

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: P942013

Luminaire Tested: **GALN-SB5D-827-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942013
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-SB5D-827-U-T1
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 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: 44219 lumens
Efficiency: N/A
Efficacy: 121.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

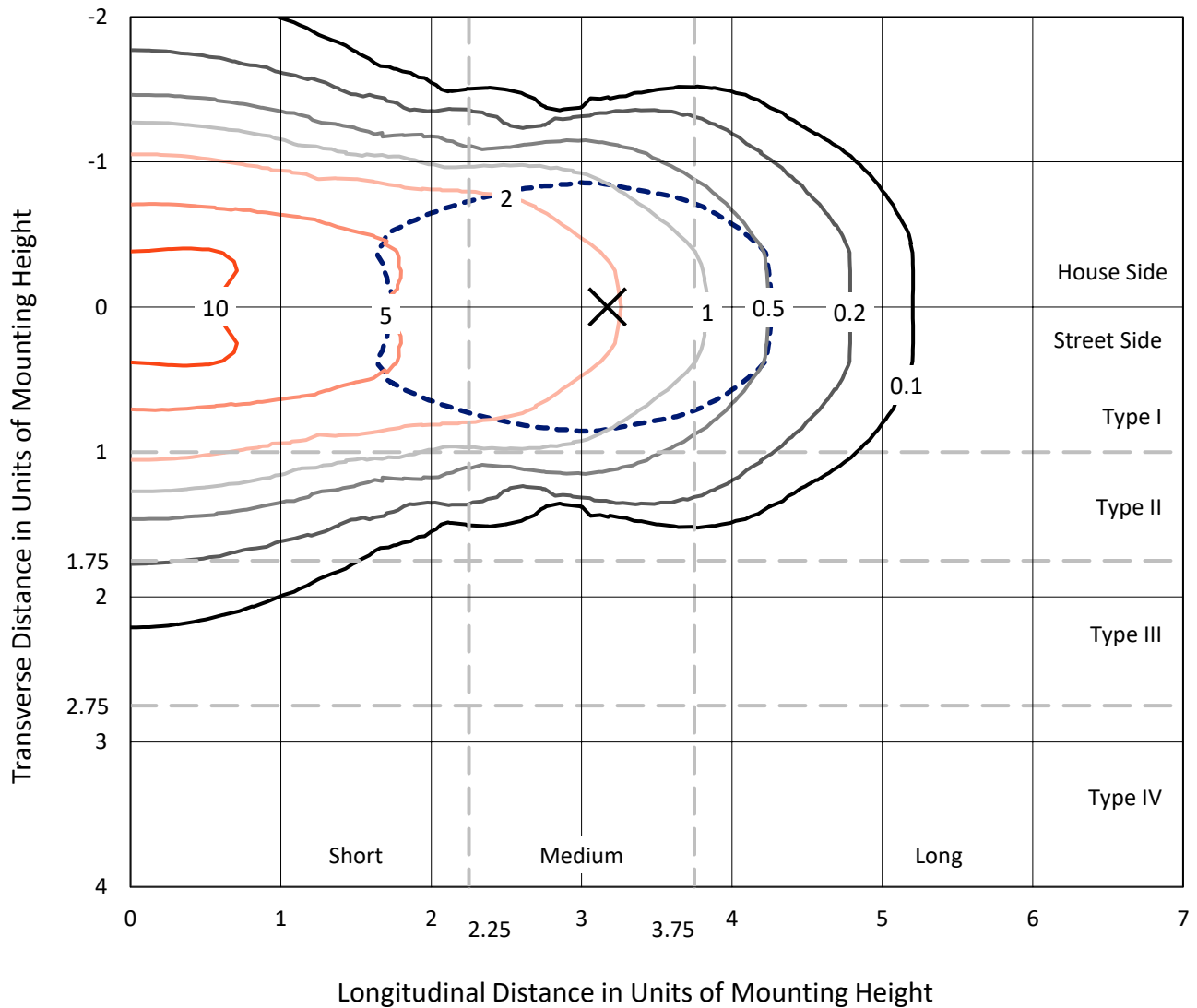
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

