

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: P943883

Luminaire Tested: **GALN-SB8C-827-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943883
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-SB8C-827-U-T1
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52094 lumens
Efficiency: N/A
Efficacy: 130.3 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

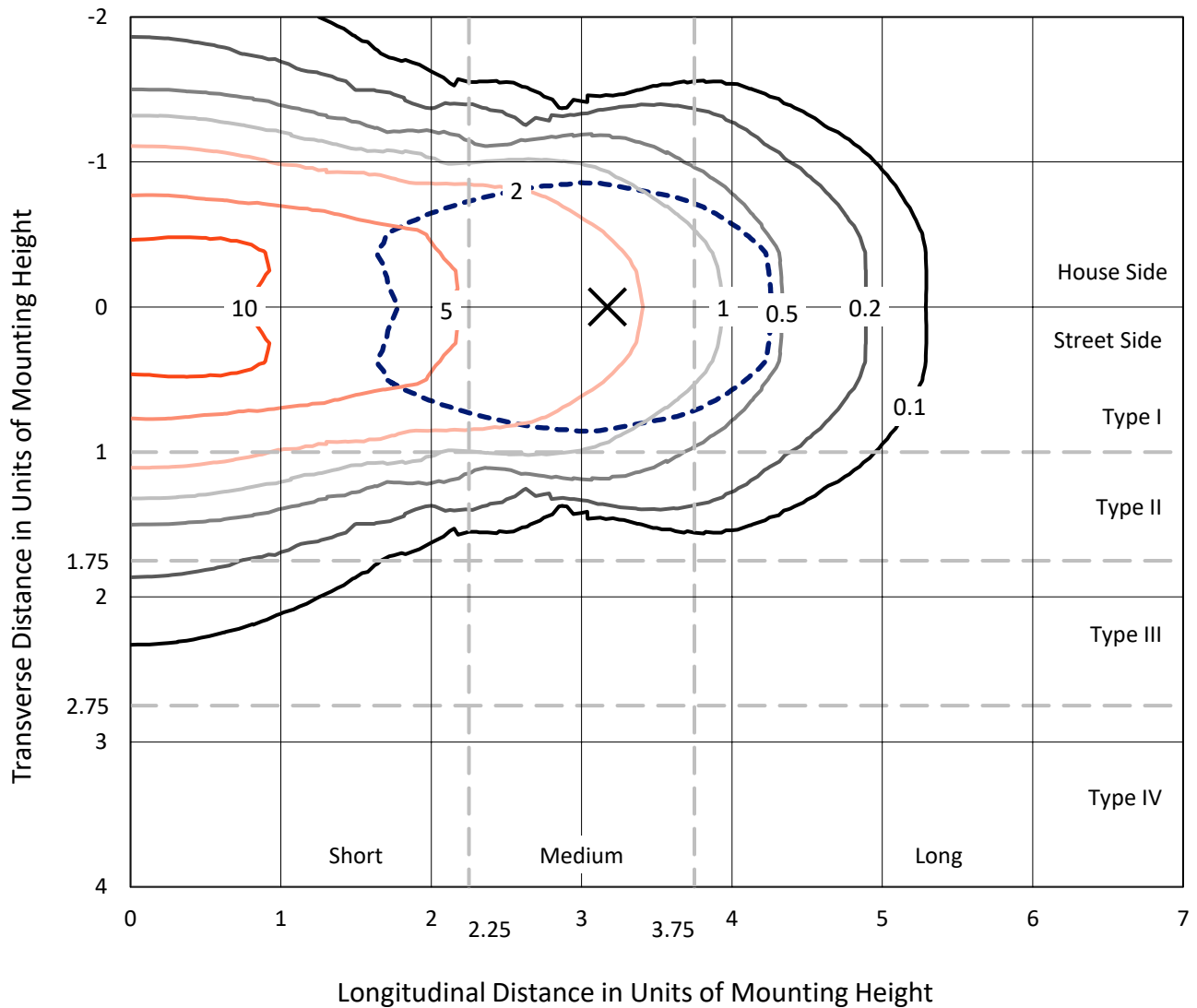
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

