

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: P940010

Luminaire Tested: **GALN-SB2D-850-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940010
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-850-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19689 lumens
Efficiency: N/A
Efficacy: 133.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

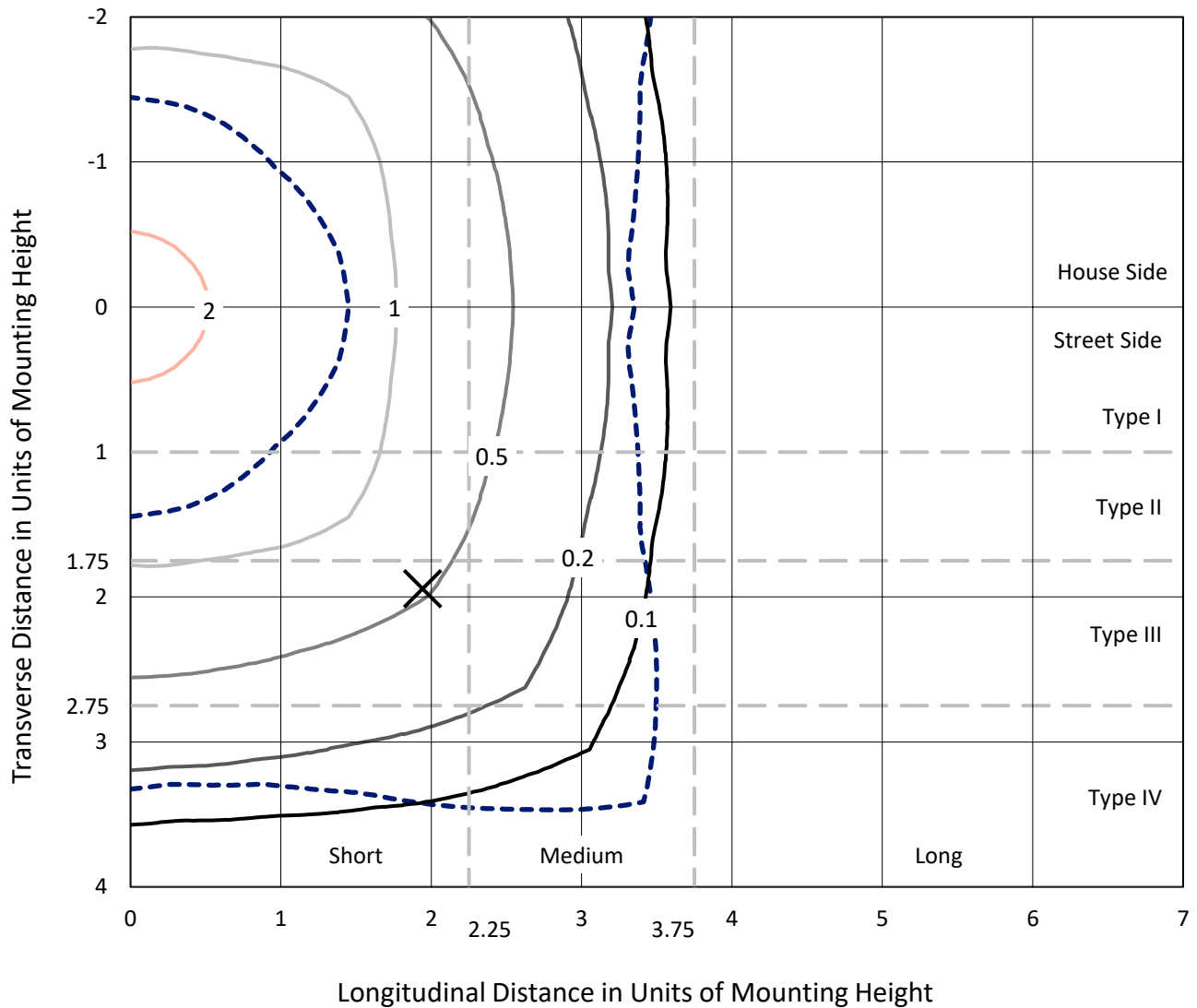
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

