

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: STREETWORKS

Report Number: P386015

Luminaire Tested: GAW-SA1C-827-U-5NQ

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P386015
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-5)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: GAW-SA1C-827-U-5NQ
Description: GALLEON WALL LUMINAIRE
(1) 80 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5729 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B2 - U0 - G1

Input Watts (W): 58
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: 28.75 FT

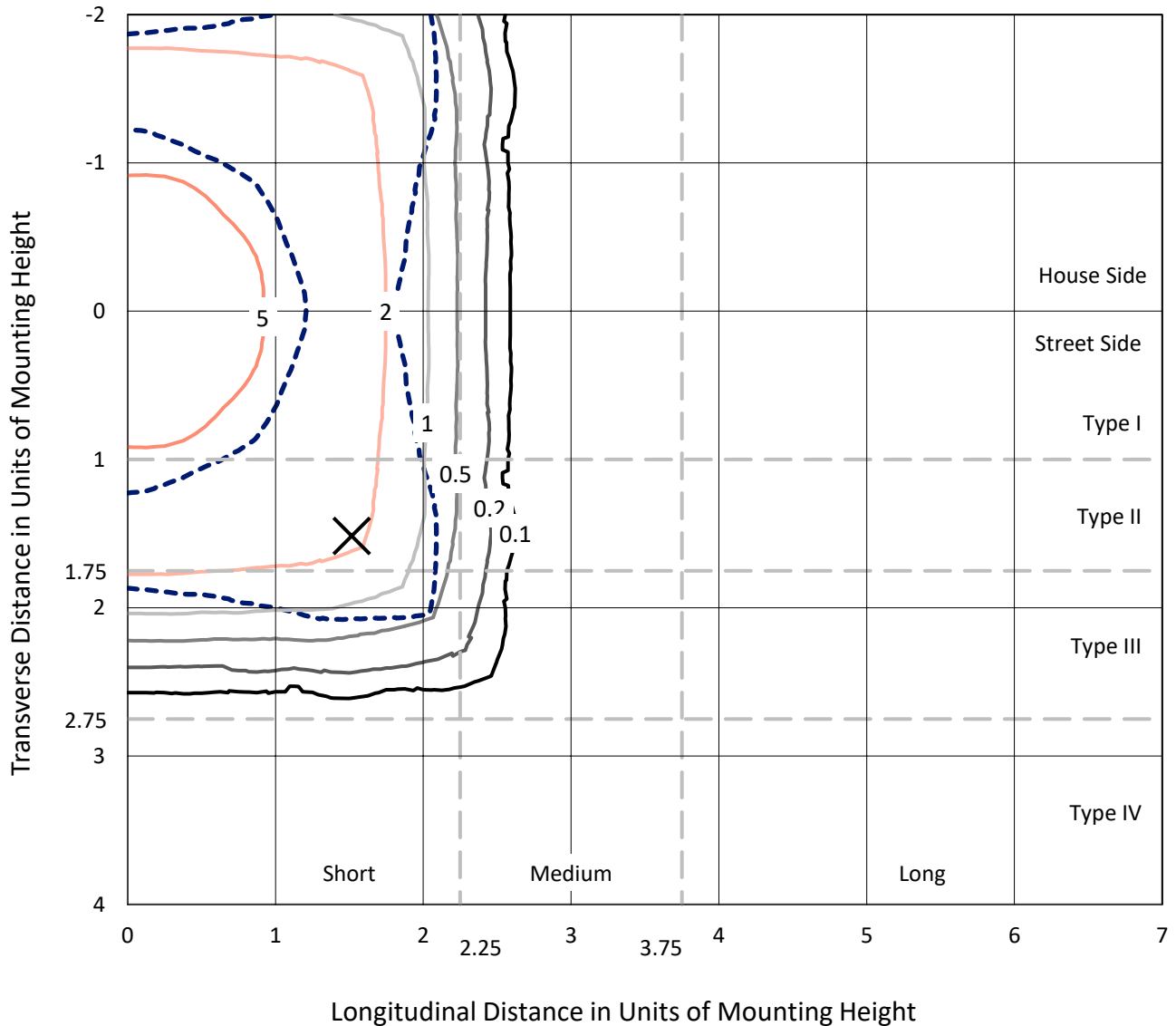




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Iso-Footcandle Lines of Horizontal Illumination

