

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: P945713

Luminaire Tested: **GALN-SB1C-830-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945713
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-SB1C-830-U-5NQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7054 lumens
Efficiency: N/A
Efficacy: 129.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

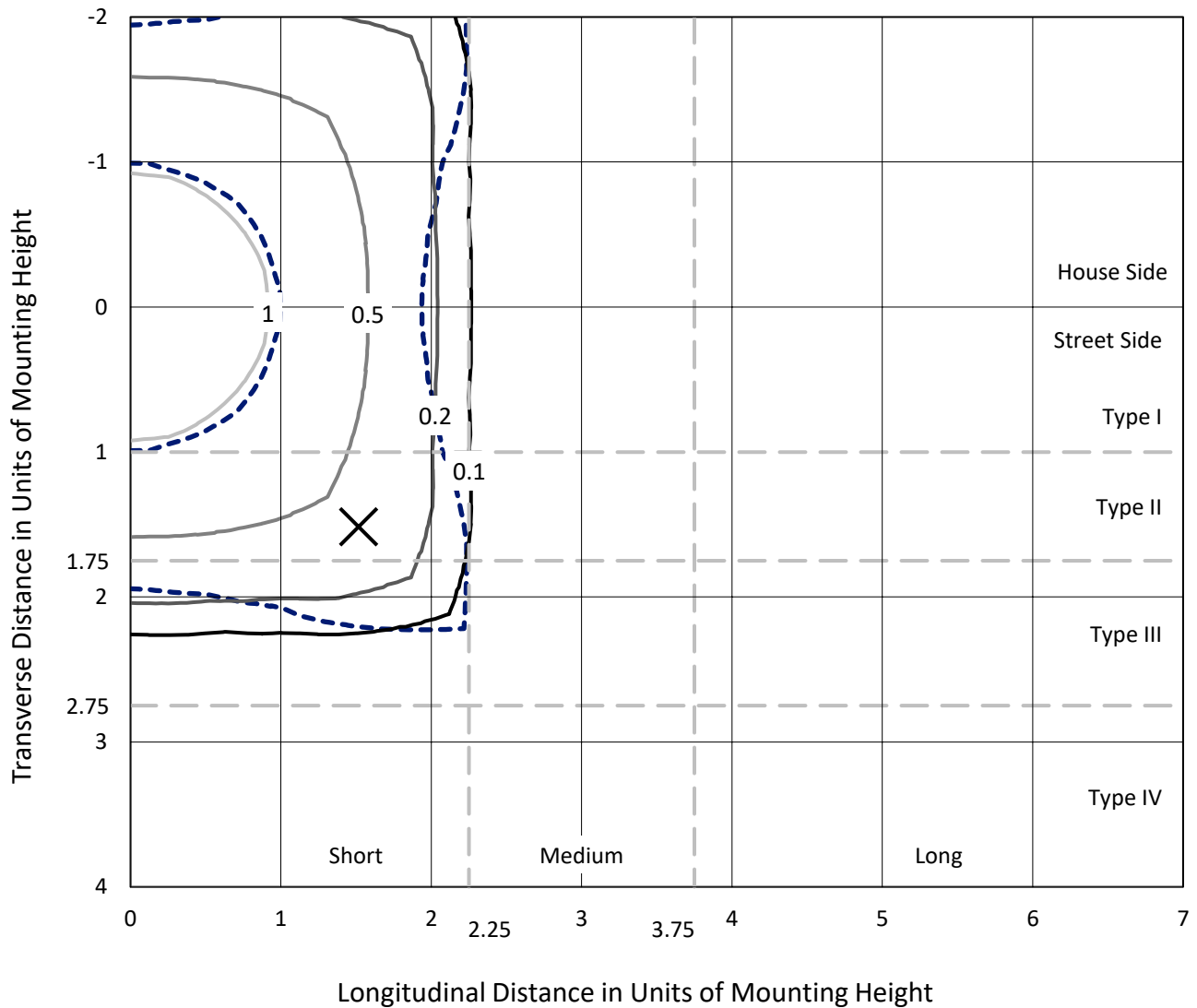
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

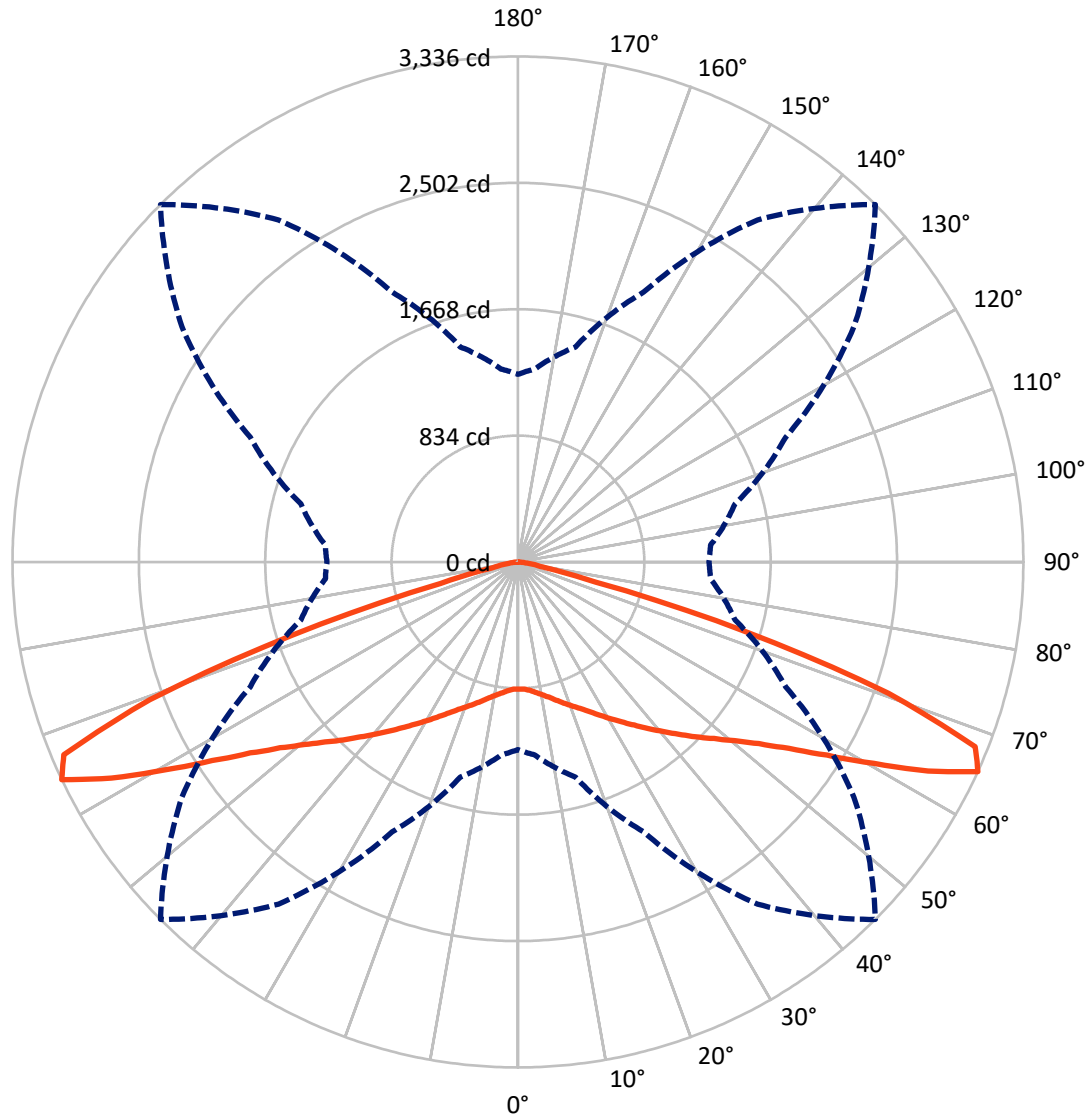
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 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 | 3527.0 | 0.0 | 3527.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 3527.0 | 0.0 | 3527.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 7054.0 | 0.0 | 7054.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 82.9 | 1.2 |
| 10°-20° | 270.3 | 3.8 |
| 20°-30° | 510.4 | 7.2 |
| 30°-40° | 835.8 | 11.8 |
| 40°-50° | 1296.0 | 18.4 |
| 50°-60° | 1914.4 | 27.1 |
| 60°-70° | 1822.4 | 25.8 |
| 70°-80° | 294.1 | 4.2 |
| 80°-90° | 27.7 | 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° | 7054.0 | 100.0 |
