

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: P941510

Luminaire Tested: **GALN-SB5A-830-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941510
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-SB5A-830-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20595 lumens
Efficiency: N/A
Efficacy: 145.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

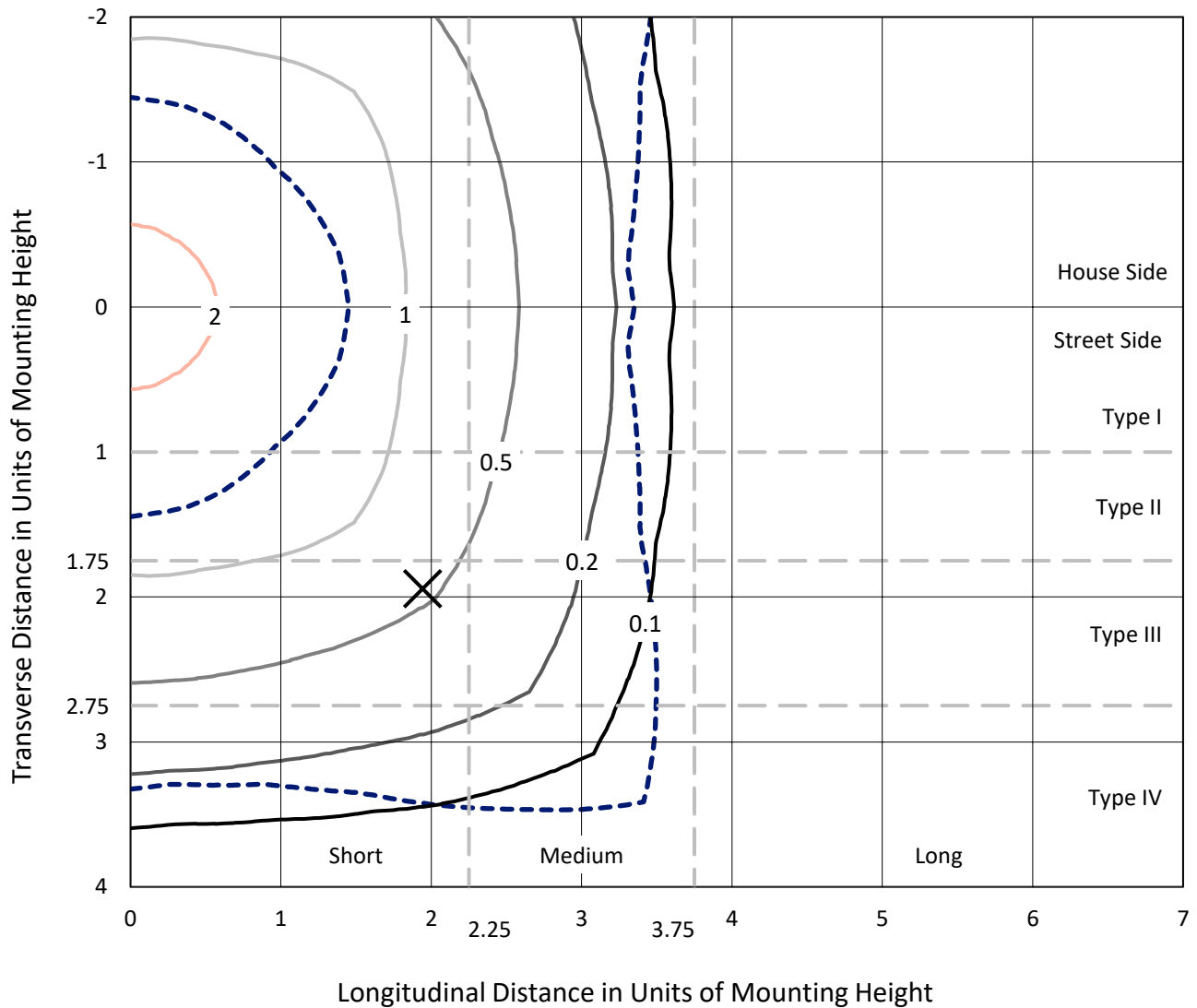
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

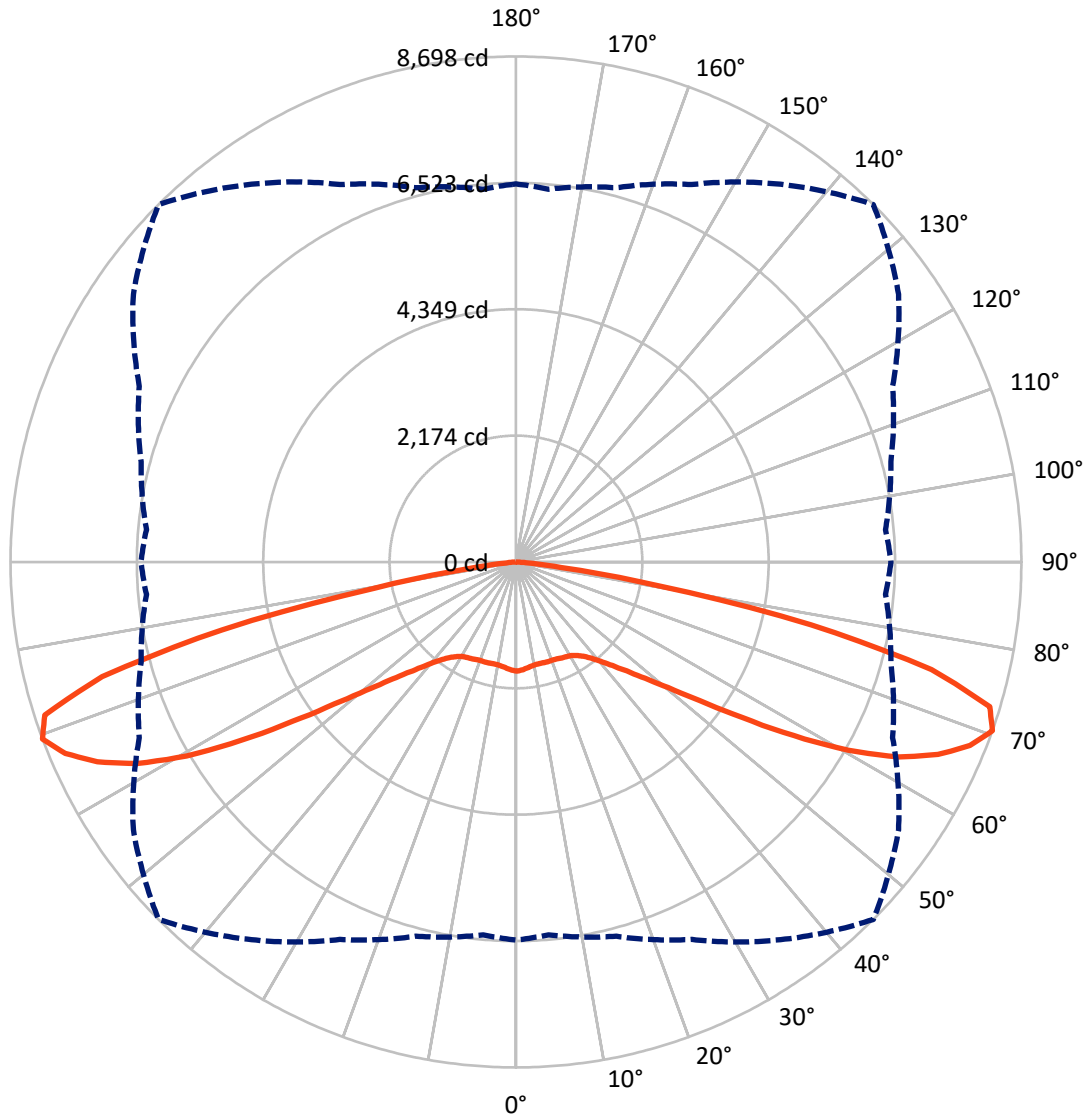
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 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	10297.5	0.0	10297.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10297.5	0.0	10297.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	20595.0	0.0	20595.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.8	0.8
10°-20°	513.1	2.5
20°-30°	853.9	4.1
30°-40°	1291.4	6.3
40°-50°	2146.0	10.4
50°-60°	4049.5	19.7
60°-70°	6837.7	33.2
70°-80°	4493.1	21.8
80°-90°	235.4	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°	20595.0	100.0
0°-180°	20595.0	100.0



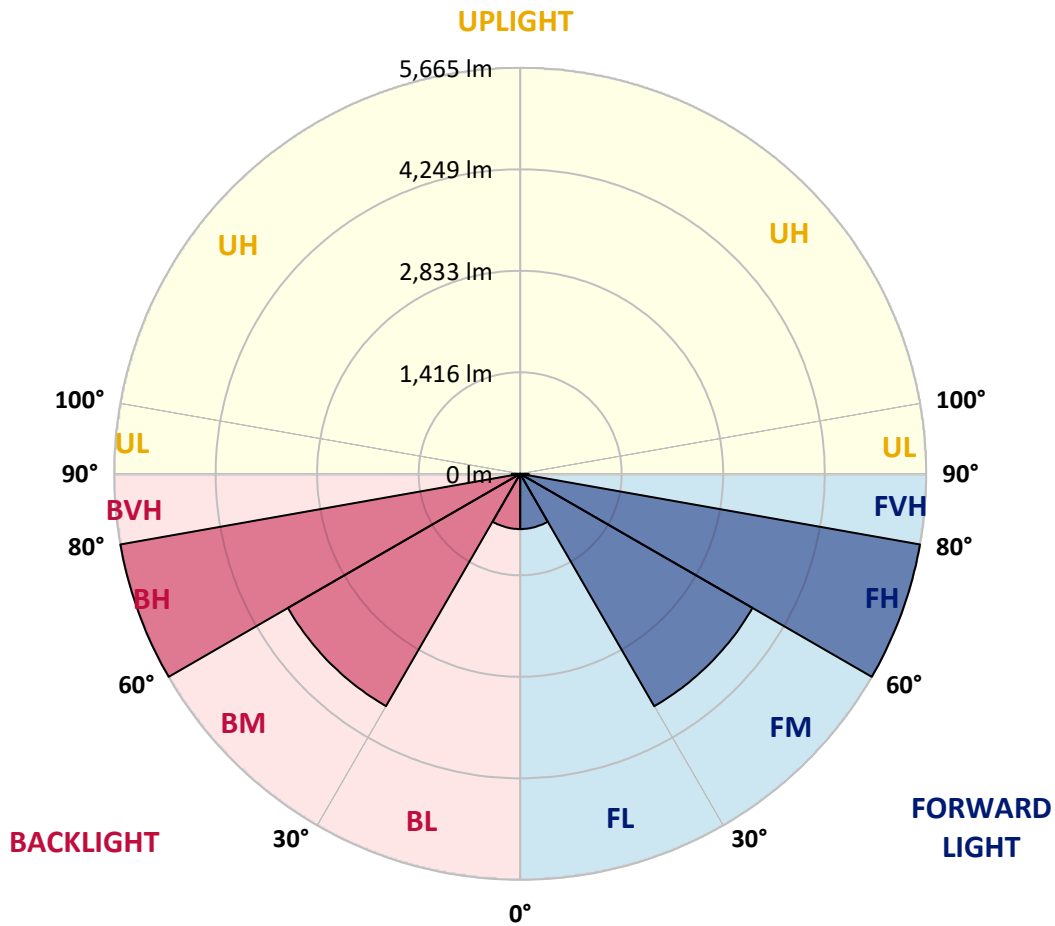
