

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: P940653

Luminaire Tested: **GALN-SB3D-827-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940653
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-SB3D-827-U-T1
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 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: 26264 lumens
Efficiency: N/A
Efficacy: 120.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

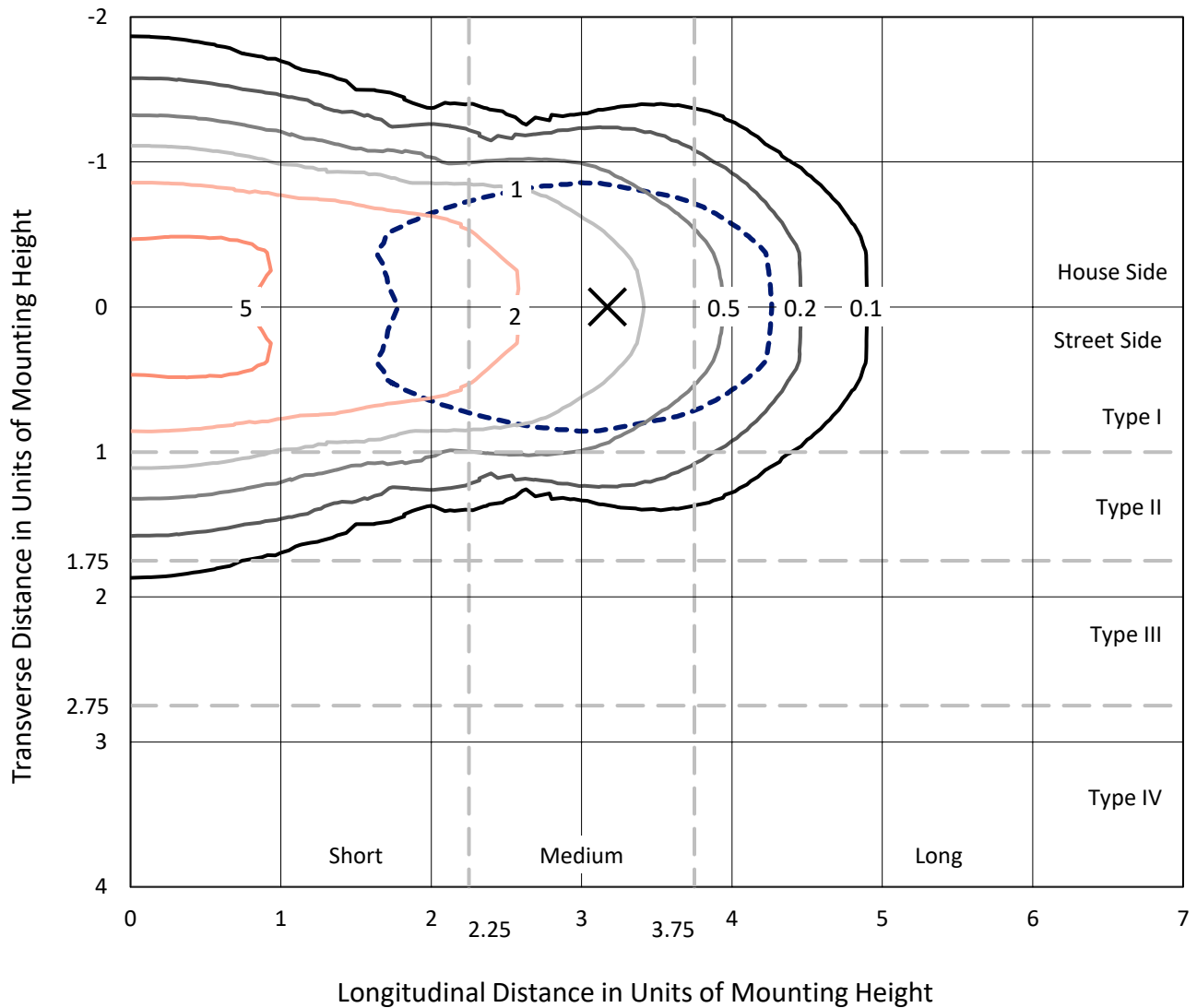
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