| 0°-180° | 7054.0 | 100.0 |

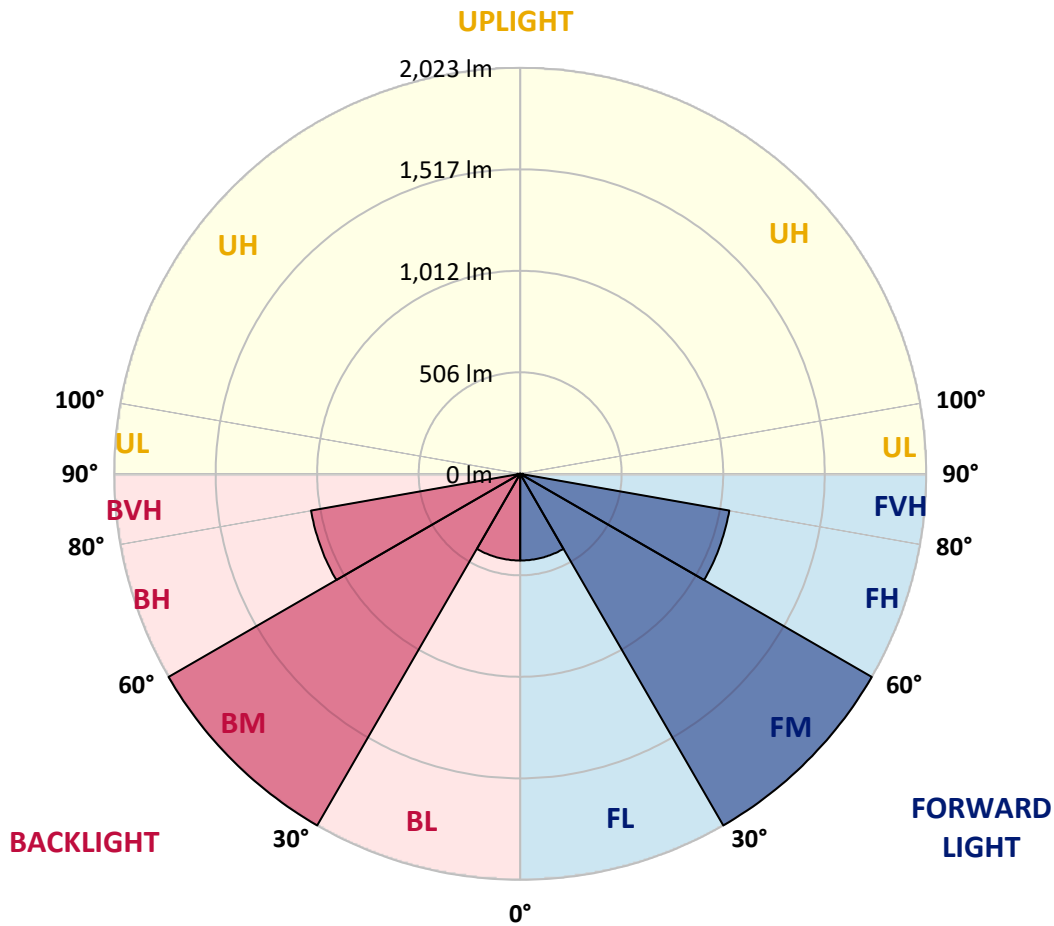


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 431.8 | 6.1 | | | |
| FM (30°-60°) | 2023.1 | 28.7 | | | |
| FH (60°-80°) | 1058.2 | 15.0 | | | G1/1800 |
| FVH (80°-90°) | 13.9 | 0.2 | | | G1/100 |
| BL (0°-30°) | 431.8 | 6.1 | B1/500 | | |
| BM (30°-60°) | 2023.1 | 28.7 | B2/2500 | | |
| BH (60°-80°) | 1058.2 | 15.0 | B3/2500 | | G1/1800 |
| BVH (80°-90°) | 13.9 | 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° | 839.5 | 839.5 | 839.5 | 839.5 | 839.5 | 839.5 | 839.5 | 839.5 | 839.5 | 839.5 |
| 2.5° | 845.2 | 842.3 | 844.5 | 842.7 | 841.3 | 839.9 | 840.6 | 843.0 | 844.1 | 844.5 |
| 5° | 856.5 | 854.0 | 855.1 | 855.1 | 852.6 | 851.9 | 852.2 | 854.0 | 856.1 | 856.1 |
| 7.5° | 874.9 | 872.4 | 874.9 | 873.5 | 871.3 | 870.6 | 870.3 | 871.7 | 874.9 | 874.9 |
| 10° | 897.2 | 894.4 | 895.8 | 895.1 | 892.6 | 891.5 | 891.2 | 893.3 | 896.1 | 895.8 |
| 12.5° | 921.6 | 918.4 | 920.2 | 918.1 | 917.4 | 916.3 | 916.3 | 915.9 | 917.7 | 916.3 |
