

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: P527371

Luminaire Tested: **GALN-SA2B-827-U-RW-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527371
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-7)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2B-827-U-RW-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5436 lumens
Efficiency: N/A
Efficacy: 66.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B2 - U0 - G0

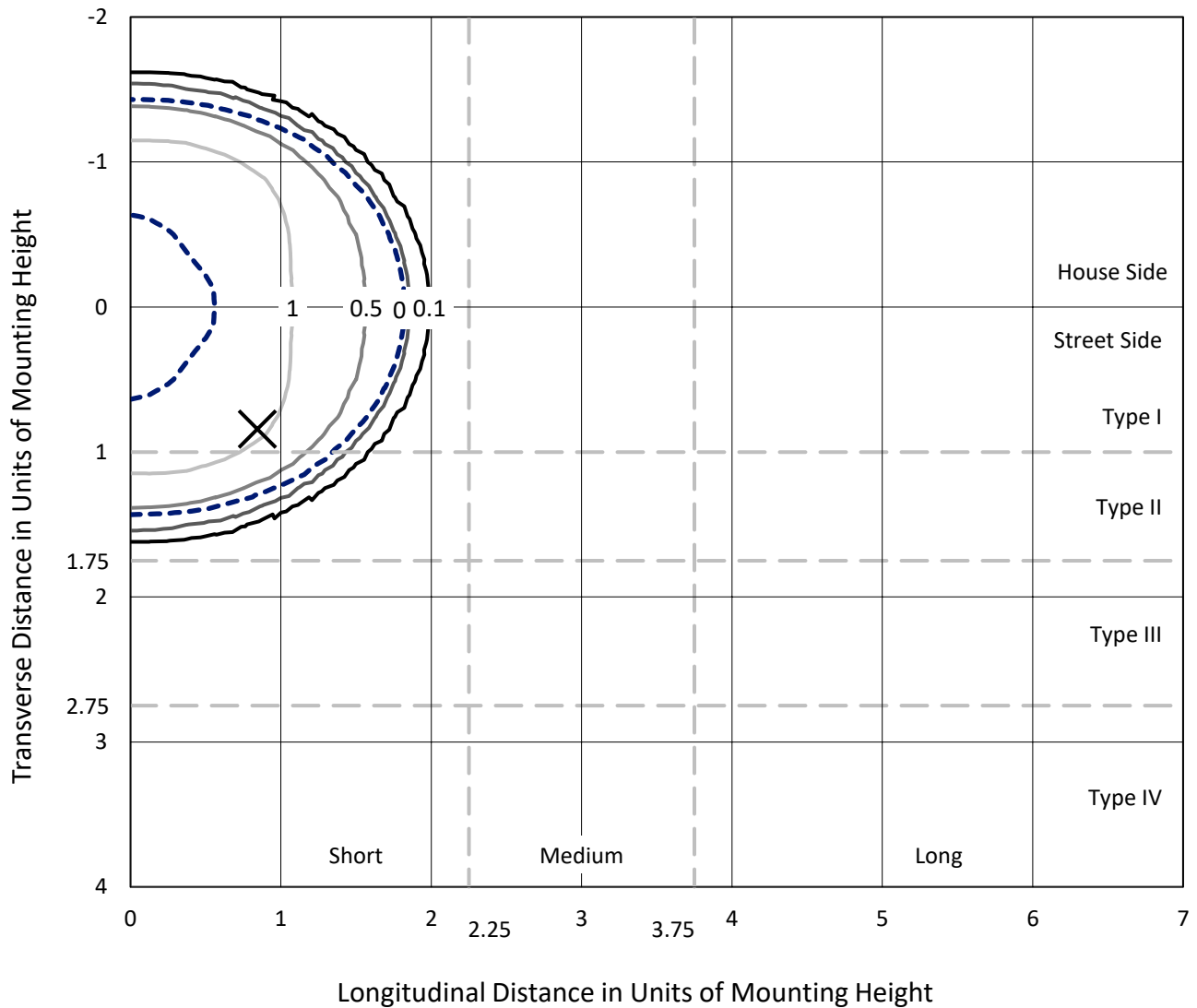
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

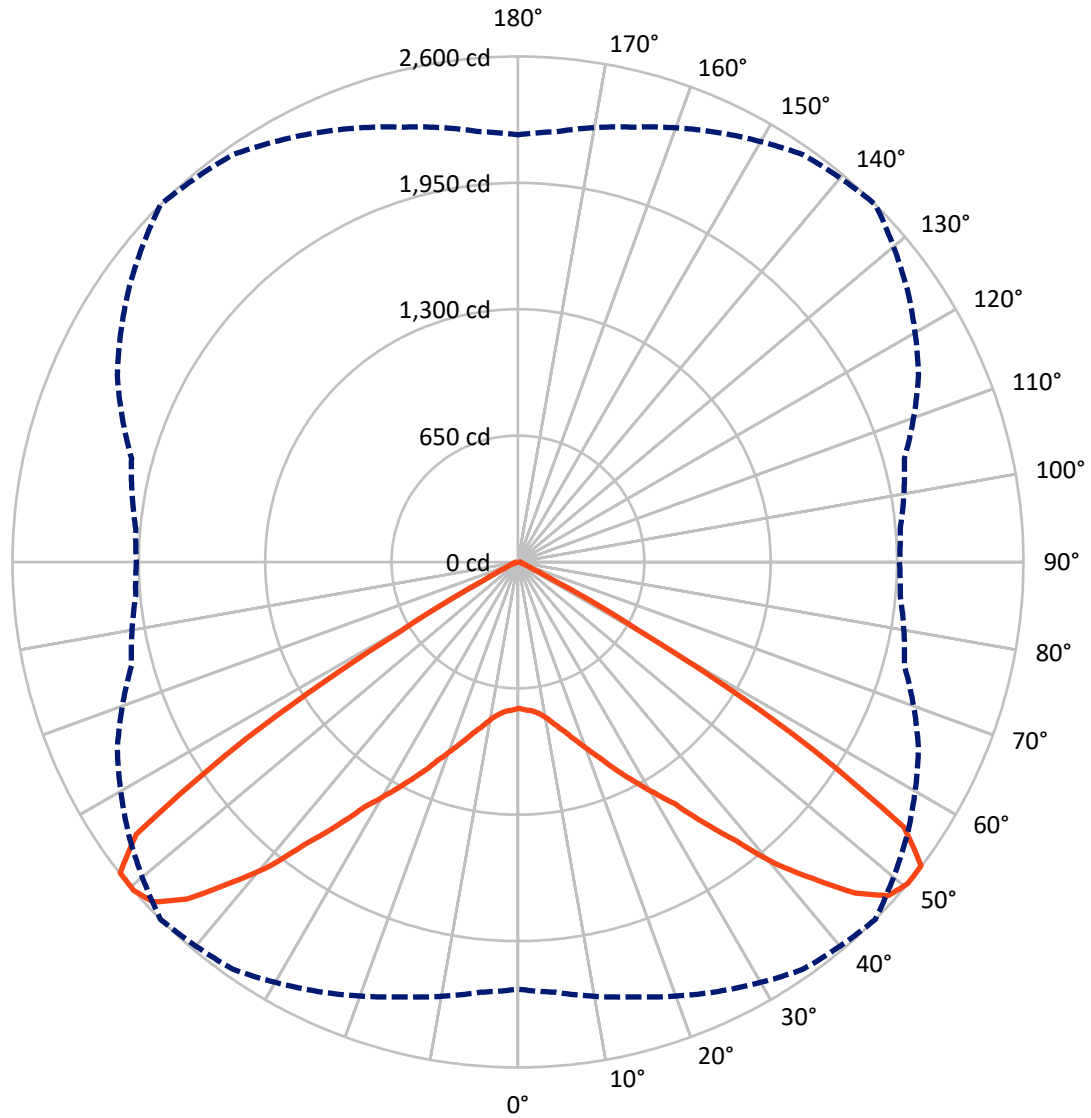
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 2718.0 | 0.0 | 2718.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 2718.0 | 0.0 | 2718.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 5436.0 | 0.0 | 5436.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 75.0 | 1.4 |
| 10°-20° | 258.4 | 4.8 |
| 20°-30° | 527.8 | 9.7 |
| 30°-40° | 1006.5 | 18.5 |
| 40°-50° | 1696.0 | 31.2 |
| 50°-60° | 1617.5 | 29.8 |
| 60°-70° | 225.8 | 4.2 |
| 70°-80° | 21.6 | 0.4 |
