

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: P939910

Luminaire Tested: **GALN-SB2D-727-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939910
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-727-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 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: 19093 lumens
Efficiency: N/A
Efficacy: 129.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

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

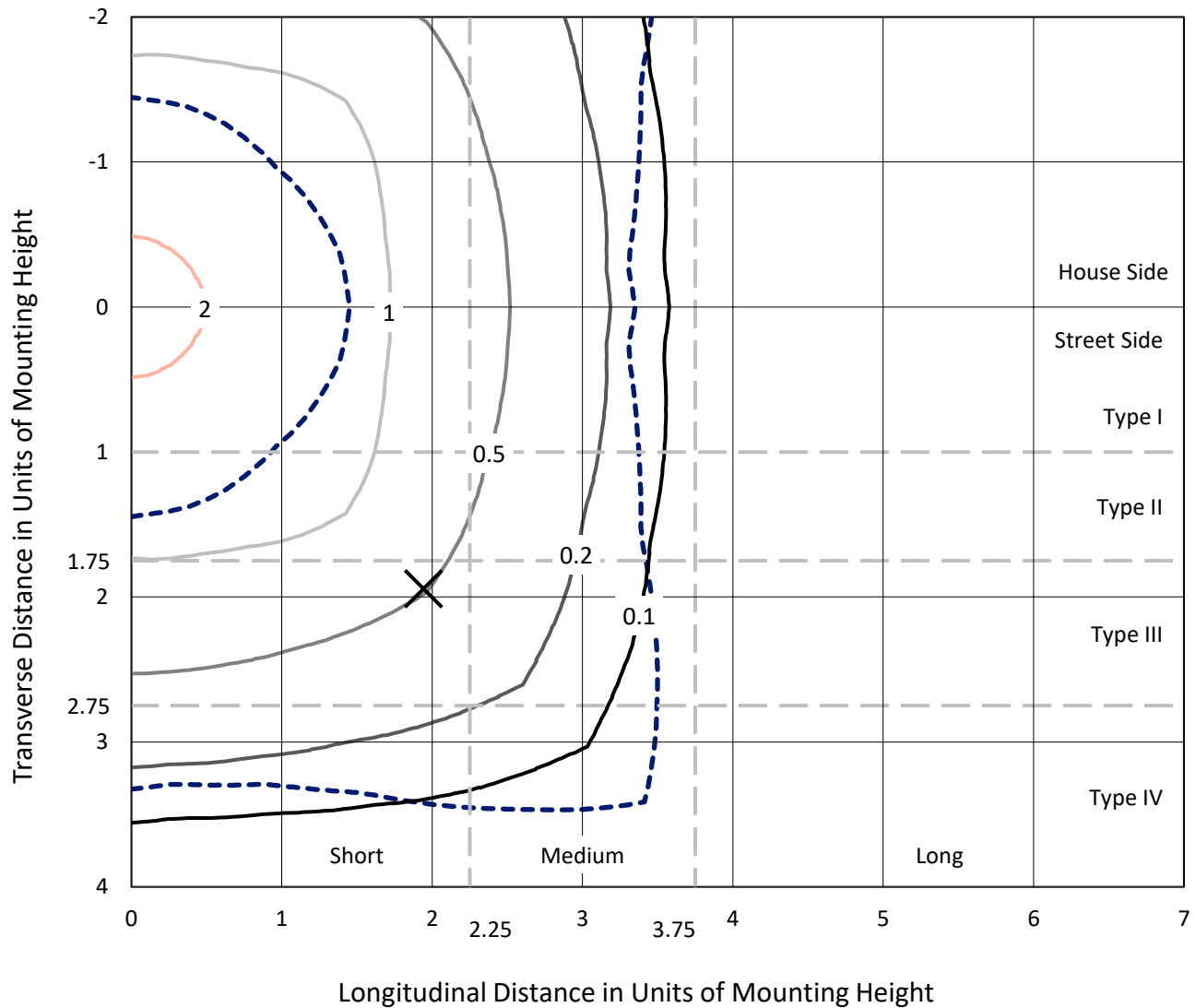


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

