

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: P943033

Luminaire Tested: **GALN-SB7B-827-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943033
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-SB7B-827-U-T1
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 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: 34449 lumens
Efficiency: N/A
Efficacy: 134.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

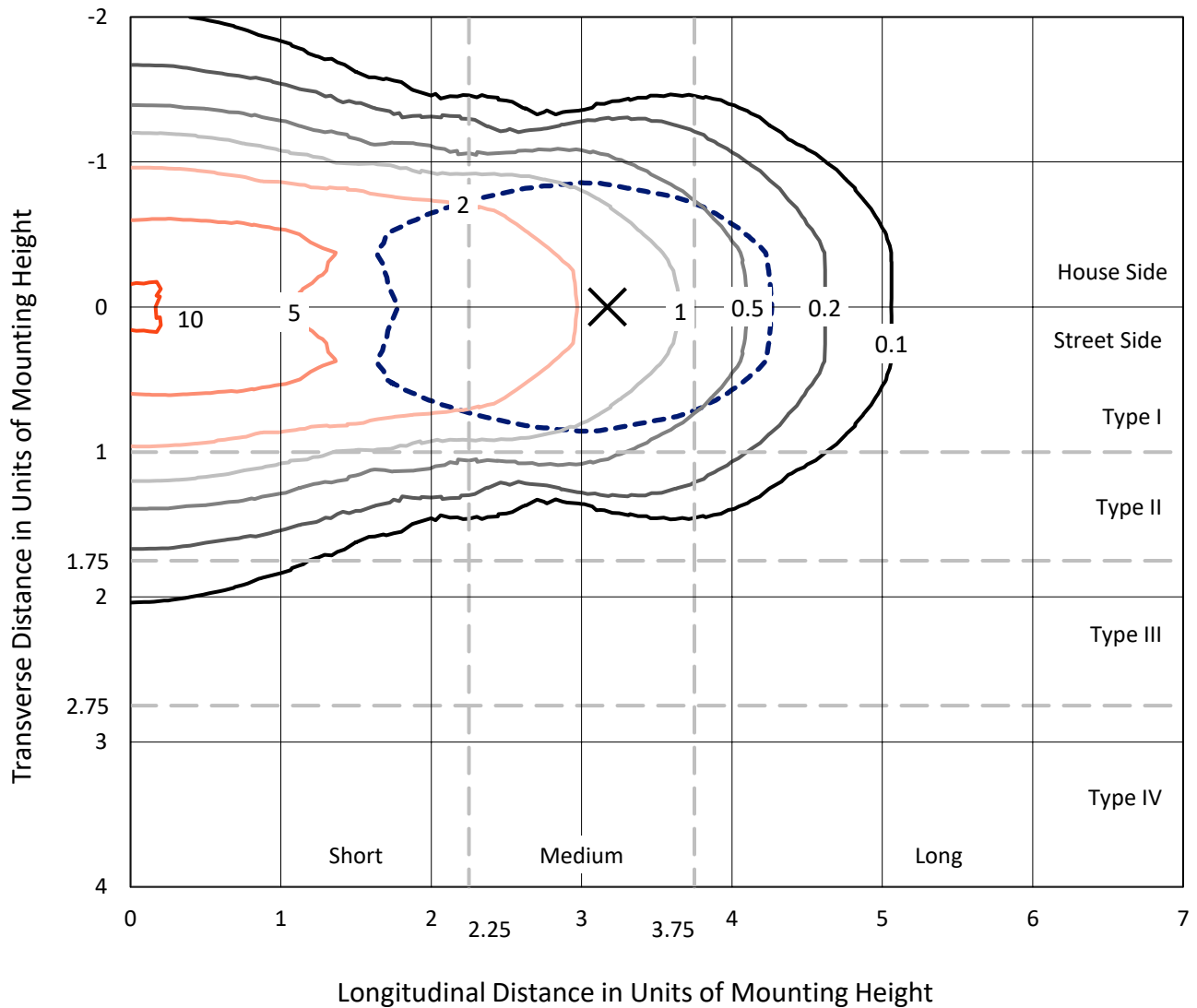
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

