

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: P945359

Luminaire Tested: **GALN-SB1B-830-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945359
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1B-830-U-RW
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 450mA LIGHTSQUARE WITH 26 LEDS AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5212 lumens
Efficiency: N/A
Efficacy: 131.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

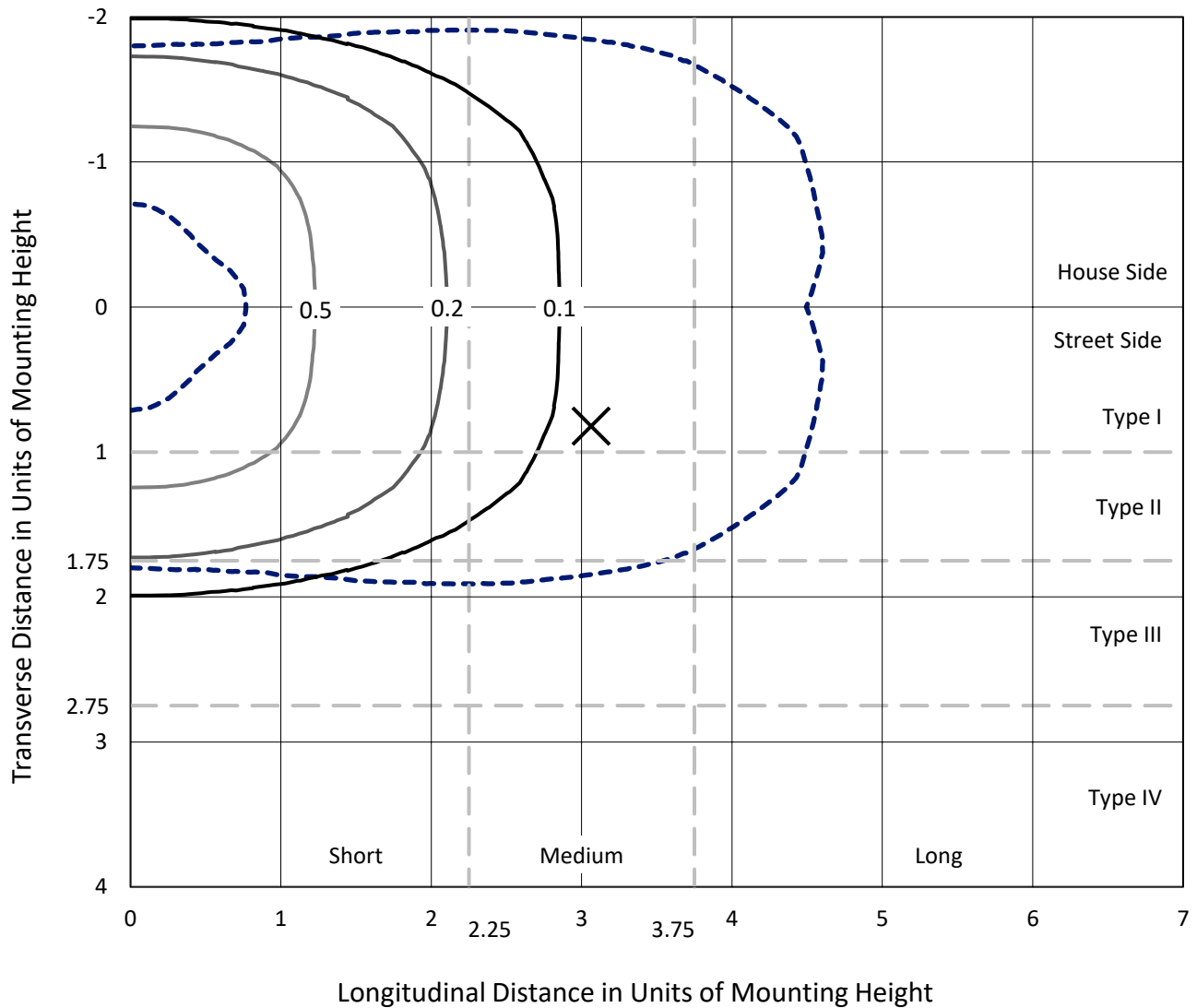
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

