

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: P947120

Luminaire Tested: **GALN-SB2C-827-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947120
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-SB2C-827-U-5NQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 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: 13647 lumens
Efficiency: N/A
Efficacy: 135.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

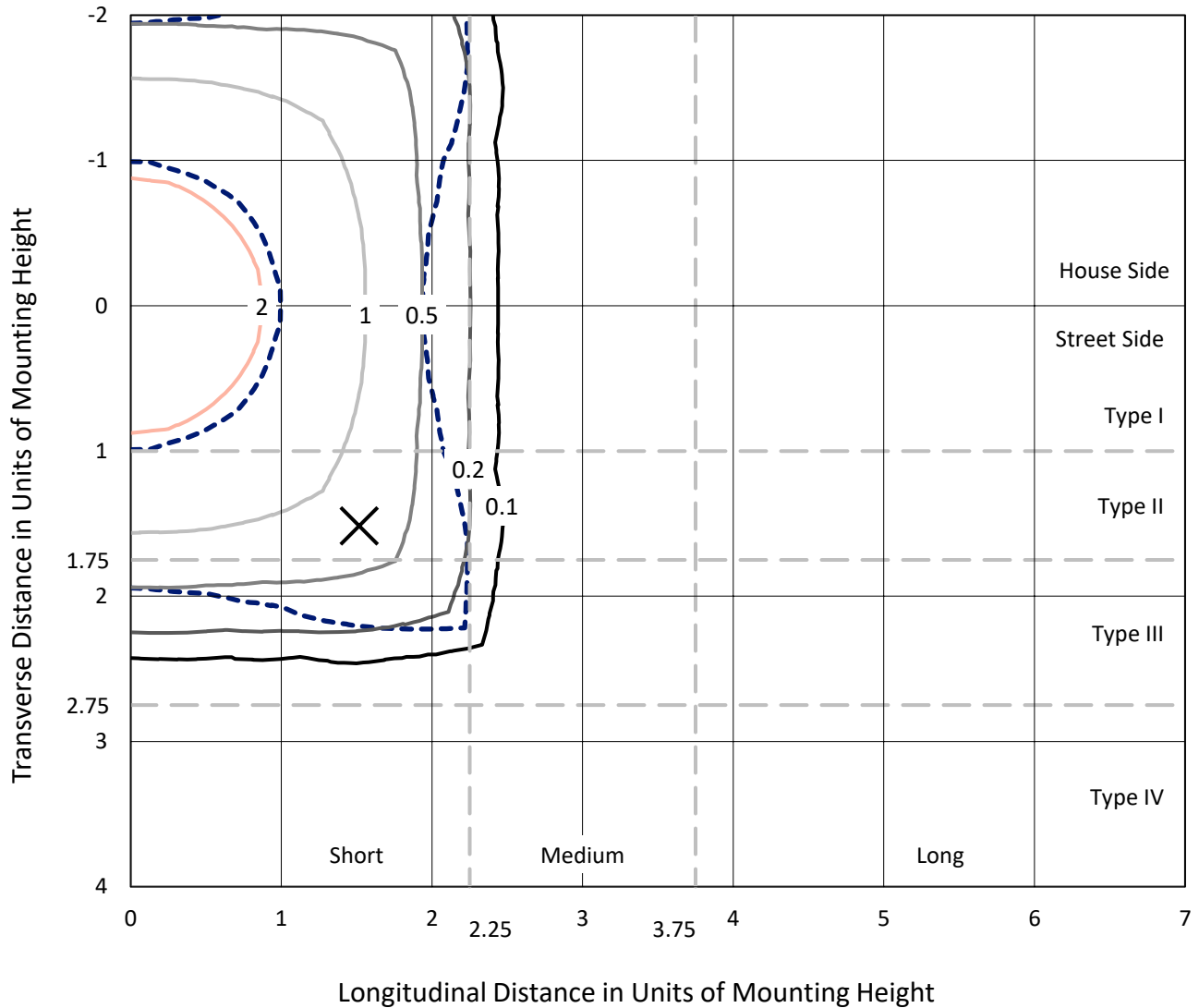
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

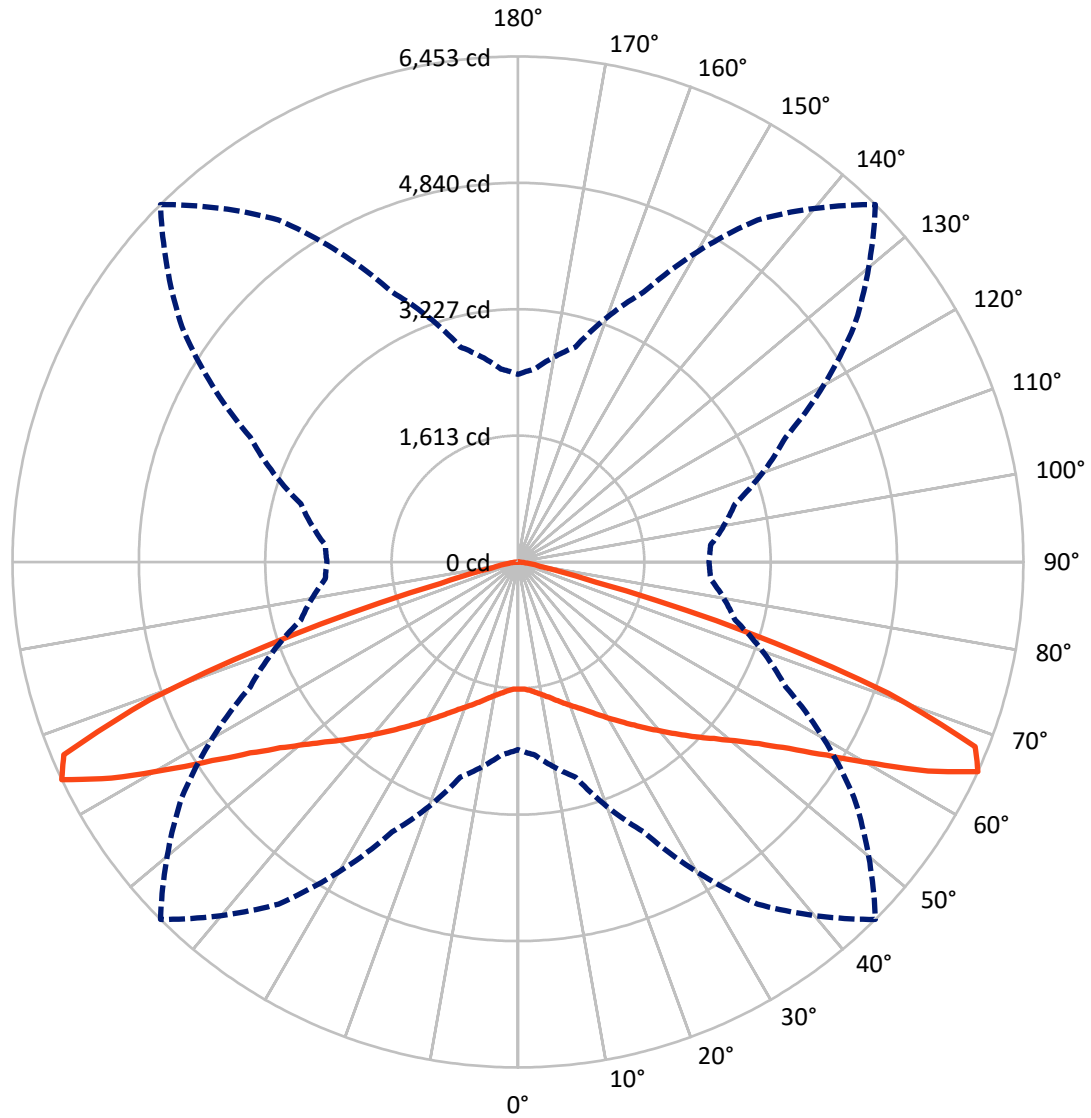
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 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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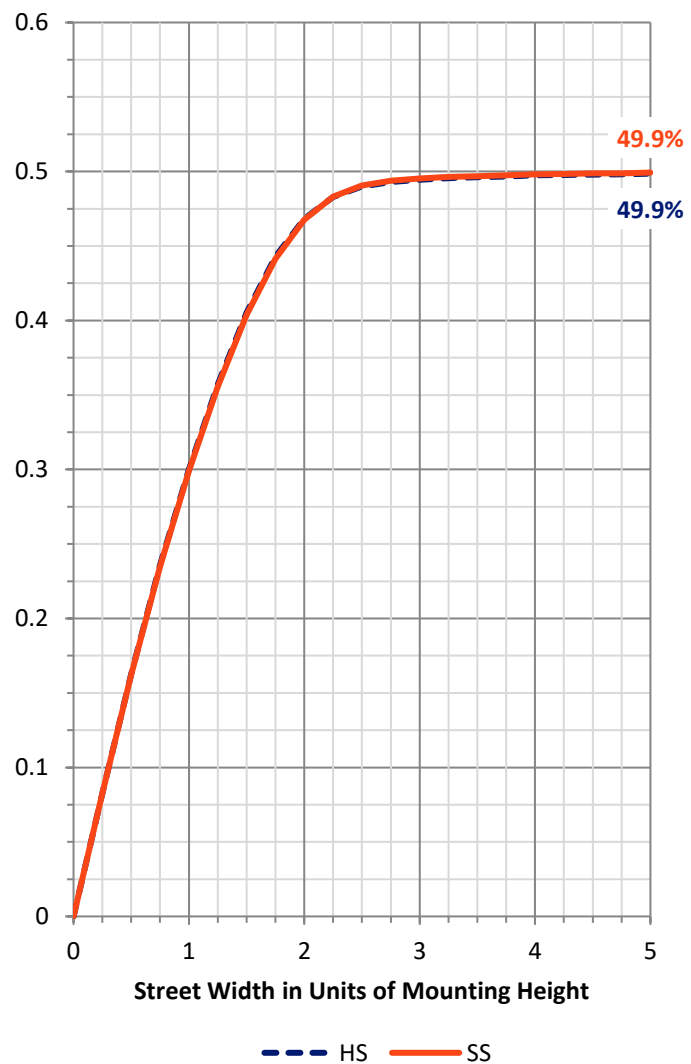
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6823.5	0.0	6823.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6823.5	0.0	6823.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	13647.0	0.0	13647.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.3	1.2
