

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: P939980

Luminaire Tested: **GALN-SB2D-830-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939980
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-830-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18496 lumens
Efficiency: N/A
Efficacy: 125.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

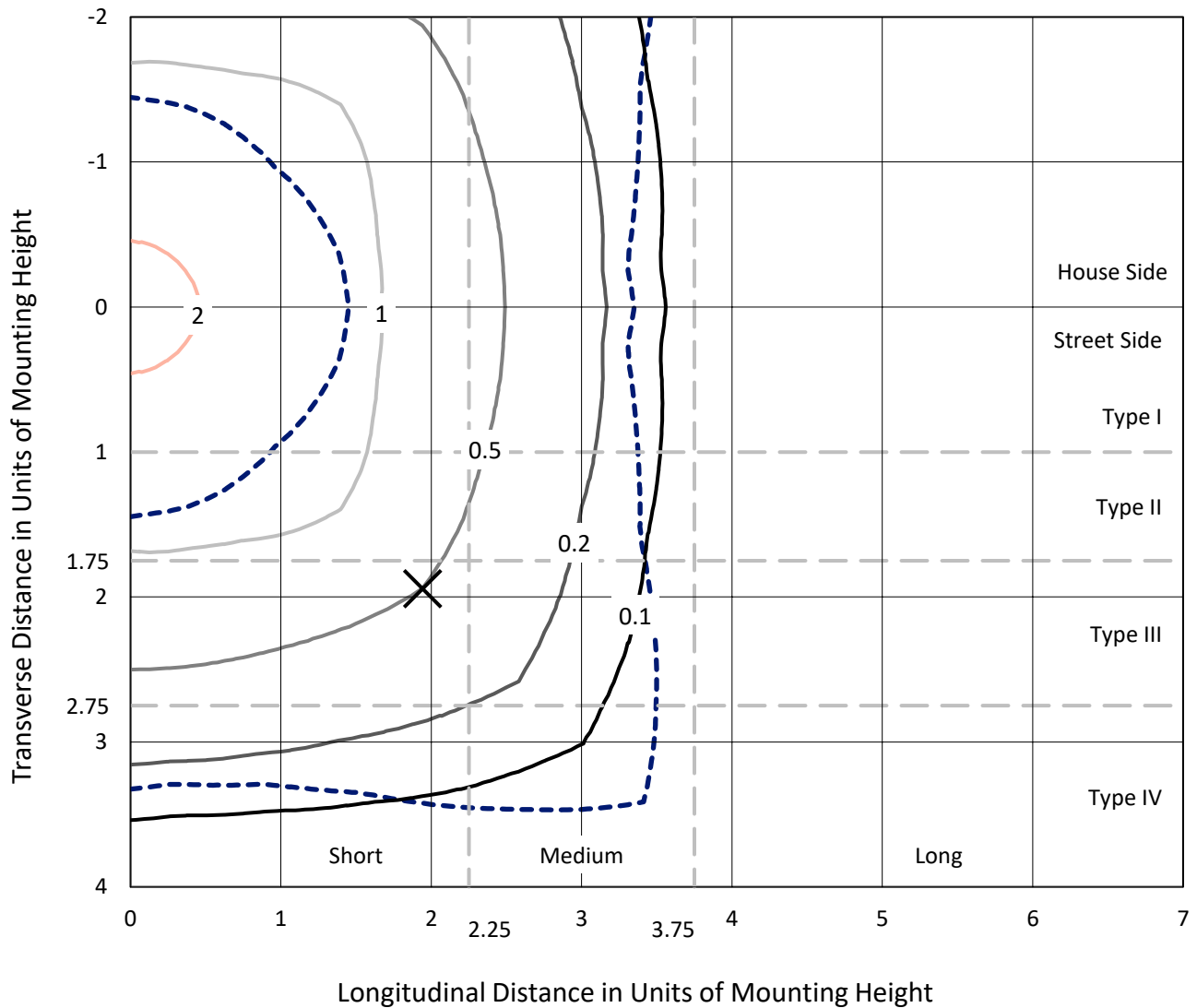
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

