

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: P943880

Luminaire Tested: **GALN-SB8C-827-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943880
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
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-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53265 lumens
Efficiency: N/A
Efficacy: 133.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

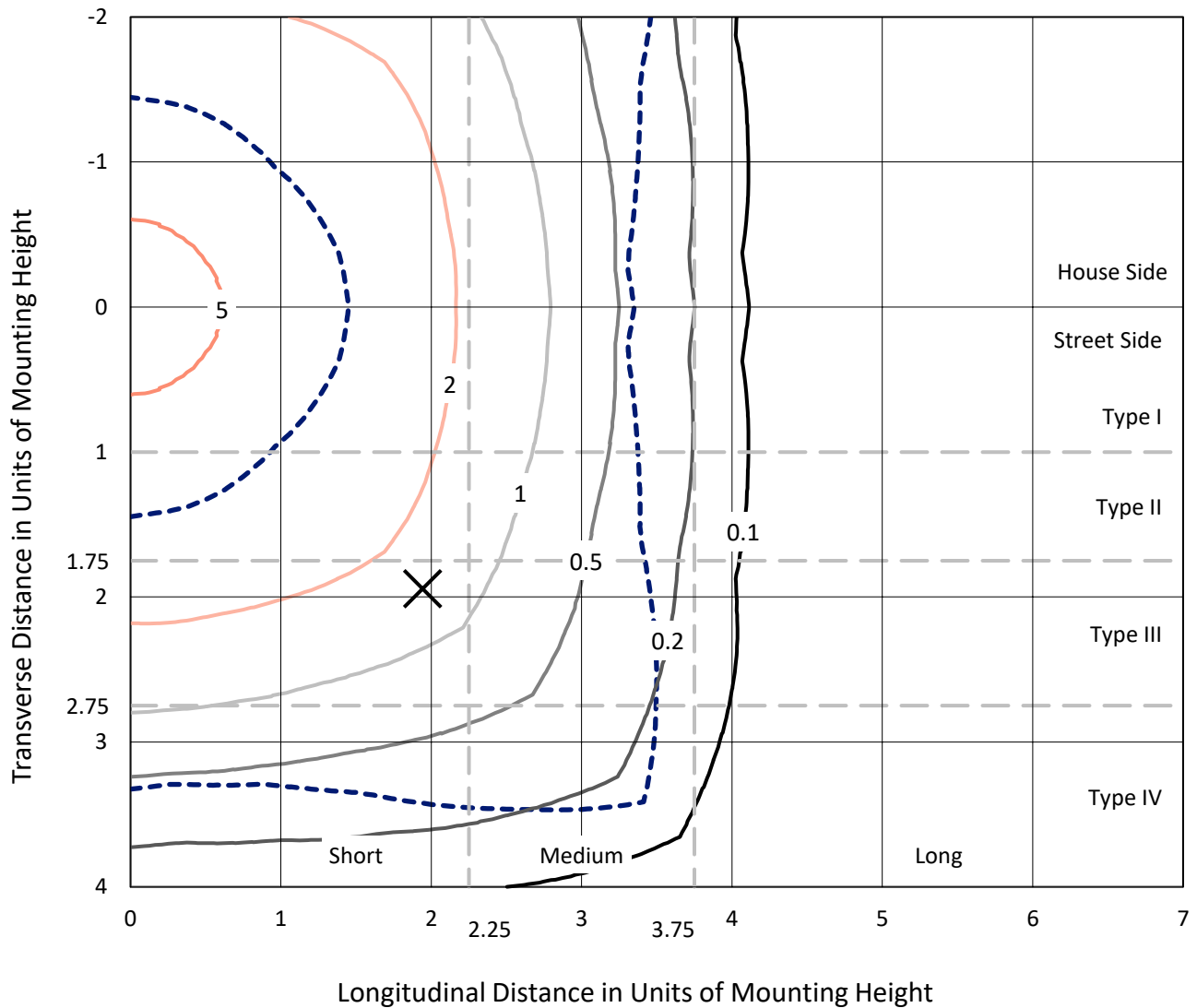
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P943880
 CATALOG NUMBER: GALN-SB8C-827-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