10°-20°	523.0	3.8
20°-30°	987.5	7.2
30°-40°	1617.1	11.8
40°-50°	2507.2	18.4
50°-60°	3703.7	27.1
60°-70°	3525.6	25.8
70°-80°	568.9	4.2
80°-90°	53.6	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°	13647.0	100.0
0°-180°	13647.0	100.0

Coefficient of Utilization



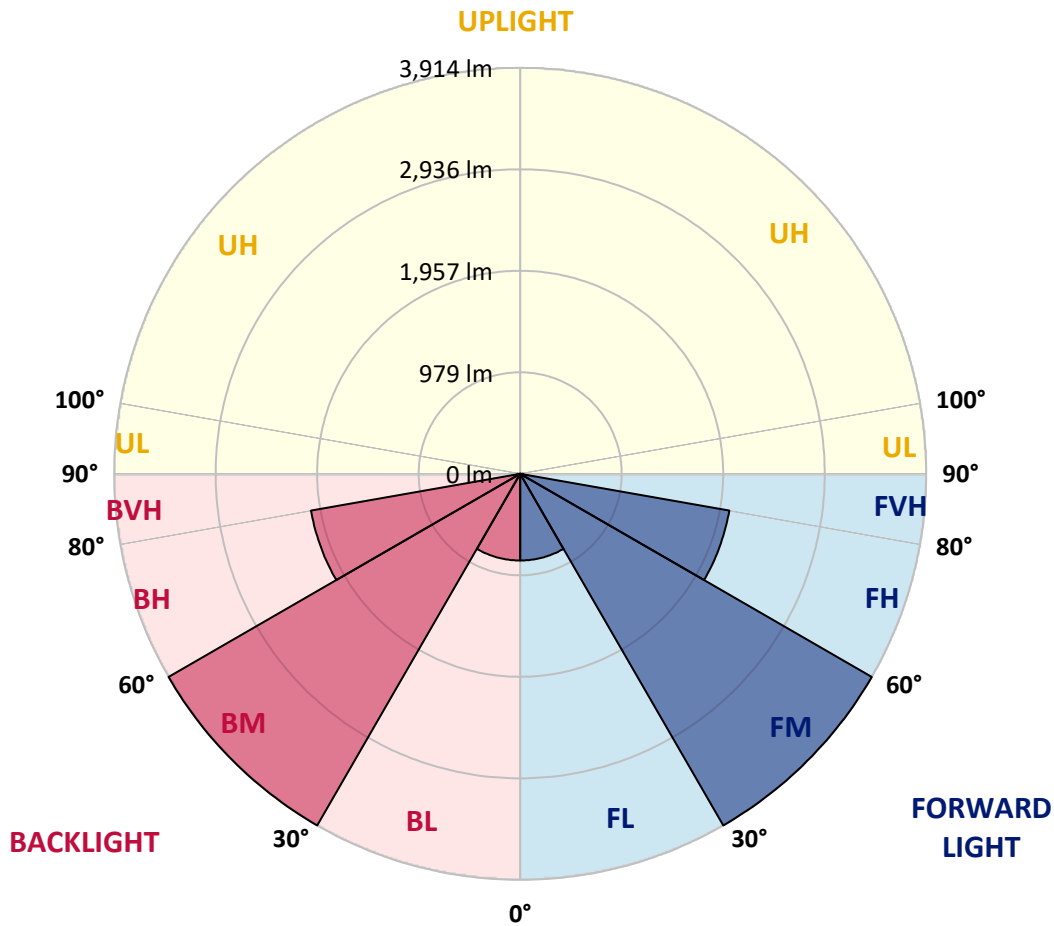
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	835.4	6.1			
FM (30°-60°)	3914.0	28.7			
FH (60°-80°)	2047.3	15.0			G2/5000
FVH (80°-90°)	26.8	0.2			G1/100
BL (0°-30°)	835.4	6.1	B2/1000		
BM (30°-60°)	3914.0	28.7	B3/5000		
BH (60°-80°)	2047.3	15.0	B3/2500		G2/5000
BVH (80°-90°)	26.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1624.1	1624.1	1624.1	1624.1	1624.1	1624.1	1624.1	1624.1	1624.1	1624.1
2.5°	1635.1	1629.6	1633.7	1630.3	1627.6	1624.8	1626.2	1631.0	1633.0	1633.7