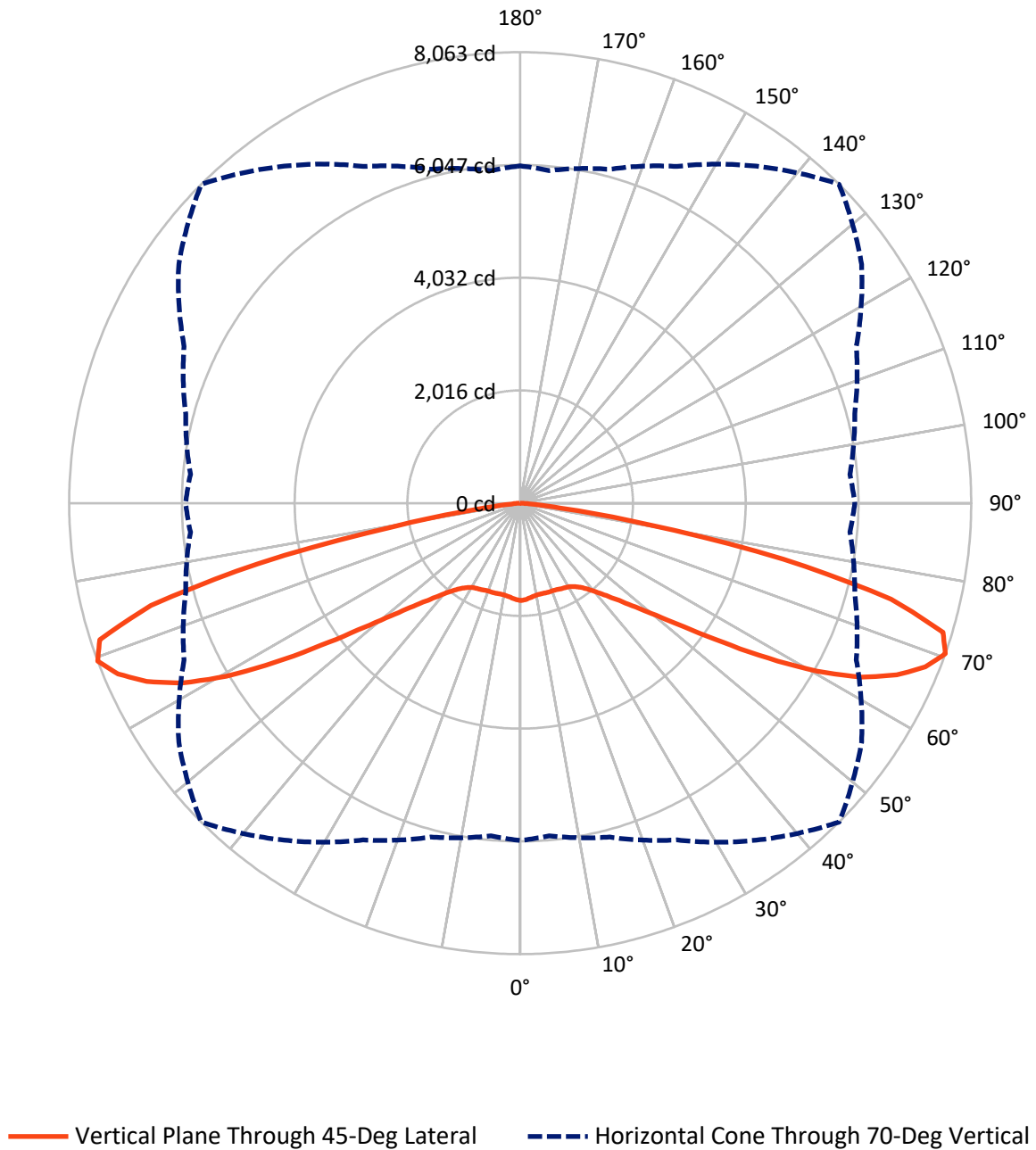


Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9546.5	0.0	9546.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9546.5	0.0	9546.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	19093.0	0.0	19093.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.0	0.8
10°-20°	475.7	2.5
20°-30°	791.7	4.1
30°-40°	1197.2	6.3
40°-50°	1989.5	10.4
50°-60°	3754.2	19.7
60°-70°	6339.0	33.2
70°-80°	4165.4	21.8
80°-90°	218.2	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°	19093.0	100.0
0°-180°	19093.0	100.0

