

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: P634245

Luminaire Tested: GWS-SA3B-735-U-SLL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P634245
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-39)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA3B-735-U-SLL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR LEFT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (48) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7985.3 lumens
Efficiency: N/A
Efficacy: 116.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

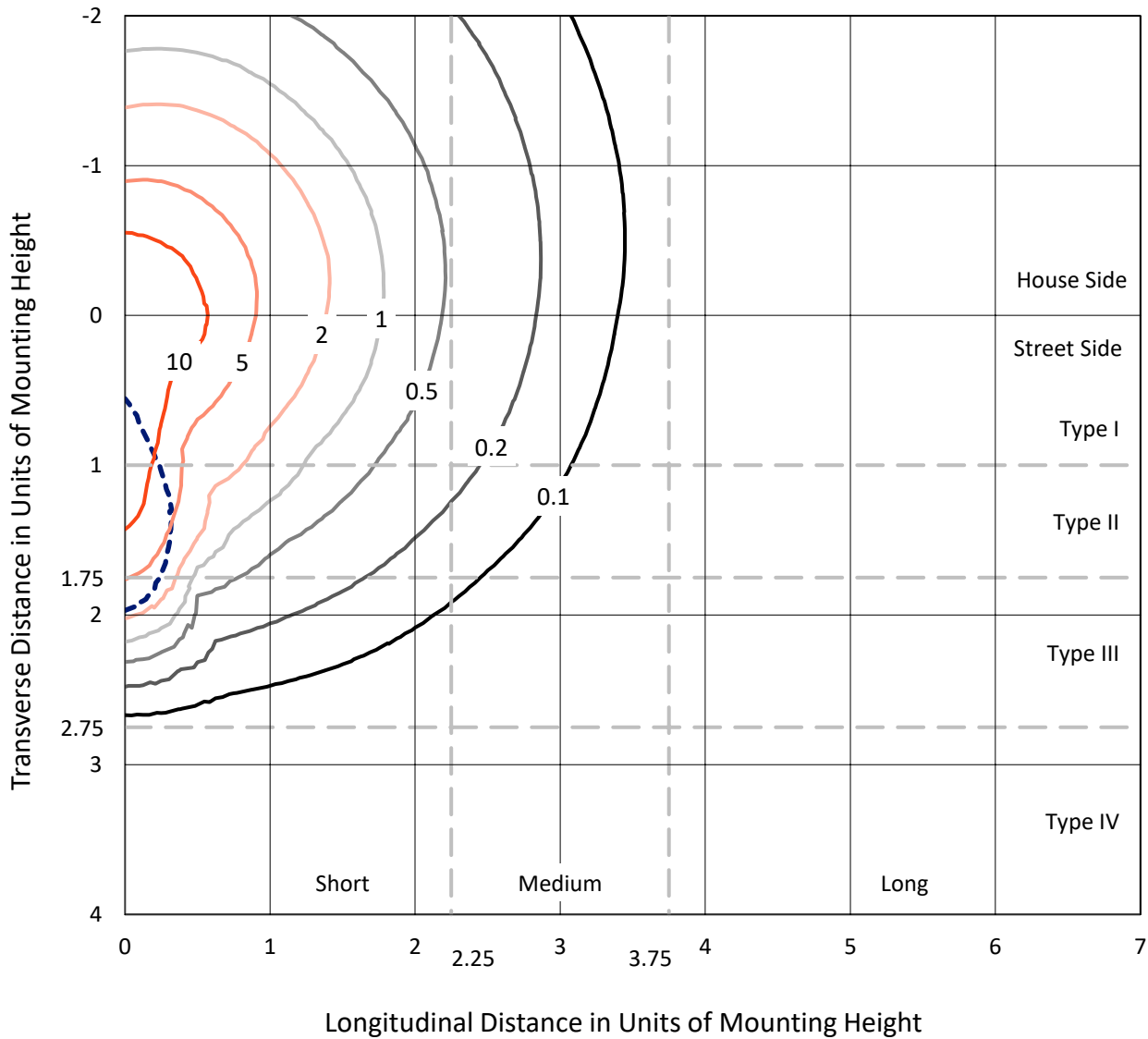
Input Watts (W): 68.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

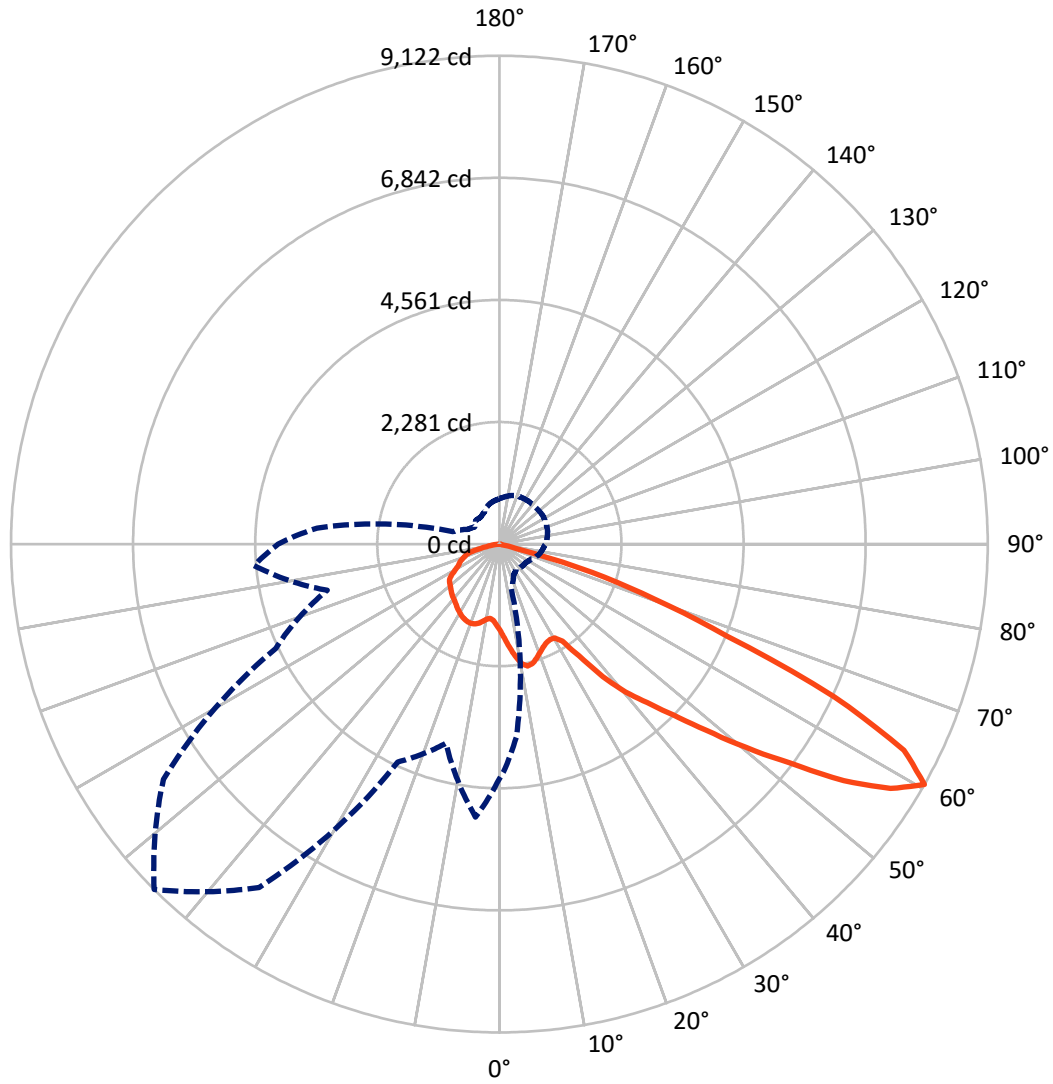
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 19.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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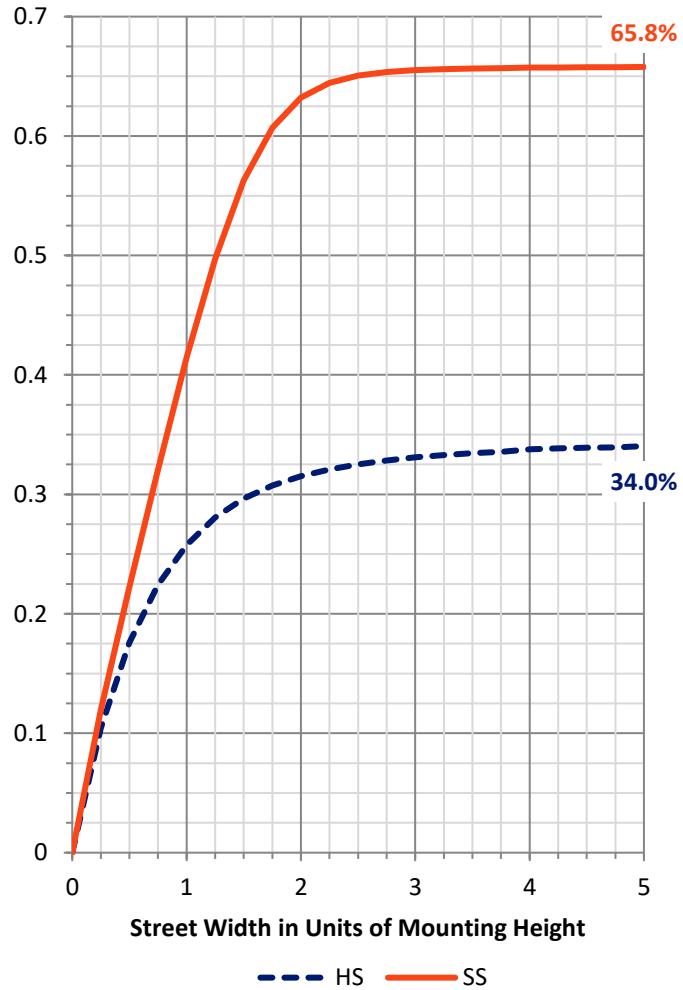
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 2731.7 | 0.0 | 2731.7 |
| | % Fixture | 34.2 | 0.0 | 34.2 |
| Street Side | Lumens | 5253.6 | 0.0 | 5253.6 |
| | % Fixture | 65.8 | 0.0 | 65.8 |
| Total | Lumens | 7985.3 | 0.0 | 7985.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 157.4 | 2.0 |
| 10°-20° | 504.7 | 6.3 |
| 20°-30° | 822.0 | 10.3 |
| 30°-40° | 1154.7 | 14.5 |
| 40°-50° | 1580.0 | 19.8 |
| 50°-60° | 2027.1 | 25.4 |
| 60°-70° | 1365.0 | 17.1 |
| 70°-80° | 341.2 | 4.3 |
| 80°-90° | 33.3 | 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° | 7985.3 | 100.0 |
| 0°-180° | 7985.3 | 100.0 |

