

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: McGRAW-EDISON

Report Number: P636777

Luminaire Tested: GWS-SA4B-740-U-SLL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636777
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-37)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4B-740-U-SLL-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13565.9 lumens
Efficiency: N/A
Efficacy: 143.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

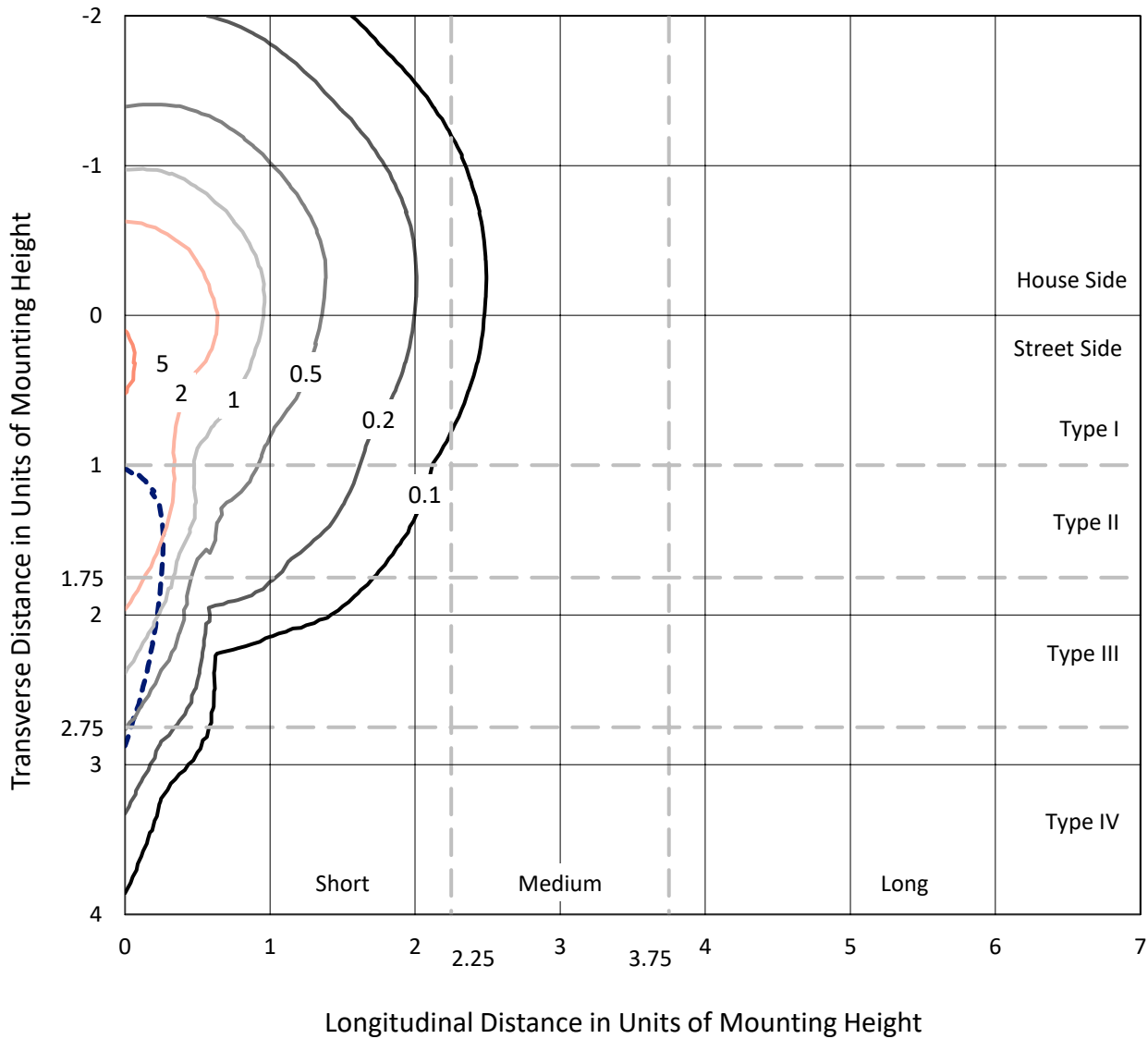
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P636777
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Iso-Footcandle Lines of Horizontal Illumination

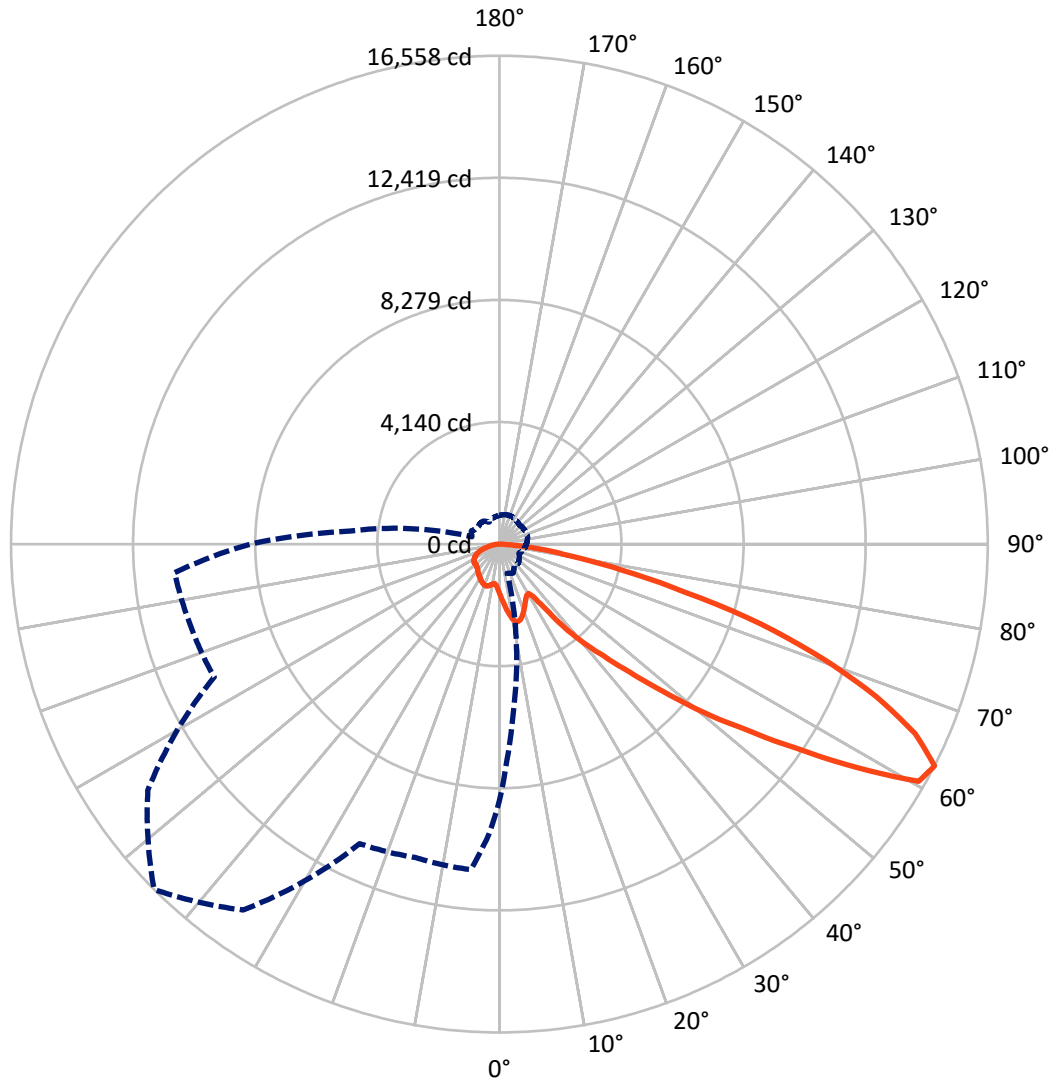
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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CATALOG NUMBER: GWS-SA4B-740-U-SLL-W

