

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: P949976

Luminaire Tested: **GALN-SB4C-827-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949976
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB4C-827-U-5NQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27350 lumens
Efficiency: N/A
Efficacy: 136.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

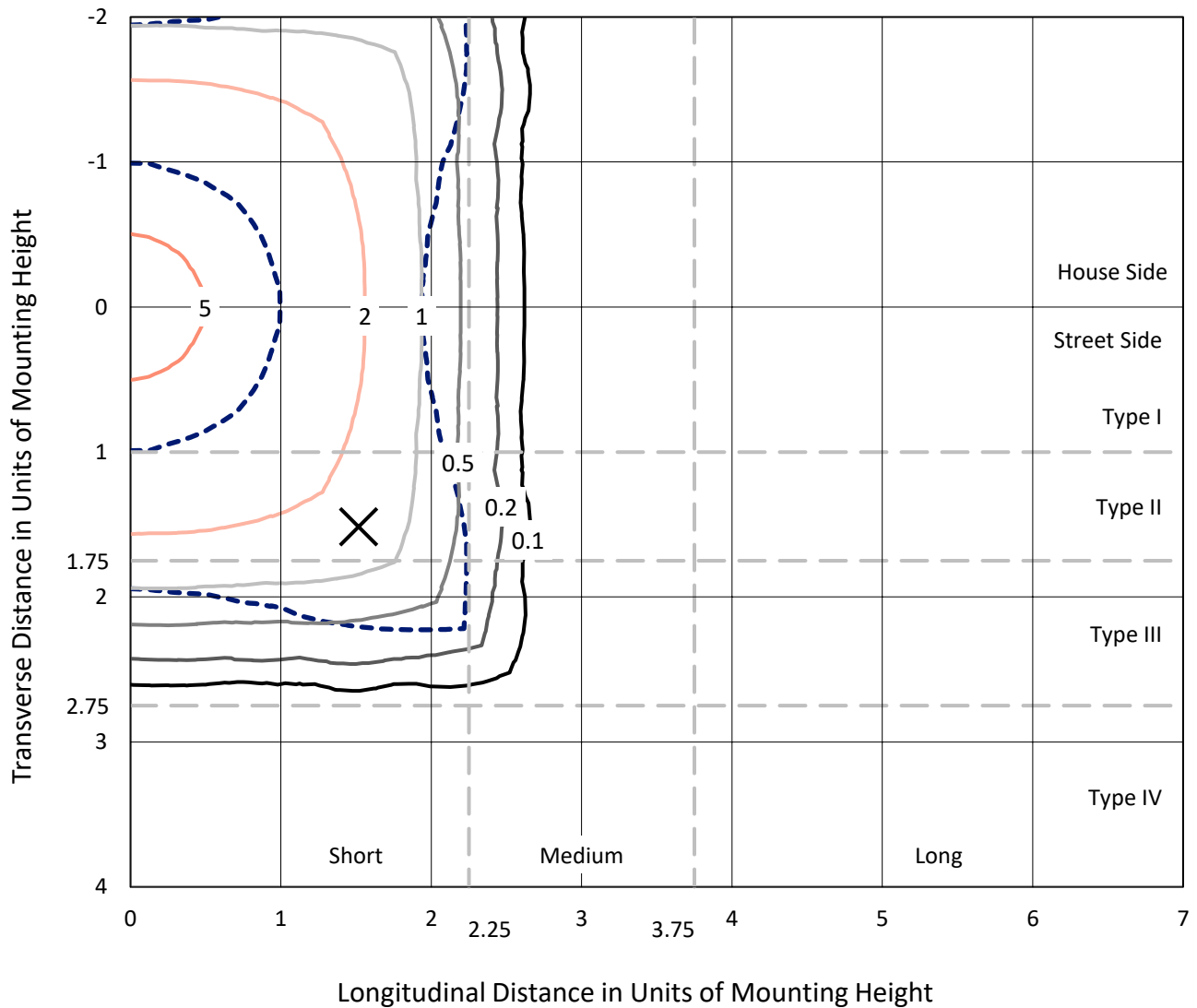
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