Coefficient of Utilization



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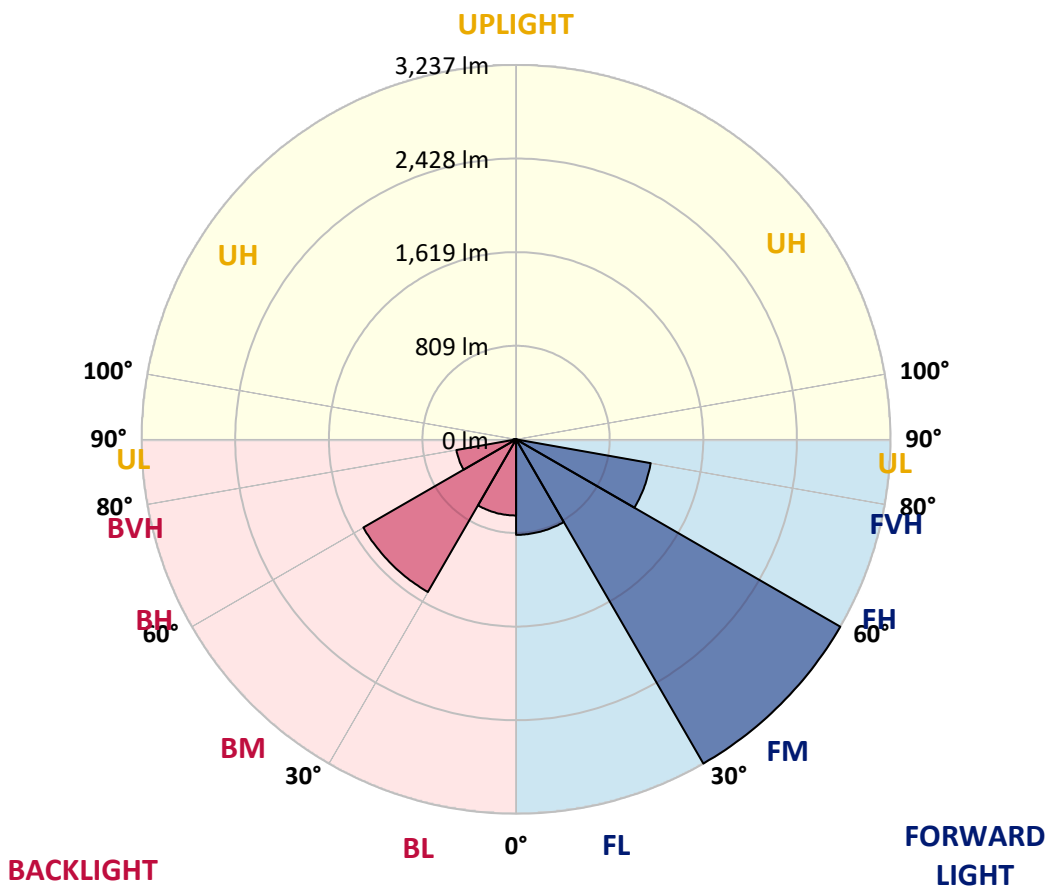
CATALOG NUMBER: GWS-SA3B-735-U-SLL-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 825.5 | 10.3 | | | |
| FM (30°-60°) | 3237.3 | 40.5 | | | |
| FH (60°-80°) | 1182.2 | 14.8 | | | G1/1800 |
| FVH (80°-90°) | 8.6 | 0.1 | | | G0/10 |
| BL (0°-30°) | 658.5 | 8.2 | B2/1000 | | |
| BM (30°-60°) | 1524.5 | 19.1 | B2/2500 | | |
| BH (60°-80°) | 524.1 | 6.6 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 24.6 | 0.3 | | | 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 Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1610.6 | 1610.6 | 1610.6 | 1610.6 | 1610.6 | 1610.6 | 1610.6 | 1610.6 | 1610.6 | 1610.6 | 1610.6 |
| 2.5° | 1703.9 | 1700.3 | 1696.6 | 1667.9 | 1660.6 | 1640.0 | 1625.3 | 1606.9 | 1580.4 | 1565.7 | 1553.2 |
| 5° | 1810.6 | 1804.7 | 1784.8 | 1726.0 | 1687.8 | 1645.8 | 1611.3 | 1573.0 | 1532.6 | 1506.1 | 1485.5 |
| 7.5° | 1911.3 | 1909.9 | 1876.0 | 1779.0 | 1717.2 | 1656.9 | 1609.8 | 1553.9 | 1495.8 | 1456.1 | 1429.6 |
| 10° | 2004.7 | 1993.7 | 1953.3 | 1826.8 | 1745.9 | 1676.7 | 1626.0 | 1564.2 | 1496.6 | 1442.9 | 1407.6 |
| 12.5° | 2087.1 | 2073.1 | 2017.2 | 1870.9 | 1770.9 | 1685.6 | 1630.4 | 1579.7 | 1534.8 | 1489.9 | 1449.5 |
| 15° | 2154.8 | 2137.8 | 2081.2 | 1912.1 | 1792.9 | 1680.4 | 1603.2 | 1563.5 | 1578.9 | 1598.8 | 1553.9 |
| 17.5° | 2218.0 | 2200.3 | 2131.2 | 1942.2 | 1799.6 | 1648.8 | 1536.3 | 1519.4 | 1597.3 | 1687.8 | 1667.2 |
| 20° | 2270.9 | 2251.1 | 2170.9 | 1956.9 | 1787.8 | 1588.5 | 1449.5 | 1478.9 | 1581.9 | 1690.0 | 1723.1 |
| 22.5° | 2328.3 | 2312.1 | 2215.8 | 1978.3 | 1773.1 | 1505.4 | 1376.7 | 1448.8 | 1555.4 | 1650.3 | 1700.3 |
| 25° | 2420.2 | 2400.4 | 2285.7 | 2015.8 | 1765.7 | 1427.4 | 1324.5 | 1419.3 | 1518.6 | 1604.7 | 1643.6 |
| 27.5° | 2553.3 | 2516.6 | 2381.3 | 2081.2 | 1773.8 | 1353.9 | 1291.4 | 1383.3 | 1476.0 | 1549.5 | 1581.1 |
| 30° | 2698.2 | 2654.1 | 2487.2 | 2148.9 | 1785.6 | 1309.0 | 1273.7 | 1342.1 | 1410.5 | 1484.1 | 1518.6 |
| 32.5° | 2869.6 | 2830.6 | 2600.4 | 2199.6 | 1760.6 | 1288.4 | 1260.5 | 1297.3 | 1351.7 | 1410.5 | 1439.2 |
| 35° | 3074.0 | 3004.2 | 2724.0 | 2240.8 | 1679.7 | 1258.3 | 1248.7 | 1248.0 | 1276.7 | 1334.0 | 1366.4 |
| 37.5° | 3293.9 | 3218.9 | 2876.2 | 2284.9 | 1553.9 | 1210.5 | 1220.8 | 1189.9 | 1216.4 | 1262.0 | 1298.7 |
| 40° | 3474.1 | 3395.4 | 3029.9 | 2345.2 | 1396.5 | 1135.5 | 1159.0 | 1125.9 | 1142.1 | 1189.2 | 1230.3 |
| 42.5° | 3650.6 | 3566.7 | 3173.3 | 2413.6 | 1244.3 | 1061.9 | 1073.7 | 1061.2 | 1066.3 | 1115.6 | 1173.0 |
| 45° | 3882.2 | 3788.1 | 3349.8 | 2462.2 | 1107.5 | 1003.8 | 992.8 | 971.5 | 998.7 | 1062.7 | 1123.7 |
| 47.5° | 4269.1 | 4156.5 | 3638.8 | 2493.8 | 1008.2 | 970.7 | 920.0 | 907.5 | 941.3 | 1012.7 | 1075.9 |
| 50° | 4721.3 | 4624.3 | 4100.7 | 2492.3 | 934.0 | 942.8 | 849.4 | 838.4 | 894.3 | 966.3 | 1033.3 |
| 52.5° | 5092.0 | 4993.4 | 4495.6 | 2418.8 | 872.9 | 883.2 | 808.2 | 777.3 | 853.8 | 920.7 | 987.7 |
| 55° | 5391.3 | 5280.3 | 4677.2 | 2111.4 | 795.7 | 788.4 | 763.4 | 706.7 | 803.1 | 875.1 | 937.6 |
| 57.5° | 5230.2 | 5097.9 | 4457.3 | 1605.4 | 716.3 | 670.0 | 686.1 | 644.2 | 733.9 | 824.4 | 884.7 |
| 60° | 4385.3 | 4266.1 | 3621.2 | 854.5 | 630.2 | 559.6 | 593.5 | 600.1 | 658.2 | 763.4 | 825.1 |
| 62.5° | 3012.2 | 2925.5 | 2454.1 | 518.5 | 497.1 | 449.3 | 502.3 | 550.1 | 593.5 | 682.5 | 736.1 |
| 65° | 1473.8 | 1448.0 | 1227.4 | 332.4 | 347.8 | 363.3 | 416.2 | 474.3 | 538.3 | 616.3 | 672.9 |
| 67.5° | 405.9 | 408.9 | 372.1 | 259.6 | 274.3 | 317.0 | 358.9 | 405.2 | 469.2 | 541.3 | 598.6 |
| 70° | 178.7 | 181.6 | 187.5 | 200.0 | 228.0 | 267.0 | 310.3 | 358.1 | 417.0 | 477.3 | 532.4 |
| 72.5° | 124.3 | 127.2 | 136.1 | 152.2 | 177.2 | 214.0 | 255.2 | 300.8 | 361.8 | 412.6 | 458.2 |
| 75° | 76.5 | 78.7 | 86.8 | 100.8 | 117.7 | 145.6 | 186.1 | 228.0 | 281.7 | 328.0 | 368.4 |
| 77.5° | 40.4 | 39.0 | 44.1 | 53.7 | 68.4 | 83.1 | 110.3 | 136.8 | 175.0 | 212.5 | 246.4 |
| 80° | 22.1 | 21.3 | 24.3 | 29.4 | 33.8 | 45.6 | 64.0 | 81.6 | 103.7 | 125.0 | 143.4 |
| 82.5° | 9.6 | 8.8 | 9.6 | 12.5 | 15.4 | 22.1 | 32.4 | 44.9 | 57.4 | 72.1 | 83.8 |
| 85° | 0.0 | 0.0 | 0.0 | 0.7 | 3.7 | 5.9 | 11.0 | 16.2 | 23.5 | 32.4 | 39.7 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.9 | 6.6 |
| 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-SA3B-735-U-SLL-W-GRSWH