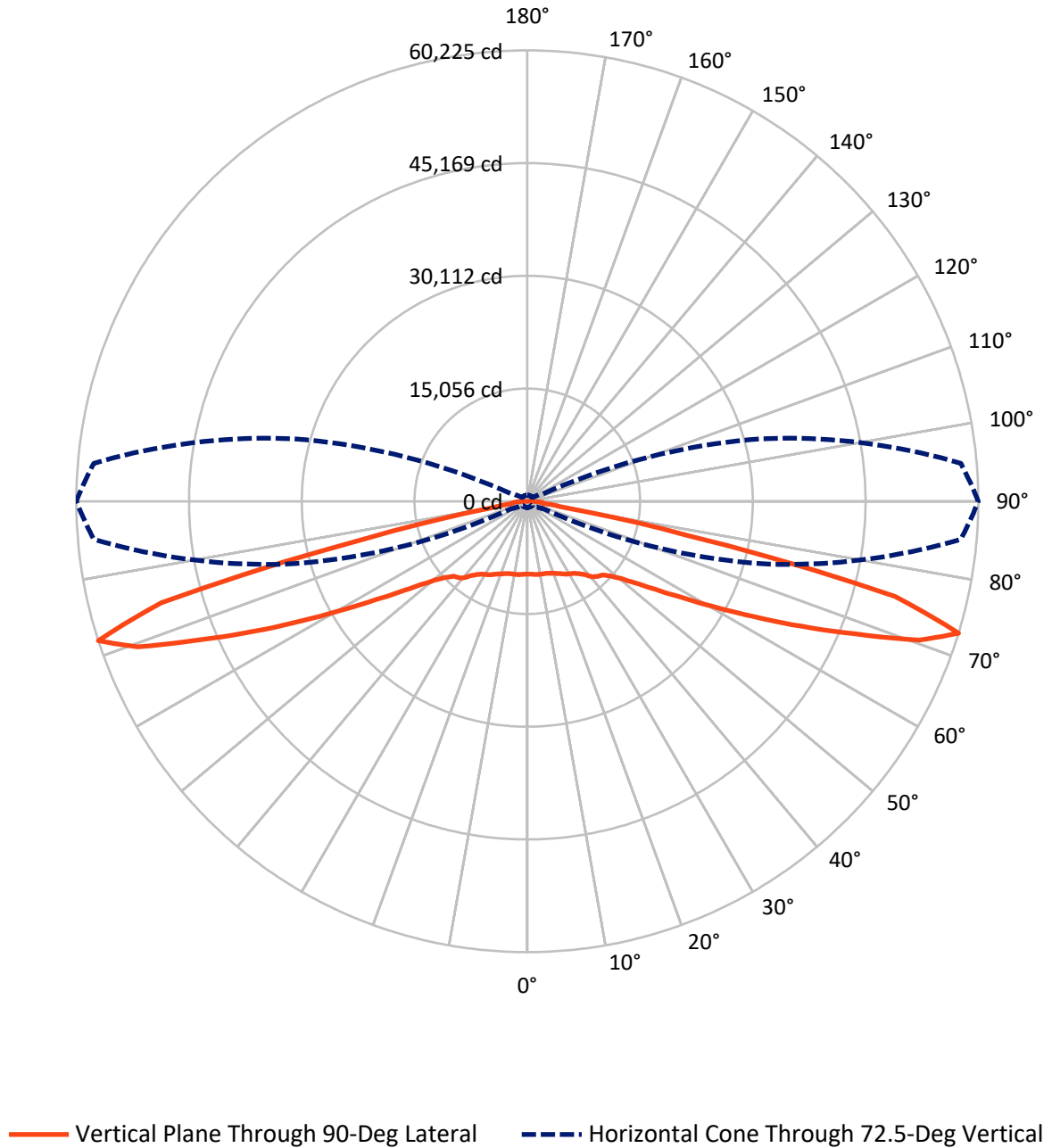
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.6 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	26047.0	0.0	26047.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	26047.0	0.0	26047.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	52094.0	0.0	52094.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	943.9	1.8
10°-20°	2885.9	5.5
20°-30°	4812.1	9.2
30°-40°	6618.1	12.7
40°-50°	8082.5	15.5
50°-60°	9348.2	17.9
60°-70°	11146.2	21.4
70°-80°	7779.3	14.9
80°-90°	477.8	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°	52094.0	100.0
0°-180°	52094.0	100.0

