.2
52.5°	1356.3	1374.5	1521.5	1828.4	2370.7	3240.7	5232.9	8839.0	10621.9	8900.1
55°	1009.1	1022.1	1149.6	1425.3	1951.9	2815.4	4717.9	8887.1	11763.6	10236.9
57.5°	732.1	739.9	821.9	1027.3	1479.9	2283.5	4092.4	8762.3	13122.6	11950.9
60°	593.0	595.6	620.3	711.3	1028.6	1682.7	3336.9	8333.1	14597.3	14160.3
62.5°	538.4	538.4	544.9	569.6	695.7	1110.6	2422.7	7443.6	16178.6	16952.3
65°	500.7	500.7	503.3	515.0	548.8	707.4	1529.3	5995.0	17511.5	20222.9
67.5°	466.9	468.2	466.9	470.8	490.3	522.8	886.9	4140.6	18229.3	23611.8
70°	431.7	434.3	427.8	427.8	443.4	444.7	555.3	2270.5	17633.8	26451.9
72.5°	390.1	394.0	383.6	381.0	392.7	387.5	417.4	1089.8	15139.5	27299.8
75°	353.7	358.9	335.5	329.0	329.0	325.1	339.4	559.2	9826.0	22269.8
77.5°	321.2	331.6	293.9	273.1	267.9	256.2	277.0	342.0	4297.9	10455.4
80°	265.3	279.6	241.9	217.2	208.1	195.1	218.5	239.3	1278.3	2427.9
82.5°	197.7	204.2	171.7	154.8	146.9	137.8	163.9	166.5	416.1	859.6
85°	126.1	128.7	105.3	91.0	87.1	83.2	104.0	91.0	158.7	632.0
87.5°	44.2	50.7	40.3	36.4	39.0	32.5	48.1	27.3	44.2	446.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°

4572.3
4574.9
4604.8
4636.0
4647.7
4658.1
4684.1
4741.3
4828.5
4922.1
5036.5
5173.1
5274.5
5387.7
5576.2
5831.1
6214.7
6451.4
6589.2
6997.6
7602.3
8506.1
9744.1
11330.6
13378.8
15905.5
18899.1
22182.6
26076.1
28288.1
23819.9
10238.2
2325.2
971.4
918.1
552.7
0.0

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