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1610.6 | 1610.6 | 1610.6 | 1610.6 | 1610.6 | 1610.6 | 1610.6 | 1610.6 | 1610.6 | 1610.6 | 1610.6 |
| 2.5° | 1545.8 | 1527.4 | 1526.0 | 1511.3 | 1512.7 | 1513.5 | 1498.8 | 1492.9 | 1498.0 | 1503.9 | 1501.0 |
| 5° | 1478.2 | 1459.1 | 1451.0 | 1437.0 | 1435.5 | 1428.9 | 1423.0 | 1415.7 | 1420.8 | 1426.0 | 1428.9 |
| 7.5° | 1419.3 | 1406.8 | 1401.7 | 1398.0 | 1399.5 | 1396.5 | 1384.8 | 1378.2 | 1377.4 | 1379.6 | 1382.6 |
| 10° | 1400.2 | 1389.9 | 1396.5 | 1406.8 | 1414.2 | 1419.3 | 1406.8 | 1395.8 | 1385.5 | 1381.1 | 1381.1 |
| 12.5° | 1441.4 | 1428.2 | 1441.4 | 1452.4 | 1467.1 | 1470.8 | 1456.8 | 1445.1 | 1441.4 | 1445.8 | 1454.6 |
| 15° | 1532.6 | 1501.7 | 1501.0 | 1507.6 | 1519.4 | 1525.2 | 1512.0 | 1506.1 | 1506.1 | 1534.1 | 1556.1 |
| 17.5° | 1623.8 | 1573.0 | 1551.7 | 1548.0 | 1555.4 | 1557.6 | 1546.6 | 1541.4 | 1554.7 | 1609.1 | 1650.3 |
| 20° | 1687.8 | 1626.0 | 1579.7 | 1570.8 | 1573.0 | 1573.8 | 1565.0 | 1561.3 | 1580.4 | 1646.6 | 1681.1 |
| 22.5° | 1681.1 | 1635.6 | 1578.9 | 1567.9 | 1571.6 | 1570.1 | 1562.0 | 1560.5 | 1576.0 | 1633.3 | 1649.5 |
| 25° | 1635.6 | 1600.3 | 1552.5 | 1545.1 | 1551.0 | 1550.2 | 1542.2 | 1538.5 | 1545.1 | 1583.3 | 1584.8 |
| 27.5° | 1583.3 | 1552.5 | 1511.3 | 1509.1 | 1518.6 | 1523.8 | 1509.8 | 1498.8 | 1496.6 | 1522.3 | 1516.4 |
| 30° | 1520.8 | 1498.0 | 1464.9 | 1466.4 | 1484.1 | 1487.0 | 1470.1 | 1453.9 | 1449.5 | 1463.5 | 1455.4 |
| 32.5° | 1446.6 | 1439.2 | 1421.5 | 1425.2 | 1442.1 | 1448.0 | 1430.4 | 1413.5 | 1408.3 | 1412.7 | 1395.8 |
| 35° | 1383.3 | 1380.4 | 1381.8 | 1388.5 | 1403.2 | 1407.6 | 1392.9 | 1379.6 | 1372.3 | 1356.8 | 1334.8 |
| 37.5° | 1317.9 | 1325.9 | 1347.3 | 1359.8 | 1367.9 | 1366.4 | 1358.3 | 1348.7 | 1337.0 | 1308.3 | 1281.1 |
| 40° | 1256.8 | 1277.4 | 1315.7 | 1329.6 | 1332.6 | 1333.3 | 1327.4 | 1319.3 | 1304.6 | 1266.4 | 1235.5 |
| 42.5° | 1209.8 | 1232.5 | 1283.3 | 1304.6 | 1306.1 | 1307.6 | 1301.7 | 1295.1 | 1274.5 | 1223.7 | 1193.6 |
| 45° | 1160.5 | 1190.6 | 1250.2 | 1275.9 | 1274.5 | 1273.7 | 1268.6 | 1265.6 | 1241.4 | 1182.5 | 1149.4 |
| 47.5° | 1118.6 | 1153.9 | 1217.8 | 1239.9 | 1239.2 | 1238.4 | 1234.8 | 1234.8 | 1210.5 | 1146.5 | 1109.0 |
| 50° | 1077.4 | 1117.8 | 1184.7 | 1203.1 | 1204.6 | 1203.1 | 1201.7 | 1203.9 | 1175.2 | 1106.8 | 1070.0 |
| 52.5° | 1032.5 | 1078.1 | 1148.0 | 1164.9 | 1173.7 | 1177.4 | 1177.4 | 1172.2 | 1138.4 | 1067.1 | 1026.6 |
| 55° | 983.2 | 1026.6 | 1107.5 | 1130.3 | 1137.7 | 1144.3 | 1144.3 | 1134.0 | 1102.4 | 1030.3 | 986.9 |
| 57.5° | 922.2 | 960.4 | 1024.4 | 1047.2 | 1064.9 | 1069.3 | 1069.3 | 1052.4 | 1026.6 | 957.5 | 922.2 |
| 60° | 856.0 | 889.1 | 932.5 | 956.8 | 970.0 | 961.2 | 967.8 | 963.4 | 942.8 | 878.8 | 849.4 |
| 62.5° | 767.8 | 801.6 | 849.4 | 874.4 | 880.3 | 871.5 | 880.3 | 879.6 | 851.6 | 794.2 | 758.9 |
| 65° | 704.5 | 737.6 | 784.7 | 817.0 | 826.6 | 824.4 | 830.3 | 821.5 | 786.9 | 732.5 | 698.6 |
| 67.5° | 629.5 | 664.8 | 719.2 | 755.3 | 775.1 | 777.3 | 785.4 | 767.0 | 731.7 | 672.2 | 629.5 |
| 70° | 558.2 | 588.3 | 630.2 | 664.1 | 692.0 | 706.0 | 707.5 | 681.0 | 636.9 | 587.6 | 556.7 |
| 72.5° | 483.2 | 514.1 | 564.8 | 601.6 | 636.9 | 653.0 | 653.0 | 620.7 | 572.9 | 518.5 | 485.4 |
| 75° | 392.0 | 420.7 | 467.0 | 506.7 | 547.1 | 567.7 | 567.0 | 539.1 | 486.1 | 434.6 | 400.1 |
| 77.5° | 265.5 | 286.8 | 316.2 | 346.4 | 352.3 | 368.4 | 376.5 | 341.2 | 311.8 | 283.9 | 253.0 |
| 80° | 154.4 | 167.7 | 183.9 | 200.8 | 204.4 | 209.6 | 196.4 | 183.1 | 167.7 | 149.3 | 135.3 |
| 82.5° | 90.5 | 99.3 | 107.4 | 120.6 | 122.8 | 124.3 | 112.5 | 106.6 | 94.1 | 83.1 | 74.3 |
| 85° | 44.1 | 47.1 | 54.4 | 61.0 | 58.1 | 56.6 | 51.5 | 45.6 | 40.4 | 36.0 | 31.6 |
| 87.5° | 8.8 | 8.8 | 13.2 | 12.5 | 10.3 | 8.8 | 5.1 | 6.6 | 1.5 | 1.5 | 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 |



