

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: P939970

Luminaire Tested: **GALN-SB2D-827-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939970
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-SB2D-827-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17900 lumens
Efficiency: N/A
Efficacy: 121.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

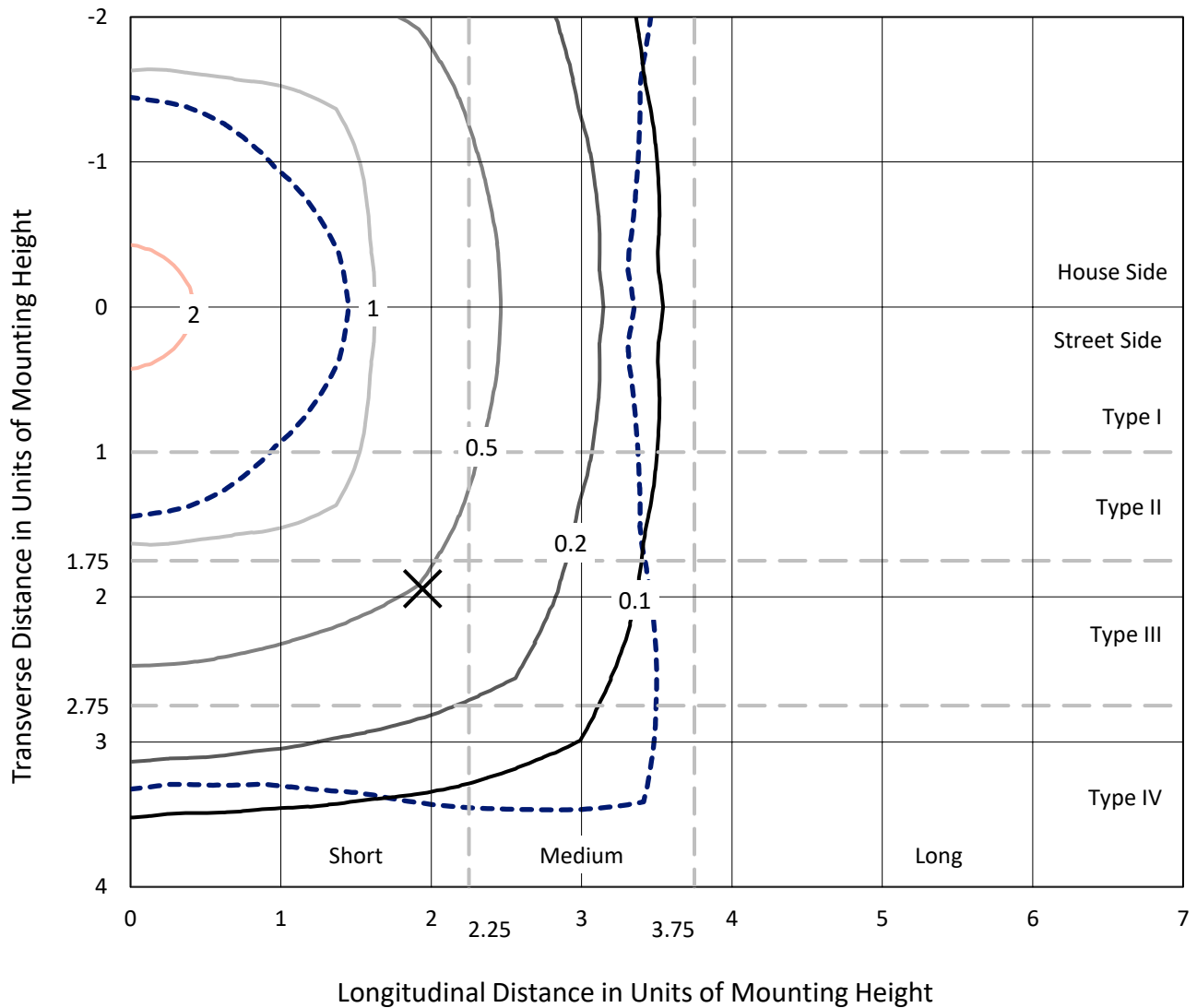
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