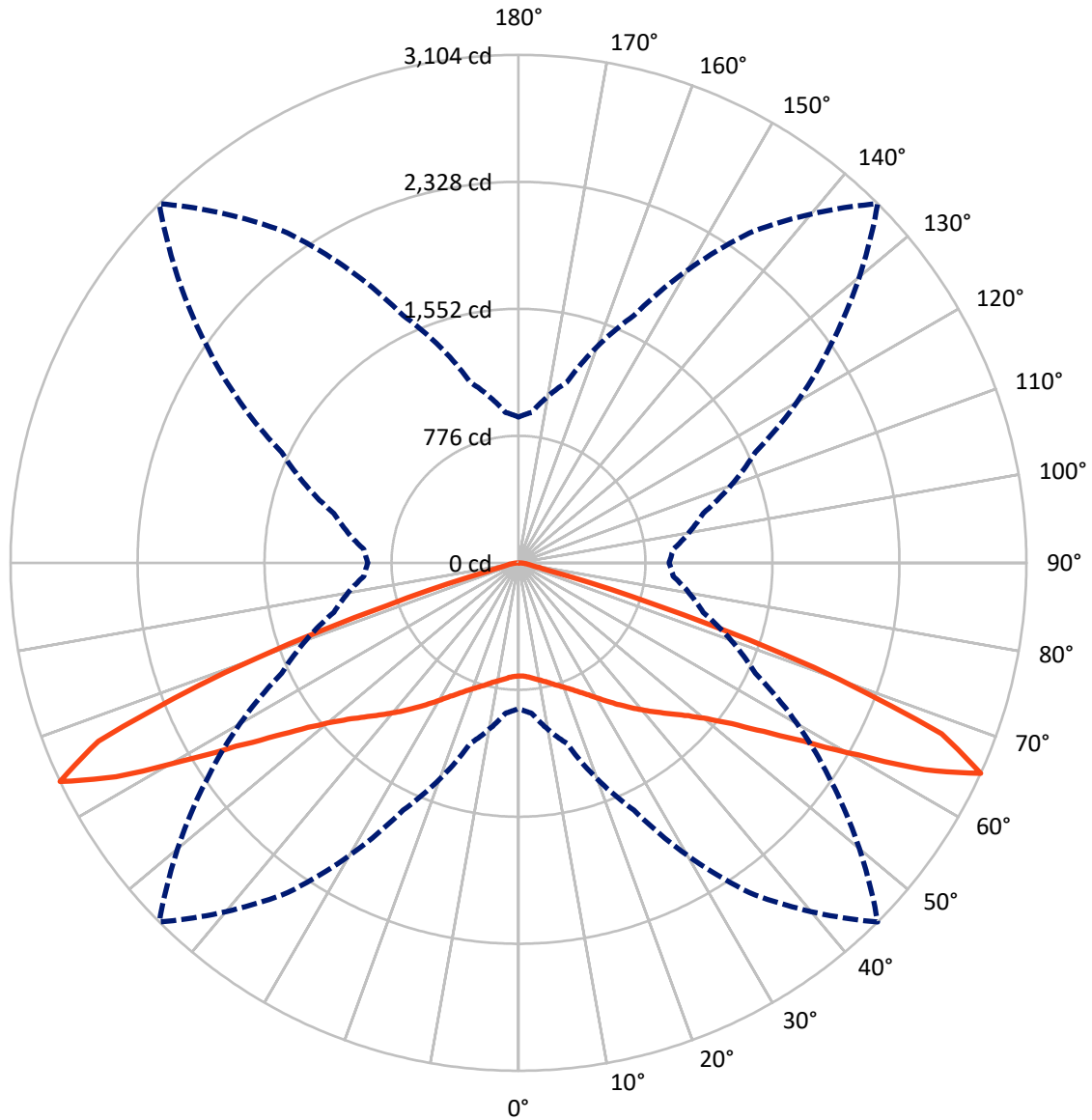
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7 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 | 2864.5 | 0.0 | 2864.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 2864.5 | 0.0 | 2864.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 5729.0 | 0.0 | 5729.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 67.9 | 1.2 |
| 10°-20° | 218.2 | 3.8 |
| 20°-30° | 409.4 | 7.1 |
| 30°-40° | 677.0 | 11.8 |
| 40°-50° | 1048.6 | 18.3 |
| 50°-60° | 1608.2 | 28.1 |
| 60°-70° | 1500.6 | 26.2 |
| 70°-80° | 174.7 | 3.0 |
| 80°-90° | 24.5 | 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° | 5729.0 | 100.0 |
| 0°-180° | 5729.0 | 100.0 |