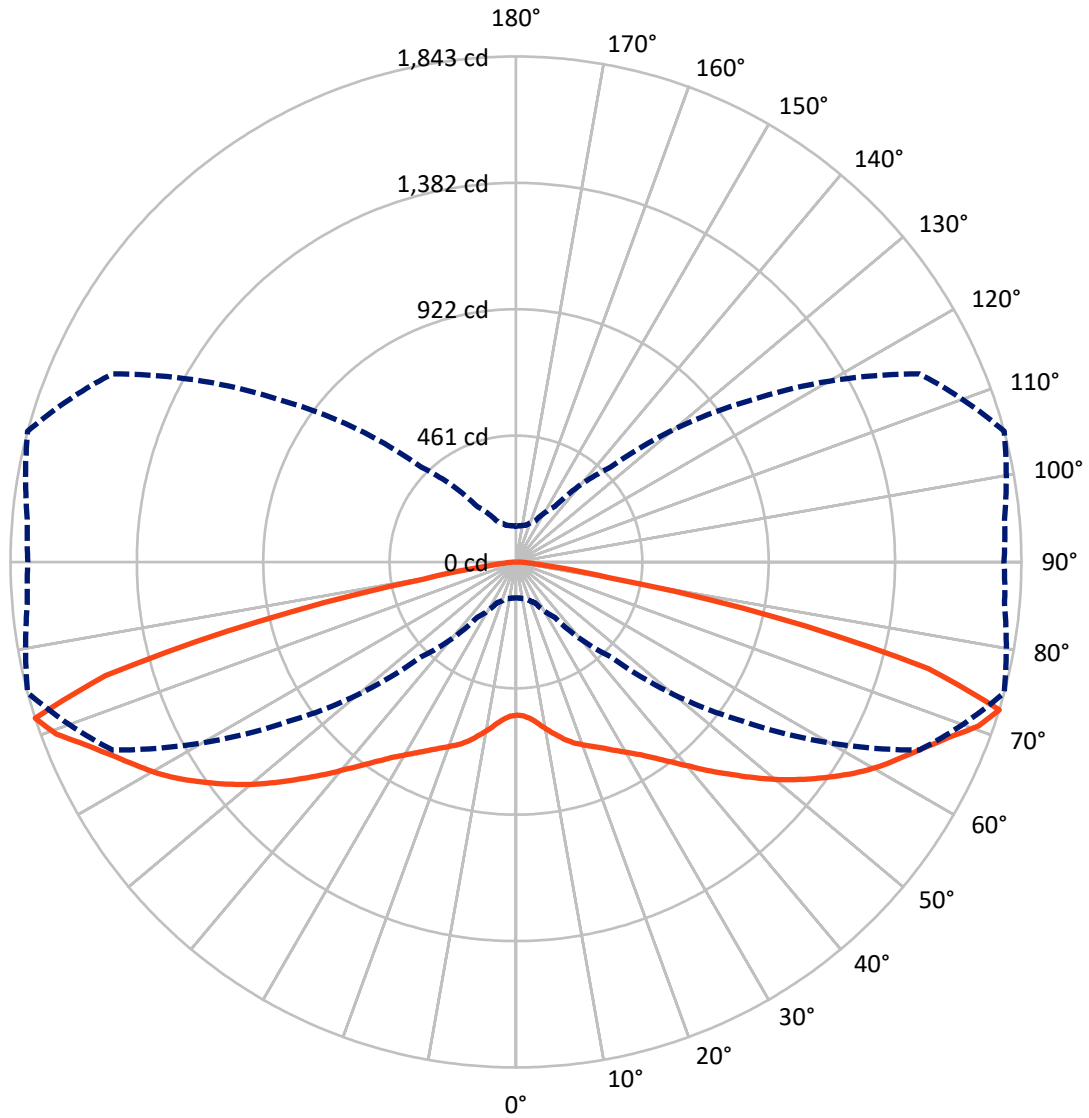
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 2606.0 | 0.0 | 2606.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 2606.0 | 0.0 | 2606.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 5212.0 | 0.0 | 5212.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 54.7 | 1.0 |
| 10°-20° | 180.4 | 3.5 |
| 20°-30° | 348.5 | 6.7 |
| 30°-40° | 588.5 | 11.3 |
| 40°-50° | 933.4 | 17.9 |
| 50°-60° | 1249.7 | 24.0 |
| 60°-70° | 1189.3 | 22.8 |
| 70°-80° | 620.6 | 11.9 |
| 80°-90° | 47.0 | 0.9 |
| 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° | 5212.0 | 100.0 |
| 0°-180° | 5212.0 | 100.0 |