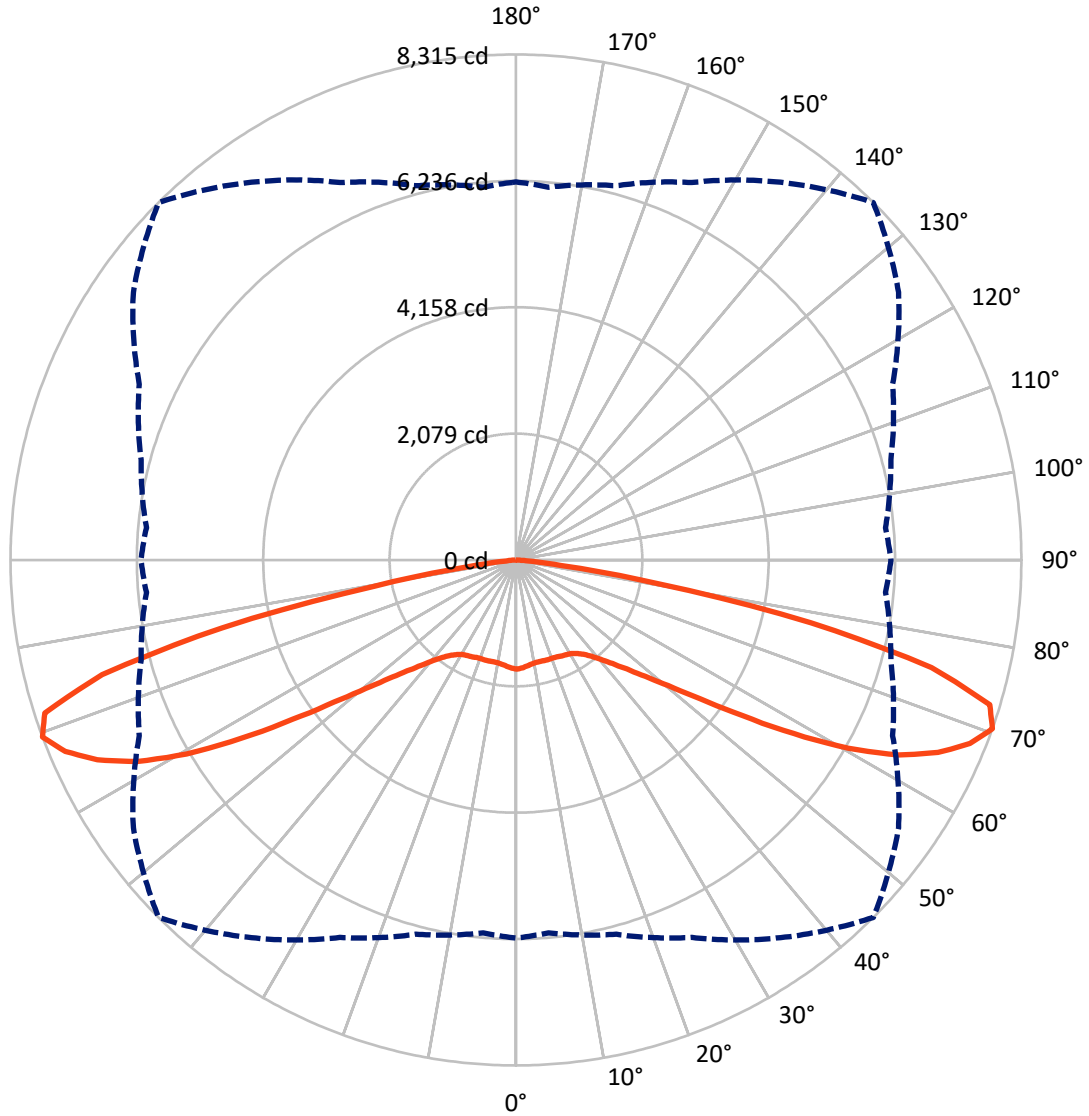
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 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	9844.5	0.0	9844.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9844.5	0.0	9844.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	19689.0	0.0	19689.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.1	0.8
10°-20°	490.6	2.5
20°-30°	816.4	4.1
30°-40°	1234.6	6.3
40°-50°	2051.6	10.4
50°-60°	3871.3	19.7
60°-70°	6536.9	33.2
70°-80°	4295.4	21.8
80°-90°	225.0	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°	19689.0	100.0
0°-180°	19689.0	100.0