Coefficient of Utilization



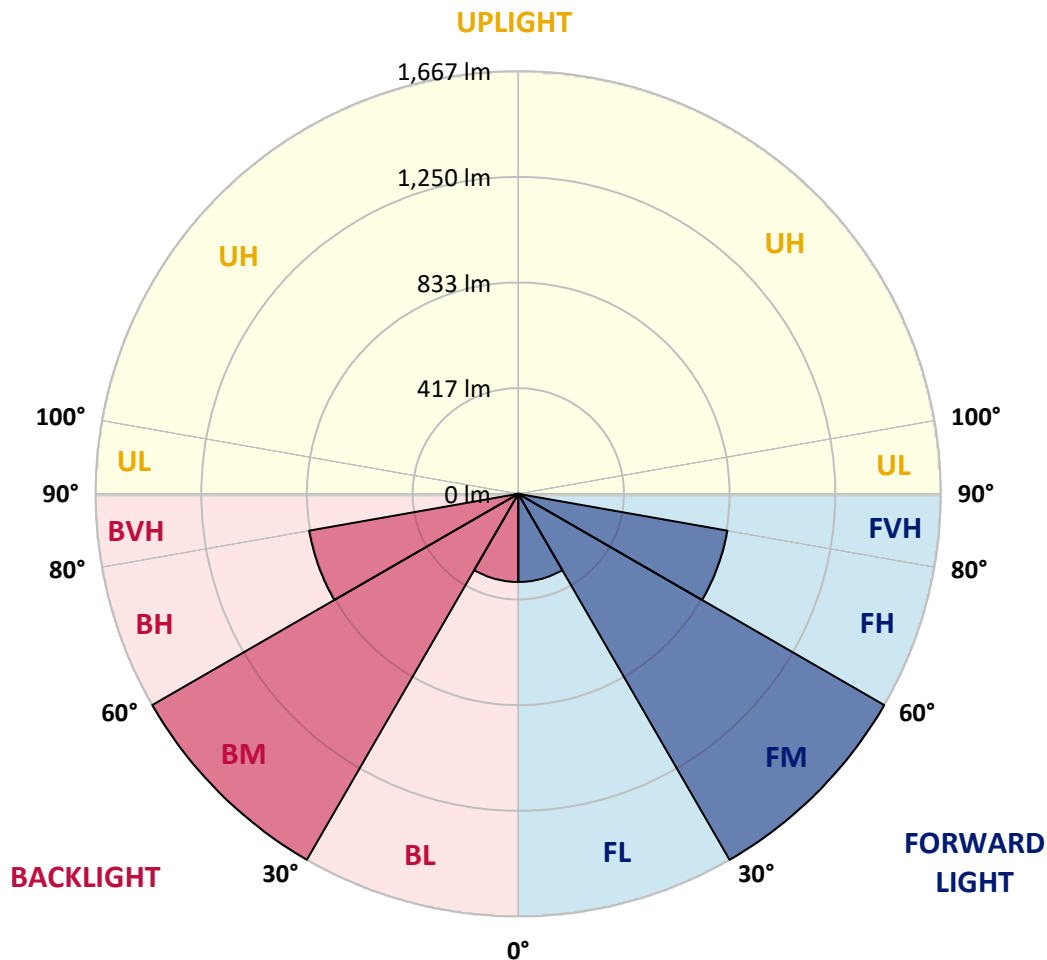
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 347.7 | 6.1 | | | |
| FM (30°-60°) | 1666.9 | 29.1 | | | |
| FH (60°-80°) | 837.6 | 14.6 | | | G1/1800 |
| FVH (80°-90°) | 12.3 | 0.2 | | | G1/100 |
| BL (0°-30°) | 347.7 | 6.1 | B1/500 | | |
| BM (30°-60°) | 1666.9 | 29.1 | B2/2500 | | |
| BH (60°-80°) | 837.6 | 14.6 | B2/1000 | | G1/1800 |
| BVH (80°-90°) | 12.3 | 0.2 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 691.8 | 691.8 | 691.8 | 691.8 | 691.8 | 691.8 | 691.8 | 691.8 | 691.8 | 691.8 | 691.8 |
| 2.5° | 694.1 | 693.8 | 694.1 | 694.3 | 693.2 | 693.8 | 693.6 | 694.5 | 694.9 | 694.5 | 694.5 |
| 5° | 702.1 | 701.5 | 702.3 | 703.3 | 701.7 | 702.1 | 701.5 | 702.7 | 703.1 | 702.3 | 702.9 |
| 7.5° | 713.1 | 713.3 | 714.1 | 715.8 | 714.9 | 715.6 | 714.5 | 714.7 | 714.5 | 713.3 | 713.5 |
| 10° | 725.1 | 725.3 | 726.7 | 728.9 | 729.3 | 729.3 | 728.6 | 728.0 | 727.2 | 726.5 | 726.7 |
| 12.5° | 739.6 | 740.5 | 741.5 | 744.3 | 744.3 | 745.9 | 745.5 | 744.0 | 742.6 | 741.5 | 741.5 |
| 15° | 759.2 | 759.0 | 760.1 | 763.0 | 764.3 | 766.8 | 766.8 | 764.7 | 763.0 | 761.8 | 761.5 |
| 17.5° | 779.7 | 780.3 | 781.0 | 784.5 | 786.6 | 789.4 | 789.8 | 788.1 | 786.9 | 785.4 | 784.5 |
| 20° | 803.7 | 804.6 | 807.7 | 809.0 | 810.9 | 813.6 | 814.5 | 814.1 | 813.0 | 812.2 | 812.4 |