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CATALOG NUMBER: GWS-SA3B-735-U-SLL-W-GRSWH

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1610.6 | 1610.6 | 1610.6 | 1610.6 | 1610.6 | 1610.6 | 1610.6 | 1610.6 | 1610.6 | 1610.6 | 1610.6 |
| 2.5° | 1510.5 | 1523.0 | 1538.5 | 1559.1 | 1582.6 | 1607.6 | 1631.9 | 1650.3 | 1668.6 | 1695.9 | 1691.4 |
| 5° | 1433.3 | 1454.6 | 1478.9 | 1510.5 | 1548.8 | 1592.2 | 1640.7 | 1689.2 | 1741.5 | 1785.6 | 1804.7 |
| 7.5° | 1388.5 | 1412.0 | 1440.7 | 1481.9 | 1531.1 | 1584.1 | 1652.5 | 1731.2 | 1815.7 | 1873.8 | 1909.9 |
| 10° | 1388.5 | 1418.6 | 1456.1 | 1495.8 | 1539.2 | 1593.6 | 1678.2 | 1776.8 | 1885.6 | 1962.1 | 2004.0 |
| 12.5° | 1468.6 | 1498.8 | 1506.9 | 1505.4 | 1529.7 | 1590.0 | 1698.8 | 1824.6 | 1954.7 | 2035.6 | 2087.1 |
| 15° | 1593.6 | 1603.9 | 1542.9 | 1487.0 | 1490.7 | 1563.5 | 1708.4 | 1862.8 | 2014.3 | 2111.4 | 2167.3 |
| 17.5° | 1677.5 | 1650.3 | 1541.4 | 1443.6 | 1423.0 | 1518.6 | 1708.4 | 1899.6 | 2077.5 | 2187.1 | 2239.3 |
| 20° | 1684.1 | 1616.4 | 1503.9 | 1401.7 | 1348.7 | 1459.1 | 1696.6 | 1927.5 | 2138.6 | 2259.9 | 2315.8 |
| 22.5° | 1626.0 | 1559.1 | 1464.2 | 1365.7 | 1287.7 | 1387.0 | 1677.5 | 1948.8 | 2190.8 | 2328.3 | 2397.4 |
| 25° | 1559.8 | 1503.9 | 1423.8 | 1328.9 | 1245.8 | 1314.2 | 1659.8 | 1984.9 | 2263.6 | 2421.0 | 2490.8 |
| 27.5° | 1495.1 | 1448.0 | 1375.2 | 1298.0 | 1222.3 | 1250.9 | 1648.8 | 2037.8 | 2350.4 | 2552.6 | 2612.9 |
| 30° | 1431.8 | 1389.2 | 1323.0 | 1268.6 | 1209.8 | 1209.8 | 1639.2 | 2098.9 | 2465.1 | 2700.4 | 2760.7 |
| 32.5° | 1367.9 | 1327.4 | 1273.7 | 1239.9 | 1202.4 | 1193.6 | 1612.8 | 2156.2 | 2583.5 | 2862.2 | 2924.0 |
| 35° | 1308.3 | 1267.8 | 1226.7 | 1212.7 | 1198.7 | 1181.1 | 1547.3 | 2201.1 | 2699.0 | 3051.2 | 3104.2 |
| 37.5° | 1252.4 | 1213.4 | 1182.5 | 1178.9 | 1180.3 | 1147.2 | 1444.3 | 2238.6 | 2843.1 | 3244.6 | 3272.6 |
| 40° | 1203.9 | 1160.5 | 1136.2 | 1135.5 | 1142.8 | 1092.8 | 1314.2 | 2292.3 | 3007.8 | 3408.6 | 3396.9 |
| 42.5° | 1160.5 | 1114.9 | 1085.5 | 1092.1 | 1087.7 | 1038.4 | 1187.0 | 2341.5 | 3151.2 | 3562.3 | 3538.8 |
| 45° | 1117.8 | 1073.7 | 1032.5 | 1042.1 | 1036.9 | 1004.6 | 1078.8 | 2377.6 | 3310.1 | 3746.9 | 3749.9 |
| 47.5° | 1076.6 | 1033.3 | 992.1 | 980.3 | 979.6 | 994.3 | 995.7 | 2389.4 | 3568.9 | 4044.0 | 3977.1 |
| 50° | 1038.4 | 995.0 | 952.4 | 912.6 | 928.1 | 973.7 | 934.0 | 2380.5 | 3956.5 | 4372.0 | 4185.2 |
| 52.5° | 998.7 | 957.5 | 910.4 | 839.1 | 879.6 | 924.4 | 878.8 | 2348.9 | 4193.3 | 4661.8 | 4550.0 |
| 55° | 953.1 | 914.1 | 850.1 | 763.4 | 812.6 | 822.2 | 822.2 | 2043.0 | 4294.1 | 4948.6 | 5017.7 |
| 57.5° | 892.1 | 840.6 | 739.1 | 669.2 | 713.3 | 676.6 | 761.9 | 1429.6 | 4127.9 | 4858.1 | 5126.6 |
| 60° | 822.9 | 767.8 | 660.4 | 610.4 | 623.6 | 558.9 | 649.4 | 896.5 | 3421.1 | 4133.7 | 4598.5 |
| 62.5° | 731.7 | 681.0 | 592.0 | 553.0 | 525.8 | 456.0 | 522.9 | 567.0 | 2345.2 | 3069.6 | 3386.6 |
| 65° | 670.7 | 614.8 | 535.4 | 483.9 | 428.0 | 367.0 | 347.1 | 372.1 | 1261.2 | 1717.9 | 1931.9 |
| 67.5° | 598.6 | 543.5 | 468.5 | 403.7 | 358.9 | 314.8 | 280.2 | 271.4 | 432.4 | 572.1 | 619.2 |
| 70° | 530.2 | 477.3 | 414.8 | 354.5 | 309.6 | 266.2 | 232.4 | 208.1 | 200.0 | 198.6 | 195.6 |
| 72.5° | 460.4 | 411.1 | 358.9 | 303.0 | 253.7 | 214.0 | 183.9 | 155.9 | 144.1 | 140.5 | 136.8 |
| 75° | 377.3 | 338.3 | 286.1 | 225.8 | 186.1 | 149.3 | 125.8 | 107.4 | 97.1 | 93.4 | 89.0 |
| 77.5° | 242.7 | 225.0 | 179.4 | 145.6 | 112.5 | 89.0 | 76.5 | 64.7 | 58.1 | 56.6 | 52.9 |
| 80° | 129.4 | 120.6 | 99.3 | 83.8 | 66.9 | 54.4 | 47.8 | 41.2 | 37.5 | 36.0 | 34.6 |
| 82.5° | 72.1 | 65.5 | 55.2 | 48.5 | 39.0 | 33.1 | 29.4 | 26.5 | 24.3 | 23.5 | 22.8 |
| 85° | 32.4 | 27.9 | 22.1 | 20.6 | 18.4 | 16.9 | 16.2 | 14.7 | 14.0 | 13.2 | 12.5 |
| 87.5° | 1.5 | 2.9 | 3.7 | 2.9 | 2.9 | 4.4 | 5.1 | 5.1 | 4.4 | 4.4 | 3.7 |
| 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: P634245