5°	1657.0	1652.2	1654.3	1654.3	1649.5	1648.1	1648.8	1652.2	1656.3	1656.3
7.5°	1692.6	1687.8	1692.6	1689.9	1685.8	1684.4	1683.7	1686.4	1692.6	1692.6
10°	1735.7	1730.3	1733.0	1731.6	1726.8	1724.8	1724.1	1728.2	1733.7	1733.0
12.5°	1783.0	1776.8	1780.2	1776.1	1774.8	1772.7	1772.7	1772.0	1775.5	1772.7
15°	1835.7	1831.6	1833.0	1830.2	1832.3	1830.9	1825.4	1822.7	1824.1	1820.0
17.5°	1898.0	1888.4	1893.2	1891.9	1891.9	1894.6	1885.7	1882.3	1885.0	1880.9
20°	1969.9	1960.3	1962.4	1959.6	1956.2	1959.0	1948.0	1950.7	1952.8	1950.1
22.5°	2048.6	2036.3	2035.6	2037.0	2029.5	2030.2	2022.6	2029.5	2033.6	2026.1
25°	2129.4	2116.4	2125.3	2121.9	2112.3	2114.4	2108.9	2115.8	2119.2	2109.6
27.5°	2215.0	2206.1	2214.3	2216.4	2204.8	2213.0	2204.8	2210.9	2214.3	2200.0
30°	2315.0	2306.1	2313.6	2319.1	2305.4	2318.4	2311.6	2315.7	2316.4	2299.3
32.5°	2423.9	2410.2	2429.3	2432.1	2417.0	2432.8	2423.9	2429.3	2432.8	2409.5