| 80°-90° | 7.5 | 0.1 |
| 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° | 5436.0 | 100.0 |
| 0°-180° | 5436.0 | 100.0 |

Coefficient of Utilization

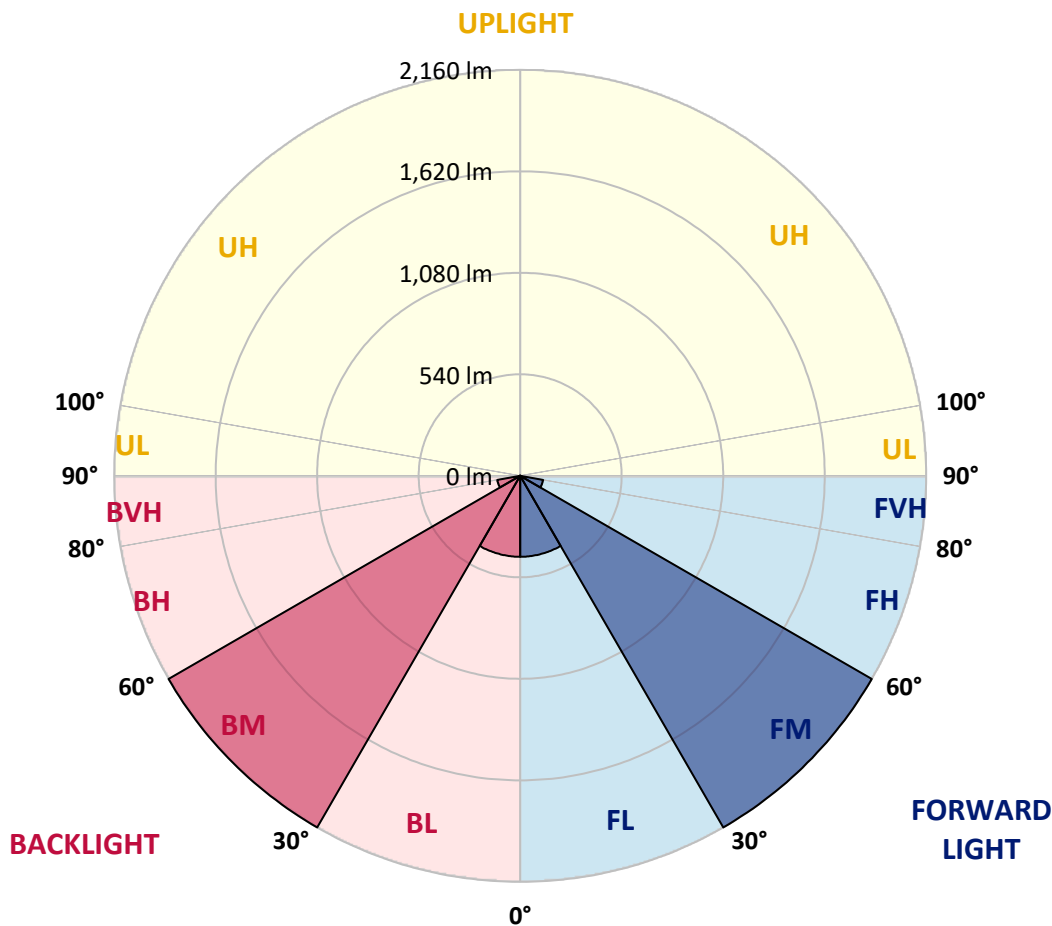


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 430.6 | 7.9 | | | |
| FM (30°-60°) | 2160.0 | 39.7 | | | |
| FH (60°-80°) | 123.7 | 2.3 | | | G0/660 |
| FVH (80°-90°) | 3.7 | 0.1 | | | G0/10 |
| BL (0°-30°) | 430.6 | 7.9 | B1/500 | | |
| BM (30°-60°) | 2160.0 | 39.7 | B2/2500 | | |
| BH (60°-80°) | 123.7 | 2.3 | B1/500 | | G0/660 |
| BVH (80°-90°) | 3.7 | 0.1 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G0
 Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 753.6 | 753.6 | 753.6 | 753.6 | 753.6 | 753.6 | 753.6 | 753.6 | 753.6 | 753.6 | 753.6 |
| 2.5° | 750.9 | 750.9 | 750.0 | 757.3 | 753.6 | 761.9 | 761.0 | 763.7 | 766.4 | 765.5 | 772.8 |
| 5° | 744.5 | 743.6 | 743.6 | 751.8 | 760.0 | 769.2 | 777.4 | 782.9 | 792.1 | 792.1 | 801.2 |
| 7.5° | 750.9 | 746.3 | 752.7 | 756.4 | 771.9 | 787.5 | 801.2 | 812.2 | 833.2 | 840.5 | 837.8 |
