

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: P939973

Luminaire Tested: **GALN-SB2D-827-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939973
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-827-U-T1
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 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: 17506 lumens
Efficiency: N/A
Efficacy: 118.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

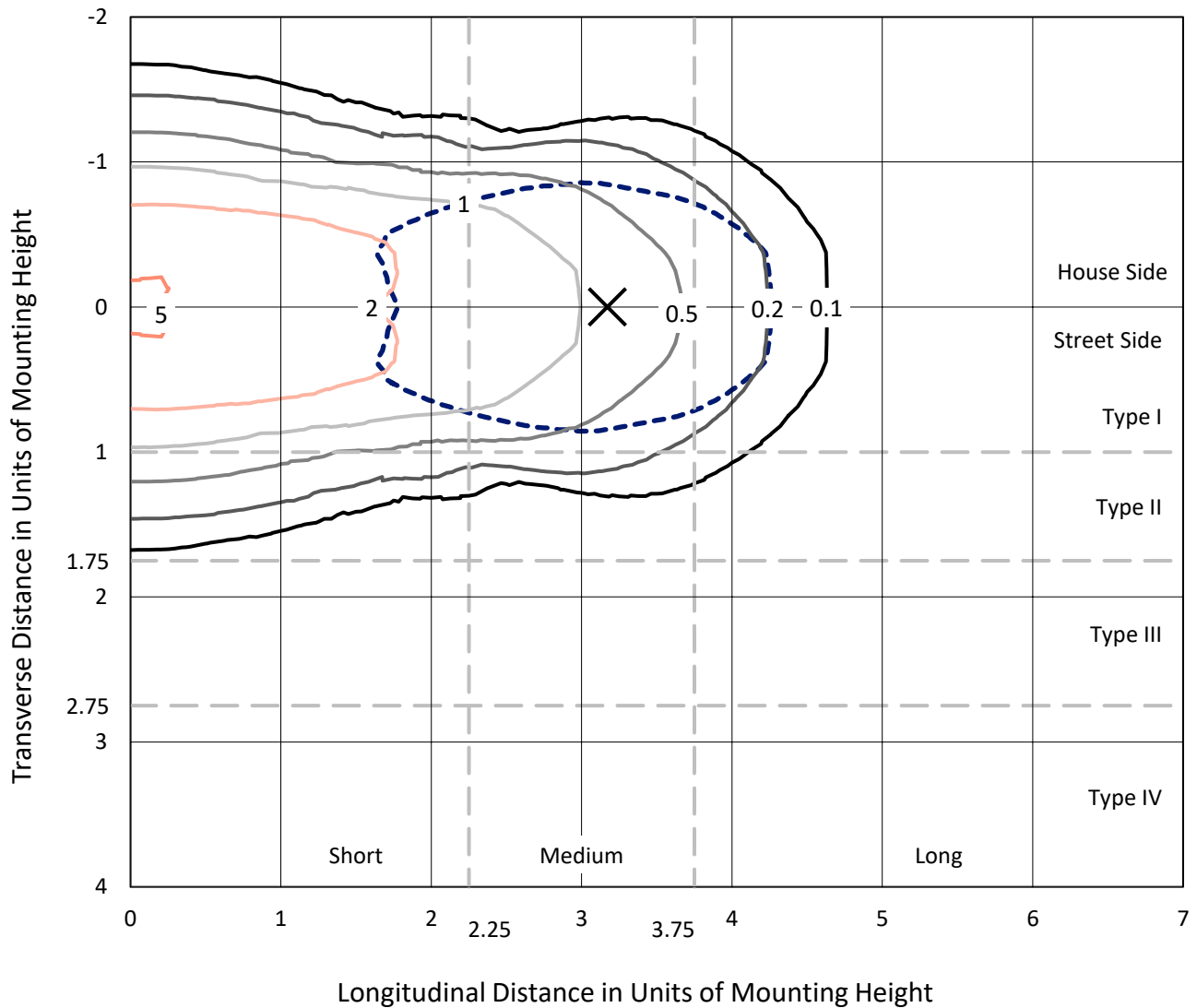
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