Coefficient of Utilization



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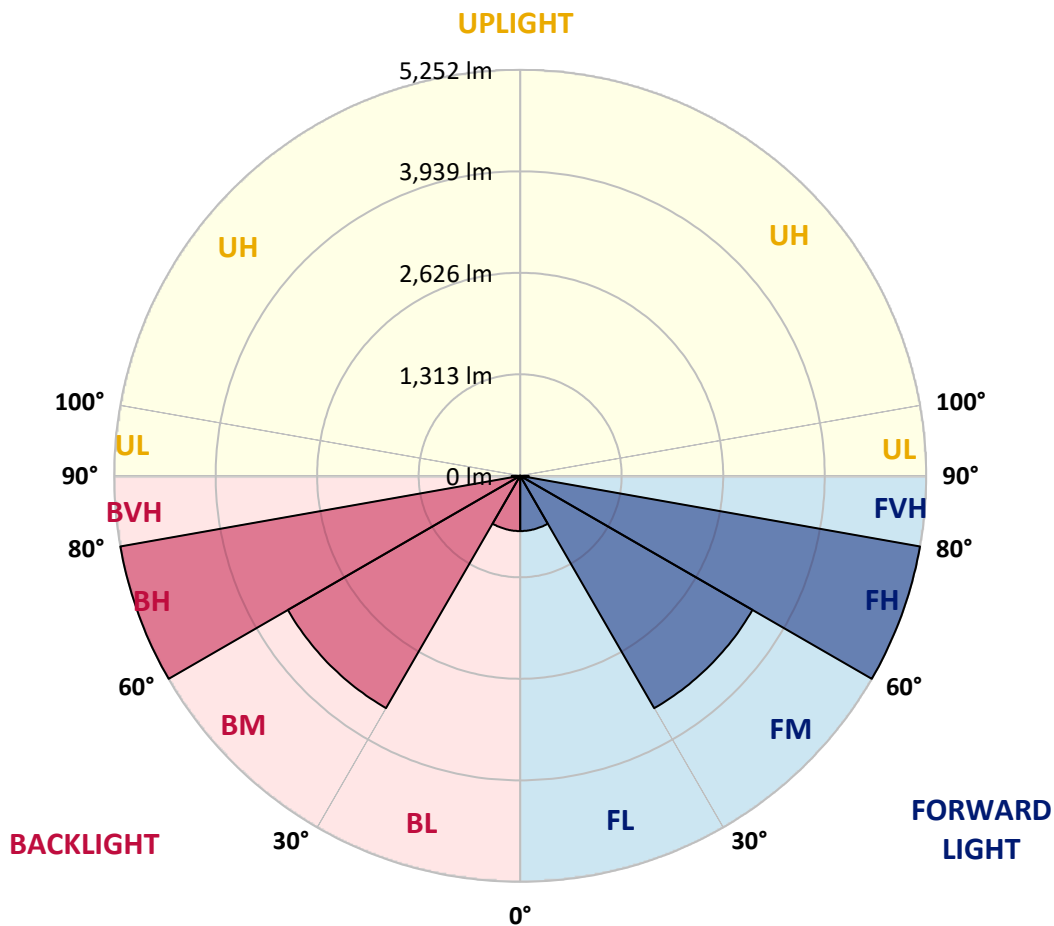
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	714.7	3.7			
FM	(30°-60°)	3470.5	18.2			
FH	(60°-80°)	5252.2	27.5			G3/7500
FVH	(80°-90°)	109.1	0.6			G2/225
BL	(0°-30°)	714.7	3.7	B2/1000		
BM	(30°-60°)	3470.5	18.2	B3/5000		
BH	(60°-80°)	5252.2	27.5	B5		G3/7500
BVH	(80°-90°)	109.1	0.6			G2/225
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°	90°
0°	1741.7	1741.7	1741.7	1741.7	1741.7	1741.7	1741.7	1741.7	1741.7	1741.7	1741.7
2.5°	1730.7	1735.7	1733.7	1729.8	1729.8	1726.8	1729.8	1731.7	1734.7	1736.7	1735.7
5°	1707.9	1711.9	1710.9	1707.9	1708.9	1705.9	1707.9	1710.9	1712.9	1713.9	1713.9
7.5°	1688.1	1692.0	1690.1	1685.1	1685.1	1682.1	1683.1	1686.1	1689.1	1690.1	1690.1
10°	1683.1	1687.1	1681.1	1673.2	1670.2	1666.2	1667.2	1670.2	1676.2	1679.1	1679.1
12.5°	1685.1	1688.1	1682.1	1670.2	1667.2	1663.3	1663.3	1666.2	1674.2	1678.2	1679.1
15°	1691.1	1694.0	1685.1	1672.2	1669.2	1666.2	1665.3	1669.2	1678.2	1685.1	1686.1
17.5°	1702.0	1704.9	1691.1	1673.2	1669.2	1670.2	1669.2	1672.2	1686.1	1699.0	1699.0
20°	1711.9	1713.9	1695.0	1673.2	1669.2	1670.2	1669.2	1675.2	1693.0	1710.9	1711.9
22.5°	1714.9	1716.9	1699.0	1680.1	1677.2	1678.2	1677.2	1683.1	1700.0	1717.8	1717.8
25°	1715.9	1718.8	1704.9	1690.1	1695.0	1697.0	1695.0	1696.0	1708.9	1724.8	1723.8
27.5°	1730.7	1734.7	1721.8	1708.9	1711.9	1710.9	1713.9	1716.9	1726.8	1742.7	1738.7
30°	1761.5	1764.5	1753.6	1740.7	1738.7	1731.7	1740.7	1750.6	1761.5	1775.4	1772.4
32.5°	1812.1	1818.1	1804.2	1790.3	1781.4	1777.4	1784.3	1801.2	1816.1	1831.0	1825.0
35°	1896.5	1900.5	1887.5	1861.7	1845.9	1845.9	1851.8	1873.7	1897.5	1916.3	1909.4
