

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: P946784

Luminaire Tested: **GALN-SB2B-830-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946784
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2B-830-U-5NQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10603 lumens
Efficiency: N/A
Efficacy: 143.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

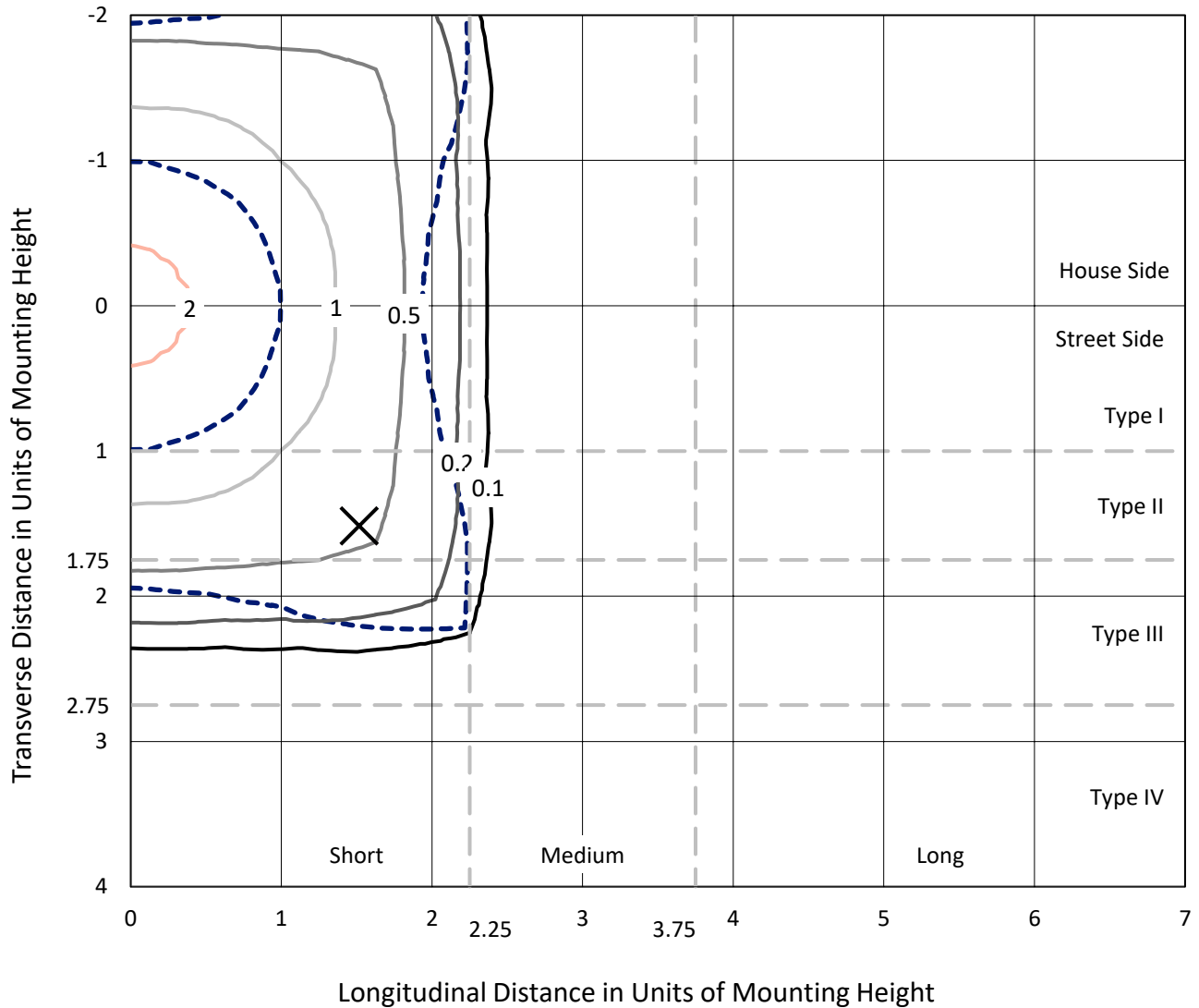
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