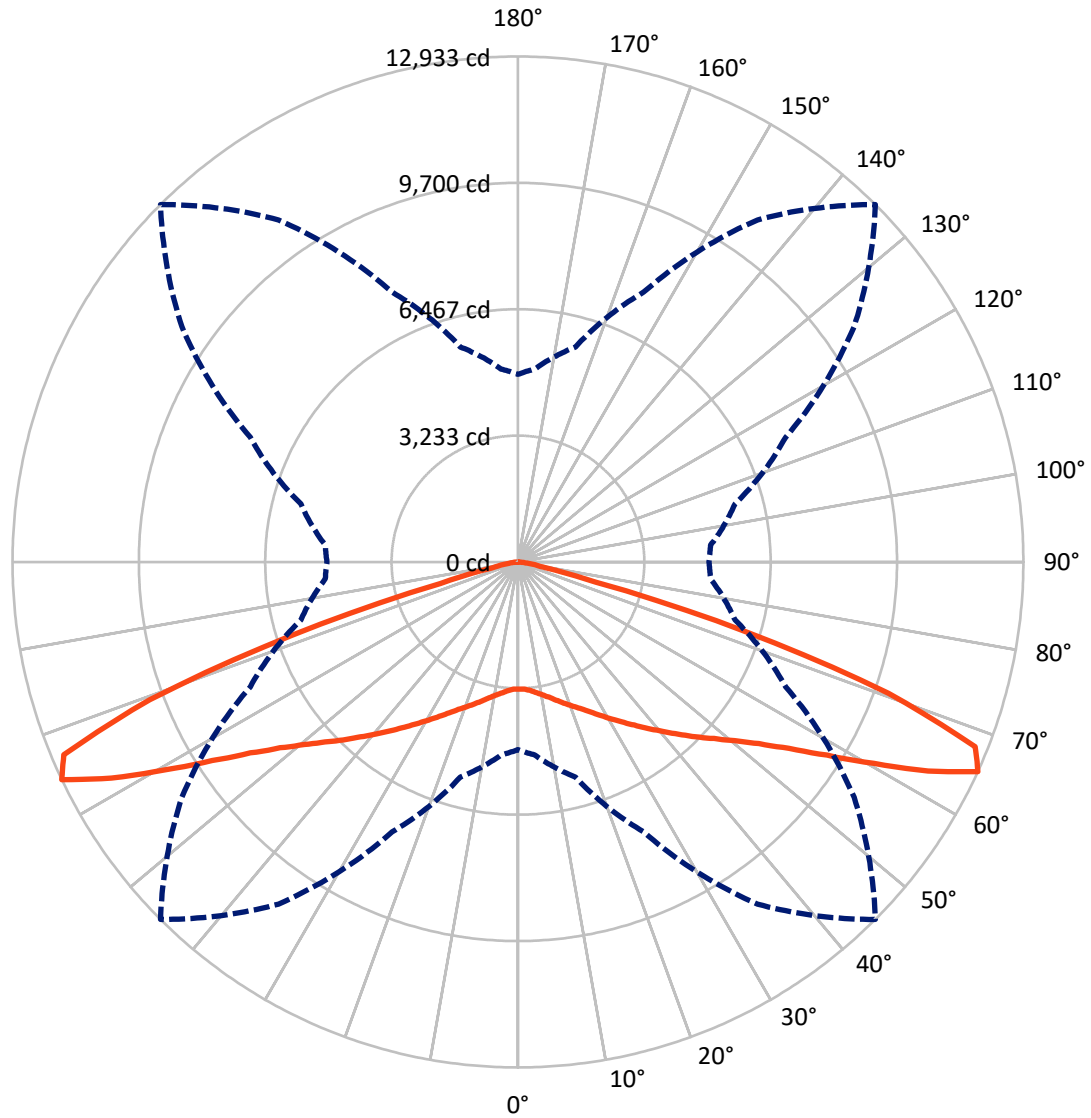
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13675.0	0.0	13675.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13675.0	0.0	13675.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	27350.0	0.0	27350.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	321.2	1.2
10°-20°	1048.2	3.8
20°-30°	1979.1	7.2
30°-40°	3240.7	11.8
40°-50°	5024.8	18.4
50°-60°	7422.7	27.1
60°-70°	7065.7	25.8
70°-80°	1140.2	4.2
80°-90°	107.5	0.4
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°	27350.0	100.0
0°-180°	27350.0	100.0