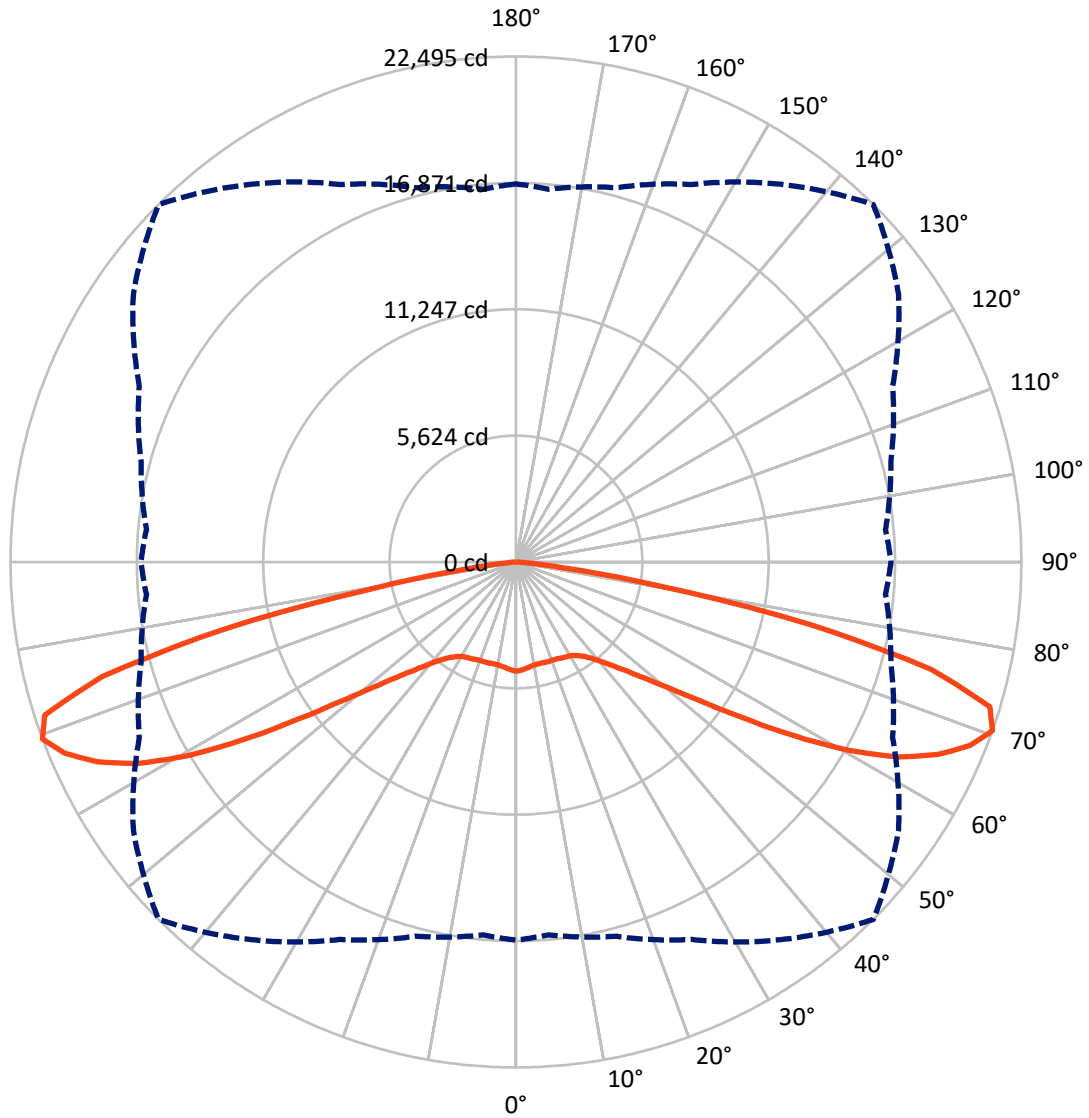
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
 Type V - Short - N/A

REPORT NUMBER: P943880
CATALOG NUMBER: GALN-SB8C-827-U-5WQ

Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	26632.5	0.0	26632.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	26632.5	0.0	26632.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	53265.0	0.0	53265.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	452.0	0.8
10°-20°	1327.1	2.5
20°-30°	2208.6	4.1
30°-40°	3340.0	6.3
40°-50°	5550.3	10.4
50°-60°	10473.2	19.7
60°-70°	17684.5	33.2
70°-80°	11620.5	21.8
80°-90°	608.8	1.1
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°	53265.0	100.0
0°-180°	53265.0	100.0