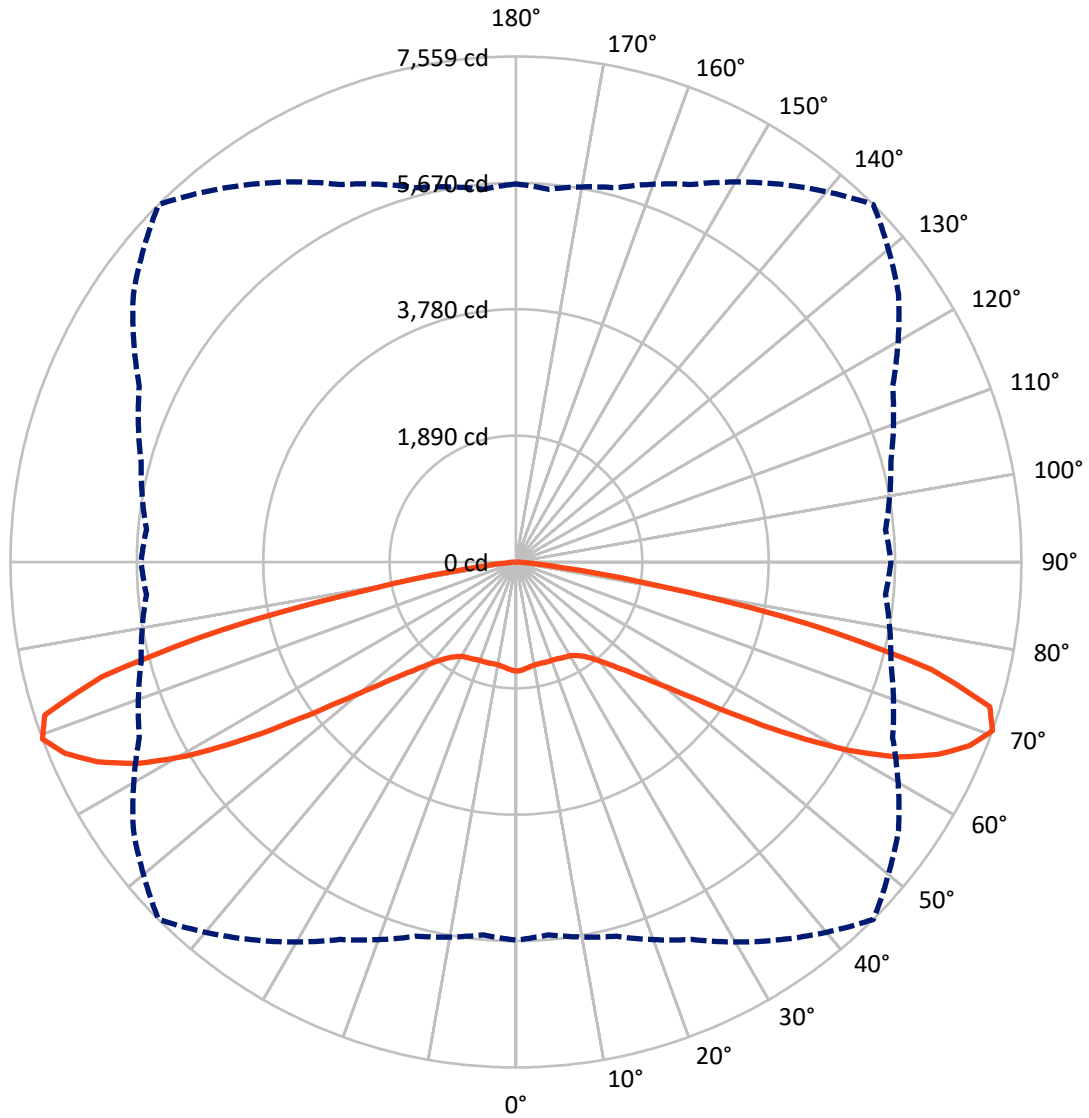
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type V - Short - N/A

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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	8950.0	0.0	8950.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8950.0	0.0	8950.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	17900.0	0.0	17900.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.9	0.8
10°-20°	446.0	2.5
20°-30°	742.2	4.1
30°-40°	1122.4	6.3
40°-50°	1865.2	10.4
50°-60°	3519.6	19.7
60°-70°	5943.0	33.2
70°-80°	3905.1	21.8
80°-90°	204.6	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°	17900.0	100.0
0°-180°	17900.0	100.0