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3243.6 | 0.0 | 3243.6 |
| | % Fixture | 23.9 | 0.0 | 23.9 |
| Street Side | Lumens | 10322.3 | 0.0 | 10322.3 |
| | % Fixture | 76.1 | 0.0 | 76.1 |
| Total | Lumens | 13565.9 | 0.0 | 13565.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 166.6 | 1.2 |
| 10°-20° | 541.5 | 4.0 |
| 20°-30° | 852.5 | 6.3 |
| 30°-40° | 1168.5 | 8.6 |
| 40°-50° | 1823.2 | 13.4 |
| 50°-60° | 3143.6 | 23.2 |
| 60°-70° | 3643.1 | 26.9 |
| 70°-80° | 1923.0 | 14.2 |
| 80°-90° | 303.8 | 2.2 |
| 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° | 13565.9 | 100.0 |
| 0°-180° | 13565.9 | 100.0 |

Coefficient of Utilization



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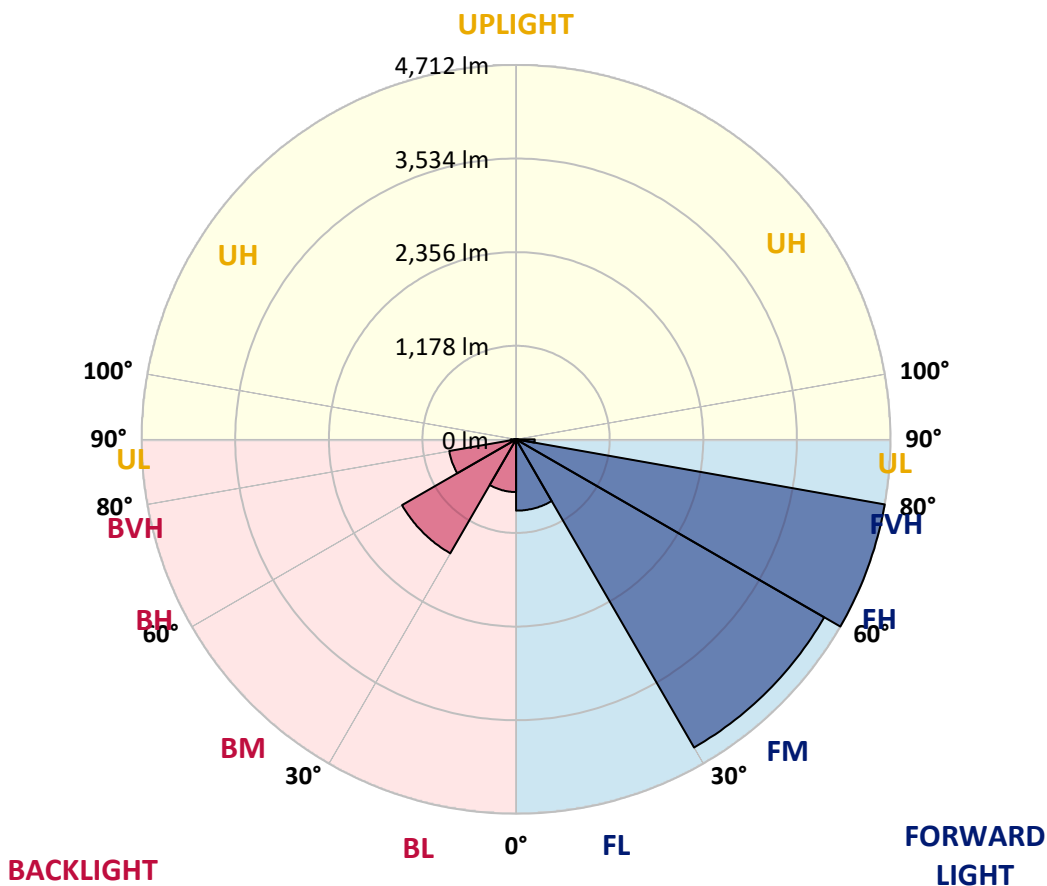
CATALOG NUMBER: GWS-SA4B-740-U-SLL-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 897.2 | 6.6 | | | |
| FM (30°-60°) | 4478.6 | 33.0 | | | |
| FH (60°-80°) | 4712.0 | 34.7 | | | G2/5000 |
| FVH (80°-90°) | 234.5 | 1.7 | | | G3/500 |
| BL (0°-30°) | 663.4 | 4.9 | B2/1000 | | |
| BM (30°-60°) | 1656.8 | 12.2 | B2/2500 | | |
| BH (60°-80°) | 854.1 | 6.3 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 69.3 | 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-G3

Type III Short





REPORT NUMBER: P636777
 CATALOG NUMBER: GWS-SA4B-740-U-SLL-W

CANDELA DISTRIBUTION (FULL):

| | 0° | 2° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1691.4 | 1691.4 | 1691.4 | 1691.4 | 1691.4 | 1691.4 | 1691.4 | 1691.4 | 1691.4 | 1691.4 | 1691.4 |
| 2.5° | 1837.7 | 1830.4 | 1820.1 | 1784.8 | 1763.0 | 1738.1 | 1712.1 | 1682.0 | 1647.8 | 1623.9 | 1600.1 |
| 5° | 1993.3 | 1981.9 | 1957.0 | 1873.0 | 1814.9 | 1751.6 | 1698.7 | 1638.5 | 1579.3 | 1538.9 | 1498.4 |
| 7.5° | 2142.8 | 2128.2 | 2089.8 | 1961.2 | 1866.8 | 1775.4 | 1695.5 | 1608.4 | 1520.2 | 1460.0 | 1412.3 |
| 10° | 2292.2 | 2262.1 | 2213.3 | 2045.2 | 1920.7 | 1814.9 | 1723.6 | 1616.7 | 1499.4 | 1417.4 | 1366.6 |
| 12.5° | 2406.3 | 2378.3 | 2325.4 | 2122.0 | 1974.7 | 1841.8 | 1739.1 | 1640.5 | 1540.9 | 1453.8 | 1401.9 |
| 15° | 2513.2 | 2476.9 | 2416.7 | 2193.6 | 2019.3 | 1840.8 | 1708.0 | 1621.9 | 1607.3 | 1585.5 | 1518.1 |
| 17.5° | 2590.0 | 2556.8 | 2494.5 | 2251.7 | 2044.2 | 1808.6 | 1621.9 | 1571.0 | 1636.4 | 1702.8 | 1638.5 |
| 20° | 2657.4 | 2619.1 | 2555.8 | 2292.2 | 2049.4 | 1737.0 | 1517.1 | 1518.1 | 1620.8 | 1712.1 | 1696.6 |
| 22.5° | 2714.5 | 2672.0 | 2615.9 | 2337.8 | 2047.3 | 1637.4 | 1425.7 | 1488.0 | 1590.7 | 1662.3 | 1664.4 |
| 25° | 2785.1 | 2749.8 | 2703.1 | 2405.3 | 2047.3 | 1535.7 | 1359.3 | 1451.7 | 1539.9 | 1600.1 | 1598.0 |
| 27.5° | 2871.2 | 2847.3 | 2808.9 | 2508.0 | 2066.0 | 1450.6 | 1322.0 | 1405.0 | 1474.5 | 1526.4 | 1525.4 |
| 30° | 2967.7 | 2945.9 | 2916.9 | 2617.0 | 2098.1 | 1387.4 | 1301.2 | 1346.9 | 1397.7 | 1439.2 | 1439.2 |
| 32.5° | 3066.3 | 3058.0 | 3026.9 | 2704.1 | 2073.2 | 1367.6 | 1283.6 | 1288.8 | 1315.8 | 1350.0 | 1346.9 |
| 35° | 3203.3 | 3195.0 | 3155.5 | 2771.6 | 1965.3 | 1339.6 | 1255.6 | 1229.6 | 1232.7 | 1254.5 | 1261.8 |
| 37.5° | 3403.5 | 3391.1 | 3333.0 | 2850.5 | 1802.4 | 1269.1 | 1209.9 | 1167.4 | 1158.0 | 1167.4 | 1180.9 |
| 40° | 3645.3 | 3626.6 | 3547.8 | 2957.3 | 1614.6 | 1173.6 | 1138.3 | 1103.0 | 1087.5 | 1090.6 | 1106.1 |
| 42.5° | 3948.3 | 3908.9 | 3795.8 | 3070.4 | 1428.9 | 1089.5 | 1058.4 | 1036.6 | 1019.0 | 1016.9 | 1047.0 |
| 45° | 4440.1 | 4332.2 | 4152.7 | 3171.1 | 1272.2 | 1044.9 | 986.8 | 971.3 | 956.7 | 965.0 | 1000.3 |
| 47.5° | 5299.3 | 5100.1 | 4750.4 | 3257.2 | 1176.7 | 1046.0 | 929.7 | 913.1 | 912.1 | 928.7 | 968.1 |
| 50° | 6480.2 | 6192.8 | 5653.2 | 3315.3 | 1126.9 | 1058.4 | 895.5 | 868.5 | 888.2 | 904.8 | 942.2 |
| 52.5° | 7611.2 | 7172.3 | 6530.0 | 3314.3 | 1105.1 | 1060.5 | 904.8 | 827.0 | 888.2 | 892.4 | 927.7 |
| 55° | 8577.3 | 7782.5 | 6766.6 | 2973.9 | 1074.0 | 1052.2 | 941.2 | 794.8 | 876.8 | 892.4 | 920.4 |
| 57.5° | 9345.2 | 8170.5 | 6748.9 | 2402.2 | 1168.4 | 1006.5 | 962.9 | 787.6 | 843.6 | 894.5 | 926.6 |
| 60° | 9260.1 | 7993.1 | 6314.2 | 1474.5 | 1159.1 | 925.6 | 959.8 | 801.1 | 787.6 | 866.4 | 919.4 |
| 62.5° | 8694.6 | 7357.0 | 5566.0 | 1023.1 | 1088.5 | 878.9 | 909.0 | 824.9 | 735.7 | 826.0 | 884.1 |
| 65° | 7902.8 | 6536.2 | 4638.3 | 784.5 | 901.7 | 881.0 | 822.9 | 808.3 | 690.0 | 761.6 | 823.9 |
| 67.5° | 6855.8 | 5518.3 | 3661.9 | 621.6 | 628.8 | 762.7 | 747.1 | 718.1 | 647.5 | 704.6 | 760.6 |
| 70° | 5154.1 | 4027.2 | 2519.4 | 500.2 | 476.3 | 637.1 | 671.4 | 645.4 | 606.0 | 622.6 | 681.7 |
| 72.5° | 3631.8 | 2629.4 | 1380.1 | 396.4 | 367.3 | 489.8 | 583.2 | 579.0 | 535.4 | 547.9 | 606.0 |
| 75° | 2699.0 | 1860.5 | 862.3 | 313.4 | 298.8 | 350.7 | 488.7 | 501.2 | 464.9 | 479.4 | 524.0 |
| 77.5° | 1796.2 | 1204.7 | 479.4 | 232.4 | 232.4 | 256.3 | 364.2 | 422.3 | 395.3 | 406.8 | 437.9 |
| 80° | 991.0 | 613.3 | 239.7 | 152.5 | 156.7 | 176.4 | 265.6 | 304.0 | 305.1 | 333.1 | 341.4 |
| 82.5° | 313.4 | 195.1 | 106.9 | 89.2 | 84.1 | 100.7 | 171.2 | 217.9 | 203.4 | 259.4 | 238.7 |
| 85° | 71.6 | 45.7 | 19.7 | 19.7 | 21.8 | 33.2 | 65.4 | 116.2 | 148.4 | 178.5 | 129.7 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 45.7 | 67.4 | 60.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P636777
 CATALOG NUMBER: GWS-SA4B-740-U-SLL-W