| 10° | 752.7 | 758.2 | 762.8 | 773.8 | 793.0 | 816.7 | 828.6 | 856.1 | 879.9 | 896.3 | 900.0 |
| 12.5° | 764.6 | 772.8 | 785.7 | 812.2 | 829.6 | 860.7 | 877.1 | 903.6 | 936.6 | 954.9 | 967.7 |
| 15° | 787.5 | 790.2 | 806.7 | 840.5 | 878.0 | 906.4 | 932.0 | 951.2 | 983.2 | 1004.2 | 1005.2 |
| 17.5° | 816.7 | 828.6 | 851.5 | 883.5 | 922.8 | 964.9 | 985.0 | 1006.1 | 1018.0 | 1046.3 | 1052.7 |
| 20° | 875.3 | 877.1 | 899.1 | 941.1 | 990.5 | 1028.9 | 1043.6 | 1054.5 | 1050.0 | 1079.2 | 1084.7 |
| 22.5° | 930.2 | 932.0 | 959.4 | 1016.1 | 1069.2 | 1102.1 | 1108.5 | 1102.1 | 1088.4 | 1109.4 | 1111.3 |
| 25° | 986.0 | 1002.4 | 1022.5 | 1079.2 | 1145.1 | 1189.0 | 1189.9 | 1172.5 | 1144.2 | 1147.8 | 1157.0 |
| 27.5° | 1072.8 | 1084.7 | 1105.8 | 1157.9 | 1230.2 | 1279.5 | 1271.3 | 1250.3 | 1213.7 | 1216.4 | 1213.7 |
| 30° | 1174.4 | 1185.3 | 1202.7 | 1269.5 | 1322.5 | 1376.5 | 1388.4 | 1368.3 | 1313.4 | 1301.5 | 1315.2 |
| 32.5° | 1296.9 | 1312.5 | 1344.5 | 1405.8 | 1450.6 | 1483.5 | 1491.7 | 1484.4 | 1433.2 | 1428.6 | 1437.8 |