CATALOG NUMBER: GWS-SA3B-735-U-SLL-W-GRSWH

CANDELA DISTRIBUTION (continued):

| | 285° | 295° | 305° | 315° | 325° | 335° | 345° | 355° | 359° | 360° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1610.6 | 1610.6 | 1610.6 | 1610.6 | 1610.6 | 1610.6 | 1610.6 | 1610.6 | 1610.6 | 1610.6 |
| 2.5° | 1718.7 | 1740.7 | 1742.9 | 1750.3 | 1740.7 | 1738.5 | 1723.1 | 1714.2 | 1706.2 | 1703.9 |
| 5° | 1852.5 | 1896.6 | 1914.3 | 1926.8 | 1915.0 | 1909.1 | 1875.3 | 1840.0 | 1820.1 | 1810.6 |
| 7.5° | 1990.0 | 2056.2 | 2090.8 | 2106.2 | 2107.7 | 2081.2 | 2023.1 | 1956.9 | 1923.8 | 1911.3 |
| 10° | 2112.8 | 2194.5 | 2240.1 | 2269.5 | 2259.2 | 2226.8 | 2147.4 | 2057.7 | 2015.8 | 2004.7 |
| 12.5° | 2204.0 | 2282.0 | 2317.3 | 2336.4 | 2335.7 | 2318.0 | 2243.0 | 2145.9 | 2098.1 | 2087.1 |
| 15° | 2262.9 | 2309.2 | 2311.4 | 2315.8 | 2328.3 | 2351.8 | 2312.9 | 2223.1 | 2170.2 | 2154.8 |
| 17.5° | 2309.2 | 2290.8 | 2256.2 | 2244.5 | 2272.4 | 2337.9 | 2361.4 | 2288.6 | 2231.2 | 2218.0 |
| 20° | 2338.6 | 2245.9 | 2184.9 | 2162.1 | 2194.5 | 2301.1 | 2390.8 | 2347.4 | 2287.9 | 2270.9 |
| 22.5° | 2361.4 | 2204.0 | 2105.5 | 2090.0 | 2123.9 | 2261.4 | 2421.0 | 2417.3 | 2351.8 | 2328.3 |
| 25° | 2397.4 | 2176.1 | 2049.6 | 2038.6 | 2070.2 | 2242.3 | 2461.4 | 2512.2 | 2454.1 | 2420.2 |
| 27.5° | 2454.1 | 2173.1 | 2020.9 | 2017.2 | 2060.6 | 2259.2 | 2519.5 | 2651.2 | 2578.4 | 2553.3 |
| 30° | 2532.8 | 2201.1 | 2027.5 | 2034.9 | 2087.8 | 2320.2 | 2610.0 | 2810.0 | 2737.2 | 2698.2 |
| 32.5° | 2646.0 | 2276.1 | 2128.3 | 2159.9 | 2198.9 | 2418.0 | 2742.3 | 2982.1 | 2926.9 | 2869.6 |
| 35° | 2795.3 | 2482.0 | 2426.1 | 2560.7 | 2523.9 | 2632.0 | 2901.9 | 3190.9 | 3124.0 | 3074.0 |
| 37.5° | 2994.6 | 2904.1 | 2955.6 | 3140.9 | 3052.0 | 3036.5 | 3096.8 | 3380.7 | 3343.9 | 3293.9 |
| 40° | 3274.0 | 3292.4 | 3387.3 | 3630.7 | 3502.0 | 3402.7 | 3335.8 | 3523.4 | 3535.9 | 3474.1 |
| 42.5° | 3459.4 | 3543.9 | 3772.7 | 4049.2 | 3871.9 | 3634.4 | 3535.9 | 3705.7 | 3706.5 | 3650.6 |
| 45° | 3528.5 | 3749.9 | 4227.9 | 4546.3 | 4249.9 | 3766.8 | 3646.2 | 3953.6 | 3946.2 | 3882.2 |
| 47.5° | 3503.5 | 3923.4 | 4700.7 | 5187.6 | 4735.3 | 3860.9 | 3630.7 | 4306.6 | 4366.1 | 4269.1 |
| 50° | 3451.3 | 4097.7 | 5253.0 | 5973.0 | 5331.0 | 3960.9 | 3607.2 | 4697.8 | 4796.4 | 4721.3 |
| 52.5° | 3504.2 | 4291.9 | 5906.1 | 6784.9 | 6078.2 | 4120.5 | 3766.0 | 5200.1 | 5182.4 | 5092.0 |
| 55° | 3671.9 | 4521.3 | 6699.6 | 7804.9 | 6898.9 | 4390.4 | 4174.2 | 5678.8 | 5499.4 | 5391.3 |
| 57.5° | 3663.8 | 4685.3 | 7395.3 | 8611.7 | 7613.0 | 4611.8 | 4316.1 | 5729.6 | 5367.0 | 5230.2 |
| 60° | 3325.5 | 4610.3 | 7660.0 | 9122.0 | 7828.5 | 4489.7 | 3849.1 | 5117.7 | 4528.7 | 4385.3 |
| 62.5° | 2482.0 | 4091.1 | 7146.7 | 8483.0 | 7218.8 | 3877.8 | 2894.6 | 3673.4 | 3254.2 | 3012.2 |
| 65° | 1587.8 | 3200.5 | 6008.3 | 6872.4 | 5950.2 | 2965.9 | 1723.8 | 1969.4 | 1542.9 | 1473.8 |
| 67.5° | 675.8 | 2259.2 | 4670.6 | 4593.4 | 4451.4 | 1921.6 | 665.5 | 554.5 | 413.3 | 405.9 |
| 70° | 223.6 | 1537.0 | 2879.1 | 3063.7 | 2658.5 | 1323.7 | 219.9 | 186.1 | 185.3 | 178.7 |
| 72.5° | 146.3 | 825.1 | 1620.8 | 1804.7 | 1710.6 | 761.9 | 133.1 | 124.3 | 127.2 | 124.3 |
| 75° | 87.5 | 179.4 | 272.8 | 354.5 | 272.8 | 128.0 | 80.2 | 78.7 | 80.2 | 76.5 |
| 77.5° | 51.5 | 50.0 | 48.5 | 48.5 | 47.8 | 44.1 | 40.4 | 39.0 | 39.7 | 40.4 |
| 80° | 33.1 | 31.6 | 30.2 | 29.4 | 25.7 | 24.3 | 22.8 | 21.3 | 21.3 | 22.1 |
| 82.5° | 21.3 | 19.9 | 18.4 | 16.2 | 13.2 | 11.0 | 10.3 | 8.8 | 8.8 | 9.6 |
| 85° | 11.0 | 8.8 | 6.6 | 5.1 | 2.9 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 2.2 | 0.0 | 0.0 | 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

All Brands

Data applicable to all product families using SA light engines

Report Number: SP1-2101-121-7

Luminaire Tested: IFLD-S-SA2A-735-U-T2

Test Date: 03/04/2021

Test Information

Test Method: LM-79-08
 Report Number: SP1-2101-121-7
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1
 Measurement Geometry: 4π
 Issue Date: 03/04/2021
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: STREETWORKS
 Catalog Number: **IFLD-S-SA2A-735-U-T2**
 Description: STREETWORKS INF FLOOD

PROGRAMMED @ 615mA.

