

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: P951404

Luminaire Tested: **GALN-SB5C-827-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951404
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-SB5C-827-U-5NQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 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: 34472 lumens
Efficiency: N/A
Efficacy: 138.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

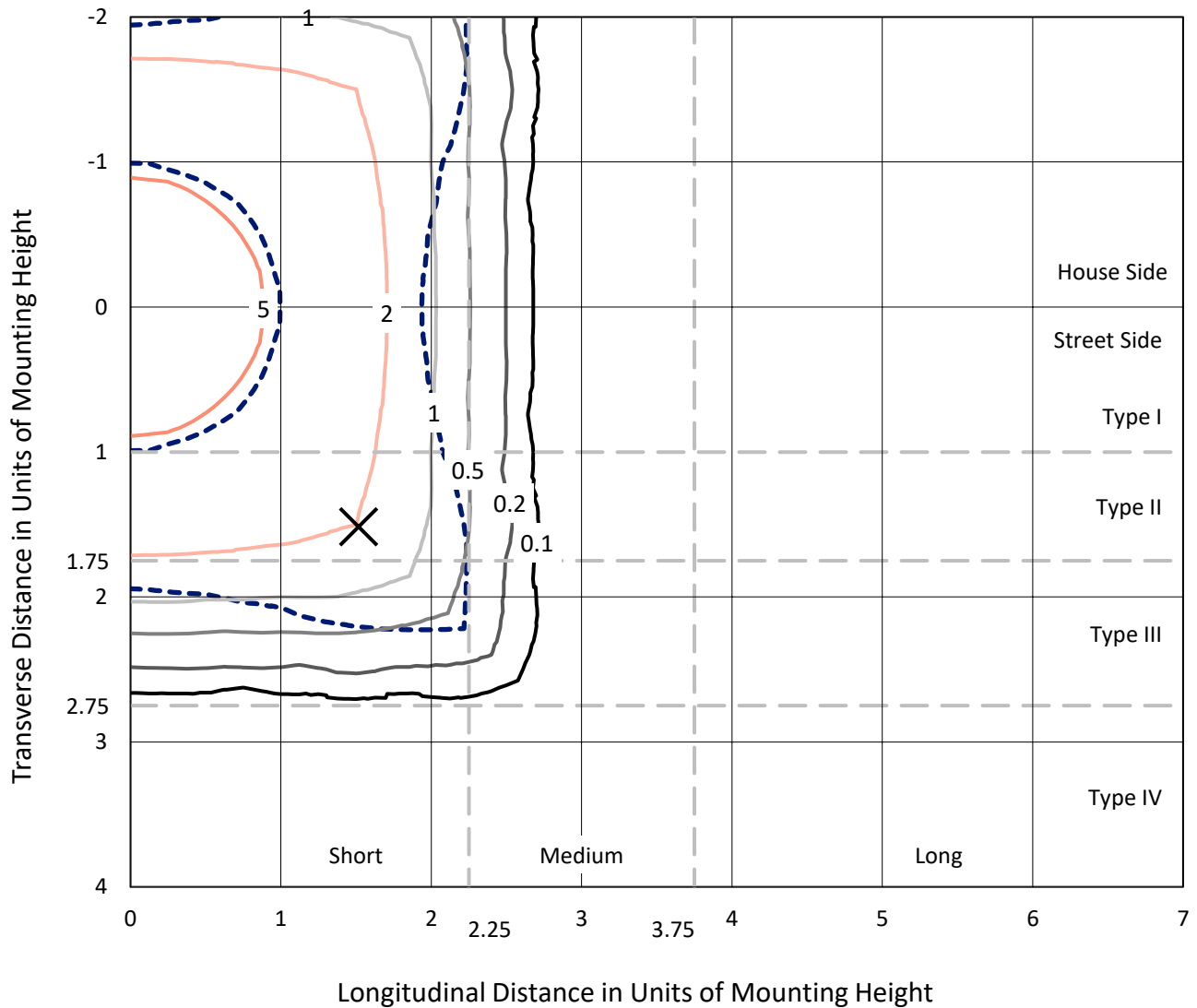
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