| 35° | 1446.0 | 1467.0 | 1496.3 | 1550.3 | 1586.9 | 1646.3 | 1646.3 | 1621.6 | 1575.0 | 1580.5 | 1579.5 |
| 37.5° | 1603.3 | 1634.4 | 1680.1 | 1735.0 | 1784.4 | 1816.4 | 1806.4 | 1785.3 | 1738.7 | 1726.8 | 1738.7 |
| 40° | 1800.9 | 1816.4 | 1874.0 | 1945.4 | 2005.7 | 2042.3 | 1999.3 | 1953.6 | 1842.0 | 1859.4 | 1891.4 |
| 42.5° | 1981.1 | 2005.7 | 2049.6 | 2128.3 | 2196.9 | 2227.1 | 2175.9 | 2085.3 | 1950.9 | 1937.2 | 1960.9 |
| 45° | 2134.7 | 2161.2 | 2218.9 | 2331.4 | 2403.6 | 2430.1 | 2316.7 | 2170.4 | 2016.7 | 1982.0 | 1992.0 |
| 47.5° | 2237.1 | 2250.9 | 2331.4 | 2438.4 | 2504.2 | 2564.6 | 2401.8 | 2228.9 | 2047.8 | 1982.0 | 1978.3 |
| 50° | 2197.8 | 2221.6 | 2315.8 | 2437.4 | 2557.3 | 2600.2 | 2444.8 | 2273.7 | 2057.9 | 1973.7 | 1962.8 |
| 52.5° | 1951.8 | 1992.9 | 2098.1 | 2261.8 | 2442.9 | 2596.6 | 2504.2 | 2259.1 | 2054.2 | 1982.0 | 1998.4 |
| 55° | 1358.2 | 1359.1 | 1487.2 | 1728.6 | 2048.7 | 2410.9 | 2417.3 | 2275.6 | 2078.0 | 2033.2 | 2034.1 |
| 57.5° | 546.0 | 573.5 | 671.3 | 913.7 | 1209.1 | 1655.5 | 1968.2 | 2110.9 | 2080.7 | 2069.8 | 2098.1 |