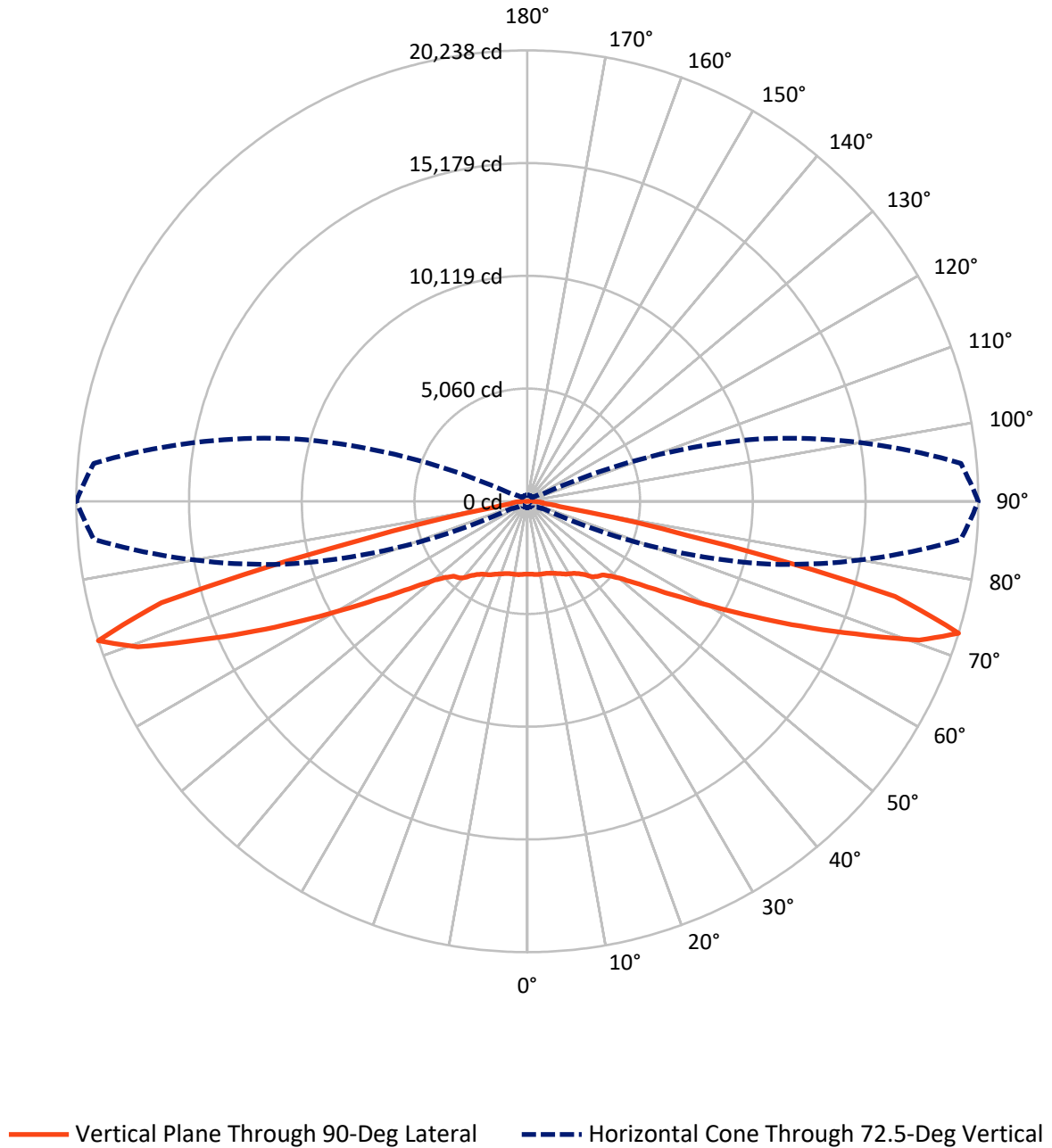
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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	8753.0	0.0	8753.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8753.0	0.0	8753.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	17506.0	0.0	17506.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	317.2	1.8
10°-20°	969.8	5.5
20°-30°	1617.1	9.2
30°-40°	2224.0	12.7
40°-50°	2716.1	15.5
50°-60°	3141.4	17.9
60°-70°	3745.6	21.4
70°-80°	2614.2	14.9
80°-90°	160.6	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°	17506.0	100.0
0°-180°	17506.0	100.0