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	770.9	3.7			
FM (30°-60°)	3743.5	18.2			
FH (60°-80°)	5665.4	27.5			G3/7500
FVH (80°-90°)	117.7	0.6			G2/225
BL (0°-30°)	770.9	3.7	B2/1000		
BM (30°-60°)	3743.5	18.2	B3/5000		
BH (60°-80°)	5665.4	27.5	B5		G3/7500
BVH (80°-90°)	117.7	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°	1878.7	1878.7	1878.7	1878.7	1878.7	1878.7	1878.7	1878.7	1878.7	1878.7
2.5°	1866.9	1872.3	1870.1	1865.8	1865.8	1862.6	1865.8	1868.0	1871.2	1873.3
5°	1842.3	1846.6	1845.5	1842.3	1843.4	1840.1	1842.3	1845.5	1847.6	1848.7
7.5°	1820.9	1825.2	1823.0	1817.7	1817.7	1814.5	1815.5	1818.7	1821.9	1823.0
10°	1815.5	1819.8	1813.4	1804.8	1801.6	1797.3	1798.4	1801.6	1808.0	1811.2
12.5°	1817.7	1820.9	1814.5	1801.6	1798.4	1794.1	1794.1	1797.3	1805.9	1810.2
15°	1824.1	1827.3	1817.7	1803.7	1800.5	1797.3	1796.3	1800.5	1810.2	1817.7
17.5°	1835.9	1839.1	1824.1	1804.8	1800.5	1801.6	1800.5	1803.7	1818.7	1832.6
20°	1846.6	1848.7	1828.4	1804.8	1800.5	1801.6	1800.5	1807.0	1826.2	1845.5
22.5°	1849.8	1851.9	1832.6	1812.3	1809.1	1810.2	1809.1	1815.5	1833.7	1853.0