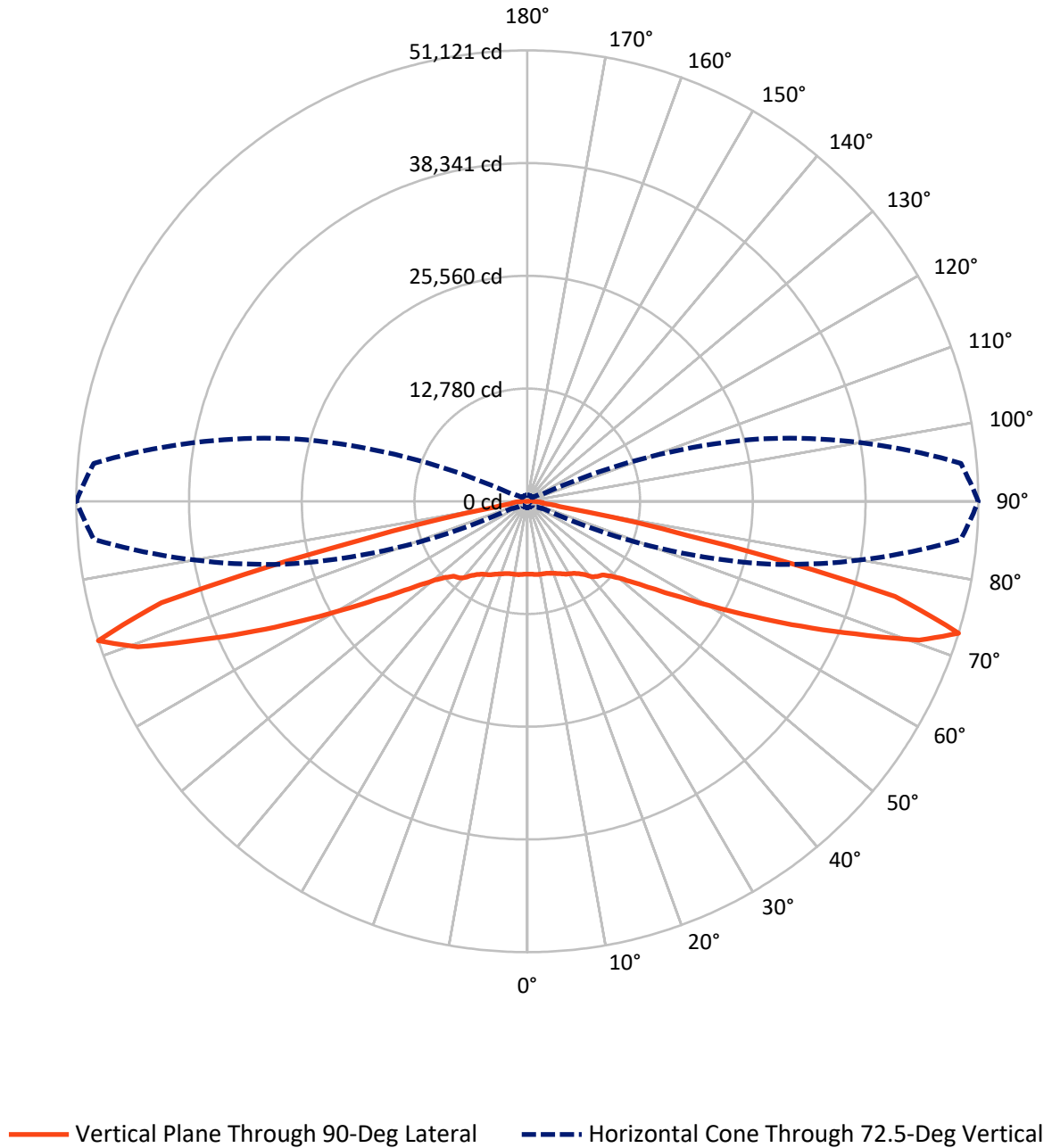
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.2 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	22109.5	0.0	22109.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	22109.5	0.0	22109.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	44219.0	0.0	44219.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	801.2	1.8
10°-20°	2449.7	5.5
20°-30°	4084.6	9.2
30°-40°	5617.6	12.7
40°-50°	6860.6	15.5
50°-60°	7935.1	17.9
60°-70°	9461.3	21.4
70°-80°	6603.3	14.9
80°-90°	405.6	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°	44219.0	100.0
0°-180°	44219.0	100.0