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1691.4 | 1691.4 | 1691.4 | 1691.4 | 1691.4 | 1691.4 | 1691.4 | 1691.4 | 1691.4 | 1691.4 | 1691.4 |
| 2.5° | 1585.5 | 1564.8 | 1558.6 | 1540.9 | 1538.9 | 1522.2 | 1516.0 | 1516.0 | 1523.3 | 1523.3 | 1530.5 |
| 5° | 1481.8 | 1455.8 | 1441.3 | 1420.6 | 1415.4 | 1402.9 | 1394.6 | 1395.7 | 1405.0 | 1411.2 | 1423.7 |
| 7.5° | 1390.5 | 1372.8 | 1362.4 | 1353.1 | 1351.0 | 1349.0 | 1339.6 | 1338.6 | 1341.7 | 1351.0 | 1360.4 |
| 10° | 1352.1 | 1339.6 | 1342.7 | 1350.0 | 1361.4 | 1367.6 | 1359.3 | 1355.2 | 1352.1 | 1358.3 | 1366.6 |
| 12.5° | 1389.4 | 1377.0 | 1383.2 | 1395.7 | 1411.2 | 1417.4 | 1414.3 | 1413.3 | 1416.4 | 1440.3 | 1457.9 |
| 15° | 1471.4 | 1447.5 | 1439.2 | 1444.4 | 1456.9 | 1463.1 | 1460.0 | 1464.1 | 1483.9 | 1546.1 | 1590.7 |
| 17.5° | 1573.1 | 1515.0 | 1481.8 | 1472.4 | 1477.6 | 1482.8 | 1482.8 | 1493.2 | 1527.4 | 1618.8 | 1674.8 |
| 20° | 1628.1 | 1552.3 | 1496.3 | 1473.5 | 1475.6 | 1480.7 | 1480.7 | 1495.3 | 1533.7 | 1631.2 | 1667.5 |
| 22.5° | 1613.6 | 1544.0 | 1475.6 | 1450.6 | 1451.7 | 1455.8 | 1455.8 | 1468.3 | 1502.5 | 1588.7 | 1605.3 |
| 25° | 1556.5 | 1495.3 | 1427.8 | 1406.0 | 1408.1 | 1415.4 | 1413.3 | 1420.6 | 1446.5 | 1517.1 | 1526.4 |
| 27.5° | 1488.0 | 1434.0 | 1367.6 | 1351.0 | 1360.4 | 1374.9 | 1362.4 | 1363.5 | 1387.4 | 1446.5 | 1447.5 |
| 30° | 1414.3 | 1369.7 | 1310.6 | 1298.1 | 1315.8 | 1323.0 | 1311.6 | 1311.6 | 1335.5 | 1375.9 | 1374.9 |
| 32.5° | 1334.4 | 1306.4 | 1263.9 | 1250.4 | 1270.1 | 1281.5 | 1267.0 | 1269.1 | 1287.7 | 1314.7 | 1304.3 |
| 35° | 1259.7 | 1245.2 | 1225.5 | 1216.1 | 1228.6 | 1239.0 | 1229.6 | 1233.8 | 1251.4 | 1258.7 | 1244.2 |
| 37.5° | 1188.1 | 1186.0 | 1188.1 | 1188.1 | 1191.2 | 1194.3 | 1188.1 | 1198.5 | 1214.1 | 1204.7 | 1188.1 |
| 40° | 1125.9 | 1134.2 | 1153.9 | 1148.7 | 1145.6 | 1148.7 | 1144.5 | 1162.2 | 1177.7 | 1161.1 | 1141.4 |
| 42.5° | 1074.0 | 1089.5 | 1119.6 | 1119.6 | 1113.4 | 1115.5 | 1113.4 | 1135.2 | 1146.6 | 1123.8 | 1102.0 |
| 45° | 1029.4 | 1052.2 | 1090.6 | 1095.8 | 1085.4 | 1085.4 | 1089.5 | 1116.5 | 1120.7 | 1089.5 | 1066.7 |
| 47.5° | 998.2 | 1026.2 | 1069.8 | 1079.2 | 1063.6 | 1062.6 | 1074.0 | 1103.0 | 1103.0 | 1066.7 | 1040.8 |
| 50° | 976.4 | 1007.6 | 1059.5 | 1071.9 | 1056.3 | 1052.2 | 1070.9 | 1098.9 | 1092.7 | 1049.1 | 1023.1 |
| 52.5° | 961.9 | 994.1 | 1058.4 | 1076.1 | 1065.7 | 1061.5 | 1080.2 | 1099.9 | 1084.4 | 1037.7 | 1010.7 |
| 55° | 952.6 | 987.9 | 1061.5 | 1076.1 | 1064.6 | 1057.4 | 1076.1 | 1093.7 | 1085.4 | 1031.4 | 1005.5 |
| 57.5° | 957.8 | 993.0 | 1057.4 | 1064.6 | 1051.2 | 1038.7 | 1060.5 | 1085.4 | 1082.3 | 1033.5 | 1007.6 |
| 60° | 949.5 | 981.6 | 1034.5 | 1036.6 | 1013.8 | 994.1 | 1026.2 | 1063.6 | 1063.6 | 1026.2 | 1003.4 |
| 62.5° | 911.1 | 943.2 | 989.9 | 992.0 | 966.1 | 944.3 | 981.6 | 1026.2 | 1025.2 | 995.1 | 971.3 |
| 65° | 847.8 | 877.9 | 930.8 | 936.0 | 910.0 | 887.2 | 925.6 | 967.1 | 970.2 | 943.2 | 922.5 |
| 67.5° | 778.2 | 805.2 | 844.7 | 865.4 | 843.6 | 819.8 | 855.0 | 894.5 | 893.4 | 861.3 | 839.5 |
| 70° | 695.2 | 720.1 | 756.5 | 774.1 | 760.6 | 737.8 | 769.9 | 790.7 | 781.4 | 765.8 | 751.3 |
| 72.5° | 613.3 | 637.1 | 671.4 | 671.4 | 656.8 | 635.0 | 644.4 | 681.7 | 693.2 | 681.7 | 672.4 |
| 75° | 527.1 | 547.9 | 571.8 | 576.9 | 544.8 | 505.3 | 548.9 | 581.1 | 594.6 | 589.4 | 578.0 |
| 77.5° | 438.9 | 454.5 | 489.8 | 480.4 | 420.3 | 399.5 | 434.8 | 482.5 | 491.9 | 488.7 | 473.2 |
| 80° | 338.3 | 347.6 | 385.0 | 366.3 | 319.6 | 306.1 | 321.7 | 359.0 | 361.1 | 350.7 | 331.0 |
| 82.5° | 227.2 | 239.7 | 264.6 | 228.3 | 227.2 | 214.8 | 202.3 | 206.5 | 225.2 | 223.1 | 209.6 |
| 85° | 116.2 | 122.4 | 146.3 | 137.0 | 117.3 | 101.7 | 96.5 | 102.7 | 92.4 | 84.1 | 72.6 |
| 87.5° | 48.8 | 52.9 | 72.6 | 40.5 | 12.5 | 0.0 | 0.0 | 6.2 | 9.3 | 13.5 | 14.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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 CATALOG NUMBER: GWS-SA4B-740-U-SLL-W

