

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: P939993

Luminaire Tested: **GALN-SB2D-835-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939993
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-SB2D-835-U-T1
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18673 lumens
Efficiency: N/A
Efficacy: 126.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

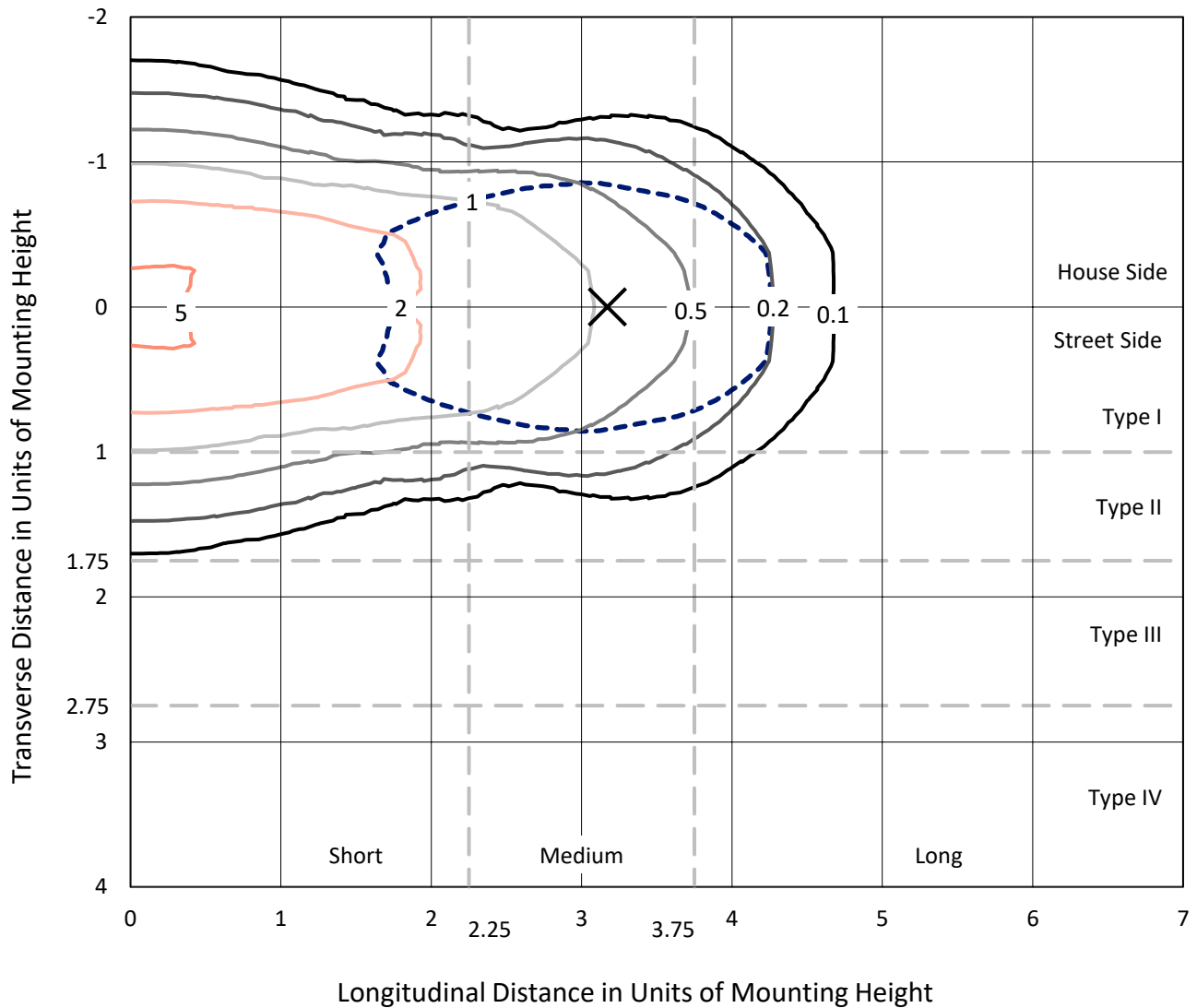
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

