

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: P943203

Luminaire Tested: **GALN-SB7C-827-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943203
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-SB7C-827-U-T1
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 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: 45816 lumens
Efficiency: N/A
Efficacy: 130.7 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

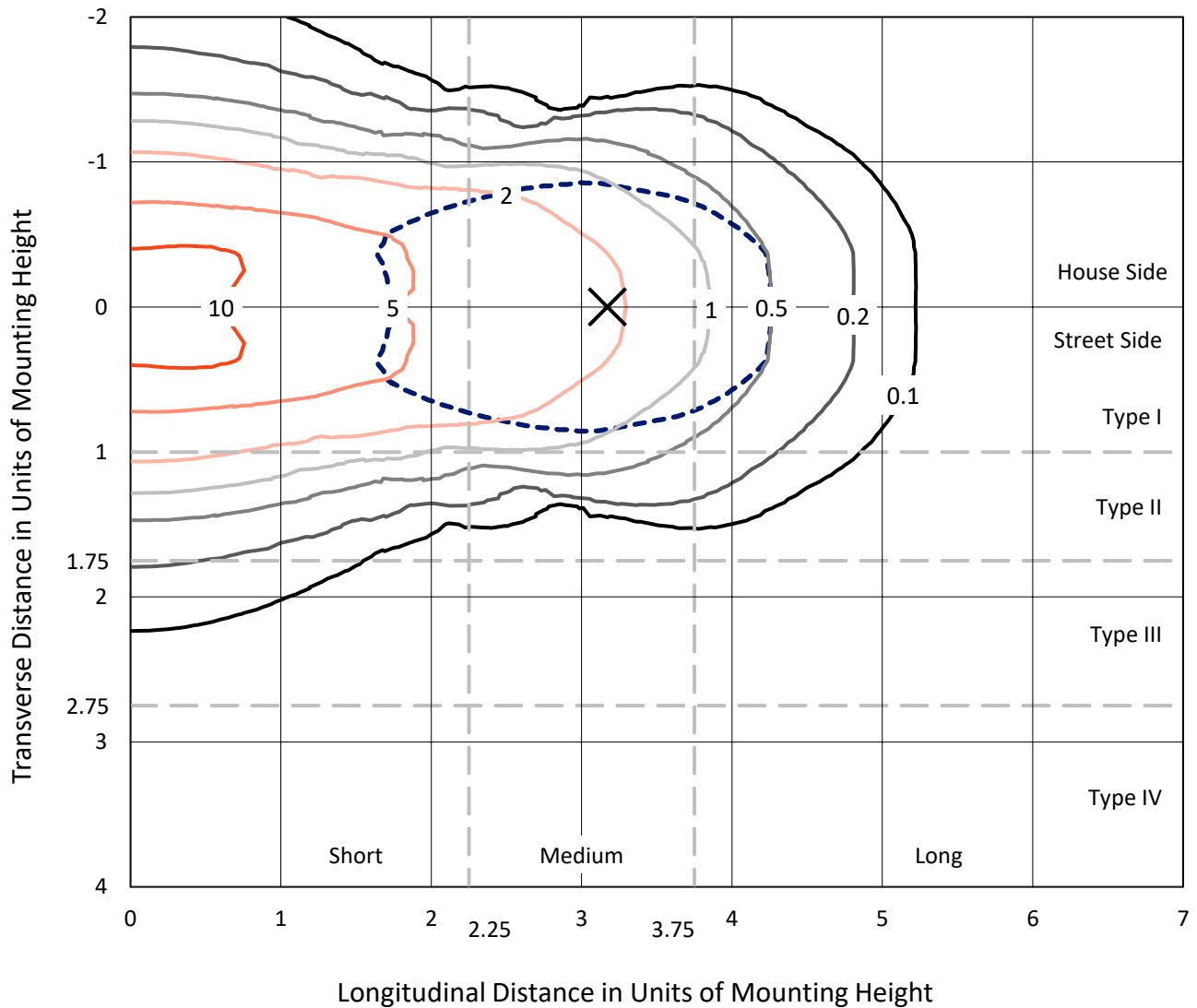
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