Coefficient of Utilization



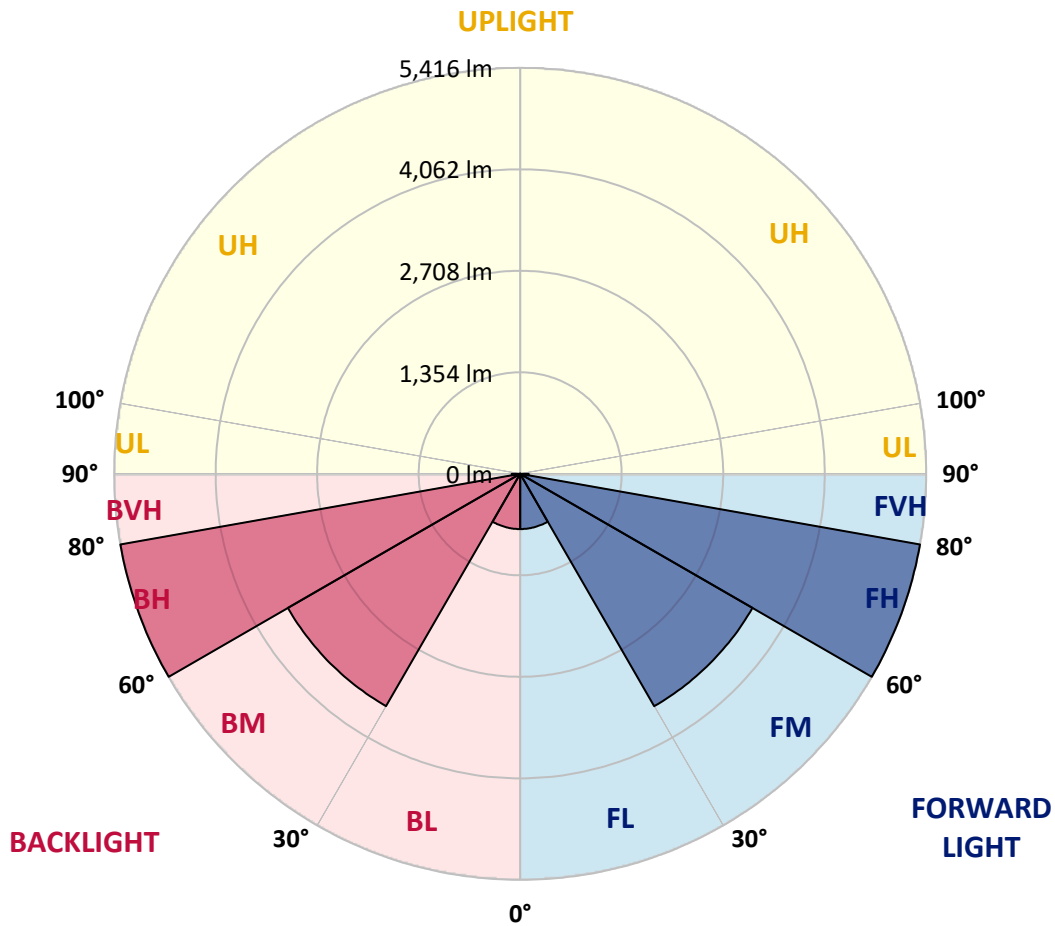
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	737.0	3.7			
FM (30°-60°)	3578.8	18.2			
FH (60°-80°)	5416.2	27.5			G3/7500
FVH (80°-90°)	112.5	0.6			G2/225
BL (0°-30°)	737.0	3.7	B2/1000		
BM (30°-60°)	3578.8	18.2	B3/5000		
BH (60°-80°)	5416.2	27.5	B5		G3/7500
BVH (80°-90°)	112.5	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°
0°	1796.0	1796.0	1796.0	1796.0	1796.0	1796.0	1796.0	1796.0	1796.0	1796.0
2.5°	1784.8	1789.9	1787.8	1783.8	1783.8	1780.7	1783.8	1785.8	1788.9	1790.9
5°	1761.2	1765.3	1764.3	1761.2	1762.3	1759.2	1761.2	1764.3	1766.4	1767.4
7.5°	1740.8	1744.9	1742.8	1737.7	1737.7	1734.6	1735.7	1738.7	1741.8	1742.8
10°	1735.7	1739.7	1733.6	1725.4	1722.3	1718.3	1719.3	1722.3	1728.5	1731.6
12.5°	1737.7	1740.8	1734.6	1722.3	1719.3	1715.2	1715.2	1718.3	1726.4	1730.5
15°	1743.8	1746.9	1737.7	1724.4	1721.3	1718.3	1717.2	1721.3	1730.5	1737.7
17.5°	1755.1	1758.2	1743.8	1725.4	1721.3	1722.3	1721.3	1724.4	1738.7	1752.0
20°	1765.3	1767.4	1747.9	1725.4	1721.3	1722.3	1721.3	1727.5	1745.9	1764.3
22.5°	1768.4	1770.4	1752.0	1732.6	1729.5	1730.5	1729.5	1735.7	1753.1	1771.5
25°	1769.4	1772.5	1758.2	1742.8	1747.9	1750.0	1747.9	1749.0	1762.3	1778.6
27.5°	1784.8	1788.9	1775.6	1762.3	1765.3	1764.3	1767.4	1770.4	1780.7	1797.1
30°	1816.5	1819.6	1808.3	1795.0	1793.0	1785.8	1795.0	1805.2	1816.5	1830.8
32.5°	1868.7	1874.8	1860.5	1846.2	1837.0	1832.9	1840.0	1857.4	1872.8	1888.1
35°	1955.7	1959.8	1946.5	1919.9	1903.5	1903.5	1909.6	1932.1	1956.7	1976.1
37.5°	2078.5	2083.6	2060.1	2028.3	2003.8	2003.8	2012.0	2035.5	2072.3	2100.0
40°	2227.9	2235.1	2205.4	2172.6	2149.1	2145.0	2155.2	2181.8	2216.6	2251.4