Coefficient of Utilization

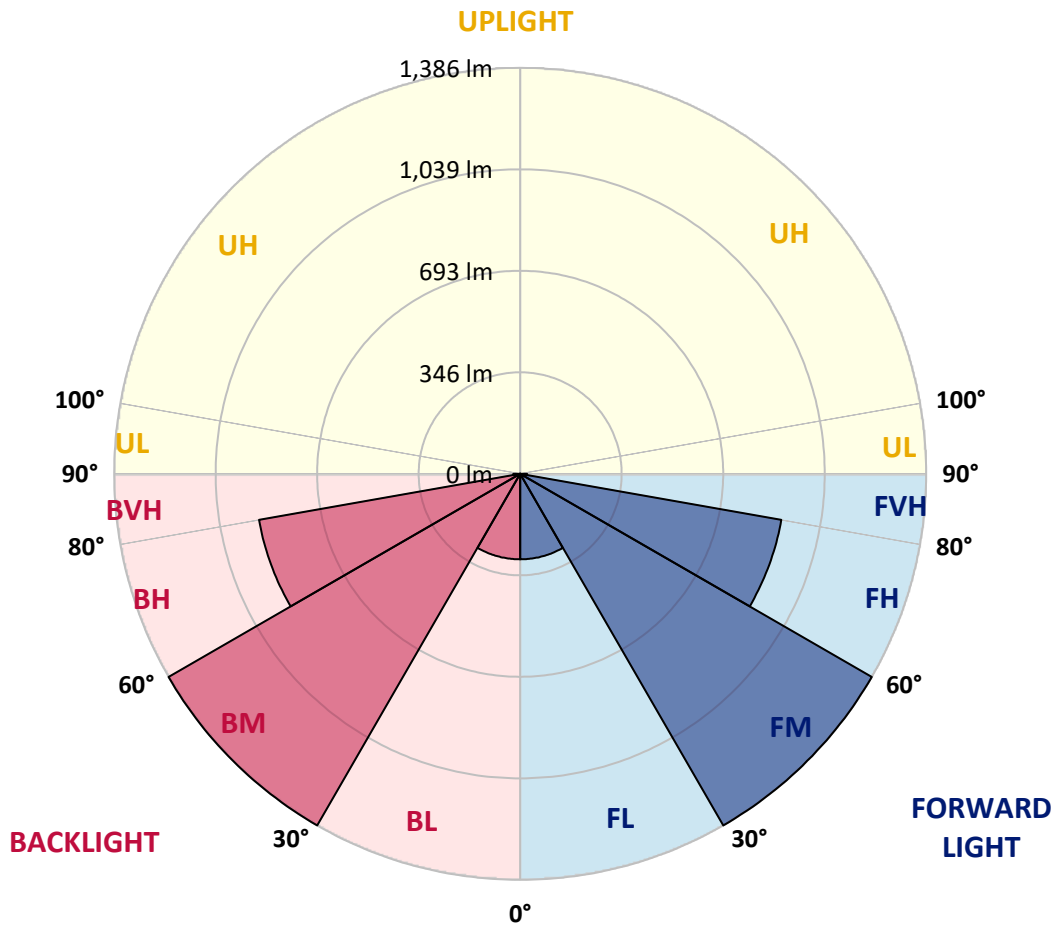


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 291.8 | 5.6 | | | |
| FM (30°-60°) | 1385.8 | 26.6 | | | |
| FH (60°-80°) | 904.9 | 17.4 | | | G1/1800 |
| FVH (80°-90°) | 23.5 | 0.5 | | | G1/100 |
| BL (0°-30°) | 291.8 | 5.6 | B1/500 | | |
| BM (30°-60°) | 1385.8 | 26.6 | B2/2500 | | |
| BH (60°-80°) | 904.9 | 17.4 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 23.5 | 0.5 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2
 Type III Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 558.3 | 558.3 | 558.3 | 558.3 | 558.3 | 558.3 | 558.3 | 558.3 | 558.3 | 558.3 |
| 2.5° | 558.3 | 557.8 | 558.3 | 558.8 | 558.6 | 558.6 | 559.9 | 560.7 | 562.3 | 562.0 |
| 5° | 554.6 | 554.3 | 556.4 | 558.8 | 560.7 | 563.9 | 567.9 | 570.8 | 574.5 | 575.3 |
| 7.5° | 552.7 | 551.9 | 555.6 | 559.9 | 565.7 | 573.7 | 581.5 | 589.4 | 595.8 | 597.9 |
| 10° | 554.0 | 554.3 | 559.4 | 567.3 | 576.7 | 587.8 | 598.7 | 612.3 | 621.4 | 623.5 |
| 12.5° | 560.2 | 559.6 | 568.1 | 580.9 | 593.7 | 607.8 | 620.6 | 635.5 | 645.3 | 650.4 |
| 15° | 571.3 | 570.3 | 582.2 | 601.1 | 619.8 | 636.3 | 646.6 | 660.8 | 672.2 | 678.6 |
| 17.5° | 584.6 | 585.2 | 600.9 | 625.4 | 649.8 | 668.5 | 678.3 | 685.5 | 694.3 | 699.9 |
| 20° | 608.1 | 609.1 | 626.7 | 655.7 | 683.6 | 704.9 | 712.9 | 710.2 | 712.6 | 716.9 |
| 22.5° | 639.5 | 640.0 | 659.7 | 691.1 | 720.4 | 743.8 | 749.1 | 738.2 | 731.5 | 734.5 |