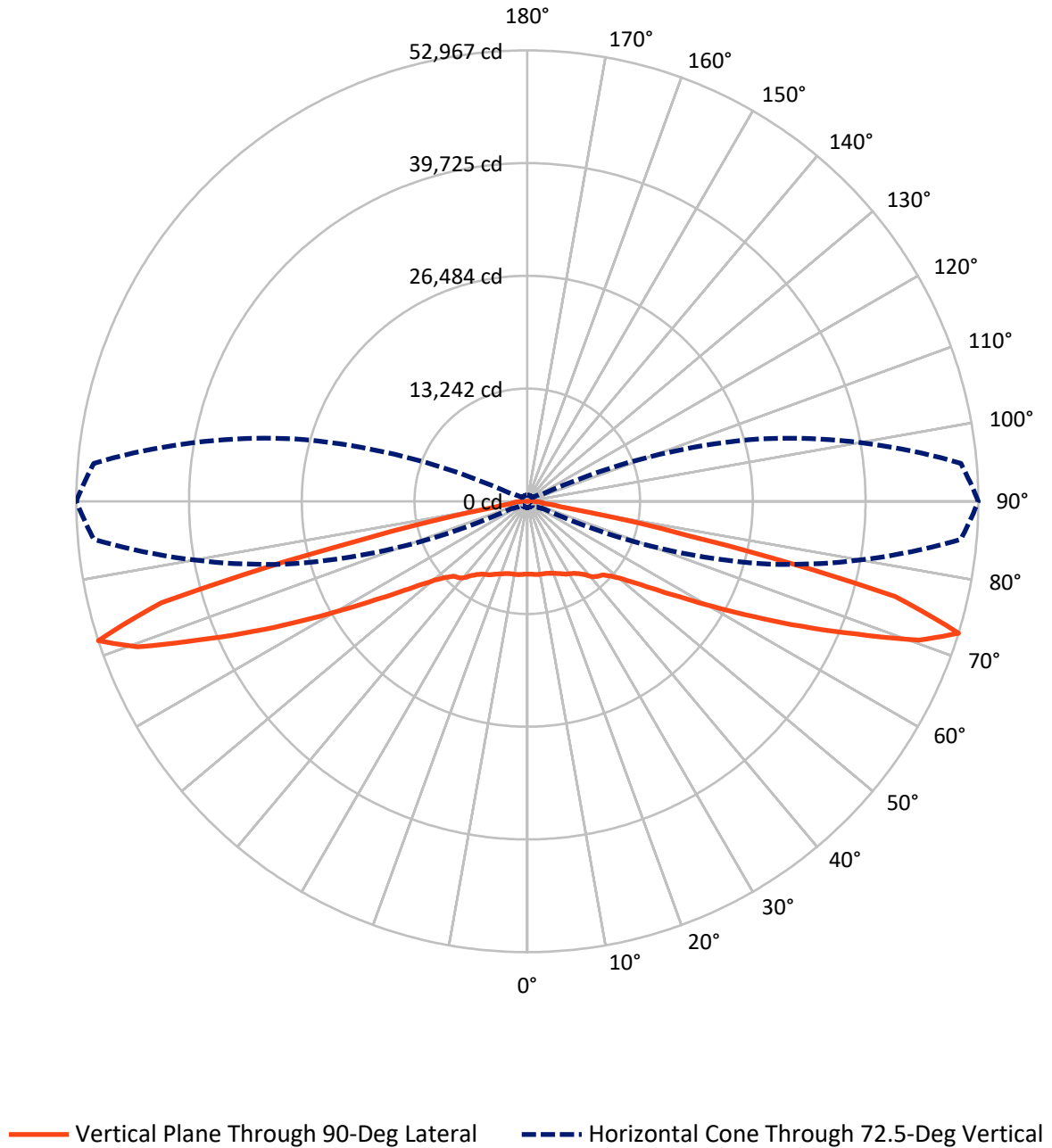
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.7 fc
 Type I - Short - N/A

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CATALOG NUMBER: GALN-SB7C-827-U-T1

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	22908.0	0.0	22908.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	22908.0	0.0	22908.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	45816.0	0.0	45816.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	830.1	1.8
10°-20°	2538.2	5.5
20°-30°	4232.1	9.2
30°-40°	5820.5	12.7
40°-50°	7108.4	15.5
50°-60°	8221.6	17.9
60°-70°	9803.0	21.4
70°-80°	6841.8	14.9
80°-90°	420.2	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°	45816.0	100.0
0°-180°	45816.0	100.0