Spectral Parameters

| | | | | | |
|---------------------------|--------|-----------|------|------|-------|
| CCT (K): | 3388 | CRI (Ra): | 73.1 | R9: | -34.6 |
| CIE u': | 0.2371 | R1: | 68.9 | R10: | 57.8 |
| CIE v': | 0.5177 | R2: | 81.1 | R11: | 68.6 |
| Duv: | 0.0032 | R3: | 93.1 | R12: | 53.9 |
| CIE x: | 0.4153 | R4: | 71.6 | R13: | 70.9 |
| CIE y: | 0.4030 | R5: | 69.4 | R14: | 96.2 |
| CIE z: | 0.1817 | R6: | 75.0 | | |
| Peak Wavelength (nm): | 590 | R7: | 79.5 | | |
| Dominant Wavelength (nm): | 580 | R8: | 46.4 | | |
| Purity: | 45.7 | | | | |
| Rf: | 76.9 | | | | |
| Rg: | 94.4 | | | | |



Test Conditions

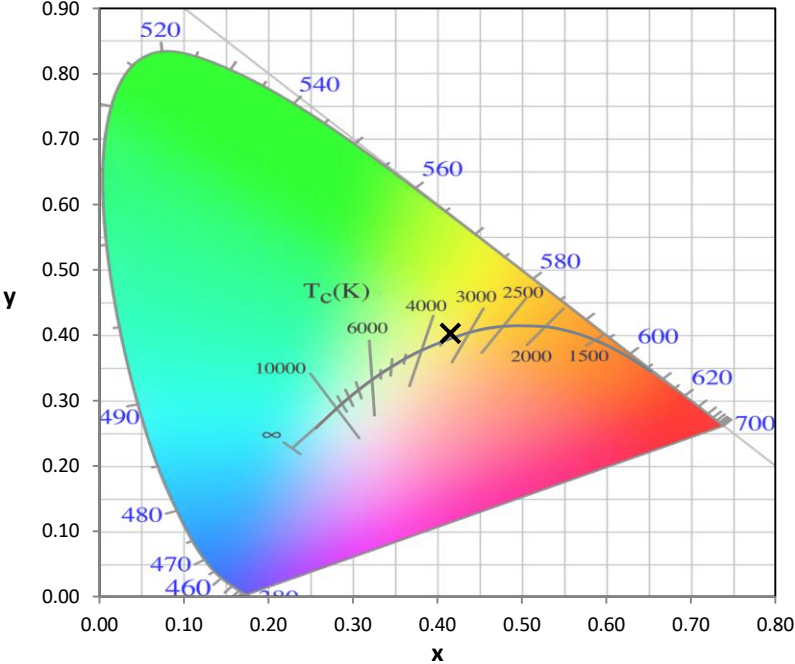
Stabilization Time: 81M
 Operation Time: 12H
 Room Temperature (°C) / RH%: 25.0/30%
 Sphere Temperature (°C): 24.1

REPORT NUMBER: SP1-2101-121-7

| 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: SP1-2101-121-7

CIE 1931 Chromaticity Diagram



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



Point lies inside the ANSI 3500K 4-step quadrangle

REPORT NUMBER: SP1-2101-121-7

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 | 2672 | 0.0 | 490 | 34553 | 4.9 | 620 | 136720 | 35.6 | 750 | 5870 | 0.0 | 880 | 4216 | 0.0 |
| 365 | 2252 | 0.0 | 495 | 44336 | 8.0 | 625 | 126308 | 27.9 | 755 | 5421 | 0.0 | 885 | 4132 | 0.0 |
| 370 | 2217 | 0.0 | 500 | 54643 | 12.1 | 630 | 114625 | 20.7 | 760 | 5097 | 0.0 | 890 | 3992 | 0.0 |
| 375 | 2697 | 0.0 | 505 | 64676 | 18.1 | 635 | 103216 | 15.5 | 765 | 4626 | 0.0 | 895 | 3214 | 0.0 |
| 380 | 3039 | 0.0 | 510 | 73825 | 25.4 | 640 | 92605 | 11.1 | 770 | 3782 | 0.0 | 900 | 2580 | 0.0 |
| 385 | 2655 | 0.0 | 515 | 81872 | 33.9 | 645 | 83234 | 8.0 | 775 | 3506 | 0.0 | 905 | 1776 | 0.0 |
| 390 | 2357 | 0.0 | 520 | 88574 | 43.0 | 650 | 73263 | 5.4 | 780 | 3507 | 0.0 | 910 | 3995 | 0.0 |
| 395 | 2186 | 0.0 | 525 | 93289 | 50.1 | 655 | 64627 | 3.7 | 785 | 3267 | 0.0 | 915 | 4288 | 0.0 |
| 400 | 2015 | 0.0 | 530 | 98393 | 57.9 | 660 | 56614 | 2.4 | 790 | 2849 | 0.0 | 920 | 2446 | 0.0 |
| 405 | 2234 | 0.0 | 535 | 103269 | 64.0 | 665 | 49537 | 1.6 | 795 | 3037 | 0.0 | 925 | 3009 | 0.0 |
| 410 | 3412 | 0.0 | 540 | 107316 | 69.9 | 670 | 42866 | 0.9 | 800 | 2716 | 0.0 | 930 | 3026 | 0.0 |
| 415 | 6135 | 0.0 | 545 | 113101 | 75.3 | 675 | 36708 | 0.6 | 805 | 2648 | 0.0 | 935 | 4734 | 0.0 |
| 420 | 12146 | 0.0 | 550 | 120690 | 82.0 | 680 | 31814 | 0.4 | 810 | 3187 | 0.0 | 940 | 3719 | 0.0 |
| 425 | 23983 | 0.1 | 555 | 128583 | 87.8 | 685 | 27485 | 0.2 | 815 | 2931 | 0.0 | 945 | 1480 | 0.0 |
| 430 | 42142 | 0.3 | 560 | 137796 | 93.6 | 690 | 23698 | 0.1 | 820 | 2717 | 0.0 | 950 | 3450 | 0.0 |
| 435 | 68228 | 0.8 | 565 | 146577 | 97.5 | 695 | 20309 | 0.1 | 825 | 2236 | 0.0 | 955 | 5051 | 0.0 |
| 440 | 99323 | 1.6 | 570 | 154581 | 100.5 | 700 | 17890 | 0.1 | 830 | 2628 | 0.0 | 960 | 3176 | 0.0 |
| 445 | 115584 | 2.4 | 575 | 162633 | 101.2 | 705 | 15500 | 0.0 | 835 | 3140 | 0.0 | 965 | 5178 | 0.0 |
| 450 | 94997 | 2.5 | 580 | 168101 | 99.9 | 710 | 13699 | 0.0 | 840 | 3675 | 0.0 | 970 | 6385 | 0.0 |
| 455 | 61433 | 2.1 | 585 | 173145 | 96.2 | 715 | 12398 | 0.0 | 845 | 3283 | 0.0 | 975 | 3810 | 0.0 |
| 460 | 43373 | 1.8 | 590 | 174675 | 90.3 | 720 | 11147 | 0.0 | 850 | 3055 | 0.0 | 980 | 4322 | 0.0 |
| 465 | 32472 | 1.7 | 595 | 173724 | 82.3 | 725 | 9761 | 0.0 | 855 | 2932 | 0.0 | 985 | 4200 | 0.0 |
| 470 | 24257 | 1.5 | 600 | 171241 | 73.8 | 730 | 8651 | 0.0 | 860 | 3382 | 0.0 | 990 | 4661 | 0.0 |
| 475 | 21690 | 1.7 | 605 | 165134 | 64.0 | 735 | 7730 | 0.0 | 865 | 2605 | 0.0 | 995 | 6746 | 0.0 |
| 480 | 23173 | 2.2 | 610 | 156652 | 53.8 | 740 | 6847 | 0.0 | 870 | 3325 | 0.0 | 1000 | 4150 | 0.0 |
| 485 | 27564 | 3.3 | 615 | 147879 | 44.6 | 745 | 6124 | 0.0 | 875 | 3325 | 0.0 | | | |