| 60° | 138.1 | 139.0 | 169.2 | 257.9 | 425.3 | 709.7 | 1030.8 | 1394.8 | 1606.1 | 1678.3 | 1688.4 |
| 62.5° | 70.4 | 71.3 | 78.7 | 91.5 | 116.2 | 190.2 | 338.4 | 536.9 | 763.7 | 878.9 | 909.1 |
| 65° | 57.6 | 57.6 | 62.2 | 68.6 | 69.5 | 73.2 | 87.8 | 125.3 | 182.0 | 206.7 | 209.4 |
| 67.5° | 43.9 | 43.9 | 47.6 | 51.2 | 53.0 | 52.1 | 50.3 | 52.1 | 63.1 | 60.4 | 58.5 |
| 70° | 27.4 | 28.4 | 30.2 | 33.8 | 35.7 | 36.6 | 37.5 | 39.3 | 44.8 | 46.6 | 44.8 |
| 72.5° | 16.5 | 16.5 | 17.4 | 20.1 | 22.9 | 24.7 | 27.4 | 29.3 | 32.0 | 36.6 | 35.7 |
| 75° | 7.3 | 7.3 | 9.1 | 11.9 | 14.6 | 17.4 | 20.1 | 22.9 | 24.7 | 27.4 | 28.4 |
| 77.5° | 1.8 | 2.7 | 4.6 | 8.2 | 11.0 | 14.6 | 18.3 | 21.0 | 22.9 | 22.9 | 22.0 |
| 80° | 0.9 | 0.9 | 3.7 | 6.4 | 11.9 | 15.5 | 20.1 | 22.0 | 24.7 | 22.9 | 20.1 |
| 82.5° | 0.9 | 0.9 | 3.7 | 6.4 | 11.0 | 15.5 | 21.0 | 23.8 | 25.6 | 22.9 | 19.2 |
| 85° | 0.0 | 0.9 | 2.7 | 5.5 | 9.1 | 11.0 | 9.1 | 6.4 | 3.7 | 3.7 | 2.7 |
| 87.5° | 0.0 | 0.0 | 0.9 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)