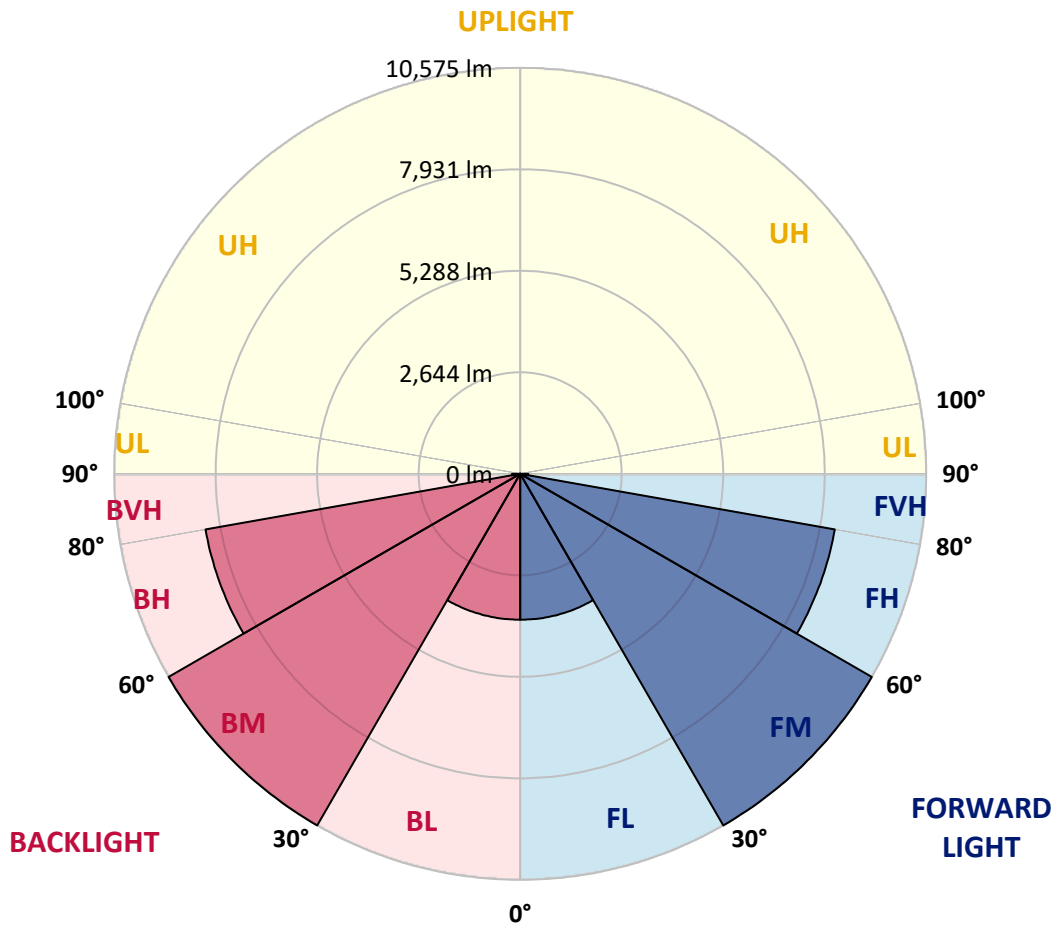
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3800.2	8.3			
FM (30°-60°)	10575.3	23.1			
FH (60°-80°)	8322.4	18.2			G4/12000
FVH (80°-90°)	210.1	0.5			G2/225
BL (0°-30°)	3800.2	8.3	B4/5000		
BM (30°-60°)	10575.3	23.1	B5		
BH (60°-80°)	8322.4	18.2	B5		G5
BVH (80°-90°)	210.1	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°	8561.2	8561.2	8561.2	8561.2	8561.2	8561.2	8561.2	8561.2	8561.2	8561.2
2.5°	8568.5	8578.2	8578.2	8570.9	8588.0	8573.4	8573.4	8566.1	8573.4	8566.1
5°	8612.3	8624.5	8629.4	8626.9	8648.9	8636.7	8636.7	8626.9	8629.4	8622.1
7.5°	8695.1	8712.2	8721.9	8734.1	8765.7	8751.1	8741.4	8712.2	8700.0	8680.5
10°	8721.9	8741.4	8773.0	8836.3	8909.4	8911.8	8882.6	8809.6	8753.6	8709.7
12.5°	8639.1	8665.9	8731.6	8860.7	9023.8	9089.6	9043.3	8921.6	8812.0	8734.1
15°	8534.4	8563.6	8663.5	8858.3	9099.3	9252.7	9247.9	9087.1	8911.8	8790.1
17.5°	8371.3	8400.5	8544.2	8816.9	9157.8	9411.0	9479.2	9313.6	9067.7	8904.5
20°	8076.7	8103.4	8303.1	8685.4	9177.2	9579.0	9756.8	9610.7	9303.9	9082.3
22.5°	7694.4	7735.8	7969.5	8458.9	9131.0	9754.3	10073.3	9973.5	9579.0	9272.2
25°	7285.3	7329.1	7601.8	8181.4	9011.7	9880.9	10448.3	10385.0	9890.7	9508.4
27.5°	6932.2	6978.5	7275.6	7906.2	8826.6	9929.6	10818.4	10850.0	10268.1	9768.9
30°	6654.7	6698.5	7015.0	7684.6	8588.0	9880.9	11142.2	11361.4	10652.8	9995.4
32.5°	6350.3	6406.3	6739.9	7414.4	8305.5	9764.1	11424.7	11914.1	11098.4	10238.9
35°	5965.6	6016.7	6367.3	7044.2	7935.4	9576.6	11660.9	12527.7	11736.3	10609.0
37.5°	5498.1	5546.8	5895.0	6581.6	7567.8	9313.6	11841.0	13219.2	12496.0	11142.2
40°	5028.1	5074.4	5400.7	6065.4	7127.0	8977.6	11904.4	13896.1	13367.7	11875.1
42.5°	4597.1	4638.5	4938.0	5556.5	6632.7	8549.0	11821.6	14485.4	14149.4	12386.5