Coefficient of Utilization



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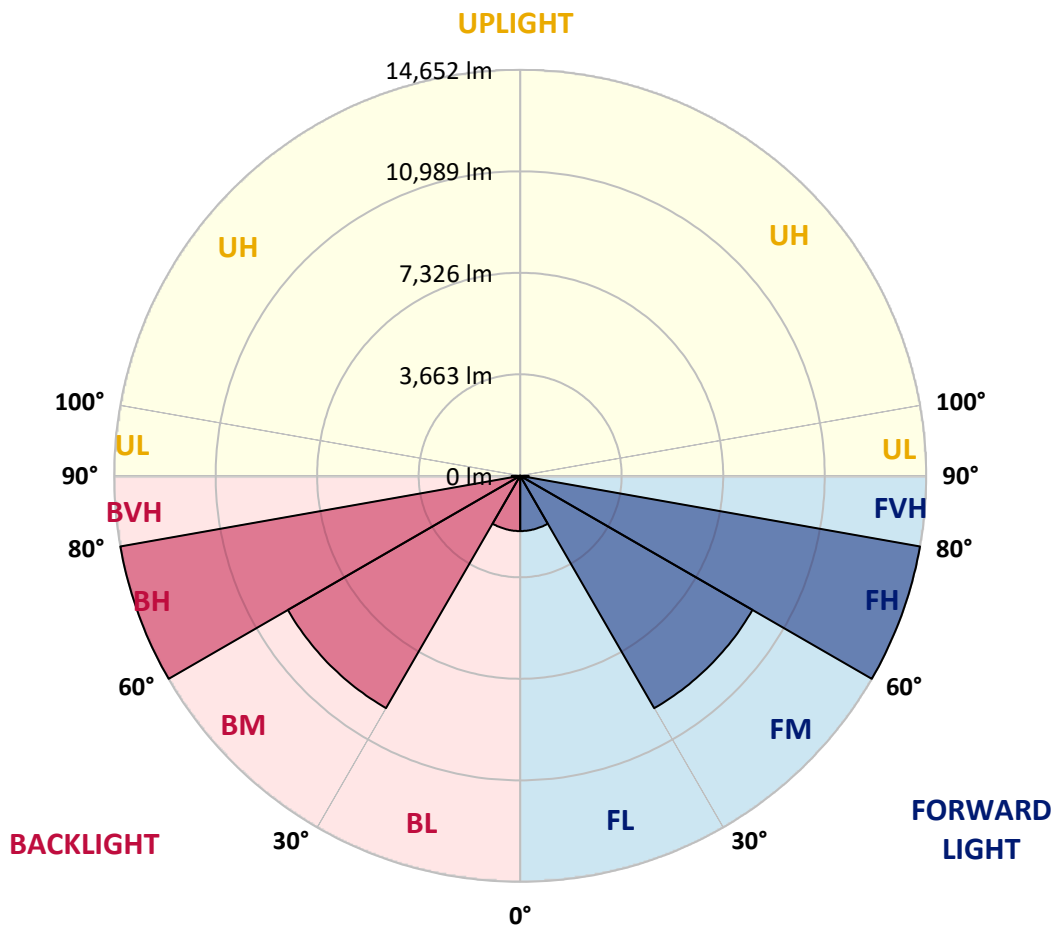
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1993.8	3.7			
FM (30°-60°)	9681.8	18.2			
FH (60°-80°)	14652.5	27.5			G5
FVH (80°-90°)	304.4	0.6			G3/500
BL (0°-30°)	1993.8	3.7	B3/2500		
BM (30°-60°)	9681.8	18.2	B5		
BH (60°-80°)	14652.5	27.5	B5		G5
BVH (80°-90°)	304.4	0.6			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 V Short