42.5°	2408.0	2416.2	2377.3	2348.7	2330.2	2330.2	2335.4	2359.9	2391.6	2434.6
45°	2638.3	2652.6	2599.4	2570.7	2553.3	2557.4	2560.5	2582.0	2610.6	2659.8
47.5°	2912.5	2926.9	2870.6	2840.9	2837.8	2857.3	2845.0	2860.3	2875.7	2932.0
50°	3223.6	3248.2	3209.3	3207.3	3213.4	3249.2	3220.6	3228.8	3211.4	3247.2
52.5°	3604.3	3640.2	3633.0	3645.3	3713.8	3787.5	3722.0	3693.4	3627.9	3639.1
55°	4065.9	4120.1	4130.4	4204.0	4359.6	4510.0	4370.9	4255.2	4116.0	4090.5
57.5°	4590.9	4633.9	4683.0	4833.4	5124.1	5391.2	5124.1	4868.2	4649.2	4597.0
60°	5155.8	5209.0	5256.1	5478.2	5910.0	6285.6	5901.8	5495.6	5205.9	5135.3
62.5°	5762.7	5831.2	5864.0	6110.6	6614.1	7062.4	6621.3	6129.0	5807.7	5732.0
65°	6345.0	6401.2	6438.1	6701.1	7182.1	7631.4	7214.8	6729.8	6399.2	6299.9
67.5°	6616.2	6646.9	6736.9	7034.7	7542.3	8055.0	7628.3	7066.4	6697.0	6523.0
70°	6219.1	6156.7	6373.6	6850.5	7585.3	8315.0	7683.5	6836.2	6383.8	6101.4
72.5°	4805.8	4698.3	5074.9	5890.6	7094.1	8149.2	7143.2	5936.6	5309.3	4736.2
75°	2614.7	2493.0	3012.8	4044.4	5657.2	7063.4	5787.2	4160.0	3354.6	2595.3
77.5°	737.9	691.8	1111.4	1956.7	3402.7	4959.3	3533.7	1999.7	1318.1	781.9
80°	226.2	219.0	296.8	589.5	1445.0	2375.3	1388.7	596.6	377.6	238.4
82.5°	134.1	122.8	147.4	214.9	368.4	746.0	358.2	224.1	180.1	120.8
85°	76.8	71.6	87.0	104.4	123.8	158.6	103.4	106.4	96.2	64.5
87.5°	31.7	28.7	33.8	32.7	28.7	36.8	27.6	32.7	38.9	25.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
1796.0
1789.9
1767.4
1742.8
1731.6
1731.6
1738.7
1752.0
1765.3
1771.5
1777.6
1793.0
1827.8
1882.0
1969.0
2089.7
2240.2
2431.6
2657.7
2915.6
3225.7
3601.3
4050.5
4560.2
5073.9
5670.6
6250.8
6525.1
6168.9
4878.5
2764.2
868.9
251.8
131.0
67.5
23.5
0.0

OF REPORT)