45°	4200.2	4236.8	4502.2	5079.3	6119.0	8028.0	11573.2	15118.5	15079.5	12751.7
47.5°	3747.4	3783.9	4059.0	4616.6	5605.2	7416.8	11152.0	15741.8	16372.4	13579.6
50°	3194.6	3226.3	3508.7	4083.4	5072.0	6766.7	10567.6	16231.2	18003.9	14833.6
52.5°	2539.6	2573.7	2848.9	3423.5	4438.9	6067.8	9798.1	16550.2	19888.5	16664.6
55°	1889.5	1913.9	2152.5	2668.7	3654.8	5271.6	8833.9	16640.3	22026.3	19167.7
57.5°	1370.9	1385.5	1538.9	1923.6	2770.9	4275.7	7662.7	16406.5	24570.8	22377.0
60°	1110.3	1115.2	1161.5	1331.9	1926.0	3150.8	6248.0	15603.0	27332.1	26513.9
62.5°	1008.1	1008.1	1020.2	1066.5	1302.7	2079.4	4536.3	13937.5	30292.9	31741.7
65°	937.4	937.4	942.3	964.2	1027.5	1324.6	2863.5	11225.0	32788.7	37865.5
67.5°	874.1	876.6	874.1	881.4	918.0	978.8	1660.6	7752.8	34132.8	44211.0
70°	808.4	813.3	801.1	801.1	830.3	832.7	1039.7	4251.4	33017.6	49528.8
72.5°	730.5	737.8	718.3	713.4	735.3	725.6	781.6	2040.5	28347.4	51116.4
75°	662.3	672.0	628.2	616.0	616.0	608.7	635.5	1047.0	18398.3	41698.1
77.5°	601.4	620.9	550.3	511.3	501.6	479.7	518.6	640.4	8047.4	19576.8
80°	496.7	523.5	452.9	406.6	389.6	365.2	409.1	448.0	2393.5	4546.0
82.5°	370.1	382.3	321.4	289.8	275.1	258.1	306.8	311.7	779.2	1609.5
85°	236.2	241.1	197.2	170.4	163.1	155.8	194.8	170.4	297.1	1183.4
87.5°	82.8	95.0	75.5	68.2	73.0	60.9	90.1	51.1	82.8	835.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°

8561.2
8566.1
8622.1
8680.5
8702.4
8721.9
8770.6
8877.7
9040.9
9216.2
9430.5
9686.1
9876.1
10087.9
10441.0
10918.2
11636.5
12079.7
12337.8
13102.3
14234.6
15926.9
18244.9
21215.5
25050.5
29781.6
35386.8
41535.0
48825.2
52967.0
44600.6
19170.2
4353.6
1818.9
1719.1
1034.8
0.0

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