Coefficient of Utilization



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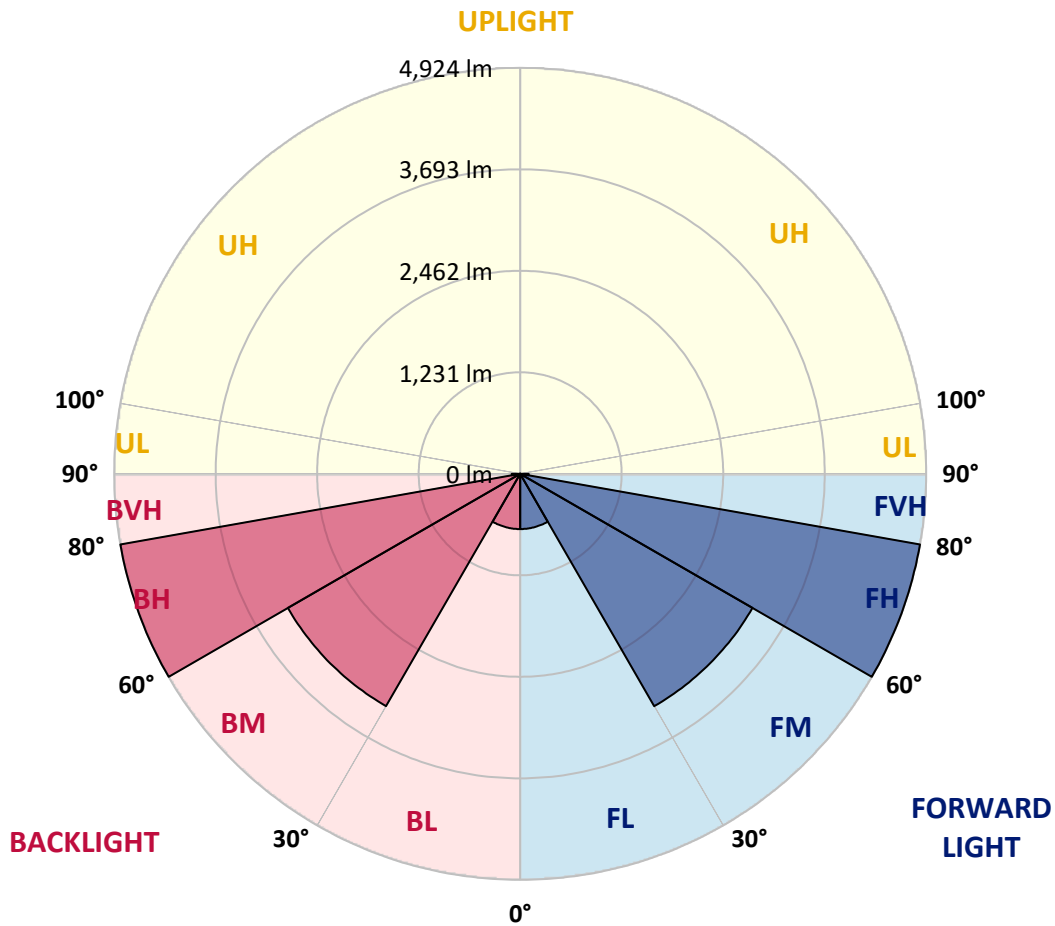
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	670.0	3.7			
FM (30°-60°)	3253.6	18.2			
FH (60°-80°)	4924.0	27.5			G2/5000
FVH (80°-90°)	102.3	0.6			G2/225
BL (0°-30°)	670.0	3.7	B2/1000		
BM (30°-60°)	3253.6	18.2	B3/5000		
BH (60°-80°)	4924.0	27.5	B4/5000		G2/5000
BVH (80°-90°)	102.3	0.6			G2/225
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°	1632.8	1632.8	1632.8	1632.8	1632.8	1632.8	1632.8	1632.8	1632.8	1632.8
2.5°	1622.6	1627.3	1625.4	1621.7	1621.7	1618.9	1621.7	1623.5	1626.3	1628.2
5°	1601.2	1604.9	1604.0	1601.2	1602.1	1599.3	1601.2	1604.0	1605.9	1606.8
7.5°	1582.6	1586.3	1584.5	1579.8	1579.8	1577.0	1577.9	1580.7	1583.5	1584.5
10°	1577.9	1581.7	1576.1	1568.6	1565.9	1562.1	1563.1	1565.9	1571.4	1574.2
12.5°	1579.8	1582.6	1577.0	1565.9	1563.1	1559.3	1559.3	1562.1	1569.6	1573.3
15°	1585.4	1588.2	1579.8	1567.7	1564.9	1562.1	1561.2	1564.9	1573.3	1579.8
17.5°	1595.6	1598.4	1585.4	1568.6	1564.9	1565.9	1564.9	1567.7	1580.7	1592.8
20°	1604.9	1606.8	1589.1	1568.6	1564.9	1565.9	1564.9	1570.5	1587.3	1604.0
22.5°	1607.7	1609.6	1592.8	1575.2	1572.4	1573.3	1572.4	1577.9	1593.8	1610.5
25°	1608.7	1611.4	1598.4	1584.5	1589.1	1591.0	1589.1	1590.0	1602.1	1617.0
27.5°	1622.6	1626.3	1614.2	1602.1	1604.9	1604.0	1606.8	1609.6	1618.9	1633.8
30°	1651.4	1654.2	1644.0	1631.9	1630.0	1623.5	1631.9	1641.2	1651.4	1664.5
32.5°	1698.9	1704.5	1691.5	1678.4	1670.1	1666.3	1672.8	1688.7	1702.6	1716.6
35°	1778.0	1781.7	1769.6	1745.4	1730.5	1730.5	1736.1	1756.6	1778.9	1796.6
37.5°	1889.6	1894.3	1872.9	1844.0	1821.7	1821.7	1829.2	1850.6	1884.0	1909.2
40°	2025.5	2032.0	2005.0	1975.2	1953.8	1950.1	1959.4	1983.6	2015.2	2046.9