35°	2556.7	2539.6	2561.5	2558.1	2545.1	2558.1	2549.9	2558.1	2566.3	2538.2
37.5°	2699.8	2682.0	2705.3	2699.1	2686.8	2695.7	2690.9	2696.4	2709.4	2679.3
40°	2857.3	2835.4	2866.9	2855.9	2844.3	2842.9	2845.7	2849.1	2866.2	2832.6
42.5°	3025.7	3002.4	3049.7	3032.6	3016.1	3005.2	3014.1	3020.9	3037.4	2999.7
45°	3218.1	3191.4	3253.1	3232.5	3206.5	3183.9	3198.3	3208.5	3232.5	3187.3
47.5°	3430.4	3400.3	3466.0	3459.8	3417.4	3368.1	3400.9	3430.4	3448.2	3393.4
50°	3637.9	3614.6	3700.9	3708.4	3656.3	3587.2	3633.1	3677.6	3682.4	3610.5
52.5°	3832.3	3809.0	3934.3	3981.6	3935.0	3852.9	3901.5	3946.7	3910.4	3817.3
55°	3987.7	3968.6	4128.1	4250.0	4265.7	4198.0	4226.7	4225.3	4106.2	3963.1
57.5°	4025.4	4022.7	4224.0	4482.1	4646.4	4654.7	4597.8	4452.7	4195.9	4003.5
60°	3854.2	3871.3	4148.0	4603.3	5041.5	5223.6	4977.8	4563.6	4093.9	3826.8
62.5°	3342.1	3387.3	3720.7	4455.4	5360.6	5878.2	5282.5	4395.1	3674.8	3326.3