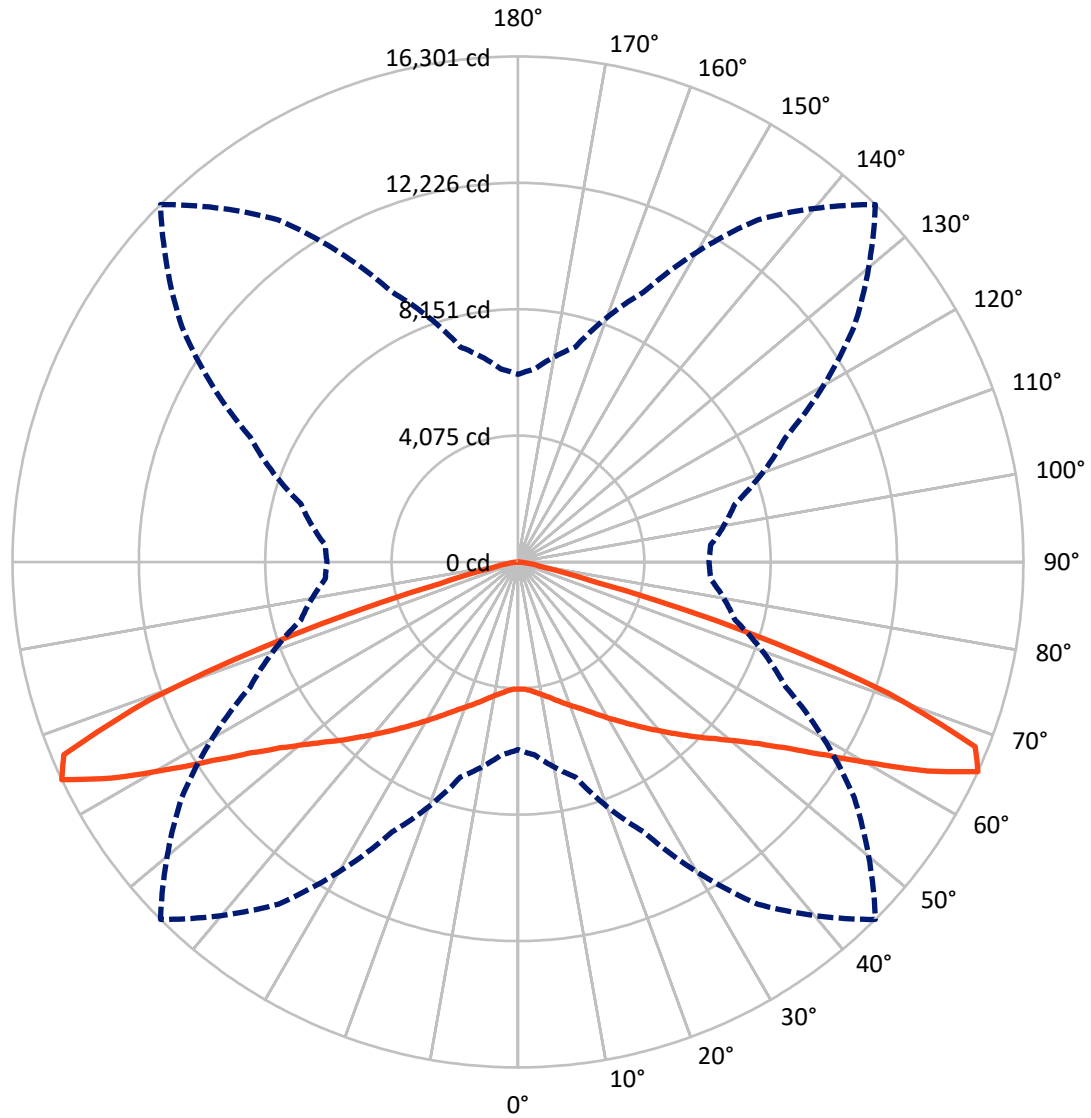
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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	17236.0	0.0	17236.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17236.0	0.0	17236.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	34472.0	0.0	34472.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	404.9	1.2
10°-20°	1321.2	3.8
20°-30°	2494.5	7.2
30°-40°	4084.6	11.8
40°-50°	6333.2	18.4
50°-60°	9355.5	27.1
60°-70°	8905.6	25.8
70°-80°	1437.0	4.2
80°-90°	135.5	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°	34472.0	100.0
0°-180°	34472.0	100.0