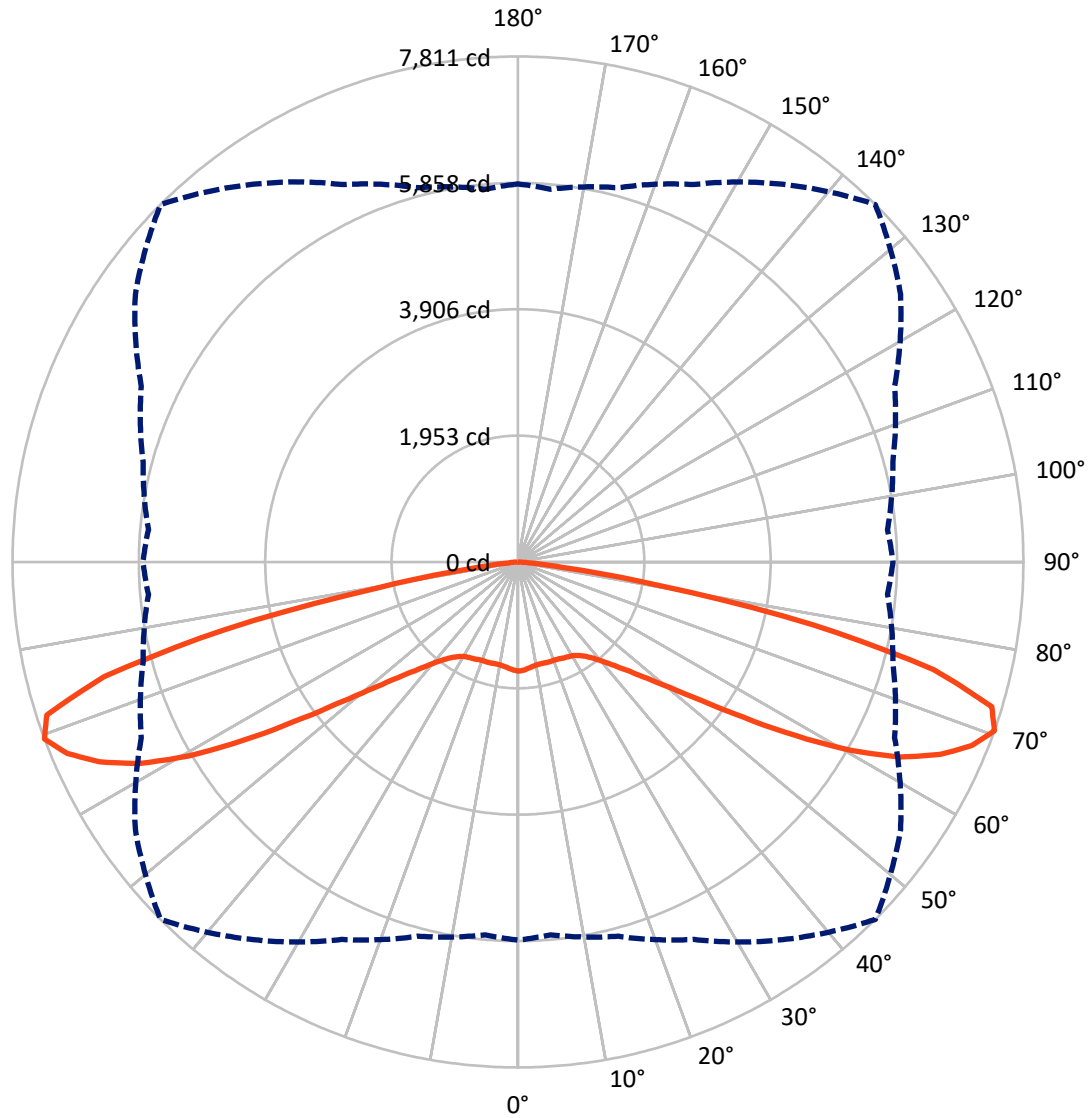
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 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	9248.0	0.0	9248.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9248.0	0.0	9248.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	18496.0	0.0	18496.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.0	0.8
10°-20°	460.8	2.5
20°-30°	766.9	4.1
30°-40°	1159.8	6.3
40°-50°	1927.3	10.4
50°-60°	3636.8	19.7
60°-70°	6140.8	33.2
70°-80°	4035.2	21.8
80°-90°	211.4	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°	18496.0	100.0
0°-180°	18496.0	100.0