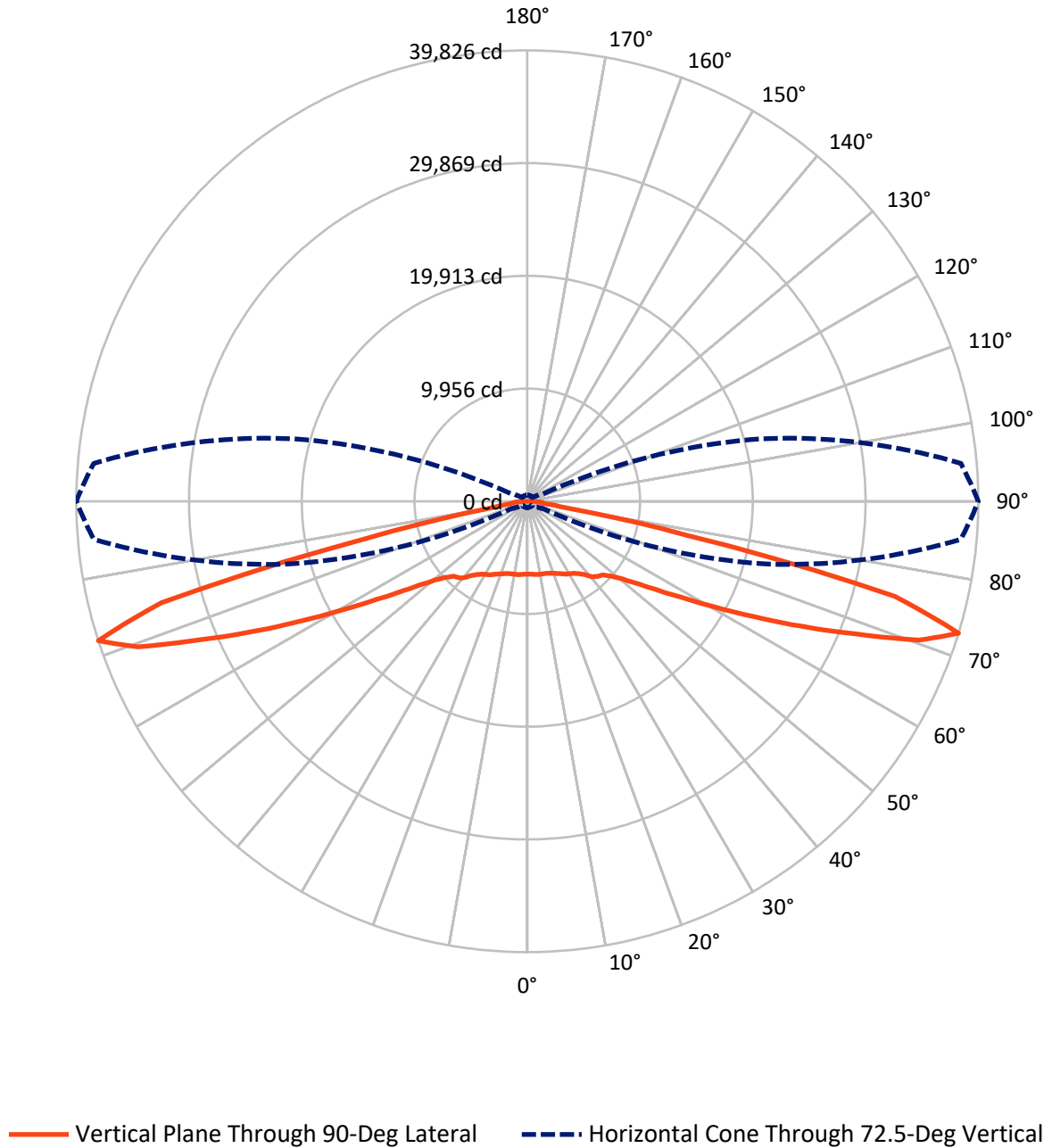
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 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	17224.5	0.0	17224.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17224.5	0.0	17224.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	34449.0	0.0	34449.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	624.2	1.8
10°-20°	1908.4	5.5
20°-30°	3182.1	9.2
30°-40°	4376.4	12.7
40°-50°	5344.8	15.5
50°-60°	6181.8	17.9
60°-70°	7370.8	21.4
70°-80°	5144.4	14.9
80°-90°	316.0	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°	34449.0	100.0
0°-180°	34449.0	100.0