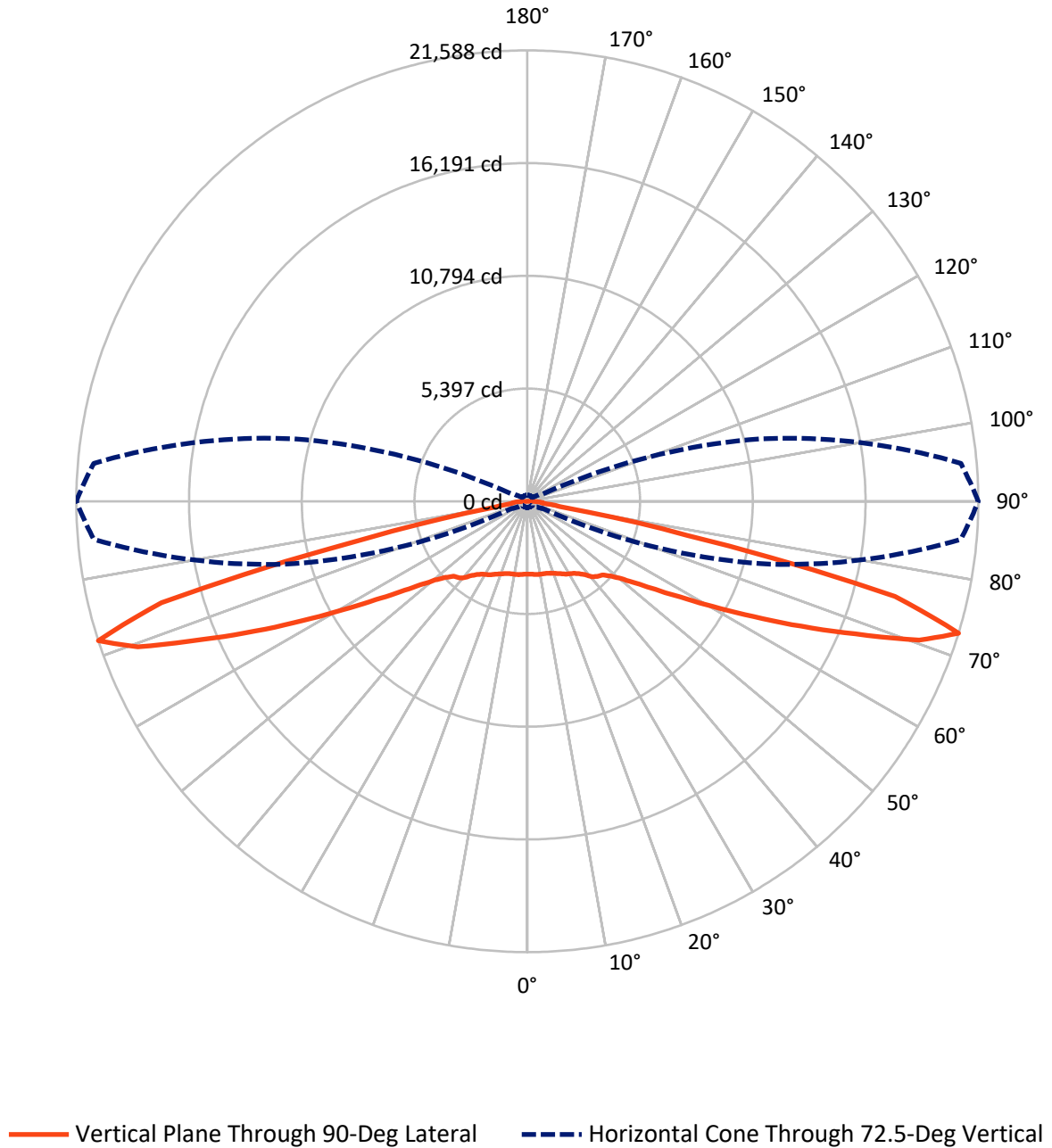
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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	9336.5	0.0	9336.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9336.5	0.0	9336.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	18673.0	0.0	18673.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	338.3	1.8
10°-20°	1034.5	5.5
20°-30°	1724.9	9.2
30°-40°	2372.2	12.7
40°-50°	2897.1	15.5
50°-60°	3350.9	17.9
60°-70°	3995.3	21.4
70°-80°	2788.5	14.9
80°-90°	171.3	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°	18673.0	100.0
0°-180°	18673.0	100.0