| 25° | 675.9 | 679.4 | 699.1 | 731.3 | 761.3 | 783.7 | 786.1 | 769.6 | 753.1 | 753.9 |
| 27.5° | 720.4 | 723.6 | 743.5 | 775.4 | 806.0 | 825.5 | 825.2 | 803.1 | 778.9 | 772.8 |
| 30° | 768.5 | 772.0 | 792.5 | 825.5 | 853.9 | 871.0 | 867.3 | 840.9 | 806.3 | 794.9 |
| 32.5° | 825.7 | 827.9 | 848.6 | 881.6 | 908.0 | 921.5 | 913.8 | 881.4 | 838.2 | 825.2 |
| 35° | 894.9 | 898.1 | 913.6 | 944.7 | 967.8 | 979.0 | 966.0 | 927.7 | 879.2 | 864.6 |
| 37.5° | 974.0 | 971.8 | 989.4 | 1017.1 | 1036.2 | 1043.2 | 1025.3 | 979.8 | 926.1 | 908.8 |
| 40° | 1056.5 | 1055.4 | 1074.6 | 1101.2 | 1111.5 | 1115.8 | 1089.5 | 1039.7 | 980.1 | 961.5 |
| 42.5° | 1131.2 | 1130.4 | 1156.2 | 1185.8 | 1198.3 | 1193.5 | 1160.2 | 1103.3 | 1042.6 | 1021.3 |
| 45° | 1191.1 | 1190.0 | 1221.7 | 1263.2 | 1287.7 | 1279.7 | 1235.0 | 1173.5 | 1106.0 | 1083.9 |
| 47.5° | 1237.1 | 1237.7 | 1271.7 | 1323.1 | 1365.9 | 1368.9 | 1311.4 | 1245.1 | 1175.7 | 1150.7 |
| 50° | 1270.4 | 1272.0 | 1308.5 | 1365.4 | 1424.0 | 1449.8 | 1389.4 | 1318.6 | 1247.8 | 1219.6 |
| 52.5° | 1278.7 | 1281.6 | 1325.5 | 1392.3 | 1461.2 | 1510.4 | 1468.7 | 1389.1 | 1316.2 | 1289.3 |
| 55° | 1234.7 | 1240.6 | 1296.2 | 1390.2 | 1484.1 | 1550.4 | 1538.4 | 1460.7 | 1385.1 | 1357.4 |
| 57.5° | 1133.9 | 1142.1 | 1207.1 | 1329.8 | 1479.0 | 1577.8 | 1592.4 | 1529.3 | 1454.0 | 1427.4 |
| 60° | 992.6 | 1002.4 | 1064.7 | 1198.6 | 1407.7 | 1587.9 | 1630.5 | 1596.1 | 1517.4 | 1491.5 |