25°	1850.8	1854.1	1839.1	1823.0	1828.4	1830.5	1828.4	1829.4	1843.4	1860.5
27.5°	1866.9	1871.2	1857.3	1843.4	1846.6	1845.5	1848.7	1851.9	1862.6	1879.7
30°	1900.1	1903.3	1891.5	1877.6	1875.5	1868.0	1877.6	1888.3	1900.1	1915.1
32.5°	1954.7	1961.1	1946.1	1931.1	1921.5	1917.2	1924.7	1942.9	1959.0	1975.0
35°	2045.7	2050.0	2036.0	2008.2	1991.1	1991.1	1997.5	2021.1	2046.7	2067.1
37.5°	2174.1	2179.5	2154.9	2121.7	2096.0	2096.0	2104.5	2129.2	2167.7	2196.6
40°	2330.4	2337.9	2306.9	2272.6	2248.0	2243.7	2254.4	2282.2	2318.6	2355.0
42.5°	2518.8	2527.4	2486.7	2456.7	2437.5	2437.5	2442.8	2468.5	2501.7	2546.7
45°	2759.7	2774.7	2719.0	2689.0	2670.8	2675.1	2678.3	2700.8	2730.8	2782.2
47.5°	3046.6	3061.6	3002.7	2971.6	2968.4	2988.8	2975.9	2992.0	3008.0	3066.9
50°	3372.0	3397.7	3357.0	3354.9	3361.3	3398.7	3368.8	3377.3	3359.1	3396.6
52.5°	3770.2	3807.7	3800.2	3813.0	3884.7	3961.8	3893.3	3863.3	3794.8	3806.6
55°	4253.0	4309.7	4320.4	4397.5	4560.2	4717.6	4572.0	4451.0	4305.4	4278.7
57.5°	4802.1	4847.1	4898.5	5055.8	5359.9	5639.2	5359.9	5092.2	4863.2	4808.6
60°	5393.0	5448.7	5497.9	5730.2	6182.0	6574.8	6173.4	5748.4	5445.5	5371.6