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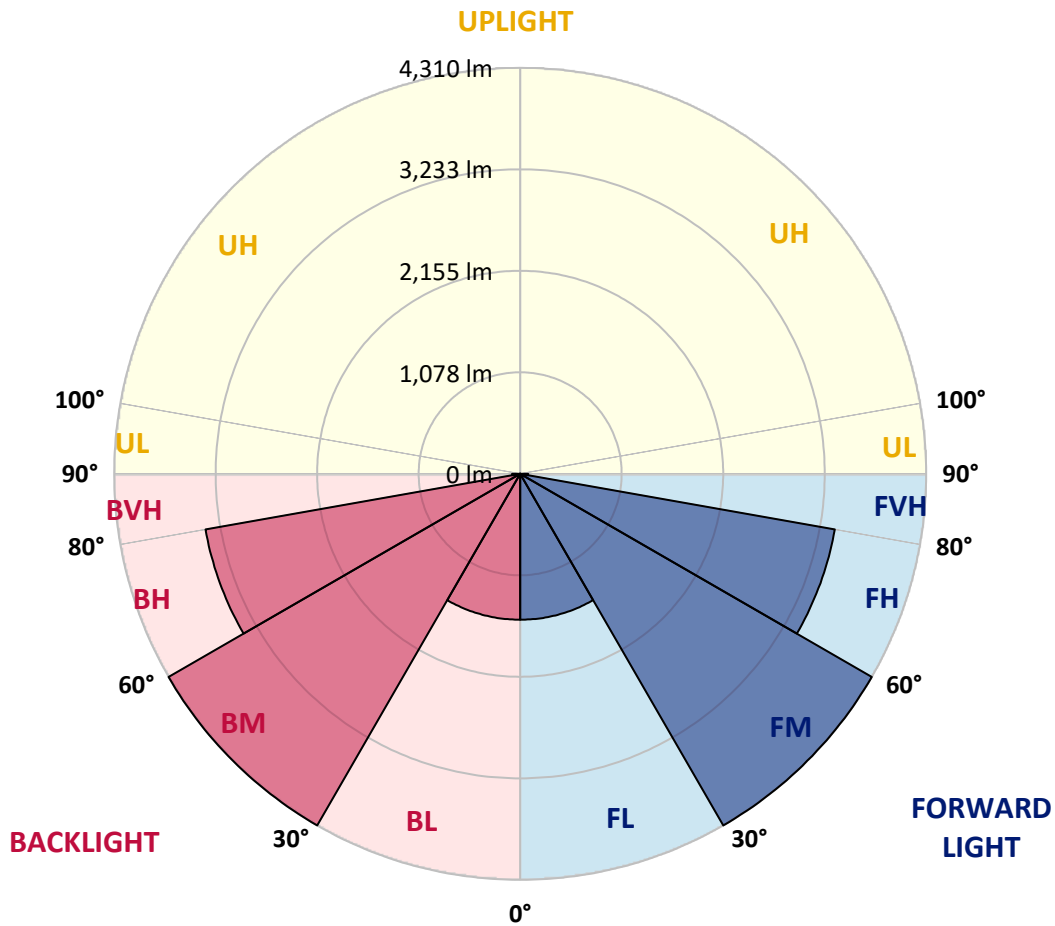
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1548.8	8.3			
FM (30°-60°)	4310.1	23.1			
FH (60°-80°)	3391.9	18.2			G2/5000
FVH (80°-90°)	85.6	0.5			G1/100
BL (0°-30°)	1548.8	8.3	B3/2500		
BM (30°-60°)	4310.1	23.1	B3/5000		
BH (60°-80°)	3391.9	18.2	B4/5000		G4/5000
BVH (80°-90°)	85.6	0.5			G1/100
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°	3489.2	3489.2	3489.2	3489.2	3489.2	3489.2	3489.2	3489.2	3489.2	3489.2
2.5°	3492.2	3496.2	3496.2	3493.2	3500.2	3494.2	3494.2	3491.2	3494.2	3491.2
5°	3510.1	3515.0	3517.0	3516.0	3525.0	3520.0	3520.0	3516.0	3517.0	3514.1
7.5°	3543.8	3550.8	3554.7	3559.7	3572.6	3566.7	3562.7	3550.8	3545.8	3537.9
10°	3554.7	3562.7	3575.6	3601.4	3631.2	3632.2	3620.2	3590.5	3567.6	3549.8
12.5°	3521.0	3531.9	3558.7	3611.3	3677.8	3704.6	3685.7	3636.1	3591.5	3559.7
15°	3478.3	3490.2	3530.9	3610.3	3708.6	3771.1	3769.1	3703.6	3632.2	3582.5
17.5°	3411.8	3423.7	3482.3	3593.4	3732.4	3835.6	3863.4	3795.9	3695.7	3629.2
20°	3291.8	3302.7	3384.1	3539.9	3740.3	3904.1	3976.5	3917.0	3791.9	3701.6
22.5°	3136.0	3152.8	3248.1	3447.6	3721.5	3975.5	4105.5	4064.8	3904.1	3779.0
25°	2969.2	2987.1	3098.2	3334.4	3672.8	4027.1	4258.4	4232.5	4031.1	3875.3
27.5°	2825.3	2844.2	2965.3	3222.3	3597.4	4047.0	4409.2	4422.1	4184.9	3981.5
30°	2712.2	2730.1	2859.1	3132.0	3500.2	4027.1	4541.2	4630.5	4341.7	4073.8
32.5°	2588.2	2611.0	2746.9	3021.8	3385.0	3979.5	4656.3	4855.8	4523.3	4173.0
35°	2431.4	2452.2	2595.1	2871.0	3234.2	3903.1	4752.6	5105.9	4783.3	4323.8
37.5°	2240.8	2260.7	2402.6	2682.4	3084.4	3795.9	4826.0	5387.7	5093.0	4541.2
40°	2049.3	2068.1	2201.1	2472.0	2904.7	3658.9	4851.8	5663.6	5448.2	4839.9