| 62.5° | 779.4 | 792.2 | 866.7 | 1023.7 | 1257.1 | 1540.8 | 1662.9 | 1656.5 | 1574.3 | 1542.1 |
| 65° | 500.0 | 513.6 | 592.1 | 777.6 | 1056.2 | 1396.5 | 1673.0 | 1715.3 | 1634.4 | 1589.5 |
| 67.5° | 301.5 | 307.6 | 346.5 | 471.3 | 772.0 | 1179.1 | 1587.3 | 1780.5 | 1704.7 | 1648.8 |
| 70° | 192.9 | 196.4 | 219.5 | 276.8 | 436.4 | 860.3 | 1375.0 | 1792.8 | 1789.9 | 1709.8 |
| 72.5° | 130.9 | 132.0 | 138.1 | 163.9 | 246.9 | 488.8 | 1014.1 | 1623.0 | 1843.1 | 1788.3 |
| 75° | 95.8 | 101.7 | 111.5 | 116.0 | 140.2 | 244.3 | 581.2 | 1140.3 | 1553.3 | 1577.2 |
| 77.5° | 71.3 | 71.6 | 85.2 | 90.5 | 100.1 | 130.1 | 245.9 | 636.5 | 964.4 | 1012.5 |
| 80° | 60.4 | 57.2 | 56.9 | 72.9 | 75.3 | 81.2 | 109.9 | 219.8 | 345.4 | 209.4 |
| 82.5° | 50.3 | 46.8 | 42.3 | 56.9 | 51.4 | 49.8 | 47.6 | 89.4 | 109.9 | 54.0 |
| 85° | 35.1 | 33.5 | 31.9 | 37.3 | 29.3 | 25.0 | 22.9 | 41.8 | 46.3 | 22.9 |
| 87.5° | 15.2 | 15.7 | 16.0 | 16.5 | 12.2 | 8.8 | 8.8 | 11.7 | 11.7 | 9.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END C

| 90° |
|--------|
| 558.3 |
| 561.8 |
| 575.3 |
| 598.5 |
| 625.6 |
| 652.5 |
| 681.0 |
| 702.5 |
| 720.1 |
| 736.6 |
| 755.2 |
| 774.6 |
| 796.2 |
| 828.4 |
| 866.7 |
| 912.0 |
| 967.6 |
| 1026.7 |
| 1088.9 |
| 1158.1 |
| 1228.1 |
| 1296.2 |
| 1365.1 |
| 1433.5 |
| 1497.1 |
| 1545.8 |
| 1595.1 |
| 1653.1 |
| 1709.2 |
| 1779.7 |
| 1519.2 |
| 903.2 |
| 158.3 |
| 46.0 |
| 20.2 |
| 6.7 |
| 0.0 |

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