Coefficient of Utilization



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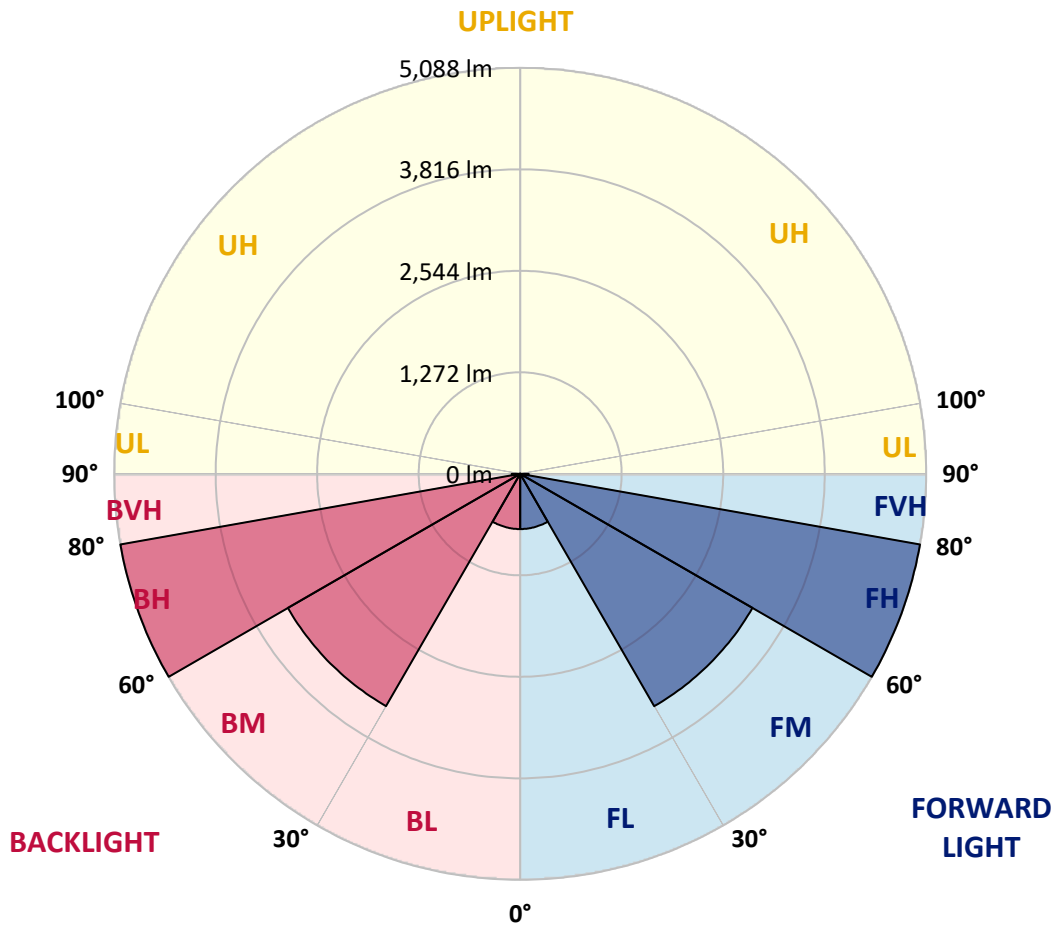
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	692.4	3.7			
FM (30°-60°)	3361.9	18.2			
FH (60°-80°)	5088.0	27.5			G3/7500
FVH (80°-90°)	105.7	0.6			G2/225
BL (0°-30°)	692.4	3.7	B2/1000		
BM (30°-60°)	3361.9	18.2	B3/5000		
BH (60°-80°)	5088.0	27.5	B5		G3/7500
BVH (80°-90°)	105.7	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°	1687.2	1687.2	1687.2	1687.2	1687.2	1687.2	1687.2	1687.2	1687.2	1687.2
2.5°	1676.6	1681.4	1679.5	1675.7	1675.7	1672.8	1675.7	1677.6	1680.5	1682.4
5°	1654.5	1658.4	1657.4	1654.5	1655.5	1652.6	1654.5	1657.4	1659.3	1660.3
7.5°	1635.3	1639.1	1637.2	1632.4	1632.4	1629.5	1630.5	1633.4	1636.3	1637.2
10°	1630.5	1634.3	1628.6	1620.9	1618.0	1614.1	1615.1	1618.0	1623.8	1626.6
12.5°	1632.4	1635.3	1629.5	1618.0	1615.1	1611.3	1611.3	1614.1	1621.8	1625.7
15°	1638.2	1641.1	1632.4	1619.9	1617.0	1614.1	1613.2	1617.0	1625.7	1632.4
17.5°	1648.8	1651.6	1638.2	1620.9	1617.0	1618.0	1617.0	1619.9	1633.4	1645.9
20°	1658.4	1660.3	1642.0	1620.9	1617.0	1618.0	1617.0	1622.8	1640.1	1657.4
22.5°	1661.3	1663.2	1645.9	1627.6	1624.7	1625.7	1624.7	1630.5	1646.8	1664.1
25°	1662.2	1665.1	1651.6	1637.2	1642.0	1643.9	1642.0	1643.0	1655.5	1670.9
27.5°	1676.6	1680.5	1668.0	1655.5	1658.4	1657.4	1660.3	1663.2	1672.8	1688.2
30°	1706.4	1709.3	1698.7	1686.2	1684.3	1677.6	1686.2	1695.9	1706.4	1719.9
32.5°	1755.5	1761.2	1747.8	1734.3	1725.7	1721.8	1728.5	1744.9	1759.3	1773.7
35°	1837.2	1841.0	1828.5	1803.5	1788.2	1788.2	1793.9	1815.1	1838.1	1856.4
37.5°	1952.5	1957.4	1935.2	1905.4	1882.4	1882.4	1890.1	1912.2	1946.8	1972.7
40°	2092.9	2099.6	2071.8	2041.0	2018.9	2015.0	2024.6	2049.6	2082.3	2115.0