65°	2395.1	2473.9	2842.2	3802.2	5331.8	6453.4	5238.7	3771.4	2869.6	2467.7
67.5°	1086.6	1166.7	1479.7	2603.3	4634.8	6297.3	4623.8	2630.7	1553.6	1170.9
70°	393.7	407.4	508.1	1042.1	2962.1	5017.5	3088.7	1049.7	540.2	434.1
72.5°	238.3	240.3	261.6	373.2	1029.1	3046.3	1072.9	385.5	267.0	236.9
75°	151.3	150.0	186.2	228.0	364.9	1027.7	382.8	228.0	185.6	169.1
77.5°	108.9	112.3	133.5	170.5	230.1	348.5	226.0	163.0	133.5	109.6
80°	81.5	83.5	97.2	132.8	161.6	217.1	143.8	120.5	100.7	68.5
82.5°	58.9	58.9	63.7	96.5	98.6	117.1	78.1	84.9	66.4	48.6
85°	34.9	34.2	39.7	57.5	51.4	43.1	35.6	52.0	41.8	30.1
87.5°	12.3	13.0	12.3	16.4	13.7	11.6	11.0	14.4	11.6	10.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
1624.1
1633.7
1656.3
1690.5
1731.6
1774.1
1820.6
1884.3
1956.2
2033.6
2120.5
2210.9
2309.5
2425.2
2555.3
2697.8
2843.6
3019.6
3210.6
3411.9
3619.4
3820.0
3967.9
3991.2
3795.3
3305.8
2438.2
1153.7
428.6
241.0
170.5
111.6
70.5
48.6
29.4
9.6
0.0

OF REPORT)