REPORT NUMBER: P943880

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4858.8	4858.8	4858.8	4858.8	4858.8	4858.8	4858.8	4858.8	4858.8	4858.8
2.5°	4828.4	4842.2	4836.7	4825.6	4825.6	4817.3	4825.6	4831.2	4839.5	4845.0
5°	4764.7	4775.8	4773.0	4764.7	4767.5	4759.2	4764.7	4773.0	4778.6	4781.3
7.5°	4709.3	4720.4	4714.9	4701.0	4701.0	4692.7	4695.5	4703.8	4712.1	4714.9
10°	4695.5	4706.6	4690.0	4667.8	4659.5	4648.4	4651.2	4659.5	4676.1	4684.4
12.5°	4701.0	4709.3	4692.7	4659.5	4651.2	4640.1	4640.1	4648.4	4670.6	4681.7
15°	4717.6	4725.9	4701.0	4665.0	4656.7	4648.4	4645.7	4656.7	4681.7	4701.0
17.5°	4748.1	4756.4	4717.6	4667.8	4656.7	4659.5	4656.7	4665.0	4703.8	4739.8
20°	4775.8	4781.3	4728.7	4667.8	4656.7	4659.5	4656.7	4673.3	4723.2	4773.0
22.5°	4784.1	4789.6	4739.8	4687.2	4678.9	4681.7	4678.9	4695.5	4742.6	4792.4
25°	4786.9	4795.2	4756.4	4714.9	4728.7	4734.3	4728.7	4731.5	4767.5	4811.8
27.5°	4828.4	4839.5	4803.5	4767.5	4775.8	4773.0	4781.3	4789.6	4817.3	4861.6
30°	4914.2	4922.5	4892.1	4856.1	4850.5	4831.2	4856.1	4883.8	4914.2	4953.0
32.5°	5055.4	5072.0	5033.3	4994.5	4969.6	4958.5	4977.9	5025.0	5066.5	5108.0
35°	5290.7	5301.8	5265.8	5193.8	5149.5	5149.5	5166.2	5227.1	5293.5	5346.1
37.5°	5623.0	5636.8	5573.1	5487.3	5420.9	5420.9	5443.0	5506.7	5606.4	5681.1
40°	6027.2	6046.6	5966.3	5877.7	5814.0	5802.9	5830.6	5902.6	5996.7	6090.9
42.5°	6514.4	6536.6	6431.4	6353.9	6304.0	6304.0	6317.9	6384.3	6470.1	6586.4
45°	7137.4	7176.1	7032.2	6954.6	6907.6	6918.7	6927.0	6985.1	7062.6	7195.5
47.5°	7879.4	7918.1	7765.8	7685.6	7677.2	7729.8	7696.6	7738.2	7779.7	7932.0
50°	8721.0	8787.4	8682.2	8676.7	8693.3	8790.2	8712.7	8734.8	8687.8	8784.7
52.5°	9750.9	9847.8	9828.4	9861.6	10047.1	10246.5	10069.3	9991.8	9814.6	9845.0
55°	10999.5	11146.3	11173.9	11373.3	11794.1	12201.1	11824.6	11511.7	11135.2	11066.0
57.5°	12419.8	12536.1	12669.0	13076.0	13862.2	14584.8	13862.2	13170.1	12577.6	12436.4
60°	13948.1	14092.0	14219.4	14820.2	15988.5	17004.6	15966.3	14867.2	14083.7	13892.7
62.5°	15589.8	15775.3	15863.9	16531.1	17893.3	19105.9	17912.6	16581.0	15711.6	15506.8
65°	17165.1	17317.4	17417.1	18128.6	19429.8	20645.2	19518.4	18206.1	17311.9	17043.3
67.5°	17898.8	17981.9	18225.5	19031.2	20404.4	21791.4	20636.9	19117.0	18117.5	17646.9
70°	16824.6	16655.7	17242.7	18532.8	20520.6	22494.6	20786.4	18494.0	17270.3	16506.2
72.5°	13001.2	12710.5	13729.3	15935.9	19191.7	22046.1	19324.6	16060.5	14363.3	12812.9
75°	7073.7	6744.2	8150.7	10941.4	15304.7	19108.7	15656.3	11254.2	9075.4	7021.1
77.5°	1996.1	1871.6	3006.7	5293.5	9205.5	13416.5	9559.9	5409.8	3565.9	2115.2
80°	611.9	592.5	802.9	1594.7	3909.2	6425.9	3756.9	1614.1	1021.6	645.1
82.5°	362.7	332.2	398.7	581.4	996.7	2018.3	969.0	606.3	487.3	326.7
85°	207.6	193.8	235.3	282.4	335.0	429.1	279.6	287.9	260.2	174.4
87.5°	85.8	77.5	91.4	88.6	77.5	99.7	74.8	88.6	105.2	69.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
4858.8
4842.2
4781.3
4714.9
4684.4
4684.4
4703.8
4739.8
4775.8
4792.4
4809.0
4850.5
4944.7
5091.4
5326.7
5653.4
6060.4
6578.1
7190.0
7887.7
8726.5
9742.6
10958.0
12336.7
13726.6
15340.6
16910.4
17652.4
16688.9
13197.8
7477.9
2350.5
681.1
354.4
182.7
63.7
0.0

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