

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: P954259

Luminaire Tested: **GALN-SB7C-827-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954259
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)
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-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48502 lumens
Efficiency: N/A
Efficacy: 138.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

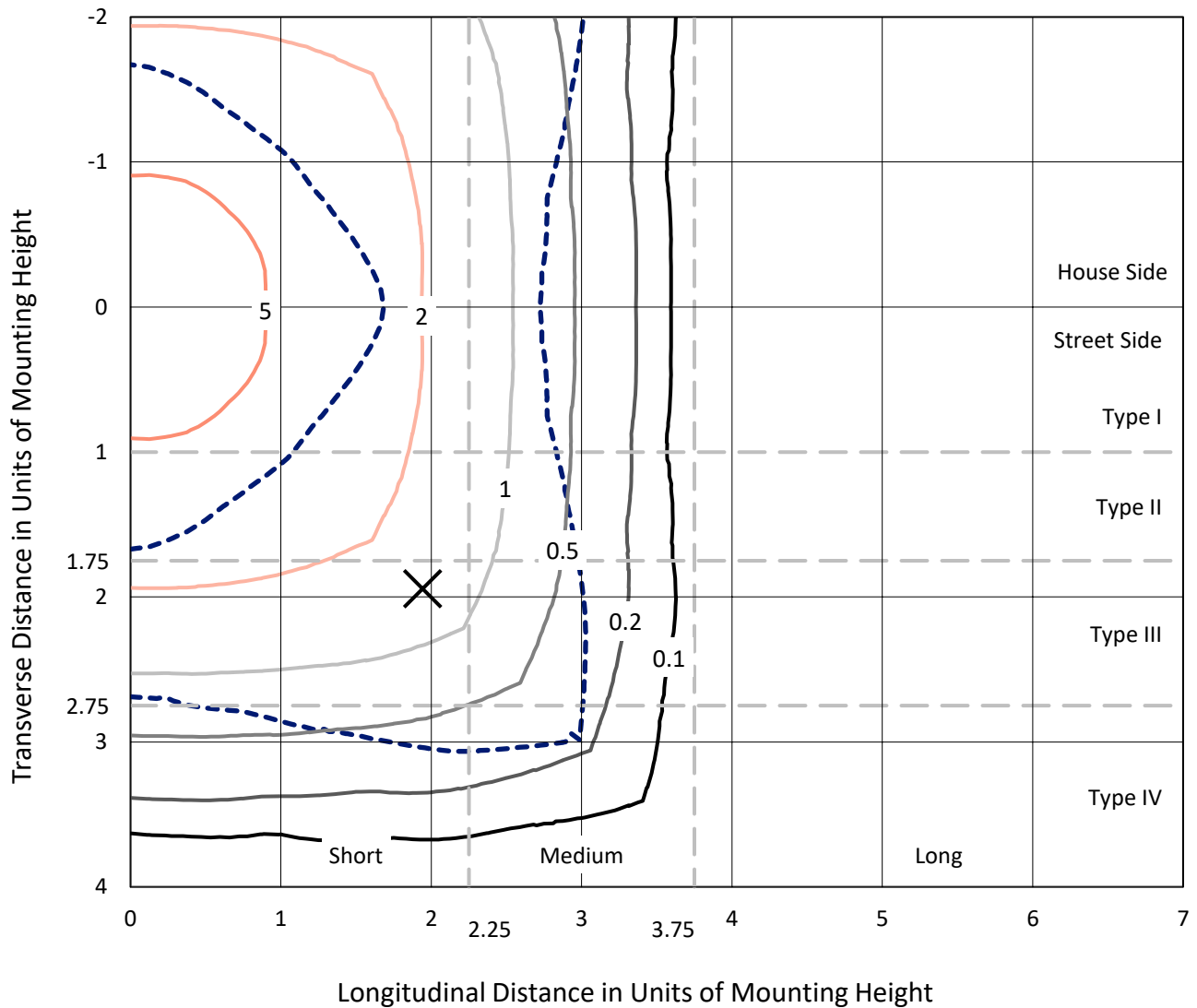
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P954259
 CATALOG NUMBER: GALN-SB7C-827-U-5MQ