Coefficient of Utilization



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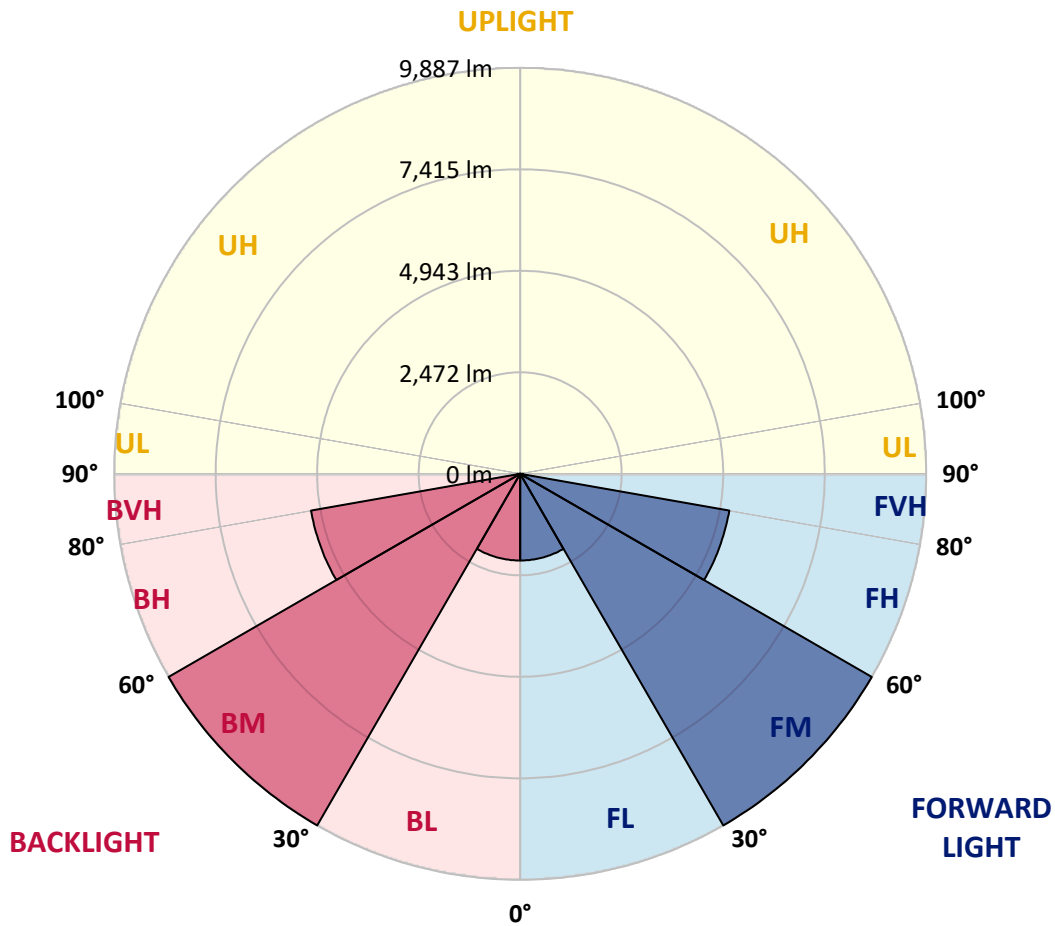
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2110.3	6.1			
FM (30°-60°)	9886.7	28.7			
FH (60°-80°)	5171.3	15.0			G3/7500
FVH (80°-90°)	67.7	0.2			G1/100
BL (0°-30°)	2110.3	6.1	B3/2500		
BM (30°-60°)	9886.7	28.7	B5		
BH (60°-80°)	5171.3	15.0	B5		G3/7500
BVH (80°-90°)	67.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4102.5	4102.5	4102.5	4102.5	4102.5	4102.5	4102.5	4102.5	4102.5	4102.5
2.5°	4130.2	4116.3	4126.7	4118.1	4111.2	4104.2	4107.7	4119.8	4125.0	4126.7
5°	4185.5	4173.4	4178.6	4178.6	4166.5	4163.0	4164.8	4173.4	4183.8	4183.8
7.5°	4275.5	4263.4	4275.5	4268.6	4258.2	4254.7	4253.0	4259.9	4275.5	4275.5
10°	4384.4	4370.6	4377.5	4374.1	4361.9	4356.8	4355.0	4365.4	4379.2	4377.5
12.5°	4503.8	4488.2	4496.9	4486.5	4483.0	4477.8	4477.8	4476.1	4484.7	4477.8
15°	4636.9	4626.6	4630.0	4623.1	4628.3	4624.8	4611.0	4604.1	4607.5	4597.2
17.5°	4794.3	4770.1	4782.2	4778.8	4778.8	4785.7	4763.2	4754.6	4761.5	4751.1
20°	4975.9	4951.7	4956.9	4950.0	4941.3	4948.3	4920.6	4927.5	4932.7	4925.8
22.5°	5174.8	5143.7	5142.0	5145.4	5126.4	5128.1	5109.1	5126.4	5136.8	5117.8
25°	5378.9	5346.1	5368.5	5359.9	5335.7	5340.9	5327.0	5344.3	5353.0	5328.8
27.5°	5595.1	5572.6	5593.4	5598.6	5569.2	5589.9	5569.2	5584.7	5593.4	5557.1
30°	5847.6	5825.2	5844.2	5858.0	5823.4	5856.3	5839.0	5849.4	5851.1	5807.9
32.5°	6122.6	6088.0	6136.5	6143.4	6105.3	6145.1	6122.6	6136.5	6145.1	6086.3
35°	6458.2	6414.9	6470.3	6461.6	6428.8	6461.6	6440.9	6461.6	6482.4	6411.5
37.5°	6819.6	6774.7	6833.5	6817.9	6786.8	6809.3	6797.2	6811.0	6843.9	6767.8
40°	7217.4	7162.1	7241.7	7214.0	7184.6	7181.1	7188.0	7196.7	7239.9	7155.2