Coefficient of Utilization



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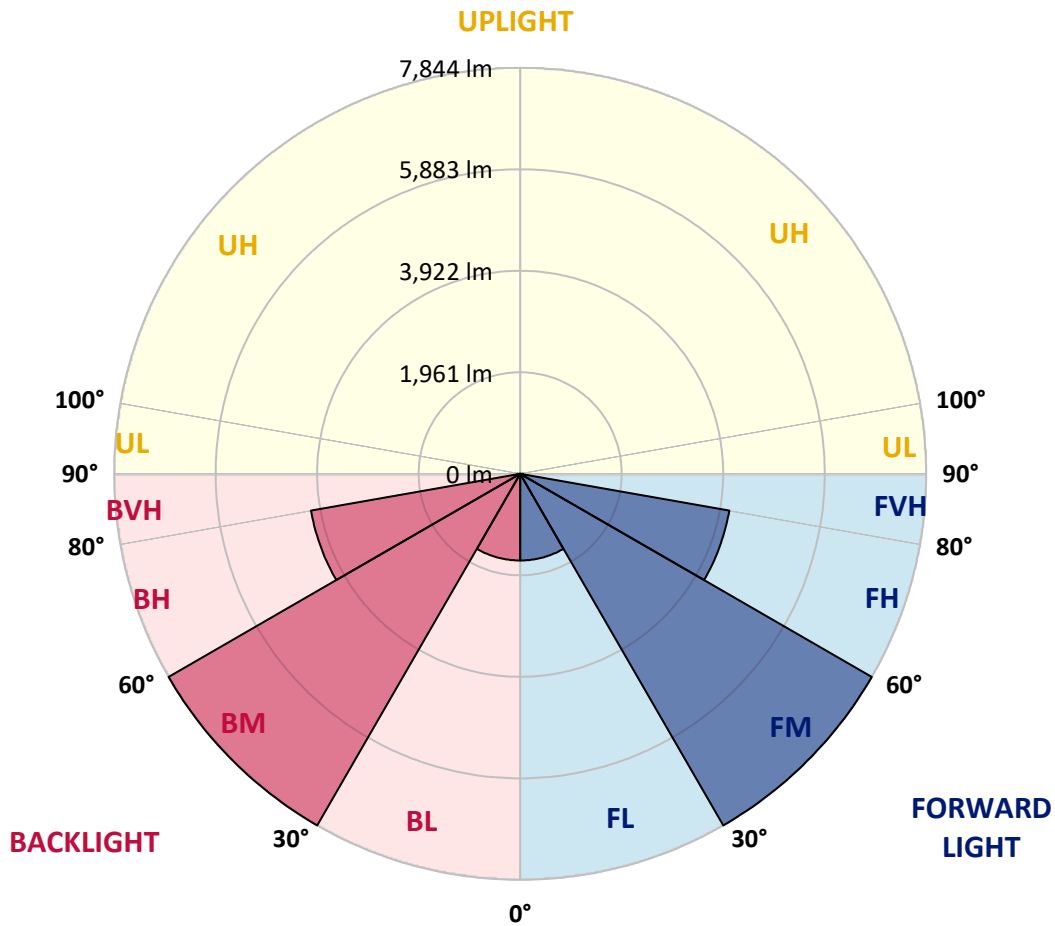
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1674.3	6.1			
FM (30°-60°)	7844.1	28.7			
FH (60°-80°)	4102.9	15.0			G2/5000
FVH (80°-90°)	53.7	0.2			G1/100
BL (0°-30°)	1674.3	6.1	B3/2500		
BM (30°-60°)	7844.1	28.7	B4/8500		
BH (60°-80°)	4102.9	15.0	B4/5000		G2/5000
BVH (80°-90°)	53.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3254.9	3254.9	3254.9	3254.9	3254.9	3254.9	3254.9	3254.9	3254.9	3254.9
2.5°	3276.9	3265.9	3274.1	3267.3	3261.8	3256.3	3259.0	3268.6	3272.8	3274.1
5°	3320.8	3311.2	3315.3	3315.3	3305.7	3303.0	3304.3	3311.2	3319.4	3319.4
7.5°	3392.1	3382.5	3392.1	3386.7	3378.4	3375.7	3374.3	3379.8	3392.1	3392.1
10°	3478.6	3467.6	3473.1	3470.4	3460.8	3456.6	3455.3	3463.5	3474.5	3473.1
12.5°	3573.3	3560.9	3567.8	3559.6	3556.8	3552.7	3552.7	3551.3	3558.2	3552.7
15°	3678.9	3670.7	3673.5	3668.0	3672.1	3669.3	3658.4	3652.9	3655.6	3647.4
17.5°	3803.8	3784.6	3794.2	3791.5	3791.5	3797.0	3779.1	3772.3	3777.7	3769.5
20°	3947.9	3928.7	3932.8	3927.3	3920.5	3925.9	3904.0	3909.5	3913.6	3908.1
22.5°	4105.7	4081.0	4079.6	4082.4	4067.3	4068.7	4053.6	4067.3	4075.5	4060.4
25°	4267.6	4241.6	4259.4	4252.5	4233.3	4237.4	4226.5	4240.2	4247.0	4227.8
27.5°	4439.2	4421.3	4437.8	4441.9	4418.6	4435.0	4418.6	4430.9	4437.8	4409.0
30°	4639.5	4621.7	4636.8	4647.7	4620.3	4646.4	4632.6	4640.9	4642.2	4607.9
32.5°	4857.7	4830.2	4868.7	4874.2	4844.0	4875.5	4857.7	4868.7	4875.5	4828.9
35°	5123.9	5089.6	5133.5	5126.6	5100.6	5126.6	5110.2	5126.6	5143.1	5086.8
37.5°	5410.7	5375.0	5421.7	5409.3	5384.6	5402.5	5392.9	5403.8	5429.9	5369.5