Coefficient of Utilization



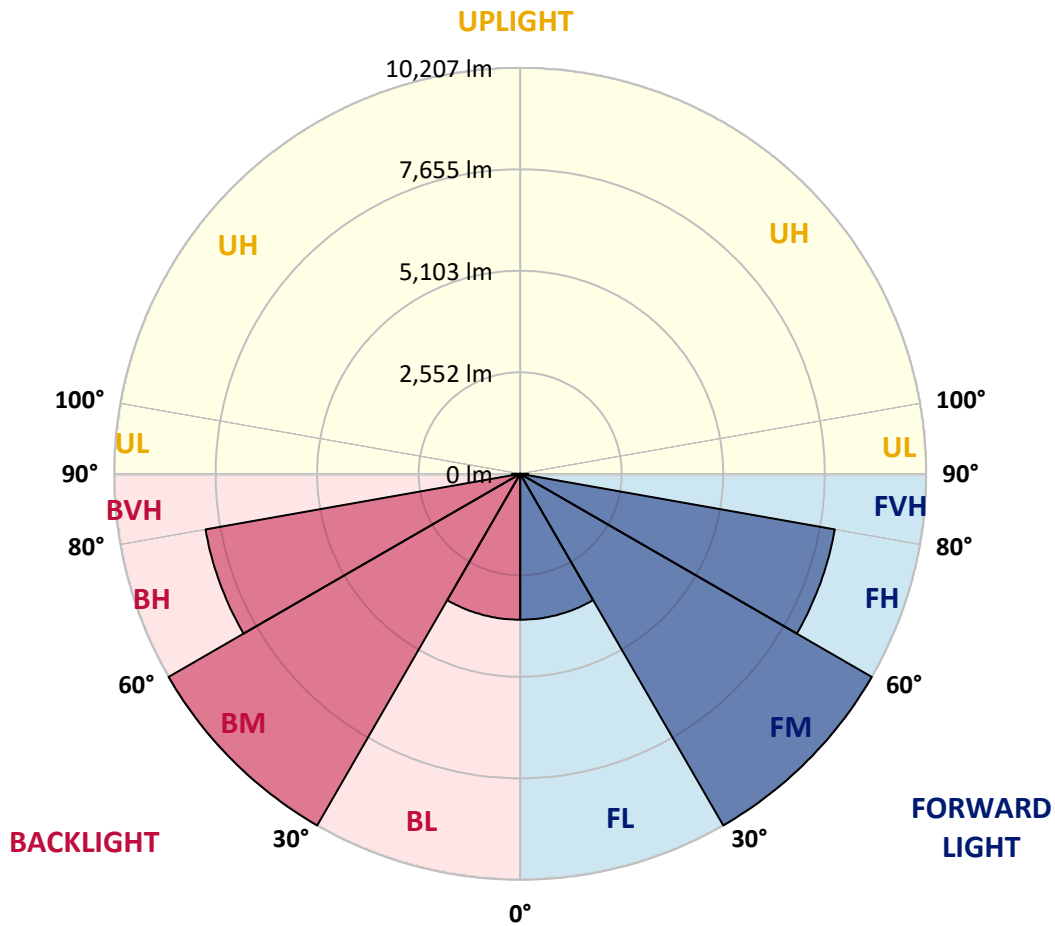
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3667.7	8.3			
FM (30°-60°)	10206.7	23.1			
FH (60°-80°)	8032.3	18.2			G4/12000
FVH (80°-90°)	202.8	0.5			G2/225
BL (0°-30°)	3667.7	8.3	B4/5000		
BM (30°-60°)	10206.7	23.1	B5		
BH (60°-80°)	8032.3	18.2	B5		G5
BVH (80°-90°)	202.8	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°	8262.8	8262.8	8262.8	8262.8	8262.8	8262.8	8262.8	8262.8	8262.8	8262.8
2.5°	8269.8	8279.2	8279.2	8272.2	8288.6	8274.5	8274.5	8267.5	8274.5	8267.5
5°	8312.1	8323.9	8328.6	8326.2	8347.4	8335.6	8335.6	8326.2	8328.6	8321.5
7.5°	8392.0	8408.5	8417.9	8429.6	8460.2	8446.1	8436.7	8408.5	8396.7	8377.9
10°	8417.9	8436.7	8467.2	8528.3	8598.8	8601.2	8573.0	8502.5	8448.4	8406.1
12.5°	8338.0	8363.8	8427.3	8551.8	8709.3	8772.7	8728.1	8610.6	8504.8	8429.6
15°	8236.9	8265.1	8361.5	8549.5	8782.1	8930.2	8925.5	8770.4	8601.2	8483.7
17.5°	8079.5	8107.7	8246.3	8509.5	8838.5	9083.0	9148.8	8989.0	8751.6	8594.1
20°	7795.1	7821.0	8013.7	8382.6	8857.4	9245.1	9416.7	9275.7	8979.6	8765.7
22.5°	7426.2	7466.1	7691.7	8164.1	8812.7	9414.3	9722.2	9625.8	9245.1	8949.0
25°	7031.4	7073.7	7336.9	7896.2	8697.5	9536.5	10084.1	10023.0	9545.9	9177.0
27.5°	6690.6	6735.3	7022.0	7630.6	8518.9	9583.5	10441.3	10471.8	9910.2	9428.4
30°	6422.7	6465.0	6770.5	7416.8	8288.6	9536.5	10753.8	10965.3	10281.5	9647.0
32.5°	6128.9	6183.0	6504.9	7155.9	8016.0	9423.7	11026.4	11498.8	10711.5	9882.0
35°	5757.6	5807.0	6145.4	6798.7	7658.8	9242.8	11254.4	12091.0	11327.3	10239.2
37.5°	5306.4	5353.4	5689.5	6352.2	7304.0	8989.0	11428.3	12758.4	12060.5	10753.8
40°	4852.9	4897.5	5212.4	5854.0	6878.6	8664.6	11489.4	13411.8	12901.8	11461.2