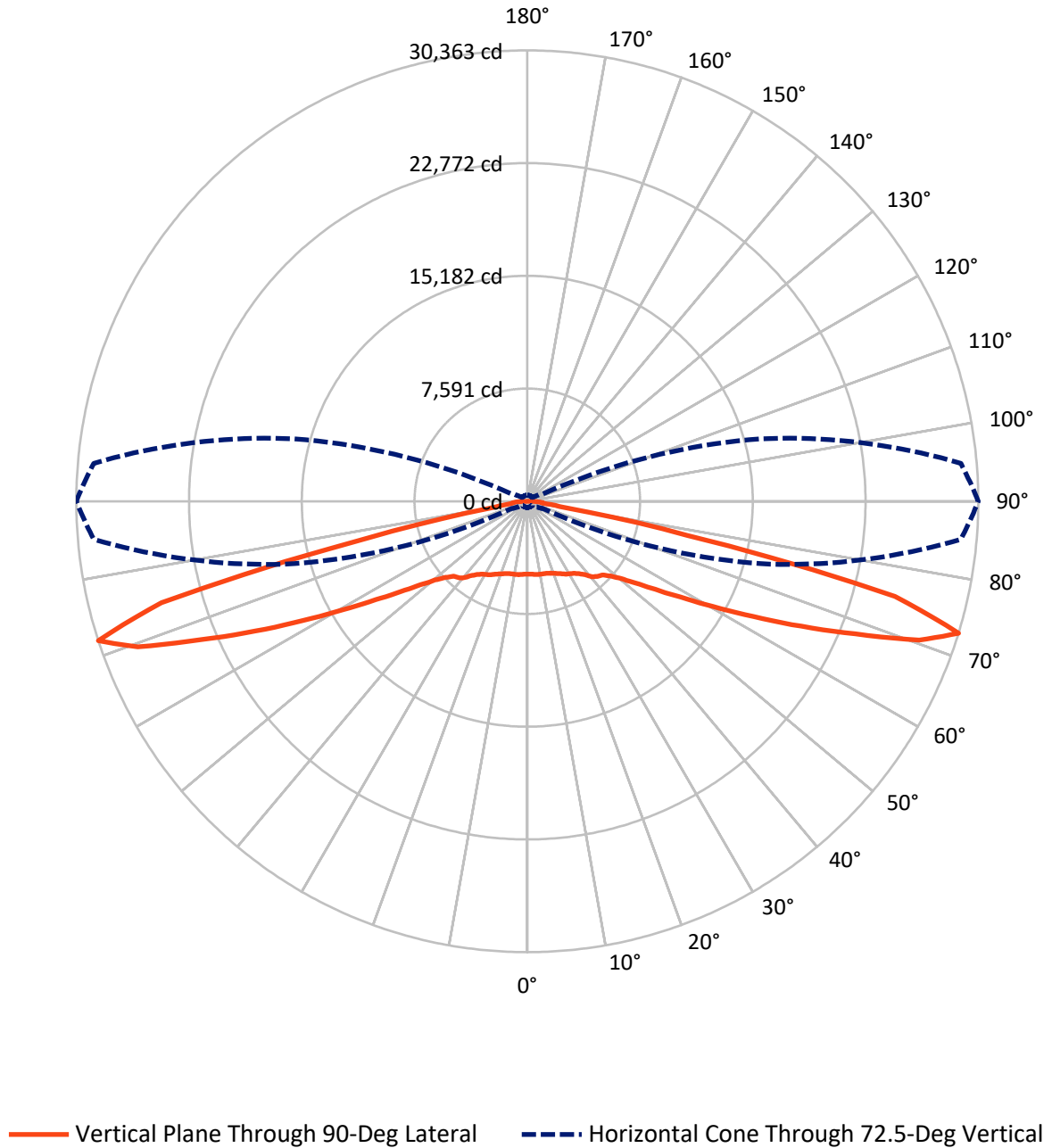
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 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	13132.0	0.0	13132.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13132.0	0.0	13132.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	26264.0	0.0	26264.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	475.9	1.8
10°-20°	1455.0	5.5
20°-30°	2426.1	9.2
30°-40°	3336.6	12.7
40°-50°	4074.9	15.5
50°-60°	4713.1	17.9
60°-70°	5619.5	21.4
70°-80°	3922.1	14.9
80°-90°	240.9	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°	26264.0	100.0
0°-180°	26264.0	100.0