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| 0° | 1691.4 | 1691.4 | 1691.4 | 1691.4 | 1691.4 | 1691.4 | 1691.4 | 1691.4 | 1691.4 | 1691.4 | 1691.4 |
| 2.5° | 1547.2 | 1558.6 | 1586.6 | 1621.9 | 1656.1 | 1691.4 | 1729.8 | 1753.6 | 1782.7 | 1820.1 | 1821.1 |
| 5° | 1439.2 | 1465.2 | 1505.6 | 1559.6 | 1615.6 | 1680.0 | 1754.7 | 1816.9 | 1891.7 | 1950.8 | 1974.7 |
| 7.5° | 1372.8 | 1410.2 | 1461.0 | 1529.5 | 1603.2 | 1683.1 | 1780.6 | 1885.4 | 2007.9 | 2086.7 | 2133.4 |
| 10° | 1379.1 | 1436.1 | 1487.0 | 1545.1 | 1611.5 | 1697.6 | 1823.2 | 1962.2 | 2112.7 | 2216.4 | 2274.6 |
| 12.5° | 1490.1 | 1550.3 | 1540.9 | 1537.8 | 1582.4 | 1687.2 | 1857.4 | 2040.0 | 2223.7 | 2327.5 | 2397.0 |
| 15° | 1630.2 | 1653.0 | 1564.8 | 1498.4 | 1525.4 | 1649.9 | 1876.1 | 2109.6 | 2316.1 | 2442.7 | 2511.1 |
| 17.5° | 1701.8 | 1656.1 | 1549.2 | 1449.6 | 1442.3 | 1592.8 | 1885.4 | 2180.1 | 2419.8 | 2546.4 | 2619.1 |
| 20° | 1668.6 | 1602.1 | 1511.9 | 1417.4 | 1365.6 | 1515.0 | 1880.2 | 2236.2 | 2514.3 | 2655.4 | 2714.5 |
| 22.5° | 1597.0 | 1538.9 | 1468.3 | 1378.0 | 1303.3 | 1429.9 | 1866.8 | 2292.2 | 2598.3 | 2740.5 | 2792.3 |
| 25° | 1519.1 | 1475.6 | 1417.4 | 1338.6 | 1268.0 | 1355.2 | 1857.4 | 2366.9 | 2694.8 | 2830.7 | 2863.9 |
| 27.5° | 1441.3 | 1409.1 | 1361.4 | 1300.2 | 1259.7 | 1303.3 | 1860.5 | 2464.4 | 2819.3 | 2948.0 | 2934.5 |
| 30° | 1364.5 | 1336.5 | 1303.3 | 1276.3 | 1258.7 | 1290.8 | 1852.2 | 2568.2 | 2956.3 | 3075.6 | 2995.7 |
| 32.5° | 1291.9 | 1265.9 | 1245.2 | 1249.3 | 1259.7 | 1296.0 | 1809.7 | 2662.6 | 3081.9 | 3183.5 | 3062.1 |
| 35° | 1229.6 | 1202.6 | 1202.6 | 1217.2 | 1255.6 | 1278.4 | 1699.7 | 2736.3 | 3220.9 | 3322.6 | 3156.6 |
| 37.5° | 1171.5 | 1147.7 | 1163.2 | 1187.1 | 1223.4 | 1230.7 | 1558.6 | 2807.9 | 3423.2 | 3518.7 | 3302.9 |
| 40° | 1120.7 | 1096.8 | 1124.8 | 1154.9 | 1173.6 | 1170.5 | 1415.4 | 2907.5 | 3661.9 | 3760.5 | 3496.9 |
| 42.5° | 1080.2 | 1058.4 | 1083.3 | 1121.7 | 1124.8 | 1127.9 | 1310.6 | 3003.0 | 3939.0 | 4064.5 | 3831.0 |
| 45° | 1047.0 | 1031.4 | 1043.9 | 1082.3 | 1082.3 | 1130.0 | 1245.2 | 3082.9 | 4356.1 | 4578.2 | 4444.3 |
| 47.5° | 1021.1 | 1011.7 | 1017.9 | 1030.4 | 1051.2 | 1167.4 | 1203.7 | 3144.1 | 5115.7 | 5551.5 | 5416.6 |
| 50° | 1006.5 | 997.2 | 1005.5 | 979.6 | 1041.8 | 1186.0 | 1190.2 | 3190.8 | 6117.0 | 6799.8 | 6632.7 |
| 52.5° | 994.1 | 991.0 | 996.2 | 936.0 | 1062.6 | 1173.6 | 1179.8 | 3128.5 | 6788.4 | 8028.4 | 8193.4 |
| 55° | 989.9 | 992.0 | 967.1 | 903.8 | 1087.5 | 1132.1 | 1148.7 | 2683.4 | 6971.0 | 9087.8 | 10112.0 |
| 57.5° | 992.0 | 985.8 | 922.5 | 906.9 | 1088.5 | 1049.1 | 1193.3 | 1914.5 | 6705.4 | 9548.6 | 11989.1 |
| 60° | 984.7 | 953.6 | 868.5 | 934.9 | 1040.8 | 951.5 | 1161.1 | 1248.3 | 6004.9 | 9194.7 | 12098.1 |
| 62.5° | 952.6 | 906.9 | 821.8 | 950.5 | 955.7 | 893.4 | 1054.3 | 961.9 | 5071.0 | 8437.2 | 11048.0 |
| 65° | 905.9 | 844.7 | 782.4 | 918.3 | 869.6 | 866.4 | 792.8 | 771.0 | 4078.0 | 7535.5 | 10051.8 |
| 67.5° | 829.1 | 767.9 | 753.3 | 844.7 | 782.4 | 767.9 | 637.1 | 639.2 | 3254.1 | 6574.6 | 9050.5 |
| 70° | 741.9 | 680.7 | 692.1 | 763.7 | 696.3 | 638.2 | 515.7 | 532.3 | 2468.6 | 5477.8 | 7700.5 |
| 72.5° | 684.9 | 602.9 | 603.9 | 672.4 | 612.2 | 516.8 | 424.4 | 438.9 | 1566.9 | 4128.9 | 6122.2 |
| 75° | 578.0 | 531.3 | 508.5 | 544.8 | 519.9 | 402.6 | 357.0 | 353.8 | 928.7 | 2959.4 | 4584.4 |
| 77.5° | 482.5 | 446.2 | 434.8 | 449.3 | 388.1 | 297.8 | 287.4 | 282.2 | 526.1 | 1895.8 | 3004.0 |
| 80° | 349.7 | 340.4 | 339.3 | 346.6 | 298.8 | 218.9 | 218.9 | 220.0 | 283.3 | 1029.4 | 1693.5 |
| 82.5° | 222.1 | 242.8 | 214.8 | 238.7 | 203.4 | 155.6 | 145.3 | 165.0 | 162.9 | 438.9 | 713.9 |
| 85° | 92.4 | 126.6 | 118.3 | 125.6 | 96.5 | 85.1 | 91.3 | 98.6 | 94.4 | 169.1 | 278.1 |
| 87.5° | 17.6 | 20.8 | 22.8 | 21.8 | 21.8 | 27.0 | 30.1 | 36.3 | 36.3 | 48.8 | 84.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P636777