| 22.5° | 831.6 | 834.1 | 836.0 | 837.9 | 840.2 | 842.1 | 843.0 | 844.4 | 843.2 | 842.7 | 842.3 |
| 25° | 865.5 | 867.2 | 871.0 | 874.4 | 875.9 | 876.5 | 877.6 | 879.6 | 879.4 | 878.0 | 878.0 |
| 27.5° | 903.9 | 907.1 | 911.9 | 916.8 | 916.8 | 914.9 | 918.7 | 922.0 | 920.8 | 919.1 | 916.8 |
| 30° | 950.5 | 953.5 | 959.0 | 965.9 | 962.5 | 961.1 | 966.3 | 972.2 | 970.5 | 967.6 | 967.2 |
| 32.5° | 1000.7 | 1003.5 | 1010.8 | 1018.2 | 1013.8 | 1011.9 | 1017.4 | 1026.0 | 1022.9 | 1017.2 | 1013.8 |
| 35° | 1055.1 | 1057.9 | 1068.2 | 1077.1 | 1069.7 | 1066.5 | 1071.1 | 1080.4 | 1075.0 | 1064.4 | 1061.7 |
| 37.5° | 1114.2 | 1115.7 | 1129.1 | 1138.2 | 1133.1 | 1124.5 | 1130.2 | 1137.0 | 1132.5 | 1119.5 | 1114.4 |
| 40° | 1175.6 | 1181.2 | 1196.6 | 1207.2 | 1198.3 | 1184.8 | 1194.3 | 1203.8 | 1196.9 | 1180.4 | 1171.7 |
| 42.5° | 1247.3 | 1251.5 | 1272.1 | 1281.6 | 1267.1 | 1248.1 | 1261.0 | 1274.0 | 1267.1 | 1251.1 | 1243.5 |
| 45° | 1321.9 | 1328.4 | 1352.9 | 1362.4 | 1341.5 | 1317.3 | 1333.1 | 1355.7 | 1355.2 | 1332.2 | 1324.2 |
| 47.5° | 1403.1 | 1409.6 | 1438.8 | 1451.4 | 1428.8 | 1396.4 | 1418.7 | 1450.6 | 1448.4 | 1423.1 | 1416.6 |
| 50° | 1496.9 | 1503.7 | 1540.2 | 1556.0 | 1534.9 | 1497.2 | 1530.7 | 1558.8 | 1554.7 | 1523.5 | 1524.0 |
| 52.5° | 1614.6 | 1614.2 | 1659.6 | 1687.0 | 1665.3 | 1632.1 | 1662.9 | 1690.3 | 1673.0 | 1629.8 | 1628.5 |