37.5°	2015.6	2020.5	1997.7	1966.9	1943.1	1943.1	1951.1	1973.9	2009.6	2036.4	2026.5
40°	2160.5	2167.4	2138.6	2106.9	2084.0	2080.1	2090.0	2115.8	2149.5	2183.3	2172.4
42.5°	2335.1	2343.1	2305.4	2277.6	2259.7	2259.7	2264.7	2288.5	2319.2	2360.9	2357.9
45°	2558.4	2572.3	2520.7	2492.9	2476.0	2480.0	2483.0	2503.8	2531.6	2579.3	2577.3
47.5°	2824.4	2838.3	2783.7	2754.9	2751.9	2770.8	2758.9	2773.8	2788.7	2843.2	2827.4
50°	3126.1	3149.9	3112.2	3110.2	3116.1	3150.9	3123.1	3131.0	3114.2	3148.9	3128.1
52.5°	3495.2	3530.0	3523.0	3534.9	3601.4	3672.9	3609.4	3581.6	3518.1	3529.0	3492.3
55°	3942.8	3995.4	4005.3	4076.8	4227.6	4373.5	4238.6	4126.4	3991.4	3966.6	3927.9
57.5°	4451.9	4493.6	4541.2	4687.1	4969.0	5228.0	4969.0	4720.9	4508.5	4457.9	4422.1
60°	4999.7	5051.3	5097.0	5312.3	5731.1	6095.3	5723.2	5329.2	5048.4	4979.9	4920.3
62.5°	5588.2	5654.7	5686.5	5925.6	6413.9	6848.6	6420.8	5943.5	5631.9	5558.4	5498.9
65°	6152.9	6207.5	6243.2	6498.3	6964.7	7400.3	6996.4	6526.0	6205.5	6109.2	6061.6
67.5°	6415.9	6445.7	6533.0	6821.8	7314.0	7811.2	7397.4	6852.5	6494.3	6325.6	6327.6
70°	6030.8	5970.3	6180.7	6643.1	7355.7	8063.3	7451.0	6629.2	6190.6	5916.7	5982.2
72.5°	4660.3	4556.1	4921.3	5712.3	6879.3	7902.5	6927.0	5756.9	5148.6	4592.8	4730.8
75°	2535.6	2417.5	2921.6	3922.0	5486.0	6849.6	5612.0	4034.1	3253.1	2516.7	2680.5
77.5°	715.5	670.9	1077.7	1897.5	3299.7	4809.2	3426.8	1939.2	1278.2	758.2	842.5
80°	219.3	212.4	287.8	571.6	1401.3	2303.4	1346.7	578.6	366.2	231.2	244.1
82.5°	130.0	119.1	142.9	208.4	357.3	723.5	347.3	217.3	174.7	117.1	127.0
85°	74.4	69.5	84.4	101.2	120.1	153.8	100.2	103.2	93.3	62.5	65.5
87.5°	30.8	27.8	32.7	31.8	27.8	35.7	26.8	31.8	37.7	24.8	22.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)