Coefficient of Utilization



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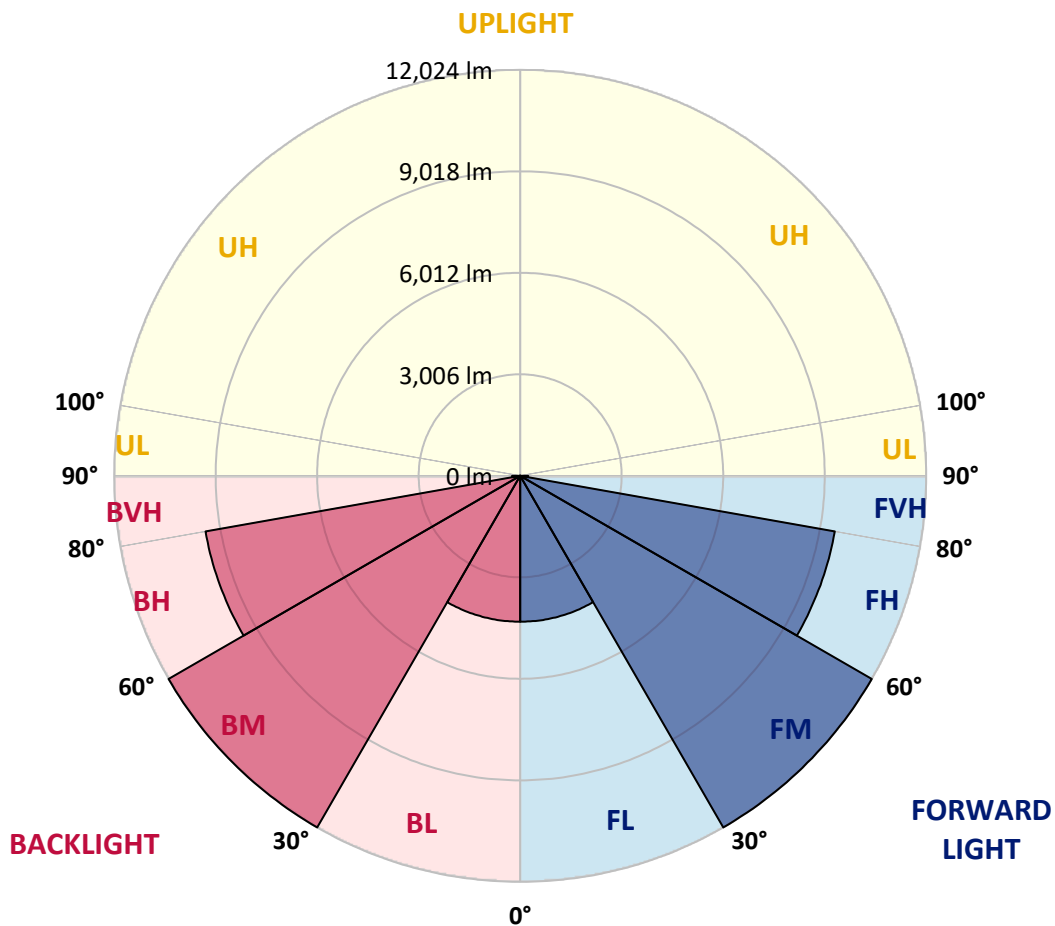
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4320.9	8.3			
FM (30°-60°)	12024.4	23.1			
FH (60°-80°)	9462.8	18.2			G4/12000
FVH (80°-90°)	238.9	0.5			G3/500
BL (0°-30°)	4320.9	8.3	B4/5000		
BM (30°-60°)	12024.4	23.1	B5		
BH (60°-80°)	9462.8	18.2	B5		G5
BVH (80°-90°)	238.9	0.5			G3/500
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°	9734.3	9734.3	9734.3	9734.3	9734.3	9734.3	9734.3	9734.3	9734.3	9734.3
2.5°	9742.6	9753.7	9753.7	9745.4	9764.8	9748.2	9748.2	9739.9	9748.2	9739.9
5°	9792.5	9806.3	9811.8	9809.1	9834.0	9820.1	9820.1	9809.1	9811.8	9803.5
7.5°	9886.6	9906.0	9917.0	9930.9	9966.9	9950.3	9939.2	9906.0	9892.1	9870.0
10°	9917.0	9939.2	9975.2	10047.2	10130.2	10133.0	10099.8	10016.7	9953.0	9903.2
12.5°	9822.9	9853.4	9928.1	10074.8	10260.3	10335.1	10282.5	10144.1	10019.5	9930.9
15°	9703.9	9737.1	9850.6	10072.1	10346.2	10520.6	10515.1	10332.3	10133.0	9994.6
17.5°	9518.4	9551.6	9714.9	10025.0	10412.6	10700.5	10778.1	10589.8	10310.2	10124.7
20°	9183.4	9213.8	9440.8	9875.5	10434.8	10891.6	11093.7	10927.6	10578.7	10326.8
22.5°	8748.7	8795.8	9061.5	9618.0	10382.2	11090.9	11453.6	11340.1	10891.6	10542.7
25°	8283.6	8333.4	8643.5	9302.4	10246.5	11234.9	11880.0	11808.0	11246.0	10811.3
27.5°	7882.1	7934.7	8272.5	8989.6	10036.1	11290.3	12300.8	12336.8	11675.1	11107.5
30°	7566.5	7616.4	7976.3	8737.6	9764.8	11234.9	12669.0	12918.2	12112.5	11365.0
32.5°	7220.4	7284.1	7663.4	8430.3	9443.6	11102.0	12990.2	13546.6	12619.2	11641.9
35°	6783.0	6841.2	7239.8	8009.5	9022.8	10888.8	13258.7	14244.3	13344.5	12062.7
37.5°	6251.4	6306.8	6702.7	7483.5	8604.7	10589.8	13463.6	15030.6	14208.3	12669.0
40°	5717.1	5769.7	6140.7	6896.5	8103.6	10207.7	13535.6	15800.3	15199.5	13502.3