Coefficient of Utilization



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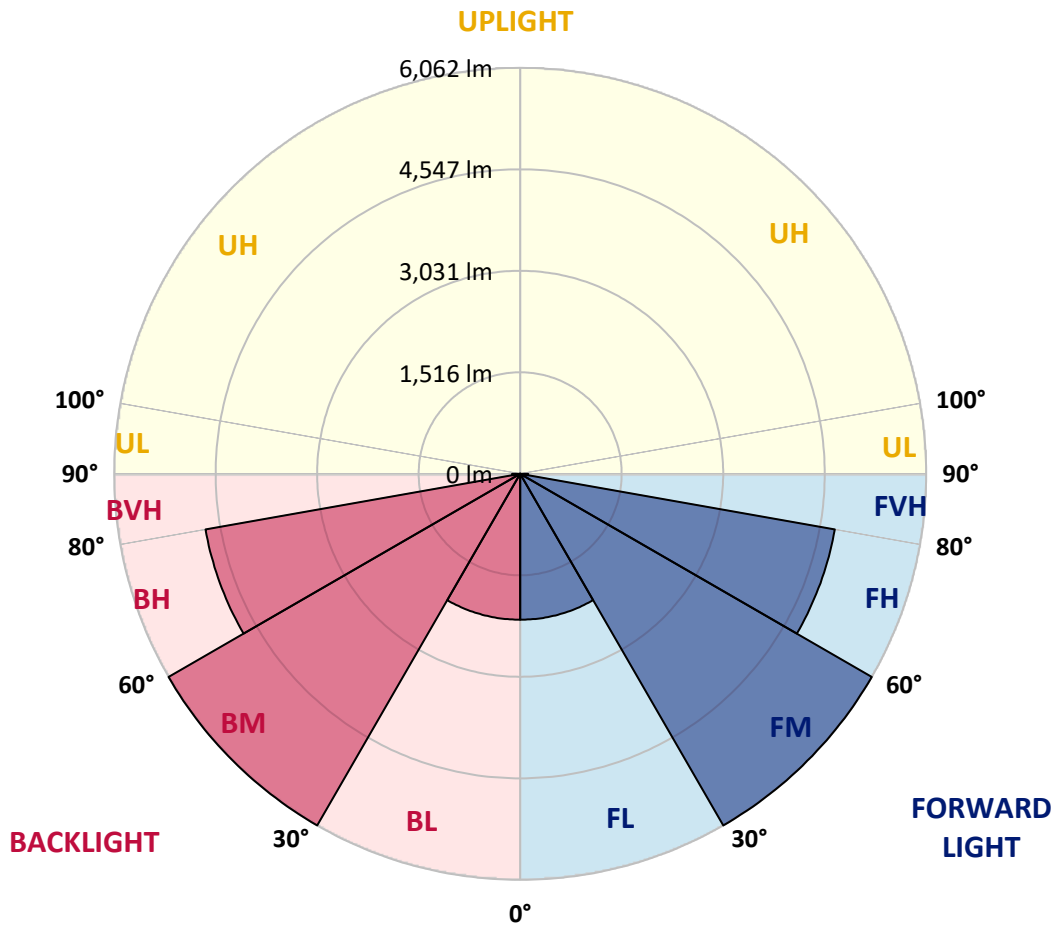
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2178.5	8.3			
FM (30°-60°)	6062.3	23.1			
FH (60°-80°)	4770.8	18.2			G2/5000
FVH (80°-90°)	120.4	0.5			G2/225
BL (0°-30°)	2178.5	8.3	B3/2500		
BM (30°-60°)	6062.3	23.1	B4/8500		
BH (60°-80°)	4770.8	18.2	B4/5000		G4/5000
BVH (80°-90°)	120.4	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°	4907.7	4907.7	4907.7	4907.7	4907.7	4907.7	4907.7	4907.7	4907.7	4907.7
2.5°	4911.9	4917.5	4917.5	4913.3	4923.1	4914.7	4914.7	4910.5	4914.7	4910.5
5°	4937.0	4944.0	4946.8	4945.4	4958.0	4951.0	4951.0	4945.4	4946.8	4942.6
7.5°	4984.5	4994.2	4999.8	5006.8	5025.0	5016.6	5011.0	4994.2	4987.3	4976.1
10°	4999.8	5011.0	5029.1	5065.4	5107.3	5108.7	5092.0	5050.1	5018.0	4992.9
12.5°	4952.4	4967.7	5005.4	5079.4	5172.9	5210.6	5184.1	5114.3	5051.5	5006.8
15°	4892.4	4909.1	4966.3	5078.0	5216.2	5304.1	5301.3	5209.2	5108.7	5038.9
17.5°	4798.8	4815.6	4897.9	5054.3	5249.7	5394.8	5433.9	5339.0	5198.0	5104.5
20°	4629.9	4645.3	4759.7	4978.9	5260.8	5491.2	5593.1	5509.3	5333.4	5206.4
22.5°	4410.8	4434.5	4568.5	4849.1	5234.3	5591.7	5774.5	5717.3	5491.2	5315.3
25°	4176.3	4201.4	4357.8	4690.0	5165.9	5664.2	5989.5	5953.2	5669.8	5450.7
27.5°	3973.9	4000.4	4170.7	4532.2	5059.9	5692.2	6201.6	6219.8	5886.2	5600.0
30°	3814.8	3839.9	4021.4	4405.2	4923.1	5664.2	6387.3	6512.9	6106.7	5729.8
32.5°	3640.3	3672.4	3863.6	4250.3	4761.1	5597.2	6549.2	6829.8	6362.2	5869.4
35°	3419.8	3449.1	3650.1	4038.1	4549.0	5489.8	6684.6	7181.5	6727.9	6081.6
37.5°	3151.8	3179.7	3379.3	3772.9	4338.2	5339.0	6787.9	7577.9	7163.4	6387.3
40°	2882.4	2908.9	3095.9	3477.0	4085.6	5146.4	6824.2	7965.9	7663.1	6807.4