CATALOG NUMBER: GWS-SA4B-740-U-SLL-W

CANDELA DISTRIBUTION (continued):

| | 285° | 295° | 305° | 315° | 325° | 335° | 345° | 355° | 358° | 360° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| 0° | 1691.4 | 1691.4 | 1691.4 | 1691.4 | 1691.4 | 1691.4 | 1691.4 | 1691.4 | 1691.4 | 1691.4 |
| 2.5° | 1860.5 | 1890.6 | 1884.4 | 1897.9 | 1880.2 | 1886.5 | 1851.2 | 1841.8 | 1835.6 | 1837.7 |
| 5° | 2051.5 | 2112.7 | 2124.1 | 2146.9 | 2131.4 | 2131.4 | 2069.1 | 2022.4 | 2005.8 | 1993.3 |
| 7.5° | 2245.5 | 2333.7 | 2391.8 | 2398.0 | 2389.7 | 2373.1 | 2282.9 | 2198.8 | 2168.7 | 2142.8 |
| 10° | 2417.7 | 2523.6 | 2589.0 | 2620.1 | 2604.5 | 2578.6 | 2466.5 | 2351.3 | 2315.0 | 2292.2 |
| 12.5° | 2549.5 | 2642.9 | 2686.5 | 2707.3 | 2705.2 | 2695.8 | 2604.5 | 2480.0 | 2441.6 | 2406.3 |
| 15° | 2634.6 | 2681.3 | 2664.7 | 2663.7 | 2678.2 | 2715.6 | 2687.5 | 2590.0 | 2545.4 | 2513.2 |
| 17.5° | 2689.6 | 2645.0 | 2571.3 | 2537.1 | 2568.2 | 2656.4 | 2720.7 | 2665.8 | 2625.3 | 2590.0 |
| 20° | 2709.3 | 2550.6 | 2443.7 | 2380.4 | 2416.7 | 2544.3 | 2703.1 | 2720.7 | 2686.5 | 2657.4 |
| 22.5° | 2686.5 | 2435.4 | 2290.1 | 2215.4 | 2250.7 | 2403.2 | 2651.2 | 2765.4 | 2742.5 | 2714.5 |
| 25° | 2630.5 | 2315.0 | 2140.7 | 2073.2 | 2111.6 | 2267.3 | 2558.9 | 2806.9 | 2807.9 | 2785.1 |
| 27.5° | 2560.9 | 2204.0 | 2035.9 | 1972.6 | 2009.9 | 2155.2 | 2468.6 | 2843.2 | 2879.5 | 2871.2 |
| 30° | 2490.4 | 2137.6 | 1986.1 | 1941.5 | 1969.5 | 2098.1 | 2376.2 | 2880.5 | 2953.2 | 2967.7 |
| 32.5° | 2458.2 | 2169.7 | 2103.3 | 2123.1 | 2086.7 | 2131.4 | 2343.0 | 2933.5 | 3042.4 | 3066.3 |
| 35° | 2500.8 | 2455.1 | 2623.2 | 2701.0 | 2572.4 | 2403.2 | 2385.6 | 3013.4 | 3168.0 | 3203.3 |
| 37.5° | 2707.3 | 3066.3 | 3317.4 | 3591.3 | 3368.2 | 2995.7 | 2596.2 | 3149.3 | 3347.5 | 3403.5 |
| 40° | 3156.6 | 3599.6 | 4053.1 | 4406.9 | 4069.7 | 3568.5 | 2996.8 | 3351.6 | 3594.5 | 3645.3 |
| 42.5° | 3579.9 | 4099.8 | 4724.5 | 5182.1 | 4744.2 | 4036.5 | 3428.4 | 3692.0 | 3920.3 | 3948.3 |
| 45° | 3995.0 | 4590.6 | 5537.0 | 6173.0 | 5578.5 | 4481.7 | 3869.4 | 4266.9 | 4439.1 | 4440.1 |
| 47.5° | 4481.7 | 5143.7 | 6555.9 | 7461.8 | 6685.6 | 4974.5 | 4283.5 | 5176.9 | 5416.6 | 5299.3 |
| 50° | 5063.8 | 5693.6 | 7605.0 | 8961.2 | 8035.6 | 5580.5 | 4809.6 | 6286.1 | 6613.0 | 6480.2 |
| 52.5° | 5843.1 | 6299.6 | 8761.0 | 10423.3 | 9507.0 | 6270.6 | 5572.2 | 7751.3 | 7859.2 | 7611.2 |
| 55° | 6939.9 | 7174.4 | 10244.8 | 12228.8 | 11149.7 | 7120.4 | 6687.7 | 9590.1 | 9288.1 | 8577.3 |
| 57.5° | 9437.5 | 8558.6 | 12150.0 | 14288.6 | 13008.1 | 8664.5 | 9132.5 | 11617.6 | 10543.7 | 9345.2 |
| 60° | 11527.4 | 10239.6 | 13913.0 | 16332.8 | 14600.9 | 10366.2 | 11427.8 | 11970.5 | 10497.0 | 9260.1 |
| 62.5° | 10822.8 | 10668.2 | 14549.0 | 16558.0 | 15144.7 | 11203.6 | 11001.3 | 11081.2 | 9812.1 | 8694.6 |
| 65° | 9495.6 | 9841.2 | 13981.4 | 15490.2 | 14541.8 | 10453.4 | 9951.2 | 10259.4 | 9028.7 | 7902.8 |
| 67.5° | 8712.2 | 8966.4 | 12971.8 | 13781.2 | 13446.0 | 9641.9 | 9134.5 | 8911.4 | 7812.5 | 6855.8 |
| 70° | 7911.1 | 8121.8 | 11554.4 | 11636.3 | 11737.0 | 8293.0 | 7469.1 | 6805.0 | 5823.4 | 5154.1 |
| 72.5° | 6836.1 | 6847.5 | 9762.3 | 9287.1 | 9478.0 | 6489.5 | 6012.2 | 5087.7 | 4238.8 | 3631.8 |
| 75° | 5735.2 | 5421.8 | 7727.5 | 6491.6 | 6874.5 | 5048.2 | 4992.2 | 3834.2 | 3197.0 | 2699.0 |
| 77.5° | 4372.7 | 4006.4 | 5644.9 | 4268.9 | 4828.2 | 3362.0 | 3753.2 | 2600.4 | 2249.6 | 1796.2 |
| 80° | 2935.5 | 2707.3 | 3119.2 | 2409.4 | 3158.6 | 2317.1 | 2447.8 | 1473.5 | 1277.4 | 991.0 |
| 82.5° | 1548.2 | 1322.0 | 1928.0 | 1428.9 | 1905.1 | 1273.2 | 918.3 | 455.5 | 388.1 | 313.4 |
| 85° | 599.8 | 694.2 | 945.3 | 508.5 | 738.8 | 454.5 | 265.6 | 113.1 | 94.4 | 71.6 |
| 87.5° | 116.2 | 179.5 | 98.6 | 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 |

LM-79-08: Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Report Prepared for

Cooper Lighting Solutions

MCGRAW, INVUE, LUMARK AND STREETWORKS

DATA VALID FOR LUMINAIRES UTILIZING SA LIGHT ENGINES

Report Number: SP1-2101-121-2

Luminaire Tested: IFLD-S-SA2A-740-U-T3R-HSS

Test Date: 03/05/2021

Test Information

Test Method: LM-79-08
 Report Number: SP1-2101-121-2
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1
 Measurement Geometry: 4π
 Issue Date: 03/05/2021
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: STREETWORKS
 Catalog Number: **IFLD-S-SA2A-740-U-T3R-HSS**
 Description: STREETWORKS INF FLOOD

SHIELD, DRIVER PROGRAMMED @ 615mA.