42.5°	5227.1	5274.1	5614.7	6317.9	7541.6	9720.5	13441.4	16470.3	16088.2	14083.7
45°	4775.8	4817.3	5119.1	5775.2	6957.4	9128.0	13159.0	17190.1	17145.8	14499.0
47.5°	4260.8	4302.4	4615.2	5249.2	6373.3	8433.1	12680.1	17898.8	18615.9	15440.3
50°	3632.4	3668.4	3989.5	4642.9	5766.9	7693.9	12015.6	18455.3	20470.9	16866.2
52.5°	2887.6	2926.4	3239.2	3892.6	5047.1	6899.3	11140.8	18818.0	22613.7	18948.1
55°	2148.4	2176.1	2447.4	3034.4	4155.6	5994.0	10044.4	18920.4	25044.5	21794.2
57.5°	1558.7	1575.3	1749.7	2187.2	3150.6	4861.6	8712.7	18654.7	27937.7	25443.2
60°	1262.5	1268.0	1320.6	1514.4	2189.9	3582.5	7104.2	17741.0	31077.3	30147.0
62.5°	1146.2	1146.2	1160.0	1212.6	1481.2	2364.4	5157.9	15847.3	34443.9	36091.2
65°	1065.9	1065.9	1071.4	1096.4	1168.3	1506.1	3255.8	12763.1	37281.6	43054.1
67.5°	993.9	996.7	993.9	1002.2	1043.8	1113.0	1888.2	8815.1	38809.9	50269.0
70°	919.2	924.7	910.9	910.9	944.1	946.9	1182.2	4833.9	37541.9	56315.6
72.5°	830.6	838.9	816.7	811.2	836.1	825.0	888.7	2320.1	32231.8	58120.7
75°	753.1	764.1	714.3	700.4	700.4	692.1	722.6	1190.5	20919.4	47411.9
77.5°	683.8	706.0	625.7	581.4	570.3	545.4	589.7	728.1	9150.1	22259.4
80°	564.8	595.2	515.0	462.4	443.0	415.3	465.1	509.4	2721.5	5168.9
82.5°	420.8	434.7	365.5	329.5	312.8	293.5	348.8	354.4	885.9	1830.0
85°	268.6	274.1	224.3	193.8	185.5	177.2	221.5	193.8	337.8	1345.5
87.5°	94.1	108.0	85.8	77.5	83.1	69.2	102.4	58.1	94.1	949.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°

9734.3
9739.9
9803.5
9870.0
9894.9
9917.0
9972.4
10094.2
10279.7
10479.1
10722.7
11013.4
11229.3
11470.2
11871.7
12414.3
13231.0
13734.9
14028.4
14897.7
16185.1
18109.3
20744.9
24122.6
28483.1
33862.5
40235.7
47226.4
55515.5
60224.8
50712.0
21797.0
4950.2
2068.1
1954.6
1176.6
0.0

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