Coefficient of Utilization



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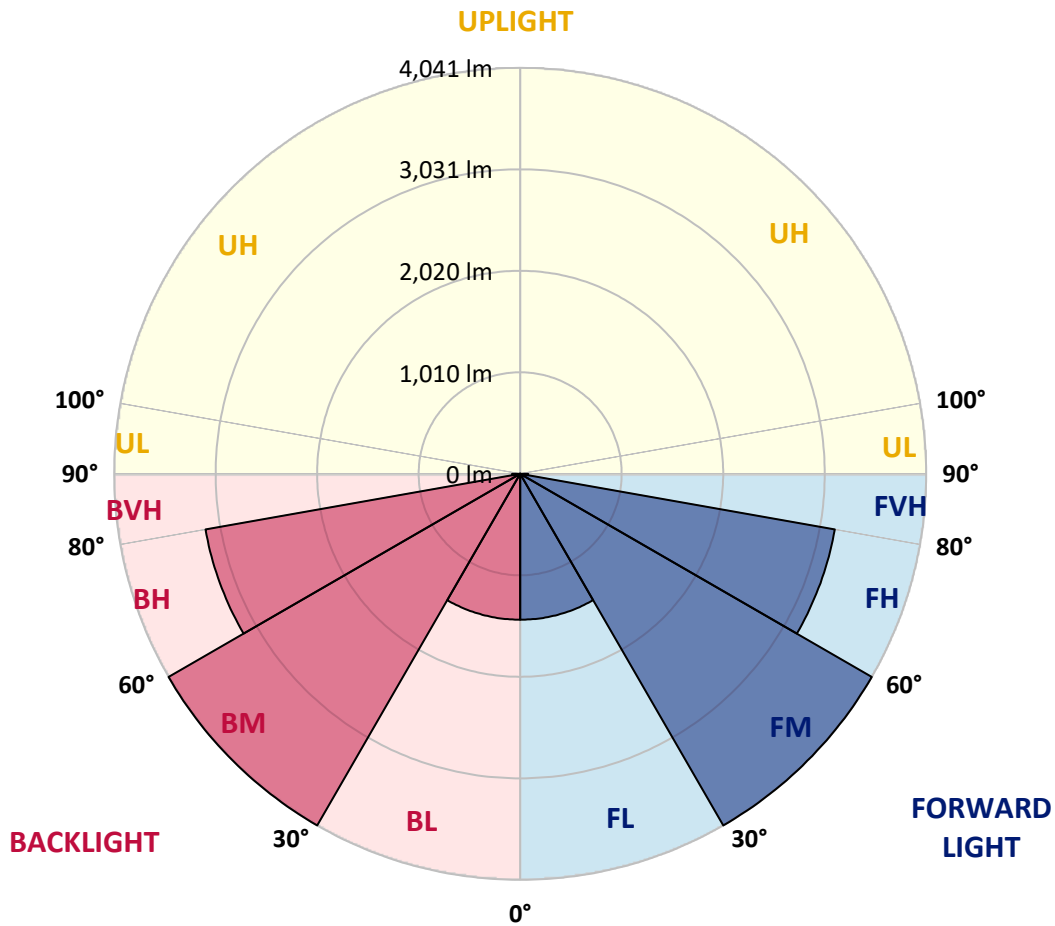
CATALOG NUMBER: GALN-SB2D-827-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1452.0	8.3			
FM (30°-60°)	4040.8	23.1			
FH (60°-80°)	3179.9	18.2			G2/5000
FVH (80°-90°)	80.3	0.5			G1/100
BL (0°-30°)	1452.0	8.3	B3/2500		
BM (30°-60°)	4040.8	23.1	B3/5000		
BH (60°-80°)	3179.9	18.2	B4/5000		G4/5000
BVH (80°-90°)	80.3	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°	3271.2	3271.2	3271.2	3271.2	3271.2	3271.2	3271.2	3271.2	3271.2	3271.2
2.5°	3274.0	3277.7	3277.7	3274.9	3281.4	3275.8	3275.8	3273.0	3275.8	3273.0
5°	3290.7	3295.4	3297.2	3296.3	3304.7	3300.0	3300.0	3296.3	3297.2	3294.4
7.5°	3322.4	3328.9	3332.6	3337.2	3349.3	3343.7	3340.0	3328.9	3324.2	3316.8
10°	3332.6	3340.0	3352.1	3376.3	3404.2	3405.2	3394.0	3366.1	3344.7	3327.9
12.5°	3301.0	3311.2	3336.3	3385.6	3448.0	3473.1	3455.4	3408.9	3367.0	3337.2
15°	3260.9	3272.1	3310.3	3384.7	3476.8	3535.4	3533.5	3472.1	3405.2	3358.6
17.5°	3198.6	3209.8	3264.7	3368.9	3499.1	3595.9	3621.9	3558.7	3464.7	3402.4
20°	3086.0	3096.3	3172.6	3318.6	3506.6	3660.1	3728.0	3672.2	3554.9	3470.3
22.5°	2940.0	2955.8	3045.1	3232.1	3488.9	3727.1	3848.9	3810.8	3660.1	3542.8
25°	2783.7	2800.4	2904.6	3126.0	3443.3	3775.4	3992.2	3968.0	3779.2	3633.1
27.5°	2648.8	2666.4	2779.9	3020.9	3372.6	3794.0	4133.6	4145.7	3923.4	3732.6
30°	2542.7	2559.4	2680.4	2936.2	3281.4	3775.4	4257.4	4341.1	4070.4	3819.2
32.5°	2426.4	2447.8	2575.3	2833.0	3173.5	3730.8	4365.3	4552.3	4240.6	3912.2
35°	2279.4	2298.9	2432.9	2691.6	3032.1	3659.1	4455.5	4786.8	4484.4	4053.6
37.5°	2100.8	2119.4	2252.4	2514.8	2891.6	3558.7	4524.4	5051.0	4774.7	4257.4