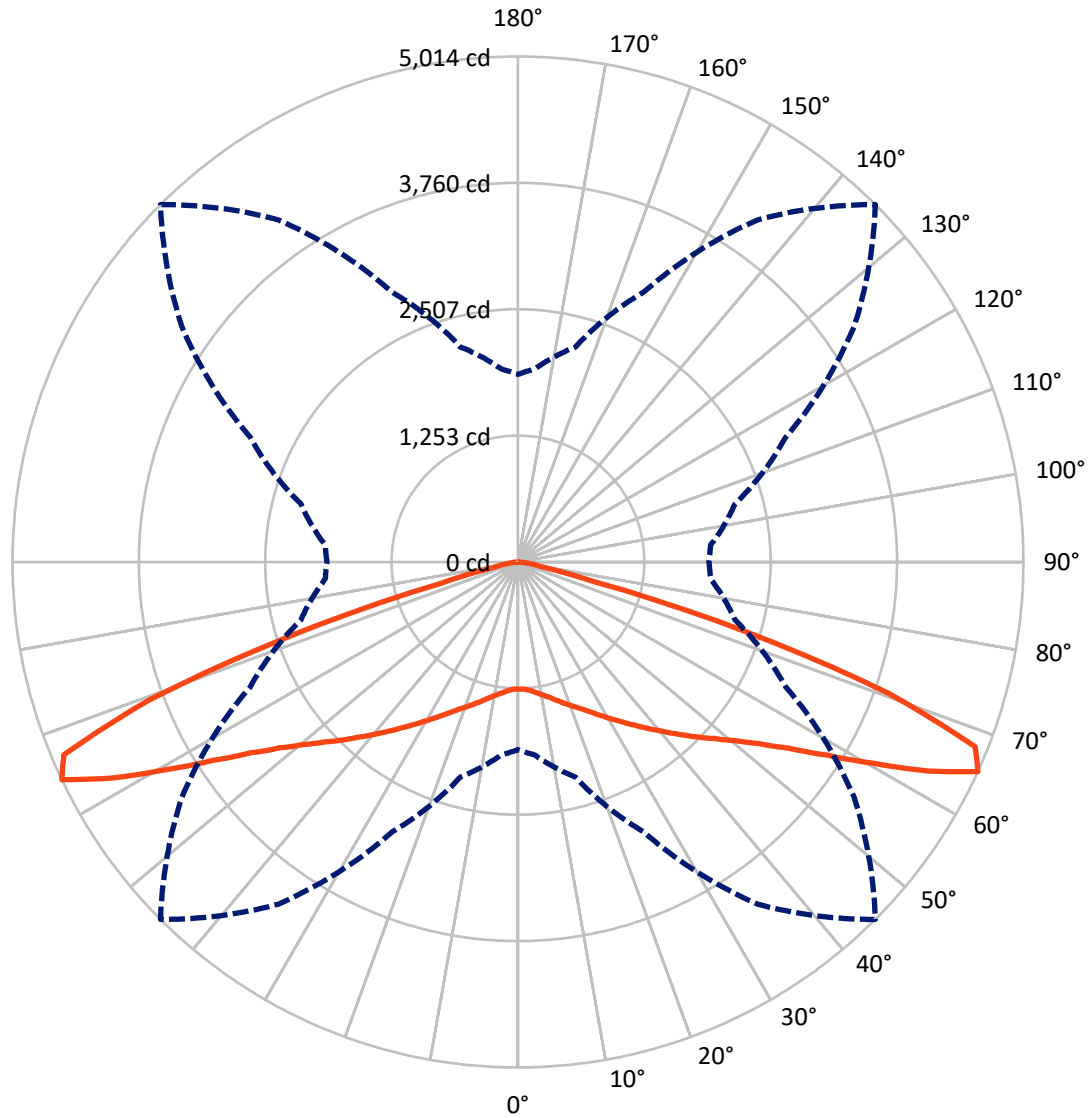
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5301.5	0.0	5301.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5301.5	0.0	5301.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	10603.0	0.0	10603.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.5	1.2
10°-20°	406.4	3.8
20°-30°	767.3	7.2
30°-40°	1256.4	11.8
40°-50°	1948.0	18.4
50°-60°	2877.6	27.1
60°-70°	2739.2	25.8
70°-80°	442.0	4.2
80°-90°	41.7	0.4
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°	10603.0	100.0
0°-180°	10603.0	100.0