Iso-Footcandle Lines of Horizontal Illumination

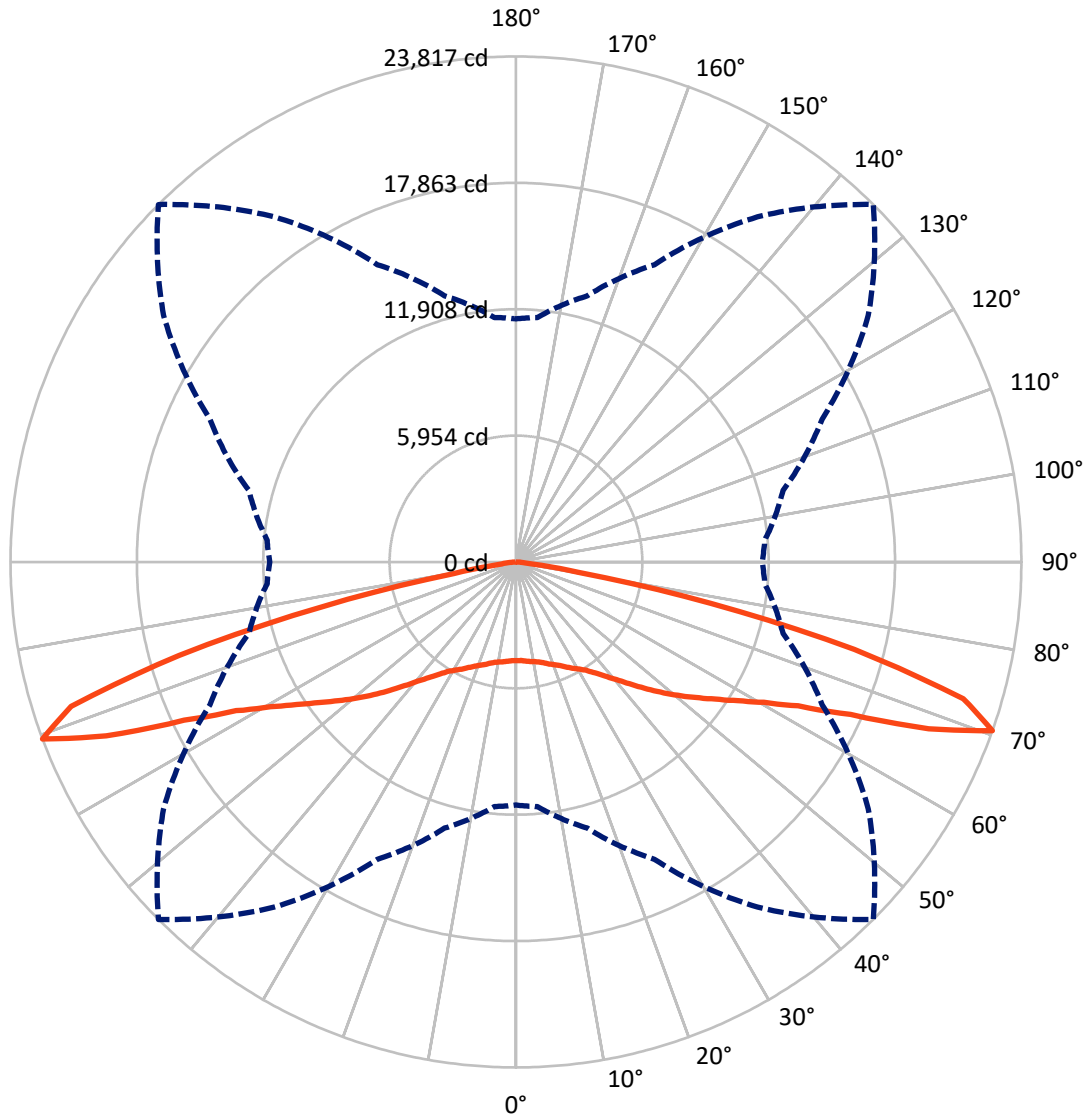
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
 Type V - Short - N/A

REPORT NUMBER: P954259
CATALOG NUMBER: GALN-SB7C-827-U-5MQ

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P954259

CATALOG NUMBER: GALN-SB7C-827-U-5MQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	24251.0	0.0	24251.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	24251.0	0.0	24251.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	48502.0	0.0	48502.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	451.4	0.9
10°-20°	1399.6	2.9
20°-30°	2501.3	5.2
30°-40°	4054.5	8.4
40°-50°	6604.2	13.6
50°-60°	10069.1	20.8
60°-70°	14979.6	30.9
70°-80°	8164.4	16.8
80°-90°	278.0	0.6
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°	48502.0	100.0
0°-180°	48502.0	100.0