42.5°	7642.9	7584.1	7703.5	7660.2	7618.7	7591.0	7613.5	7630.8	7672.3	7577.2
45°	8128.9	8061.5	8217.1	8165.2	8099.5	8042.4	8078.8	8104.7	8165.2	8051.1
47.5°	8665.1	8589.0	8755.0	8739.5	8632.2	8507.7	8590.7	8665.1	8710.1	8571.7
50°	9189.1	9130.3	9348.3	9367.3	9235.8	9061.2	9177.0	9289.5	9301.6	9120.0
52.5°	9680.3	9621.5	9938.0	10057.4	9939.8	9732.2	9855.0	9969.2	9877.5	9642.3
55°	10072.9	10024.5	10427.5	10735.4	10775.1	10603.9	10676.6	10673.1	10372.2	10010.7
57.5°	10168.1	10161.2	10669.6	11321.7	11736.8	11757.5	11614.0	11247.3	10598.7	10112.7
60°	9735.7	9778.9	10477.7	11627.8	12734.7	13194.8	12573.9	11527.5	10341.0	9666.5
62.5°	8442.0	8556.1	9398.4	11254.2	13540.7	14848.3	13343.5	11102.0	9282.5	8402.2
65°	6050.0	6248.9	7179.4	9604.2	13468.1	16301.1	13232.9	9526.4	7248.6	6233.3
67.5°	2744.8	2947.2	3737.6	6575.8	11707.4	15906.7	11679.7	6645.0	3924.4	2957.5
70°	994.5	1029.1	1283.3	2632.4	7482.1	12674.2	7802.0	2651.4	1364.6	1096.5
72.5°	601.9	607.1	660.7	942.6	2599.5	7694.8	2710.2	973.7	674.5	598.4
75°	382.2	378.8	470.4	575.9	921.9	2596.1	966.8	575.9	468.7	427.2
77.5°	275.0	283.6	337.3	430.7	581.1	880.3	570.8	411.6	337.3	276.7
80°	205.8	211.0	245.6	335.5	408.2	548.3	363.2	304.4	254.2	173.0
82.5°	148.7	148.7	160.8	243.9	249.1	295.8	197.2	214.5	167.8	122.8
85°	88.2	86.5	100.3	145.3	129.7	109.0	89.9	131.4	105.5	76.1
87.5°	31.1	32.9	31.1	41.5	34.6	29.4	27.7	36.3	29.4	25.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
4102.5
4126.7
4183.8
4270.3
4374.1
4481.3
4598.9
4759.7
4941.3
5136.8
5356.4
5584.7
5833.8
6126.1
6454.7
6814.5
7182.9
7627.4
8109.9
8618.4
9142.4
9649.2
10022.8
10081.6
9586.9
8350.3
6159.0
2914.3
1082.7
608.8
430.7
281.9
178.1
122.8
74.4
24.2
0.0

OF REPORT)