Coefficient of Utilization



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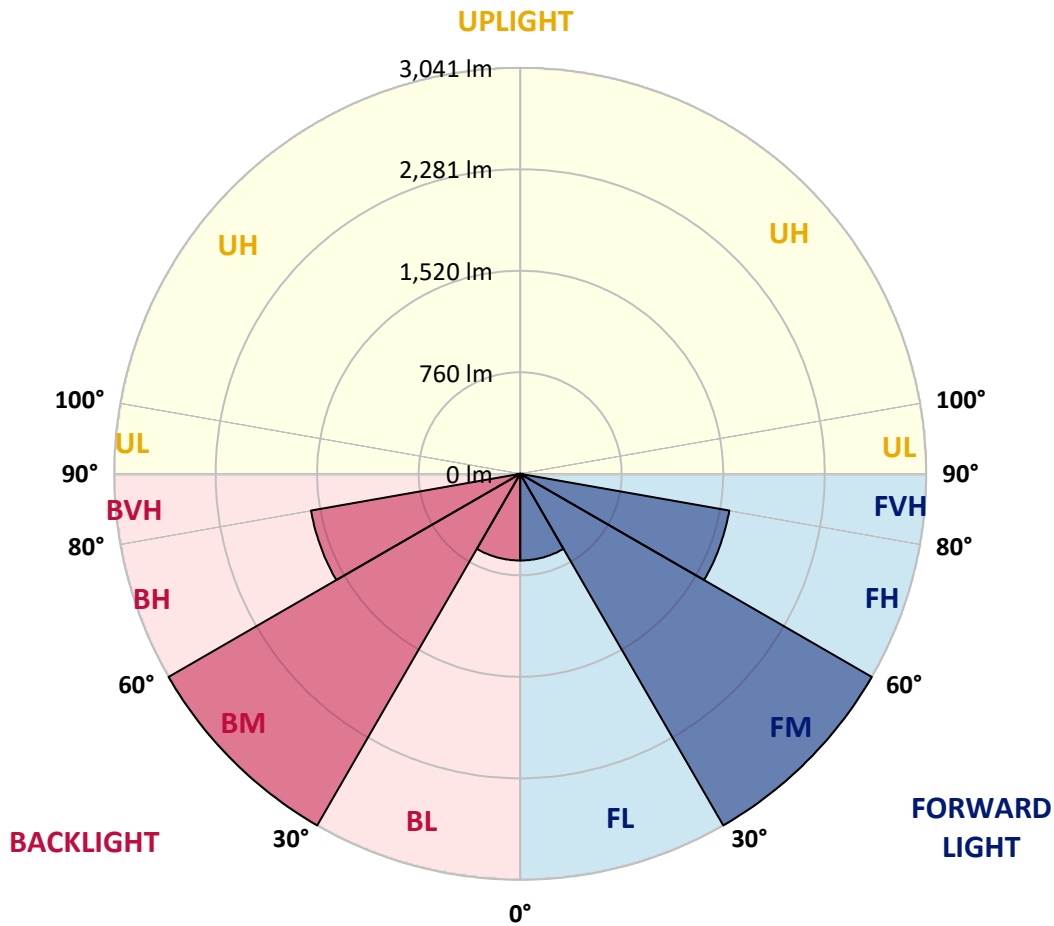
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	649.1	6.1			
FM (30°-60°)	3041.0	28.7			
FH (60°-80°)	1590.6	15.0			G1/1800
FVH (80°-90°)	20.8	0.2			G1/100
BL (0°-30°)	649.1	6.1	B2/1000		
BM (30°-60°)	3041.0	28.7	B3/5000		
BH (60°-80°)	1590.6	15.0	B3/2500		G1/1800
BVH (80°-90°)	20.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1261.9	1261.9	1261.9	1261.9	1261.9	1261.9	1261.9	1261.9	1261.9	1261.9
2.5°	1270.4	1266.1	1269.3	1266.7	1264.5	1262.4	1263.5	1267.2	1268.8	1269.3
5°	1287.4	1283.7	1285.3	1285.3	1281.5	1280.5	1281.0	1283.7	1286.9	1286.9
7.5°	1315.1	1311.3	1315.1	1312.9	1309.7	1308.7	1308.1	1310.3	1315.1	1315.1
10°	1348.6	1344.3	1346.4	1345.4	1341.7	1340.1	1339.5	1342.7	1347.0	1346.4
12.5°	1385.3	1380.5	1383.2	1380.0	1378.9	1377.3	1377.3	1376.8	1379.4	1377.3
15°	1426.2	1423.1	1424.1	1422.0	1423.6	1422.5	1418.3	1416.1	1417.2	1414.0
17.5°	1474.7	1467.2	1470.9	1469.9	1469.9	1472.0	1465.1	1462.4	1464.5	1461.4
20°	1530.5	1523.1	1524.7	1522.5	1519.9	1522.0	1513.5	1515.6	1517.2	1515.1
22.5°	1591.7	1582.1	1581.6	1582.6	1576.8	1577.3	1571.5	1576.8	1580.0	1574.1
25°	1654.5	1644.4	1651.3	1648.6	1641.2	1642.8	1638.5	1643.8	1646.5	1639.0
27.5°	1721.0	1714.0	1720.4	1722.0	1713.0	1719.4	1713.0	1717.8	1720.4	1709.3
30°	1798.6	1791.7	1797.6	1801.8	1791.2	1801.3	1796.0	1799.2	1799.7	1786.4
32.5°	1883.2	1872.6	1887.5	1889.6	1877.9	1890.1	1883.2	1887.5	1890.1	1872.0
35°	1986.4	1973.1	1990.1	1987.5	1977.4	1987.5	1981.1	1987.5	1993.9	1972.1
37.5°	2097.6	2083.8	2101.9	2097.1	2087.5	2094.4	2090.7	2094.9	2105.1	2081.6