Coefficient of Utilization



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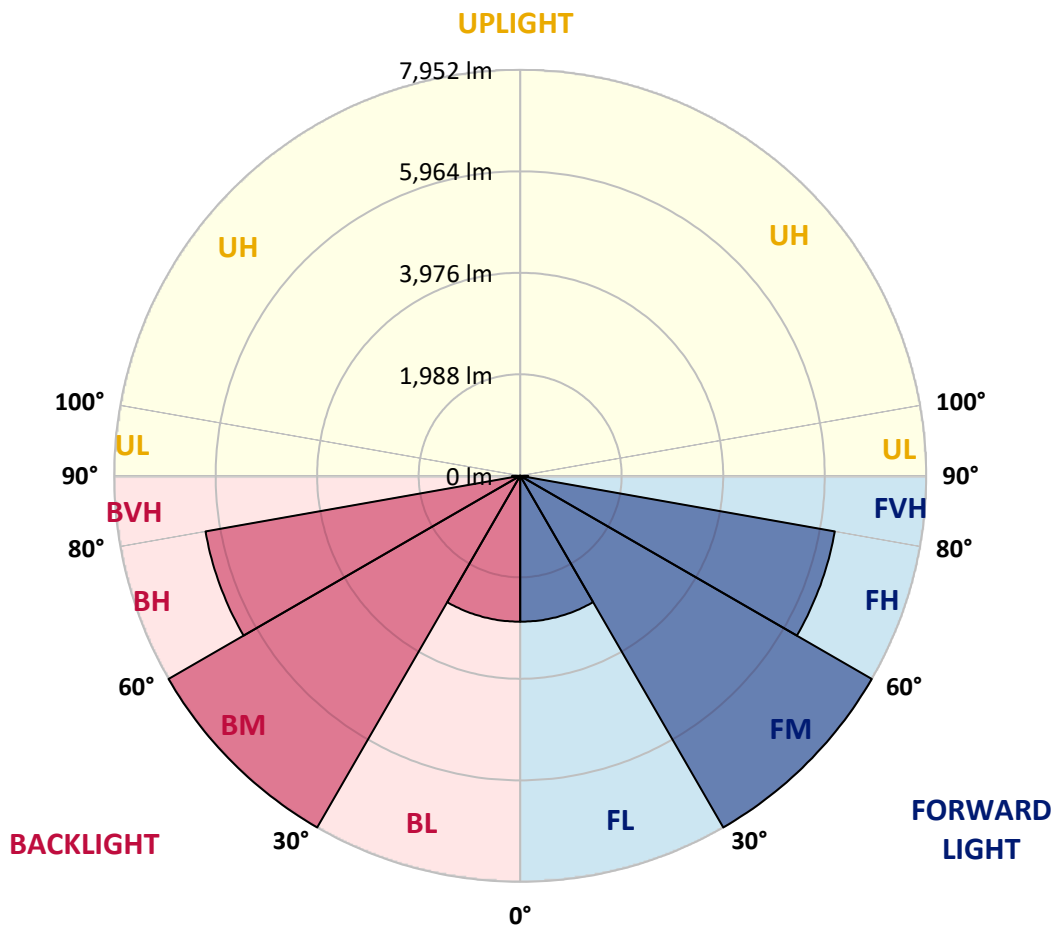
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2857.4	8.3			
FM (30°-60°)	7951.5	23.1			
FH (60°-80°)	6257.6	18.2			G3/7500
FVH (80°-90°)	158.0	0.5			G2/225
BL (0°-30°)	2857.4	8.3	B4/5000		
BM (30°-60°)	7951.5	23.1	B4/8500		
BH (60°-80°)	6257.6	18.2	B5		G5
BVH (80°-90°)	158.0	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°	6437.2	6437.2	6437.2	6437.2	6437.2	6437.2	6437.2	6437.2	6437.2	6437.2
2.5°	6442.7	6450.0	6450.0	6444.5	6457.3	6446.3	6446.3	6440.8	6446.3	6440.8
5°	6475.6	6484.8	6488.4	6486.6	6503.1	6493.9	6493.9	6486.6	6488.4	6482.9
7.5°	6537.9	6550.7	6558.0	6567.1	6590.9	6580.0	6572.6	6550.7	6541.5	6526.9
10°	6558.0	6572.6	6596.4	6644.0	6699.0	6700.8	6678.8	6623.9	6581.8	6548.8
12.5°	6495.7	6515.9	6565.3	6662.4	6785.0	6834.4	6799.7	6708.1	6625.7	6567.1
15°	6417.0	6439.0	6514.1	6660.5	6841.8	6957.1	6953.5	6832.6	6700.8	6609.3
17.5°	6294.4	6316.3	6424.3	6629.4	6885.7	7076.1	7127.4	7002.9	6818.0	6695.3
20°	6072.8	6093.0	6243.1	6530.5	6900.4	7202.4	7336.1	7226.2	6995.6	6829.0
22.5°	5785.4	5816.5	5992.3	6360.3	6865.6	7334.3	7574.1	7499.0	7202.4	6971.8
25°	5477.8	5510.8	5715.8	6151.6	6775.9	7429.5	7856.0	7808.4	7436.8	7149.3
27.5°	5212.3	5247.1	5470.5	5944.7	6636.7	7466.1	8134.3	8158.1	7720.6	7345.2
30°	5003.6	5036.6	5274.6	5778.1	6457.3	7429.5	8377.8	8542.6	8009.8	7515.5
32.5°	4774.8	4816.9	5067.7	5574.8	6244.9	7341.6	8590.2	8958.2	8344.9	7698.6
35°	4485.5	4524.0	4787.6	5296.6	5966.6	7200.6	8767.8	9419.6	8824.5	7976.9
37.5°	4134.0	4170.6	4432.4	4948.7	5690.2	7002.9	8903.3	9939.5	9395.8	8377.8
40°	3780.6	3815.4	4060.8	4560.6	5358.8	6750.2	8950.9	10448.5	10051.2	8928.9