42.5°	2189.2	2196.7	2161.3	2135.3	2118.5	2118.5	2123.2	2145.5	2174.3	2213.4
45°	2398.6	2411.6	2363.2	2337.1	2321.3	2325.1	2327.8	2347.4	2373.4	2418.1
47.5°	2647.9	2660.9	2609.8	2582.8	2580.0	2597.7	2586.5	2600.4	2614.4	2665.6
50°	2930.7	2953.1	2917.7	2915.9	2921.4	2954.0	2927.9	2935.4	2919.6	2952.1
52.5°	3276.8	3309.4	3302.9	3314.1	3376.4	3443.4	3383.8	3357.8	3298.2	3308.5
55°	3696.5	3745.8	3755.1	3822.1	3963.5	4100.2	3973.7	3868.6	3742.0	3718.8
57.5°	4173.7	4212.8	4257.5	4394.2	4658.5	4901.3	4658.5	4425.9	4226.8	4179.3
60°	4687.3	4735.7	4778.5	4980.4	5373.0	5714.5	5365.6	4996.2	4732.9	4668.7
62.5°	5239.0	5301.4	5331.2	5555.4	6013.1	6420.6	6019.6	5572.1	5280.0	5211.1
65°	5768.4	5819.6	5853.1	6092.2	6529.5	6937.9	6559.3	6118.3	5817.7	5727.5
67.5°	6015.0	6042.9	6124.8	6395.5	6857.0	7323.1	6935.2	6424.4	6088.5	5930.3
70°	5654.0	5597.2	5794.5	6228.1	6896.1	7559.4	6985.4	6215.0	5803.8	5547.0
72.5°	4369.1	4271.4	4613.8	5355.3	6449.5	7408.7	6494.1	5397.2	4826.9	4305.9
75°	2377.2	2266.4	2739.1	3676.9	5143.2	6421.6	5261.4	3782.0	3049.8	2359.5
77.5°	670.8	628.9	1010.4	1778.9	3093.6	4508.7	3212.6	1818.0	1198.3	710.8
80°	205.6	199.1	269.8	535.9	1313.7	2159.4	1262.5	542.4	343.3	216.8
82.5°	121.9	111.6	134.0	195.4	334.9	678.3	325.6	203.8	163.7	109.8
85°	69.8	65.1	79.1	94.9	112.6	144.2	94.0	96.8	87.5	58.6
87.5°	28.8	26.1	30.7	29.8	26.1	33.5	25.1	29.8	35.4	23.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
1632.8
1627.3
1606.8
1584.5
1574.2
1574.2
1580.7
1592.8
1604.9
1610.5
1616.1
1630.0
1661.7
1711.0
1790.1
1899.9
2036.6
2210.6
2416.2
2650.7
2932.6
3274.1
3682.5
4145.8
4612.9
5155.3
5682.8
5932.2
5608.4
4435.2
2513.0
789.9
228.9
119.1
61.4
21.4
0.0

OF REPORT)