40°	2220.0	2202.9	2227.4	2218.9	2209.9	2208.8	2210.9	2213.6	2226.9	2200.8
42.5°	2350.8	2332.7	2369.5	2356.2	2343.4	2334.9	2341.8	2347.1	2359.9	2330.6
45°	2500.3	2479.6	2527.4	2511.5	2491.3	2473.7	2484.9	2492.9	2511.5	2476.4
47.5°	2665.2	2641.8	2692.9	2688.1	2655.1	2616.8	2642.4	2665.2	2679.1	2636.5
50°	2826.4	2808.3	2875.4	2881.2	2840.8	2787.1	2822.7	2857.3	2861.0	2805.1
52.5°	2977.5	2959.4	3056.8	3093.5	3057.3	2993.5	3031.2	3066.3	3038.2	2965.8
55°	3098.3	3083.4	3207.3	3302.0	3314.3	3261.6	3283.9	3282.9	3190.3	3079.1
57.5°	3127.5	3125.4	3281.8	3482.4	3610.0	3616.4	3572.3	3459.5	3260.0	3110.5
60°	2994.5	3007.8	3222.8	3576.5	3917.0	4058.5	3867.5	3545.7	3180.7	2973.3
62.5°	2596.6	2631.7	2890.8	3461.6	4164.9	4567.1	4104.2	3414.8	2855.2	2584.4
65°	1860.9	1922.1	2208.3	2954.1	4142.5	5013.9	4070.2	2930.2	2229.5	1917.3
67.5°	844.3	906.5	1149.6	2022.6	3601.0	4892.6	3592.5	2043.9	1207.1	909.7
70°	305.9	316.5	394.7	809.7	2301.4	3898.4	2399.8	815.5	419.7	337.3
72.5°	185.1	186.7	203.2	289.9	799.6	2366.8	833.6	299.5	207.5	184.1
75°	117.6	116.5	144.7	177.2	283.5	798.5	297.4	177.2	144.2	131.4
77.5°	84.6	87.2	103.7	132.5	178.7	270.8	175.6	126.6	103.7	85.1
80°	63.3	64.9	75.5	103.2	125.5	168.6	111.7	93.6	78.2	53.2
82.5°	45.8	45.8	49.5	75.0	76.6	91.0	60.6	66.0	51.6	37.8
85°	27.1	26.6	30.9	44.7	39.9	33.5	27.7	40.4	32.5	23.4
87.5°	9.6	10.1	9.6	12.8	10.6	9.0	8.5	11.2	9.0	8.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
1261.9
1269.3
1286.9
1313.5
1345.4
1378.4
1414.5
1464.0
1519.9
1580.0
1647.6
1717.8
1794.4
1884.3
1985.4
2096.0
2209.3
2346.0
2494.5
2650.9
2812.1
2967.9
3082.8
3100.9
2948.8
2568.4
1894.4
896.4
333.0
187.3
132.5
86.7
54.8
37.8
22.9
7.4
0.0

OF REPORT)