40°	5726.3	5682.4	5745.5	5723.6	5700.2	5697.5	5703.0	5709.8	5744.1	5676.9
42.5°	6063.9	6017.2	6111.9	6077.6	6044.7	6022.7	6040.5	6054.3	6087.2	6011.7
45°	6449.5	6396.0	6519.5	6478.3	6426.1	6380.9	6409.7	6430.3	6478.3	6387.7
47.5°	6874.9	6814.5	6946.2	6933.9	6848.8	6750.0	6815.9	6874.9	6910.5	6800.8
50°	7290.6	7244.0	7416.9	7432.0	7327.7	7189.1	7281.0	7370.2	7379.8	7235.8
52.5°	7680.4	7633.7	7884.8	7979.5	7886.2	7721.5	7819.0	7909.5	7836.8	7650.2
55°	7991.9	7953.4	8273.2	8517.4	8549.0	8413.1	8470.8	8468.0	8229.2	7942.5
57.5°	8067.3	8061.8	8465.3	8982.6	9311.9	9328.4	9214.5	8923.6	8409.0	8023.4
60°	7724.3	7758.6	8313.0	9225.5	10103.7	10468.7	9976.1	9145.9	8204.5	7669.4
62.5°	6697.8	6788.4	7456.7	8929.1	10743.2	11780.6	10586.7	8808.3	7364.7	6666.3
65°	4800.1	4957.9	5696.1	7620.0	10685.5	12933.2	10498.9	7558.2	5751.0	4945.5
67.5°	2177.7	2338.3	2965.4	5217.2	9288.6	12620.4	9266.7	5272.1	3113.6	2346.5
70°	789.0	816.5	1018.2	2088.5	5936.3	10055.7	6190.1	2103.6	1082.7	870.0
72.5°	477.5	481.7	524.2	747.9	2062.5	6105.0	2150.3	772.6	535.2	474.8
75°	303.3	300.5	373.2	457.0	731.4	2059.7	767.1	457.0	371.9	338.9
77.5°	218.2	225.0	267.6	341.7	461.1	698.5	452.8	326.6	267.6	219.6
80°	163.3	167.4	194.9	266.2	323.8	435.0	288.2	241.5	201.7	137.2
82.5°	118.0	118.0	127.6	193.5	197.6	234.7	156.4	170.2	133.1	97.4
85°	70.0	68.6	79.6	115.3	102.9	86.5	71.4	104.3	83.7	60.4
87.5°	24.7	26.1	24.7	32.9	27.4	23.3	22.0	28.8	23.3	20.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
3254.9
3274.1
3319.4
3388.0
3470.4
3555.4
3648.8
3776.4
3920.5
4075.5
4249.8
4430.9
4628.5
4860.4
5121.2
5406.6
5698.9
6051.5
6434.4
6837.8
7253.6
7655.7
7952.1
7998.7
7606.3
6625.1
4886.5
2312.2
859.0
483.0
341.7
223.7
141.3
97.4
59.0
19.2
0.0

OF REPORT)