42.5°	2262.1	2269.8	2233.3	2206.3	2189.0	2189.0	2193.9	2216.9	2246.7	2287.1
45°	2478.4	2491.9	2441.9	2415.0	2398.6	2402.5	2405.4	2425.5	2452.5	2498.6
47.5°	2736.1	2749.5	2696.6	2668.8	2665.9	2684.2	2672.6	2687.0	2701.5	2754.3
50°	3028.3	3051.4	3014.9	3012.9	3018.7	3052.4	3025.4	3033.1	3016.8	3050.4
52.5°	3386.0	3419.6	3412.9	3424.4	3488.8	3558.0	3496.5	3469.6	3408.1	3418.6
55°	3819.5	3870.5	3880.1	3949.3	4095.4	4236.8	4106.0	3997.4	3866.6	3842.6
57.5°	4312.7	4353.1	4399.2	4540.6	4813.6	5064.5	4813.6	4573.2	4367.5	4318.5
60°	4843.4	4893.4	4937.6	5146.2	5551.9	5904.7	5544.2	5162.6	4890.5	4824.2
62.5°	5413.5	5477.9	5508.7	5740.4	6213.3	6634.4	6220.1	5757.7	5455.8	5384.6
65°	5960.5	6013.4	6048.0	6295.1	6746.9	7168.9	6777.7	6322.0	6011.5	5918.2
67.5°	6215.3	6244.1	6328.7	6608.5	7085.3	7567.0	7166.1	6638.3	6291.2	6127.8
70°	5842.3	5783.6	5987.4	6435.4	7125.7	7811.1	7218.0	6422.0	5997.0	5731.7
72.5°	4514.6	4413.7	4767.4	5533.7	6664.2	7655.4	6710.4	5576.9	4987.6	4449.2
75°	2456.3	2341.9	2830.3	3799.3	5314.5	6635.4	5436.6	3908.0	3151.4	2438.0
77.5°	693.1	649.9	1044.0	1838.1	3196.6	4658.8	3319.6	1878.5	1238.2	734.5
80°	212.5	205.7	278.8	553.8	1357.5	2231.3	1304.6	560.5	354.7	224.0
82.5°	125.9	115.4	138.4	201.9	346.1	700.8	336.5	210.5	169.2	113.4
85°	72.1	67.3	81.7	98.1	116.3	149.0	97.1	100.0	90.4	60.6
87.5°	29.8	26.9	31.7	30.8	26.9	34.6	26.0	30.8	36.5	24.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
1687.2
1681.4
1660.3
1637.2
1626.6
1626.6
1633.4
1645.9
1658.4
1664.1
1669.9
1684.3
1717.0
1768.0
1849.7
1963.1
2104.4
2284.2
2496.7
2738.9
3030.2
3383.1
3805.1
4283.9
4766.5
5327.0
5872.1
6129.7
5795.1
4582.9
2596.7
816.2
236.5
123.1
63.5
22.1
0.0

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