Coefficient of Utilization



REPORT NUMBER: P954259

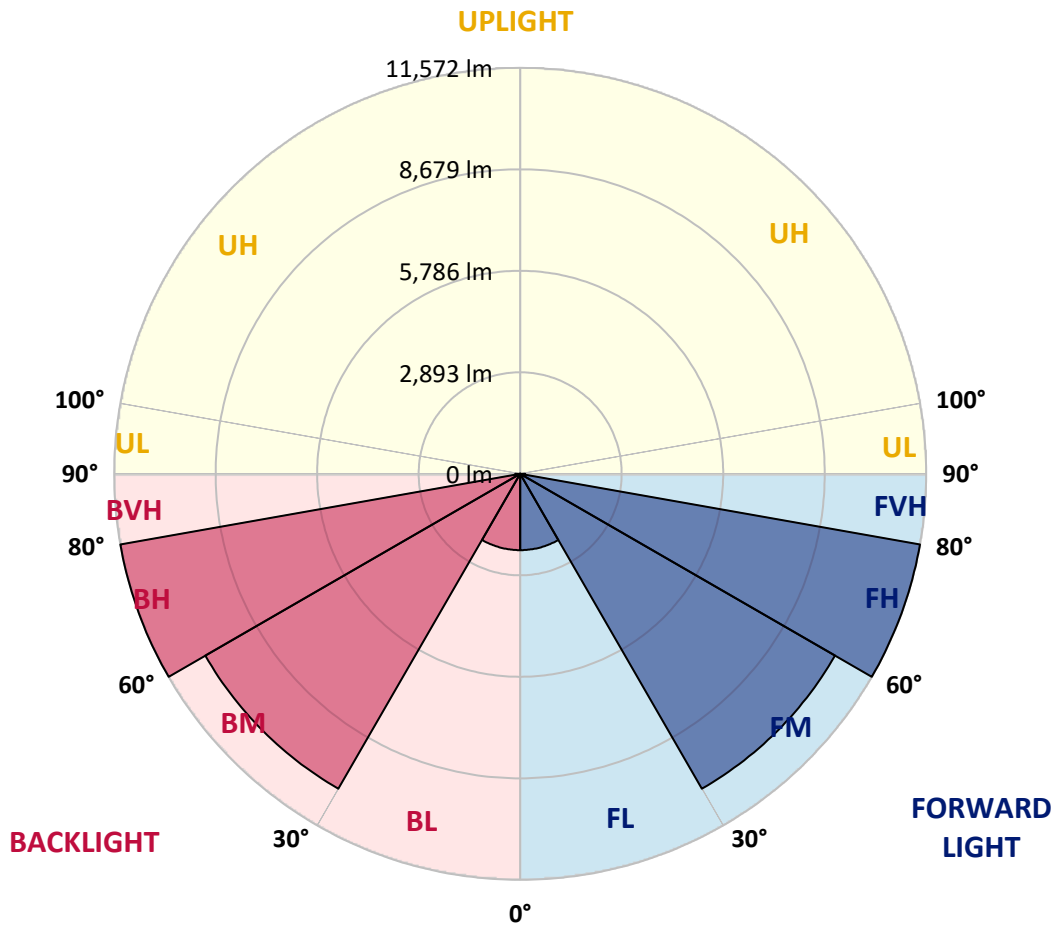
CATALOG NUMBER: GALN-SB7C-827-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2176.1	4.5			
FM (30°-60°)	10363.9	21.4			
FH (60°-80°)	11572.0	23.9			G4/12000
FVH (80°-90°)	139.0	0.3			G2/225
BL (0°-30°)	2176.1	4.5	B3/2500		
BM (30°-60°)	10363.9	21.4	B5		
BH (60°-80°)	11572.0	23.9	B5		G4/12000
BVH (80°-90°)	139.0	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short