Spectral Parameters

| | | | | | |
|---------------------------|---------|-----------|------|------|-------|
| CCT (K): | 3905 | CRI (Ra): | 71.2 | R9: | -29.7 |
| CIE u': | 0.2273 | R1: | 68.9 | R10: | 46.2 |
| CIE v': | 0.5024 | R2: | 77.0 | R11: | 68.8 |
| Duv: | -0.0008 | R3: | 84.0 | R12: | 45.6 |
| CIE x: | 0.3841 | R4: | 71.6 | R13: | 69.5 |
| CIE y: | 0.3774 | R5: | 68.9 | R14: | 90.7 |
| CIE z: | 0.2385 | R6: | 68.3 | | |
| Peak Wavelength (nm): | 443 | R7: | 78.7 | | |
| Dominant Wavelength (nm): | 579 | R8: | 52.2 | | |
| Purity: | 28.7 | | | | |
| Rf: | 71.7 | | | | |
| Rg: | 96.9 | | | | |



Test Conditions

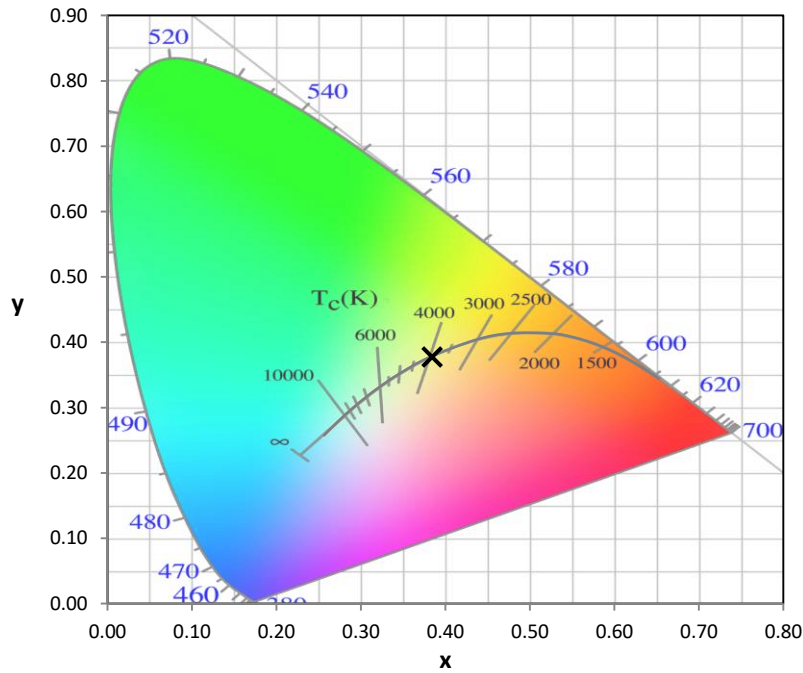
Stabilization Time: 211M
 Operation Time: 12H
 Room Temperature (°C) / RH%: 24.8/312%
 Sphere Temperature (°C): 24.1

REPORT NUMBER: SP1-2101-121-2

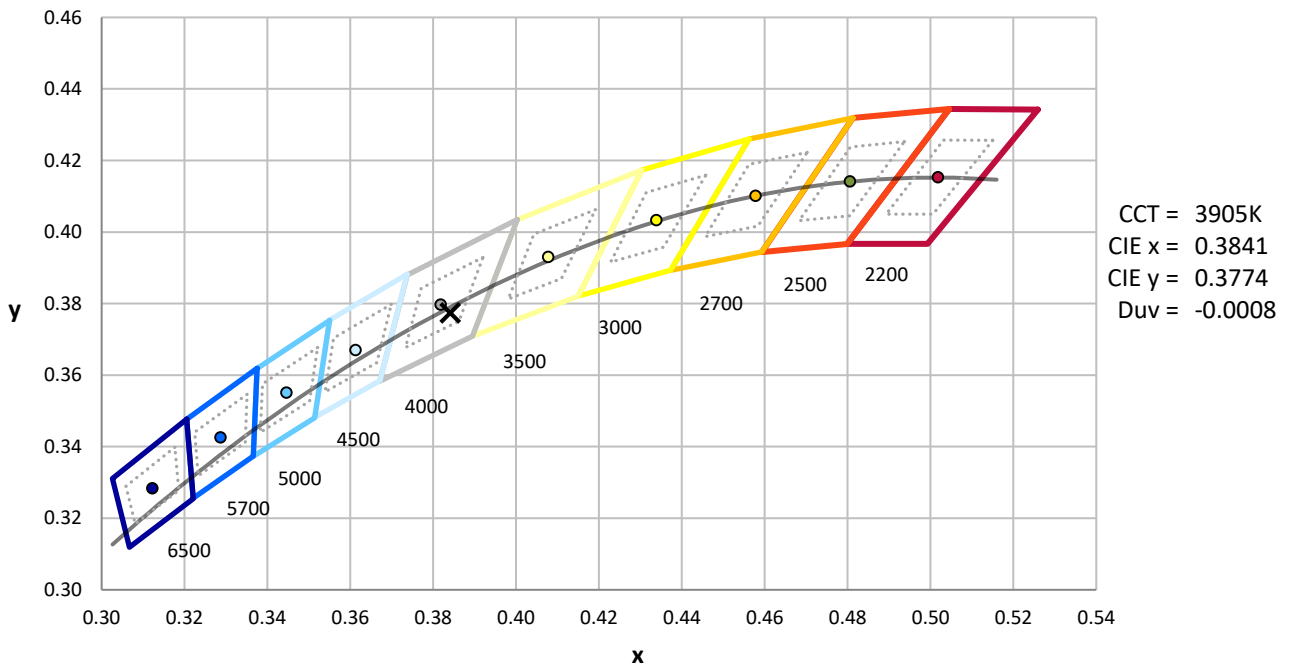
| Measurement and Test Equipment | | | |
|--------------------------------|-----------------------|------------------|----------------------|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | IN0058 | 1/31/2021 | 7/31/2021 |
| Power Meter | IN0071 | 12/1/2020 | 12/1/2021 |
| AC Power Source | IN0063 | 12/1/2020 | 12/1/2021 |
| DC Power Source | IN0208 | 12/1/2020 | 12/1/2021 |
| Sphere Thermometer | IN0085 | 12/1/2020 | 12/1/2021 |
| Room Thermometer | IN0046 | 12/1/2020 | 12/1/2021 |