REPORT NUMBER: SP1-2101-121-7

Scotopic Flux vs. Wavelength



Scotopic Lumens: 12126

S/P: 1.36

| 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 | 2672 | 0.0 | 490 | 34553 | 53.2 | 620 | 136720 | 1.7 | 750 | 5870 | 0.0 | 880 | 4216 | 0.0 |
| 365 | 2252 | 0.0 | 495 | 44336 | 71.7 | 625 | 126308 | 1.1 | 755 | 5421 | 0.0 | 885 | 4132 | 0.0 |
| 370 | 2217 | 0.0 | 500 | 54643 | 91.4 | 630 | 114625 | 0.6 | 760 | 5097 | 0.0 | 890 | 3992 | 0.0 |
| 375 | 2697 | 0.0 | 505 | 64676 | 110.0 | 635 | 103216 | 0.4 | 765 | 4626 | 0.0 | 895 | 3214 | 0.0 |
| 380 | 3039 | 0.0 | 510 | 73825 | 125.1 | 640 | 92605 | 0.2 | 770 | 3782 | 0.0 | 900 | 2580 | 0.0 |
| 385 | 2655 | 0.0 | 515 | 81872 | 135.7 | 645 | 83234 | 0.1 | 775 | 3506 | 0.0 | 905 | 1776 | 0.0 |
| 390 | 2357 | 0.0 | 520 | 88574 | 140.8 | 650 | 73263 | 0.1 | 780 | 3507 | 0.0 | 910 | 3995 | 0.0 |
| 395 | 2186 | 0.0 | 525 | 93289 | 139.6 | 655 | 64627 | 0.1 | 785 | 3267 | 0.0 | 915 | 4288 | 0.0 |
| 400 | 2015 | 0.0 | 530 | 98393 | 135.7 | 660 | 56614 | 0.0 | 790 | 2849 | 0.0 | 920 | 2446 | 0.0 |
| 405 | 2234 | 0.1 | 535 | 103269 | 128.7 | 665 | 49537 | 0.0 | 795 | 3037 | 0.0 | 925 | 3009 | 0.0 |
| 410 | 3412 | 0.2 | 540 | 107316 | 118.6 | 670 | 42866 | 0.0 | 800 | 2716 | 0.0 | 930 | 3026 | 0.0 |
| 415 | 6135 | 0.6 | 545 | 113101 | 108.4 | 675 | 36708 | 0.0 | 805 | 2648 | 0.0 | 935 | 4734 | 0.0 |
| 420 | 12146 | 2.0 | 550 | 120690 | 98.7 | 680 | 31814 | 0.0 | 810 | 3187 | 0.0 | 940 | 3719 | 0.0 |
| 425 | 23983 | 5.9 | 555 | 128583 | 87.9 | 685 | 27485 | 0.0 | 815 | 2931 | 0.0 | 945 | 1480 | 0.0 |
| 430 | 42142 | 14.3 | 560 | 137796 | 77.0 | 690 | 23698 | 0.0 | 820 | 2717 | 0.0 | 950 | 3450 | 0.0 |
| 435 | 68228 | 30.5 | 565 | 146577 | 65.8 | 695 | 20309 | 0.0 | 825 | 2236 | 0.0 | 955 | 5051 | 0.0 |
| 440 | 99323 | 55.5 | 570 | 154581 | 54.6 | 700 | 17890 | 0.0 | 830 | 2628 | 0.0 | 960 | 3176 | 0.0 |
| 445 | 115584 | 77.4 | 575 | 162633 | 44.3 | 705 | 15500 | 0.0 | 835 | 3140 | 0.0 | 965 | 5178 | 0.0 |
| 450 | 94997 | 73.6 | 580 | 168101 | 34.6 | 710 | 13699 | 0.0 | 840 | 3675 | 0.0 | 970 | 6385 | 0.0 |
| 455 | 61433 | 53.7 | 585 | 173145 | 26.5 | 715 | 12398 | 0.0 | 845 | 3283 | 0.0 | 975 | 3810 | 0.0 |
| 460 | 43373 | 41.9 | 590 | 174675 | 19.5 | 720 | 11147 | 0.0 | 850 | 3055 | 0.0 | 980 | 4322 | 0.0 |
| 465 | 32472 | 34.3 | 595 | 173724 | 13.9 | 725 | 9761 | 0.0 | 855 | 2932 | 0.0 | 985 | 4200 | 0.0 |
| 470 | 24257 | 27.9 | 600 | 171241 | 9.7 | 730 | 8651 | 0.0 | 860 | 3382 | 0.0 | 990 | 4661 | 0.0 |
| 475 | 21690 | 27.1 | 605 | 165134 | 6.5 | 735 | 7730 | 0.0 | 865 | 2605 | 0.0 | 995 | 6746 | 0.0 |
| 480 | 23173 | 31.3 | 610 | 156652 | 4.2 | 740 | 6847 | 0.0 | 870 | 3325 | 0.0 | 1000 | 4150 | 0.0 |
| 485 | 27564 | 40.0 | 615 | 147879 | 2.7 | 745 | 6124 | 0.0 | 875 | 3325 | 0.0 | | | |