REPORT NUMBER: P954259

CATALOG NUMBER: GALN-SB7C-827-U-5MQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4646.0	4646.0	4646.0	4646.0	4646.0	4646.0	4646.0	4646.0	4646.0	4646.0
2.5°	4667.9	4672.8	4663.0	4658.2	4653.3	4646.0	4648.4	4660.6	4670.3	4667.9
5°	4706.9	4711.7	4704.4	4702.0	4692.3	4689.8	4689.8	4702.0	4709.3	4704.4
7.5°	4750.7	4758.0	4745.8	4743.4	4738.5	4733.6	4731.2	4743.4	4750.7	4750.7
10°	4792.1	4799.4	4789.7	4782.3	4777.5	4777.5	4772.6	4782.3	4794.5	4792.1
12.5°	4835.9	4840.8	4831.0	4826.2	4826.2	4833.5	4826.2	4831.0	4840.8	4835.9
15°	4889.5	4891.9	4889.5	4896.8	4909.0	4933.3	4911.4	4906.5	4911.4	4899.2
17.5°	4962.5	4967.4	4977.2	4994.2	5011.2	5055.1	5016.1	5003.9	5003.9	4979.6
20°	5052.6	5059.9	5074.6	5103.8	5125.7	5167.1	5128.1	5111.1	5103.8	5072.1
22.5°	5147.6	5159.8	5181.7	5220.7	5259.6	5298.6	5259.6	5230.4	5208.5	5167.1
25°	5257.2	5271.8	5305.9	5369.2	5422.8	5478.8	5432.5	5374.1	5330.2	5271.8
27.5°	5413.0	5430.1	5471.5	5549.4	5617.6	5666.3	5622.4	5546.9	5486.1	5415.5
30°	5632.2	5649.2	5697.9	5780.7	5827.0	5858.6	5829.4	5771.0	5697.9	5617.6
32.5°	5914.6	5936.5	5990.1	6068.0	6077.8	6082.6	6072.9	6043.7	5990.1	5892.7
35°	6272.6	6296.9	6357.8	6421.1	6411.4	6421.1	6406.5	6396.8	6357.8	6245.8
37.5°	6710.9	6740.1	6803.4	6852.1	6827.8	6815.6	6818.0	6820.4	6798.5	6674.3
40°	7219.8	7258.8	7305.0	7356.2	7314.8	7278.2	7302.6	7322.1	7302.6	7176.0
42.5°	7743.3	7799.3	7848.0	7921.1	7887.0	7840.7	7874.8	7896.7	7855.3	7719.0
45°	8325.3	8378.9	8442.2	8551.7	8527.4	8478.7	8527.4	8532.3	8461.6	8300.9
47.5°	8926.7	8982.7	9077.7	9223.8	9214.1	9160.5	9223.8	9189.7	9099.6	8907.2
50°	9496.5	9574.4	9720.5	9925.1	9944.6	9878.8	9964.0	9898.3	9747.3	9506.3
52.5°	10032.2	10115.0	10346.3	10623.9	10694.5	10609.3	10723.8	10609.3	10382.9	10073.6
55°	10594.7	10687.2	10962.4	11325.2	11466.4	11403.1	11510.3	11337.4	11016.0	10641.0
57.5°	11257.0	11313.0	11641.8	12072.8	12311.4	12326.0	12374.7	12082.5	11692.9	11266.8
60°	11975.4	12053.3	12411.2	12927.4	13304.9	13426.6	13375.5	12942.1	12489.1	11999.7
62.5°	12895.8	12981.0	13409.6	14028.1	14624.6	14926.6	14726.9	14098.7	13538.6	12951.8
65°	13657.9	13752.9	14527.2	15630.3	16716.3	17322.6	16821.0	15664.4	14656.3	13828.4
67.5°	13105.2	13222.1	14437.1	16463.1	19163.5	20972.7	19256.0	16711.4	14736.7	13614.1
70°	11454.3	11563.8	12981.0	15457.4	19852.6	23816.8	20266.5	15912.8	13027.3	11770.8
72.5°	7604.5	7957.6	9391.8	12362.5	17726.8	22039.2	17902.2	12111.7	8712.4	7587.5
75°	2522.7	2805.1	3784.0	6408.9	11873.1	16482.5	11303.3	5671.1	2997.5	2157.4
77.5°	635.5	732.9	1010.5	1833.6	4736.1	9384.5	4263.7	1497.5	815.7	569.8
80°	309.2	340.9	487.0	611.2	1185.8	2982.9	1112.8	574.7	384.7	297.1
82.5°	170.5	172.9	275.2	345.8	440.7	771.9	457.8	336.0	221.6	180.2
85°	104.7	102.3	146.1	185.1	185.1	275.2	219.2	185.1	126.6	112.0
87.5°	41.4	41.4	53.6	58.4	51.1	70.6	56.0	60.9	48.7	46.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
4646.0
4670.3
4706.9
4750.7
4792.1
4833.5
4899.2
4979.6
5072.1
5164.6
5269.4
5413.0
5617.6
5895.1
6245.8
6674.3
7176.0
7728.7
8318.0
8895.1
9501.4
10044.4
10589.8
11208.3
11921.8
12849.5
13692.0
13446.1
<i>11602.8</i>
7341.5
2040.5
508.9
272.7
180.2
116.9
48.7
0.0

OF REPORT)