REPORT NUMBER: SP1-2101-121-2

CIE 1931 Chromaticity Diagram



CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2101-121-2

Photopic Flux vs. Wavelength



#####

| λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) |
|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|
| 360 | 2304 | 0.0 | 490 | 19043 | 2.7 | 620 | 97577 | 25.4 | 750 | 4830 | 0.0 | 880 | 3505 | 0.0 |
| 365 | 2150 | 0.0 | 495 | 26606 | 4.8 | 625 | 90158 | 19.9 | 755 | 4664 | 0.0 | 885 | 2991 | 0.0 |
| 370 | 2146 | 0.0 | 500 | 36376 | 8.0 | 630 | 82240 | 14.9 | 760 | 4006 | 0.0 | 890 | 2327 | 0.0 |
| 375 | 2332 | 0.0 | 505 | 47714 | 13.3 | 635 | 74361 | 11.2 | 765 | 3715 | 0.0 | 895 | 2775 | 0.0 |
| 380 | 2527 | 0.0 | 510 | 58741 | 20.2 | 640 | 66994 | 8.0 | 770 | 3696 | 0.0 | 900 | 2141 | 0.0 |
| 385 | 2304 | 0.0 | 515 | 68716 | 28.5 | 645 | 60405 | 5.8 | 775 | 3117 | 0.0 | 905 | 2421 | 0.0 |
| 390 | 2064 | 0.0 | 520 | 77136 | 37.4 | 650 | 53806 | 3.9 | 780 | 3062 | 0.0 | 910 | 2200 | 0.0 |
| 395 | 1856 | 0.0 | 525 | 83567 | 44.9 | 655 | 47610 | 2.7 | 785 | 2907 | 0.0 | 915 | 2716 | 0.0 |
| 400 | 1856 | 0.0 | 530 | 89283 | 52.6 | 660 | 42018 | 1.8 | 790 | 2655 | 0.0 | 920 | 2656 | 0.0 |
| 405 | 2374 | 0.0 | 535 | 94097 | 58.4 | 665 | 36742 | 1.2 | 795 | 2467 | 0.0 | 925 | 2671 | 0.0 |
| 410 | 4084 | 0.0 | 540 | 96845 | 63.1 | 670 | 32105 | 0.7 | 800 | 2609 | 0.0 | 930 | 3292 | 0.0 |
| 415 | 8543 | 0.0 | 545 | 100829 | 67.1 | 675 | 27946 | 0.5 | 805 | 2293 | 0.0 | 935 | 3188 | 0.0 |
| 420 | 18394 | 0.1 | 550 | 105648 | 71.8 | 680 | 24146 | 0.3 | 810 | 2188 | 0.0 | 940 | 1997 | 0.0 |
| 425 | 37987 | 0.2 | 555 | 110017 | 75.1 | 685 | 21191 | 0.2 | 815 | 2386 | 0.0 | 945 | 2623 | 0.0 |
| 430 | 67605 | 0.5 | 560 | 114586 | 77.9 | 690 | 18544 | 0.1 | 820 | 2712 | 0.0 | 950 | 2969 | 0.0 |
| 435 | 102160 | 1.2 | 565 | 118987 | 79.1 | 695 | 16058 | 0.1 | 825 | 2473 | 0.0 | 955 | 2277 | 0.0 |
| 440 | 135103 | 2.1 | 570 | 122326 | 79.5 | 700 | 14133 | 0.0 | 830 | 1969 | 0.0 | 960 | 4267 | 0.0 |
| 445 | 140126 | 2.9 | 575 | 125968 | 78.4 | 705 | 12309 | 0.0 | 835 | 1917 | 0.0 | 965 | 2034 | 0.0 |
| 450 | 102339 | 2.7 | 580 | 127613 | 75.8 | 710 | 11142 | 0.0 | 840 | 2248 | 0.0 | 970 | 3586 | 0.0 |
| 455 | 58751 | 2.0 | 585 | 129466 | 71.9 | 715 | 10143 | 0.0 | 845 | 2266 | 0.0 | 975 | 2505 | 0.0 |
| 460 | 36892 | 1.5 | 590 | 128813 | 66.6 | 720 | 9072 | 0.0 | 850 | 2558 | 0.0 | 980 | 2666 | 0.0 |
| 465 | 24637 | 1.3 | 595 | 126387 | 59.9 | 725 | 8130 | 0.0 | 855 | 2767 | 0.0 | 985 | 2934 | 0.0 |
| 470 | 16738 | 1.0 | 600 | 123477 | 53.2 | 730 | 7149 | 0.0 | 860 | 2826 | 0.0 | 990 | 4120 | 0.0 |
| 475 | 13456 | 1.1 | 605 | 118718 | 46.0 | 735 | 6311 | 0.0 | 865 | 2385 | 0.0 | 995 | 3858 | 0.0 |
| 480 | 13081 | 1.2 | 610 | 112091 | 38.5 | 740 | 5711 | 0.0 | 870 | 3194 | 0.0 | 1000 | 3405 | 0.0 |
| 485 | 14734 | 1.7 | 615 | 105039 | 31.7 | 745 | 5111 | 0.0 | 875 | 3189 | 0.0 | | | |

REPORT NUMBER: SP1-2101-121-2

Scotopic Flux vs. Wavelength



Scotopic Lumens: 10425.8 S/P: 1.47

| λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) |
|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|
| 360 | 2304 | 0.0 | 490 | 19043 | 29.3 | 620 | 97577 | 1.2 | 750 | 4830 | 0.0 | 880 | 3505 | 0.0 |
| 365 | 2150 | 0.0 | 495 | 26606 | 43.0 | 625 | 90158 | 0.8 | 755 | 4664 | 0.0 | 885 | 2991 | 0.0 |
| 370 | 2146 | 0.0 | 500 | 36376 | 60.8 | 630 | 82240 | 0.5 | 760 | 4006 | 0.0 | 890 | 2327 | 0.0 |
| 375 | 2332 | 0.0 | 505 | 47714 | 81.1 | 635 | 74361 | 0.3 | 765 | 3715 | 0.0 | 895 | 2775 | 0.0 |
| 380 | 2527 | 0.0 | 510 | 58741 | 99.6 | 640 | 66994 | 0.2 | 770 | 3696 | 0.0 | 900 | 2141 | 0.0 |
| 385 | 2304 | 0.0 | 515 | 68716 | 113.9 | 645 | 60405 | 0.1 | 775 | 3117 | 0.0 | 905 | 2421 | 0.0 |
| 390 | 2064 | 0.0 | 520 | 77136 | 122.6 | 650 | 53806 | 0.1 | 780 | 3062 | 0.0 | 910 | 2200 | 0.0 |
| 395 | 1856 | 0.0 | 525 | 83567 | 125.0 | 655 | 47610 | 0.0 | 785 | 2907 | 0.0 | 915 | 2716 | 0.0 |
| 400 | 1856 | 0.0 | 530 | 89283 | 123.1 | 660 | 42018 | 0.0 | 790 | 2655 | 0.0 | 920 | 2656 | 0.0 |
| 405 | 2374 | 0.1 | 535 | 94097 | 117.3 | 665 | 36742 | 0.0 | 795 | 2467 | 0.0 | 925 | 2671 | 0.0 |
| 410 | 4084 | 0.2 | 540 | 96845 | 107.0 | 670 | 32105 | 0.0 | 800 | 2609 | 0.0 | 930 | 3292 | 0.0 |
| 415 | 8543 | 0.9 | 545 | 100829 | 96.7 | 675 | 27946 | 0.0 | 805 | 2293 | 0.0 | 935 | 3188 | 0.0 |
| 420 | 18394 | 3.0 | 550 | 105648 | 86.4 | 680 | 24146 | 0.0 | 810 | 2188 | 0.0 | 940 | 1997 | 0.0 |
| 425 | 37987 | 9.3 | 555 | 110017 | 75.2 | 685 | 21191 | 0.0 | 815 | 2386 | 0.0 | 945 | 2623 | 0.0 |
| 430 | 67605 | 23.0 | 560 | 114586 | 64.0 | 690 | 18544 | 0.0 | 820 | 2712 | 0.0 | 950 | 2969 | 0.0 |
| 435 | 102160 | 45.7 | 565 | 118987 | 53.4 | 695 | 16058 | 0.0 | 825 | 2473 | 0.0 | 955 | 2277 | 0.0 |
| 440 | 135103 | 75.5 | 570 | 122326 | 43.2 | 700 | 14133 | 0.0 | 830 | 1969 | 0.0 | 960 | 4267 | 0.0 |
| 445 | 140126 | 93.8 | 575 | 125968 | 34.3 | 705 | 12309 | 0.0 | 835 | 1917 | 0.0 | 965 | 2034 | 0.0 |
| 450 | 102339 | 79.3 | 580 | 127613 | 26.3 | 710 | 11142 | 0.0 | 840 | 2248 | 0.0 | 970 | 3586 | 0.0 |
| 455 | 58751 | 51.3 | 585 | 129466 | 19.8 | 715 | 10143 | 0.0 | 845 | 2266 | 0.0 | 975 | 2505 | 0.0 |
| 460 | 36892 | 35.6 | 590 | 128813 | 14.3 | 720 | 9072 | 0.0 | 850 | 2558 | 0.0 | 980 | 2666 | 0.0 |
| 465 | 24637 | 26.0 | 595 | 126387 | 10.1 | 725 | 8130 | 0.0 | 855 | 2767 | 0.0 | 985 | 2934 | 0.0 |
| 470 | 16738 | 19.3 | 600 | 123477 | 7.0 | 730 | 7149 | 0.0 | 860 | 2826 | 0.0 | 990 | 4120 | 0.0 |
| 475 | 13456 | 16.8 | 605 | 118718 | 4.7 | 735 | 6311 | 0.0 | 865 | 2385 | 0.0 | 995 | 3858 | 0.0 |
| 480 | 13081 | 17.7 | 610 | 112091 | 3.0 | 740 | 5711 | 0.0 | 870 | 3194 | 0.0 | 1000 | 3405 | 0.0 |
| 485 | 14734 | 21.4 | 615 | 105039 | 1.9 | 745 | 5111 | 0.0 | 875 | 3189 | 0.0 | | | |