40°	1921.2	1938.9	2063.6	2317.6	2723.2	3430.3	4548.6	5309.6	5107.7	4537.4
42.5°	1756.5	1772.4	1886.8	2123.1	2534.3	3266.5	4516.9	5534.8	5406.4	4732.8
45°	1604.9	1618.8	1720.3	1940.8	2338.0	3067.4	4422.0	5776.7	5761.8	4872.3
47.5°	1431.8	1445.8	1550.9	1764.0	2141.7	2833.9	4261.1	6014.8	6255.8	5188.7
50°	1220.6	1232.7	1340.7	1560.2	1938.0	2585.5	4037.8	6201.8	6879.2	5667.8
52.5°	970.4	983.4	1088.5	1308.1	1696.1	2318.5	3743.8	6323.7	7599.3	6367.5
55°	722.0	731.3	822.4	1019.7	1396.5	2014.3	3375.4	6358.1	8416.1	7323.9
57.5°	523.8	529.4	588.0	735.0	1058.8	1633.7	2927.9	6268.8	9388.4	8550.1
60°	424.2	426.1	443.8	508.9	735.9	1203.9	2387.3	5961.8	10443.4	10130.8
62.5°	385.2	385.2	389.8	407.5	497.7	794.5	1733.3	5325.4	11574.7	12128.3
65°	358.2	358.2	360.1	368.4	392.6	506.1	1094.1	4289.0	12528.4	14468.2
67.5°	334.0	334.9	334.0	336.8	350.7	374.0	634.5	2962.3	13041.9	16892.7
70°	308.9	310.7	306.1	306.1	317.3	318.2	397.3	1624.4	12615.8	18924.7
72.5°	279.1	281.9	274.5	272.6	281.0	277.3	298.6	779.7	10831.4	19531.3
75°	253.1	256.8	240.0	235.4	235.4	232.6	242.8	400.1	7029.9	15932.6
77.5°	229.8	237.2	210.3	195.4	191.7	183.3	198.2	244.7	3074.9	7480.2
80°	189.8	200.0	173.0	155.4	148.9	139.6	156.3	171.2	914.6	1737.0
82.5°	141.4	146.1	122.8	110.7	105.1	98.6	117.2	119.1	297.7	615.0
85°	90.2	92.1	75.4	65.1	62.3	59.5	74.4	65.1	113.5	452.2
87.5°	31.6	36.3	28.8	26.1	27.9	23.3	34.4	19.5	31.6	319.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°

3271.2
3273.0
3294.4
3316.8
3325.1
3332.6
3351.2
3392.1
3454.5
3521.5
3603.3
3701.0
3773.6
3854.5
3989.4
4171.8
4446.2
4615.6
4714.2
5006.3
5438.9
6085.6
6971.3
8106.3
9571.6
11379.4
13521.1
15870.3
18655.8
20238.3
17041.6
7324.8
1663.5
695.0
656.8
395.4
0.0

OF REPORT)