42.5°	1873.6	1890.5	2012.6	2264.6	2703.3	3484.3	4818.1	5903.7	5766.8	5048.3
45°	1711.9	1726.8	1834.9	2070.1	2493.9	3271.9	4716.8	6161.8	6145.9	5197.2
47.5°	1527.3	1542.2	1654.3	1881.6	2284.5	3022.8	4545.2	6415.8	6672.8	5534.6
50°	1302.0	1314.9	1430.0	1664.2	2067.2	2757.9	4307.0	6615.3	7337.7	6045.6
52.5°	1035.1	1049.0	1161.1	1395.3	1809.1	2473.0	3993.4	6745.3	8105.9	6791.9
55°	770.1	780.0	877.3	1087.7	1489.6	2148.5	3600.4	6782.0	8977.2	7812.1
57.5°	558.7	564.7	627.2	784.0	1129.3	1742.6	3123.1	6686.7	10014.2	9120.1
60°	452.5	454.5	473.4	542.8	785.0	1284.2	2546.5	6359.2	11139.6	10806.1
62.5°	410.8	410.8	415.8	434.7	530.9	847.5	1848.8	5680.4	12346.3	12936.8
65°	382.1	382.1	384.1	393.0	418.8	539.9	1167.1	4574.9	13363.5	15432.7
67.5°	356.3	357.3	356.3	359.2	374.1	398.9	676.8	3159.8	13911.3	18018.8
70°	329.5	331.5	326.5	326.5	338.4	339.4	423.8	1732.7	13456.8	20186.2
72.5°	297.7	300.7	292.8	290.8	299.7	295.7	318.6	831.6	11553.4	20833.3
75°	269.9	273.9	256.0	251.1	251.1	248.1	259.0	426.7	7498.5	16994.7
77.5°	245.1	253.1	224.3	208.4	204.4	195.5	211.4	261.0	3279.9	7978.8
80°	202.4	213.4	184.6	165.7	158.8	148.9	166.7	182.6	975.5	1852.8
82.5°	150.8	155.8	131.0	118.1	112.1	105.2	125.0	127.0	317.6	656.0
85°	96.3	98.2	80.4	69.5	66.5	63.5	79.4	69.5	121.1	482.3
87.5°	33.7	38.7	30.8	27.8	29.8	24.8	36.7	20.8	33.7	340.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°

3489.2
3491.2
3514.1
3537.9
3546.8
3554.7
3574.6
3618.3
3684.7
3756.2
3843.5
3947.7
4025.1
4111.5
4255.4
4449.9
4742.6
4923.3
5028.4
5340.1
5801.5
6491.2
7436.0
8646.7
10209.7
12137.9
14422.4
16928.2
19899.4
21587.5
18177.6
7813.1
1774.4
741.3
700.6
421.8
0.0

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