42.5°	4436.9	4476.9	4765.9	5362.8	6401.5	8251.0	11409.5	13980.5	13656.2	11954.7
45°	4053.8	4089.1	4345.2	4902.2	5905.7	7748.1	11169.8	14591.5	14553.9	12307.2
47.5°	3616.7	3652.0	3917.5	4455.7	5409.8	7158.3	10763.2	15193.1	15801.8	13106.2
50°	3083.3	3113.8	3386.4	3941.0	4895.2	6530.8	10199.2	15665.5	17376.3	14316.5
52.5°	2451.1	2484.0	2749.6	3304.2	4284.1	5856.3	9456.6	15973.3	19195.2	16083.8
55°	1823.6	1847.1	2077.4	2575.7	3527.4	5087.9	8526.0	16060.3	21258.6	18499.6
57.5°	1323.1	1337.2	1485.2	1856.5	2674.4	4126.7	7395.6	15834.7	23714.4	21597.0
60°	1071.6	1076.3	1121.0	1285.5	1858.9	3041.0	6030.2	15059.1	26379.3	25589.7
62.5°	972.9	972.9	984.7	1029.3	1257.3	2006.9	4378.1	13451.7	29237.0	30635.3
65°	904.8	904.8	909.5	930.6	991.7	1278.4	2763.7	10833.7	31645.8	36545.7
67.5°	843.7	846.0	843.7	850.7	886.0	944.7	1602.7	7482.6	32943.0	42669.9
70°	780.2	784.9	773.2	773.2	801.4	803.7	1003.5	4103.2	31866.7	47802.4
72.5°	705.0	712.1	693.3	688.6	709.7	700.3	754.4	1969.3	27359.3	49334.7
75°	639.2	648.6	606.3	594.6	594.6	587.5	613.4	1010.5	17757.0	40244.7
77.5°	580.5	599.3	531.1	493.5	484.1	463.0	500.6	618.1	7766.9	18894.4
80°	479.4	505.3	437.1	392.5	376.0	352.5	394.8	432.4	2310.1	4387.5
82.5°	357.2	369.0	310.2	279.7	265.6	249.1	296.1	300.8	752.0	1553.4
85°	228.0	232.7	190.4	164.5	157.5	150.4	188.0	164.5	286.7	1142.1
87.5°	79.9	91.7	72.9	65.8	70.5	58.8	87.0	49.4	79.9	806.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°

8262.8
8267.5
8321.5
8377.9
8399.1
8417.9
8464.9
8568.3
8725.7
8895.0
9101.8
9348.5
9531.8
9736.3
10077.0
10537.6
11230.9
11658.6
11907.7
12645.6
13738.4
15371.7
17608.9
20476.0
24177.3
28743.5
34153.3
40087.2
47123.3
51120.7
43045.9
18502.0
4201.9
1755.5
1659.1
998.8
0.0

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