42.5°	3456.6	3487.7	3712.9	4177.9	4987.2	6428.0	8888.6	10891.5	10638.9	9313.4
45°	3158.2	3185.6	3385.2	3819.1	4600.8	6036.2	8701.9	11367.6	11338.3	9588.0
47.5°	2817.6	2845.1	3052.0	3471.2	4214.5	5576.7	8385.2	11836.2	12310.4	10210.5
50°	2402.0	2425.8	2638.2	3070.3	3813.6	5087.8	7945.8	12204.2	13537.1	11153.3
52.5°	1909.5	1935.2	2142.1	2574.1	3337.6	4562.4	7367.2	12444.1	14954.1	12530.1
55°	1420.7	1439.0	1618.4	2006.6	2748.1	3963.7	6642.2	12511.8	16561.6	14412.2
57.5°	1030.8	1041.7	1157.1	1446.3	2083.5	3214.9	5761.6	12336.1	18474.8	16825.2
60°	834.9	838.5	873.3	1001.5	1448.2	2369.1	4697.9	11731.9	20550.9	19935.8
62.5°	758.0	758.0	767.1	801.9	979.5	1563.5	3410.8	10479.6	22777.2	23866.6
65°	704.9	704.9	708.5	725.0	772.6	996.0	2153.0	8440.1	24653.8	28471.1
67.5°	657.3	659.1	657.3	662.8	690.2	736.0	1248.6	5829.3	25664.4	33242.2
70°	607.8	611.5	602.3	602.3	624.3	626.1	781.8	3196.6	24825.9	37240.7
72.5°	549.2	554.7	540.1	536.4	552.9	545.6	587.7	1534.2	21314.4	38434.4
75°	498.0	505.3	472.4	463.2	463.2	457.7	477.8	787.3	13833.7	31352.8
77.5°	452.2	466.9	413.8	384.5	377.1	360.7	390.0	481.5	6050.9	14719.8
80°	373.5	393.6	340.5	305.7	292.9	274.6	307.6	336.9	1799.7	3418.1
82.5°	278.3	287.4	241.7	217.9	206.9	194.1	230.7	234.3	585.9	1210.2
85°	177.6	181.3	148.3	128.2	122.7	117.2	146.5	128.2	223.4	889.8
87.5°	62.2	71.4	56.8	51.3	54.9	45.8	67.7	38.4	62.2	628.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°

6437.2
6440.8
6482.9
6526.9
6543.3
6558.0
6594.6
6675.2
6797.8
6929.6
7090.8
7283.0
7425.8
7585.1
7850.6
8209.4
8749.5
9082.7
9276.8
9851.6
10703.0
11975.4
13718.3
15951.9
18835.5
22392.7
26607.3
31230.1
36711.6
39825.8
33535.1
14414.0
3273.5
1367.6
1292.6
778.1
0.0

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