| 15° | 948.9 | 946.7 | 947.4 | 946.0 | 947.1 | 946.4 | 943.5 | 942.1 | 942.8 | 940.7 |
| 17.5° | 981.1 | 976.1 | 978.6 | 977.9 | 977.9 | 979.3 | 974.7 | 972.9 | 974.3 | 972.2 |
| 20° | 1018.2 | 1013.3 | 1014.3 | 1012.9 | 1011.1 | 1012.6 | 1006.9 | 1008.3 | 1009.4 | 1008.0 |
| 22.5° | 1058.9 | 1052.6 | 1052.2 | 1052.9 | 1049.0 | 1049.4 | 1045.5 | 1049.0 | 1051.1 | 1047.2 |
| 25° | 1100.7 | 1094.0 | 1098.6 | 1096.8 | 1091.8 | 1092.9 | 1090.1 | 1093.6 | 1095.4 | 1090.4 |
| 27.5° | 1144.9 | 1140.3 | 1144.6 | 1145.6 | 1139.6 | 1143.9 | 1139.6 | 1142.8 | 1144.6 | 1137.1 |
| 30° | 1196.6 | 1192.0 | 1195.9 | 1198.7 | 1191.6 | 1198.4 | 1194.8 | 1197.0 | 1197.3 | 1188.5 |
| 32.5° | 1252.9 | 1245.8 | 1255.7 | 1257.1 | 1249.3 | 1257.5 | 1252.9 | 1255.7 | 1257.5 | 1245.4 |
| 35° | 1321.5 | 1312.7 | 1324.0 | 1322.2 | 1315.5 | 1322.2 | 1318.0 | 1322.2 | 1326.5 | 1312.0 |
| 37.5° | 1395.5 | 1386.3 | 1398.3 | 1395.1 | 1388.8 | 1393.4 | 1390.9 | 1393.7 | 1400.5 | 1384.9 |
| 40° | 1476.9 | 1465.6 | 1481.9 | 1476.2 | 1470.2 | 1469.5 | 1470.9 | 1472.7 | 1481.5 | 1464.2 |
| 42.5° | 1564.0 | 1551.9 | 1576.4 | 1567.5 | 1559.0 | 1553.4 | 1558.0 | 1561.5 | 1570.0 | 1550.5 |