| 55° | 1717.6 | 1723.9 | 1780.2 | 1832.1 | 1830.8 | 1818.1 | 1830.4 | 1831.6 | 1782.1 | 1724.7 | 1717.6 |
| 57.5° | 1785.3 | 1797.3 | 1876.6 | 1970.6 | 2040.9 | 2057.9 | 2033.9 | 1961.3 | 1845.4 | 1753.6 | 1742.4 |
| 60° | 1743.7 | 1762.0 | 1886.5 | 2078.0 | 2285.3 | 2384.8 | 2249.6 | 2024.2 | 1796.2 | 1668.2 | 1653.0 |
| 62.5° | 1462.6 | 1493.4 | 1675.8 | 2026.1 | 2495.6 | 2786.4 | 2405.9 | 1923.2 | 1600.3 | 1424.0 | 1398.0 |
| 65° | 890.8 | 923.3 | 1143.1 | 1667.6 | 2461.6 | 3104.4 | 2334.6 | 1596.3 | 1168.0 | 948.8 | 920.6 |
| 67.5° | 296.9 | 306.4 | 435.9 | 921.8 | 1934.6 | 2789.3 | 1937.9 | 955.6 | 508.3 | 337.0 | 327.1 |
| 70° | 116.2 | 117.1 | 138.3 | 267.2 | 913.6 | 1915.8 | 1008.1 | 271.9 | 144.5 | 114.3 | 116.8 |
| 72.5° | 85.4 | 85.8 | 91.7 | 111.6 | 238.1 | 844.0 | 246.7 | 112.2 | 89.2 | 80.1 | 80.1 |
| 75° | 68.7 | 68.7 | 72.8 | 81.4 | 106.7 | 193.6 | 108.2 | 80.4 | 69.8 | 63.9 | 63.1 |
| 77.5° | 54.2 | 55.3 | 58.6 | 64.1 | 72.3 | 93.2 | 74.9 | 63.7 | 56.3 | 50.8 | 49.6 |
| 80° | 40.3 | 41.5 | 46.8 | 49.4 | 51.9 | 64.7 | 55.3 | 49.8 | 44.5 | 38.0 | 36.9 |
| 82.5° | 26.4 | 27.6 | 34.2 | 35.8 | 35.2 | 42.2 | 37.3 | 36.7 | 32.7 | 24.5 | 23.4 |
| 85° | 17.3 | 17.7 | 22.8 | 23.8 | 21.9 | 19.2 | 23.8 | 25.1 | 22.8 | 16.0 | 15.4 |
| 87.5° | 8.2 | 8.2 | 11.6 | 10.8 | 9.9 | 8.0 | 10.8 | 12.7 | 12.9 | 7.8 | 7.6 |
| 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)