42.5°	2635.3	2659.0	2830.7	3185.3	3802.2	4900.7	6776.7	8303.7	8111.1	7100.5
45°	2407.8	2428.7	2580.9	2911.7	3507.7	4602.0	6634.3	8666.7	8644.3	7309.9
47.5°	2148.2	2169.1	2326.8	2646.5	3213.2	4251.7	6392.9	9024.0	9385.5	7784.5
50°	1831.3	1849.5	2011.4	2340.8	2907.5	3879.0	6057.9	9304.5	10320.7	8503.3
52.5°	1455.8	1475.4	1633.1	1962.5	2544.6	3478.4	5616.8	9487.4	11401.1	9553.0
55°	1083.2	1097.1	1233.9	1529.8	2095.1	3022.0	5064.0	9539.0	12626.6	10987.9
57.5°	785.8	794.2	882.2	1102.7	1588.4	2451.1	4392.6	9405.0	14085.2	12827.6
60°	636.5	639.3	665.8	763.5	1104.1	1806.2	3581.7	8944.4	15668.1	15199.1
62.5°	577.9	577.9	584.8	611.4	746.8	1192.0	2600.4	7989.7	17365.4	18195.9
65°	537.4	537.4	540.2	552.7	589.0	759.3	1641.5	6434.7	18796.1	21706.4
67.5°	501.1	502.5	501.1	505.3	526.2	561.1	951.9	4444.3	19566.6	25343.9
70°	463.4	466.2	459.2	459.2	476.0	477.4	596.0	2437.1	18927.3	28392.4
72.5°	418.7	422.9	411.8	409.0	421.5	416.0	448.1	1169.7	16250.1	29302.5
75°	379.7	385.2	360.1	353.1	353.1	349.0	364.3	600.2	10546.8	23903.4
77.5°	344.8	355.9	315.5	293.1	287.5	275.0	297.3	367.1	4613.2	11222.4
80°	284.7	300.1	259.6	233.1	223.3	209.4	234.5	256.8	1372.1	2606.0
82.5°	212.2	219.1	184.2	166.1	157.7	148.0	175.9	178.7	446.7	922.6
85°	135.4	138.2	113.1	97.7	93.5	89.3	111.7	97.7	170.3	678.4
87.5°	47.5	54.4	43.3	39.1	41.9	34.9	51.6	29.3	47.5	478.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°

4907.7
4910.5
4942.6
4976.1
4988.7
4999.8
5027.7
5089.2
5182.7
5283.2
5406.0
5552.6
5661.4
5782.9
5985.3
6258.9
6670.6
6924.7
7072.6
7510.9
8160.0
9130.1
10458.9
12161.8
14360.2
17072.3
20285.5
23809.9
27989.0
30363.3
25567.2
10989.3
2495.7
1042.7
985.4
593.2
0.0

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