| 45° | 1663.4 | 1649.6 | 1681.5 | 1670.9 | 1657.4 | 1645.7 | 1653.2 | 1658.5 | 1670.9 | 1647.5 |
| 47.5° | 1773.1 | 1757.6 | 1791.5 | 1788.4 | 1766.4 | 1740.9 | 1757.9 | 1773.1 | 1782.3 | 1754.0 |
| 50° | 1880.4 | 1868.3 | 1912.9 | 1916.8 | 1889.9 | 1854.2 | 1877.9 | 1900.9 | 1903.4 | 1866.2 |
| 52.5° | 1980.9 | 1968.9 | 2033.6 | 2058.0 | 2034.0 | 1991.5 | 2016.6 | 2040.0 | 2021.2 | 1973.1 |
| 55° | 2061.2 | 2051.3 | 2133.8 | 2196.8 | 2204.9 | 2169.9 | 2184.7 | 2184.0 | 2122.5 | 2048.5 |
| 57.5° | 2080.7 | 2079.3 | 2183.3 | 2316.8 | 2401.7 | 2405.9 | 2376.6 | 2301.5 | 2168.8 | 2069.4 |
| 60° | 1992.2 | 2001.1 | 2144.0 | 2379.4 | 2605.9 | 2700.1 | 2573.0 | 2358.9 | 2116.1 | 1978.1 |
| 62.5° | 1727.5 | 1750.8 | 1923.2 | 2303.0 | 2770.8 | 3038.4 | 2730.5 | 2271.8 | 1899.5 | 1719.3 |
| 65° | 1238.0 | 1278.7 | 1469.1 | 1965.3 | 2756.0 | 3335.7 | 2707.8 | 1949.4 | 1483.3 | 1275.5 |
| 67.5° | 561.7 | 603.1 | 764.8 | 1345.6 | 2395.7 | 3255.0 | 2390.0 | 1359.8 | 803.0 | 605.2 |
| 70° | 203.5 | 210.6 | 262.6 | 538.7 | 1531.1 | 2593.5 | 1596.5 | 542.6 | 279.2 | 224.4 |