REPORT NUMBER: SP1-2101-121-2

Melanopic Flux vs. Wavelength



Melanopic Lumens: 3927.2 M/P: 0.55

| λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) |
|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|
| 360 | 2304 | 0.0 | 490 | 19043 | 15.8 | 620 | 97577 | 0.1 | 750 | 4830 | 0.0 | 880 | 3505 | 0.0 |
| 365 | 2150 | 0.0 | 495 | 26606 | 22.0 | 625 | 90158 | 0.0 | 755 | 4664 | 0.0 | 885 | 2991 | 0.0 |
| 370 | 2146 | 0.0 | 500 | 36376 | 29.2 | 630 | 82240 | 0.0 | 760 | 4006 | 0.0 | 890 | 2327 | 0.0 |
| 375 | 2332 | 0.0 | 505 | 47714 | 36.6 | 635 | 74361 | 0.0 | 765 | 3715 | 0.0 | 895 | 2775 | 0.0 |
| 380 | 2527 | 0.0 | 510 | 58741 | 42.2 | 640 | 66994 | 0.0 | 770 | 3696 | 0.0 | 900 | 2141 | 0.0 |
| 385 | 2304 | 0.0 | 515 | 68716 | 44.9 | 645 | 60405 | 0.0 | 775 | 3117 | 0.0 | 905 | 2421 | 0.0 |
| 390 | 2064 | 0.0 | 520 | 77136 | 44.9 | 650 | 53806 | 0.0 | 780 | 3062 | 0.0 | 910 | 2200 | 0.0 |
| 395 | 1856 | 0.0 | 525 | 83567 | 42.4 | 655 | 47610 | 0.0 | 785 | 2907 | 0.0 | 915 | 2716 | 0.0 |
| 400 | 1856 | 0.0 | 530 | 89283 | 38.6 | 660 | 42018 | 0.0 | 790 | 2655 | 0.0 | 920 | 2656 | 0.0 |
| 405 | 2374 | 0.0 | 535 | 94097 | 33.9 | 665 | 36742 | 0.0 | 795 | 2467 | 0.0 | 925 | 2671 | 0.0 |
| 410 | 4084 | 0.2 | 540 | 96845 | 28.3 | 670 | 32105 | 0.0 | 800 | 2609 | 0.0 | 930 | 3292 | 0.0 |
| 415 | 8543 | 0.6 | 545 | 100829 | 23.4 | 675 | 27946 | 0.0 | 805 | 2293 | 0.0 | 935 | 3188 | 0.0 |
| 420 | 18394 | 2.1 | 550 | 105648 | 19.0 | 680 | 24146 | 0.0 | 810 | 2188 | 0.0 | 940 | 1997 | 0.0 |
| 425 | 37987 | 5.9 | 555 | 110017 | 14.8 | 685 | 21191 | 0.0 | 815 | 2386 | 0.0 | 945 | 2623 | 0.0 |
| 430 | 67605 | 14.3 | 560 | 114586 | 11.3 | 690 | 18544 | 0.0 | 820 | 2712 | 0.0 | 950 | 2969 | 0.0 |
| 435 | 102160 | 27.3 | 565 | 118987 | 8.4 | 695 | 16058 | 0.0 | 825 | 2473 | 0.0 | 955 | 2277 | 0.0 |
| 440 | 135103 | 45.1 | 570 | 122326 | 6.0 | 700 | 14133 | 0.0 | 830 | 1969 | 0.0 | 960 | 4267 | 0.0 |
| 445 | 140126 | 55.3 | 575 | 125968 | 4.2 | 705 | 12309 | 0.0 | 835 | 1917 | 0.0 | 965 | 2034 | 0.0 |
| 450 | 102339 | 47.2 | 580 | 127613 | 2.9 | 710 | 11142 | 0.0 | 840 | 2248 | 0.0 | 970 | 3586 | 0.0 |
| 455 | 58751 | 30.8 | 585 | 129466 | 1.9 | 715 | 10143 | 0.0 | 845 | 2266 | 0.0 | 975 | 2505 | 0.0 |
| 460 | 36892 | 21.7 | 590 | 128813 | 1.3 | 720 | 9072 | 0.0 | 850 | 2558 | 0.0 | 980 | 2666 | 0.0 |
| 465 | 24637 | 16.1 | 595 | 126387 | 0.8 | 725 | 8130 | 0.0 | 855 | 2767 | 0.0 | 985 | 2934 | 0.0 |
| 470 | 16738 | 12.0 | 600 | 123477 | 0.5 | 730 | 7149 | 0.0 | 860 | 2826 | 0.0 | 990 | 4120 | 0.0 |
| 475 | 13456 | 10.3 | 605 | 118718 | 0.3 | 735 | 6311 | 0.0 | 865 | 2385 | 0.0 | 995 | 3858 | 0.0 |
| 480 | 13081 | 10.5 | 610 | 112091 | 0.2 | 740 | 5711 | 0.0 | 870 | 3194 | 0.0 | 1000 | 3405 | 0.0 |
| 485 | 14734 | 12.1 | 615 | 105039 | 0.1 | 745 | 5111 | 0.0 | 875 | 3189 | 0.0 | | | |

Summary

$R_f = 71.7$
 $R_g = 96.9$
 CIE $R_a = 71.2$
 $R_g = -29.7$



Color Vector Graphics



Individual Sample Fidelity Index ($R_{f,i}$)

| | | | |
|------------|------------|------------|------------|
| CES01 = 85 | CES26 = 55 | CES51 = 86 | CES76 = 45 |
| CES02 = 61 | CES27 = 80 | CES52 = 87 | CES77 = 68 |
| CES03 = 30 | CES28 = 79 | CES53 = 74 | CES78 = 49 |
| CES04 = 70 | CES29 = 51 | CES54 = 81 | CES79 = 77 |
| CES05 = 47 | CES30 = 60 | CES55 = 80 | CES80 = 75 |
| CES06 = 50 | CES31 = 56 | CES56 = 69 | CES81 = 75 |
| CES07 = 40 | CES32 = 52 | CES57 = 67 | CES82 = 90 |
| CES08 = 39 | CES33 = 62 | CES58 = 69 | CES83 = 85 |
| CES09 = 29 | CES34 = 65 | CES59 = 86 | CES84 = 87 |
| CES10 = 74 | CES35 = 81 | CES60 = 91 | CES85 = 83 |
| CES11 = 57 | CES36 = 92 | CES61 = 85 | CES86 = 72 |
| CES12 = 63 | CES37 = 74 | CES62 = 81 | CES87 = 77 |
| CES13 = 42 | CES38 = 69 | CES63 = 72 | CES88 = 77 |
| CES14 = 74 | CES39 = 92 | CES64 = 69 | CES89 = 72 |
| CES15 = 71 | CES40 = 86 | CES65 = 64 | CES90 = 75 |
| CES16 = 46 | CES41 = 84 | CES66 = 63 | CES91 = 91 |
| CES17 = 49 | CES42 = 75 | CES67 = 60 | CES92 = 66 |
| CES18 = 56 | CES43 = 70 | CES68 = 67 | CES93 = 80 |
| CES19 = 72 | CES44 = 98 | CES69 = 77 | CES94 = 56 |
| CES20 = 65 | CES45 = 80 | CES70 = 57 | CES95 = 72 |
| CES21 = 86 | CES46 = 77 | CES71 = 53 | CES96 = 78 |
| CES22 = 78 | CES47 = 74 | CES72 = 84 | CES97 = 83 |
| CES23 = 92 | CES48 = 66 | CES73 = 47 | CES98 = 73 |
| CES24 = 91 | CES49 = 76 | CES74 = 96 | CES99 = 63 |
| CES25 = 72 | CES50 = 85 | CES75 = 52 | |



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)