62.5°	6027.8	6099.6	6133.8	6391.8	6918.5	7387.3	6926.0	6411.1	6074.9	5995.7
65°	6636.9	6695.8	6734.3	7009.5	7512.6	7982.5	7546.8	7039.4	6693.7	6589.8
67.5°	6920.6	6952.7	7046.9	7358.4	7889.4	8425.7	7979.3	7391.6	7005.2	6823.2
70°	6505.3	6440.0	6666.9	7165.7	7934.3	8697.6	8037.1	7150.8	6677.6	6382.2
72.5°	5026.9	4914.5	5308.5	6161.6	7420.5	8524.2	7471.9	6209.8	5553.6	4954.1
75°	2735.1	2607.7	3151.5	4230.5	5917.6	7388.4	6053.5	4351.5	3509.0	2714.7
77.5°	771.8	723.6	1162.5	2046.7	3559.3	5187.5	3696.3	2091.7	1378.8	817.8
80°	236.6	229.1	310.4	616.6	1511.5	2484.6	1452.6	624.1	395.0	249.4
82.5°	140.2	128.5	154.1	224.8	385.4	780.4	374.7	234.4	188.4	126.3
85°	80.3	74.9	91.0	109.2	129.5	165.9	108.1	111.3	100.6	67.4
87.5°	33.2	30.0	35.3	34.3	30.0	38.5	28.9	34.3	40.7	26.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
1878.7
1872.3
1848.7
1823.0
1811.2
1811.2
1818.7
1832.6
1846.6
1853.0
1859.4
1875.5
1911.9
1968.6
2059.6
2185.9
2343.3
2543.4
2780.0
3049.8
3374.1
3767.0
4236.9
4770.0
5307.4
5931.5
6538.4
6825.3
6452.8
5102.9
2891.3
908.8
263.3
137.0
70.7
24.6
0.0

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