| 72.5° | 123.2 | 124.2 | 135.2 | 192.9 | 531.9 | 1574.6 | 554.6 | 199.3 | 138.0 | 122.5 |
| 75° | 78.2 | 77.5 | 96.3 | 117.9 | 188.6 | 531.2 | 197.8 | 117.9 | 95.9 | 87.4 |
| 77.5° | 56.3 | 58.0 | 69.0 | 88.1 | 118.9 | 180.1 | 116.8 | 84.2 | 69.0 | 56.6 |
| 80° | 42.1 | 43.2 | 50.3 | 68.7 | 83.5 | 112.2 | 74.3 | 62.3 | 52.0 | 35.4 |
| 82.5° | 30.4 | 30.4 | 32.9 | 49.9 | 51.0 | 60.5 | 40.3 | 43.9 | 34.3 | 25.1 |
| 85° | 18.0 | 17.7 | 20.5 | 29.7 | 26.5 | 22.3 | 18.4 | 26.9 | 21.6 | 15.6 |
| 87.5° | 6.4 | 6.7 | 6.4 | 8.5 | 7.1 | 6.0 | 5.7 | 7.4 | 6.0 | 5.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END C

| 90° |
|--------|
| 839.5 |
| 844.5 |
| 856.1 |
| 873.8 |
| 895.1 |
| 917.0 |
| 941.1 |
| 974.0 |
| 1011.1 |
| 1051.1 |
| 1096.1 |
| 1142.8 |
| 1193.8 |
| 1253.6 |
| 1320.8 |
| 1394.4 |
| 1469.8 |
| 1560.8 |
| 1659.5 |
| 1763.6 |
| 1870.8 |
| 1974.5 |
| 2051.0 |
| 2063.0 |
| 1961.8 |
| 1708.7 |
| 1260.3 |
| 596.4 |
| 221.6 |
| 124.6 |
| 88.1 |
| 57.7 |
| 36.5 |
| 25.1 |
| 15.2 |
| 5.0 |
| 0.0 |

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