REPORT NUMBER: SP1-2101-121-7

Melanopic Flux vs. Wavelength



Melanopic Lumens: 4490.7 M/P: 0.5

| 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 | 2672 | 0.0 | 490 | 34553 | 28.8 | 620 | 136720 | 0.1 | 750 | 5870 | 0.0 | 880 | 4216 | 0.0 |
| 365 | 2252 | 0.0 | 495 | 44336 | 36.6 | 625 | 126308 | 0.1 | 755 | 5421 | 0.0 | 885 | 4132 | 0.0 |
| 370 | 2217 | 0.0 | 500 | 54643 | 43.9 | 630 | 114625 | 0.0 | 760 | 5097 | 0.0 | 890 | 3992 | 0.0 |
| 375 | 2697 | 0.0 | 505 | 64676 | 49.6 | 635 | 103216 | 0.0 | 765 | 4626 | 0.0 | 895 | 3214 | 0.0 |
| 380 | 3039 | 0.0 | 510 | 73825 | 53.0 | 640 | 92605 | 0.0 | 770 | 3782 | 0.0 | 900 | 2580 | 0.0 |
| 385 | 2655 | 0.0 | 515 | 81872 | 53.5 | 645 | 83234 | 0.0 | 775 | 3506 | 0.0 | 905 | 1776 | 0.0 |
| 390 | 2357 | 0.0 | 520 | 88574 | 51.6 | 650 | 73263 | 0.0 | 780 | 3507 | 0.0 | 910 | 3995 | 0.0 |
| 395 | 2186 | 0.0 | 525 | 93289 | 47.3 | 655 | 64627 | 0.0 | 785 | 3267 | 0.0 | 915 | 4288 | 0.0 |
| 400 | 2015 | 0.0 | 530 | 98393 | 42.5 | 660 | 56614 | 0.0 | 790 | 2849 | 0.0 | 920 | 2446 | 0.0 |
| 405 | 2234 | 0.0 | 535 | 103269 | 37.2 | 665 | 49537 | 0.0 | 795 | 3037 | 0.0 | 925 | 3009 | 0.0 |
| 410 | 3412 | 0.1 | 540 | 107316 | 31.4 | 670 | 42866 | 0.0 | 800 | 2716 | 0.0 | 930 | 3026 | 0.0 |
| 415 | 6135 | 0.4 | 545 | 113101 | 26.3 | 675 | 36708 | 0.0 | 805 | 2648 | 0.0 | 935 | 4734 | 0.0 |
| 420 | 12146 | 1.4 | 550 | 120690 | 21.7 | 680 | 31814 | 0.0 | 810 | 3187 | 0.0 | 940 | 3719 | 0.0 |
| 425 | 23983 | 3.7 | 555 | 128583 | 17.3 | 685 | 27485 | 0.0 | 815 | 2931 | 0.0 | 945 | 1480 | 0.0 |
| 430 | 42142 | 8.9 | 560 | 137796 | 13.6 | 690 | 23698 | 0.0 | 820 | 2717 | 0.0 | 950 | 3450 | 0.0 |
| 435 | 68228 | 18.2 | 565 | 146577 | 10.3 | 695 | 20309 | 0.0 | 825 | 2236 | 0.0 | 955 | 5051 | 0.0 |
| 440 | 99323 | 33.2 | 570 | 154581 | 7.6 | 700 | 17890 | 0.0 | 830 | 2628 | 0.0 | 960 | 3176 | 0.0 |
| 445 | 115584 | 45.6 | 575 | 162633 | 5.4 | 705 | 15500 | 0.0 | 835 | 3140 | 0.0 | 965 | 5178 | 0.0 |
| 450 | 94997 | 43.8 | 580 | 168101 | 3.8 | 710 | 13699 | 0.0 | 840 | 3675 | 0.0 | 970 | 6385 | 0.0 |
| 455 | 61433 | 32.2 | 585 | 173145 | 2.6 | 715 | 12398 | 0.0 | 845 | 3283 | 0.0 | 975 | 3810 | 0.0 |
| 460 | 43373 | 25.6 | 590 | 174675 | 1.7 | 720 | 11147 | 0.0 | 850 | 3055 | 0.0 | 980 | 4322 | 0.0 |
| 465 | 32472 | 21.2 | 595 | 173724 | 1.1 | 725 | 9761 | 0.0 | 855 | 2932 | 0.0 | 985 | 4200 | 0.0 |
| 470 | 24257 | 17.4 | 600 | 171241 | 0.7 | 730 | 8651 | 0.0 | 860 | 3382 | 0.0 | 990 | 4661 | 0.0 |
| 475 | 21690 | 16.6 | 605 | 165134 | 0.5 | 735 | 7730 | 0.0 | 865 | 2605 | 0.0 | 995 | 6746 | 0.0 |
| 480 | 23173 | 18.6 | 610 | 156652 | 0.3 | 740 | 6847 | 0.0 | 870 | 3325 | 0.0 | 1000 | 4150 | 0.0 |
| 485 | 27564 | 22.7 | 615 | 147879 | 0.2 | 745 | 6124 | 0.0 | 875 | 3325 | 0.0 | | | |

Summary

$R_f = 76.9$
 $R_g = 94.4$
 $CIE R_a = 73.1$
 $R_g = -34.6$



Color Vector Graphics

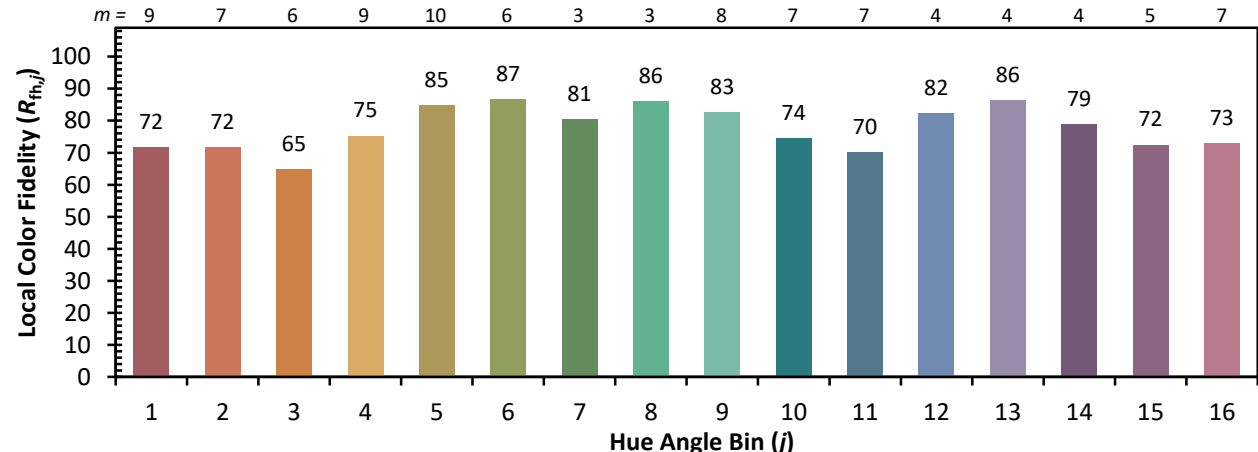
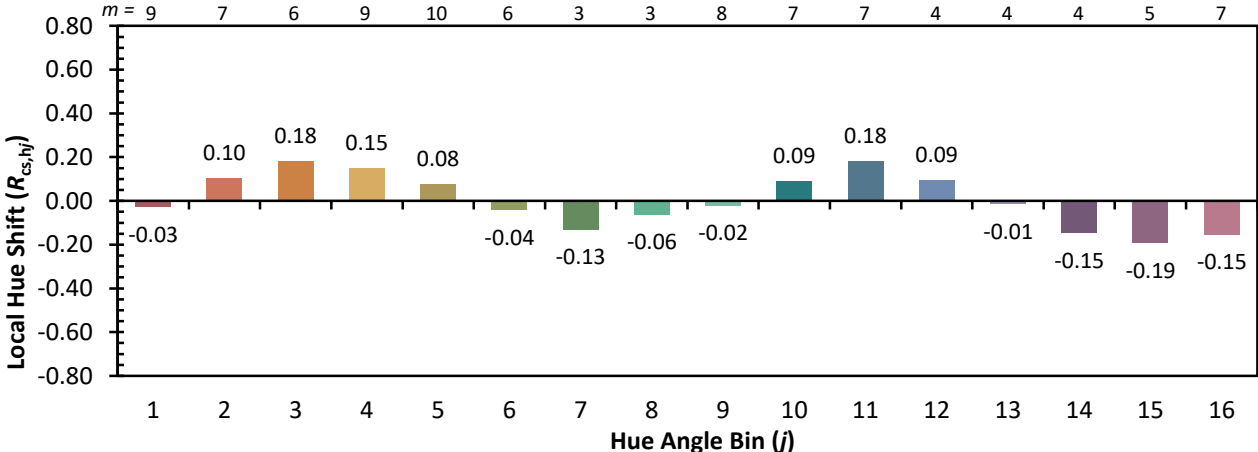
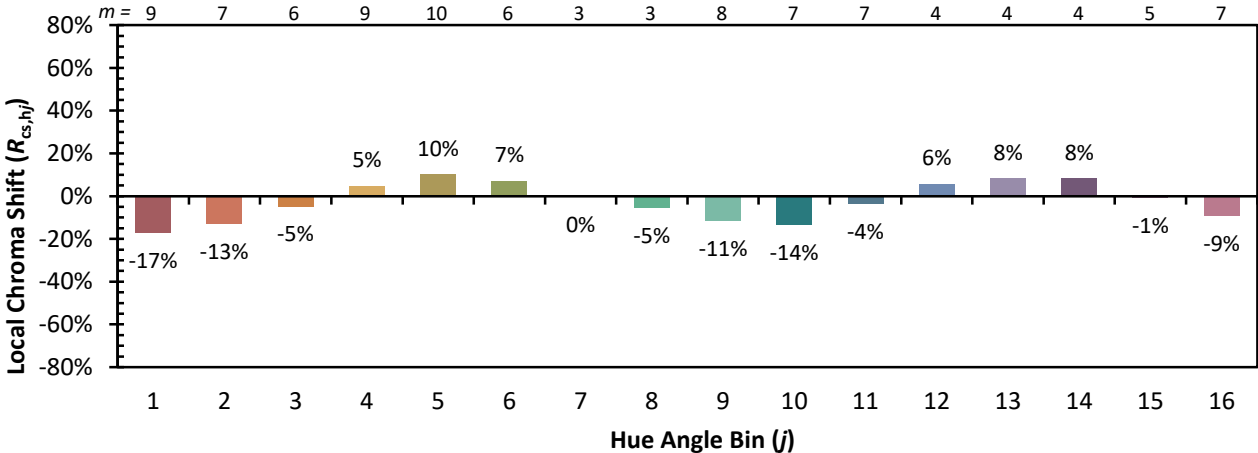


Individual Sample Fidelity Index ($R_{f,i}$)

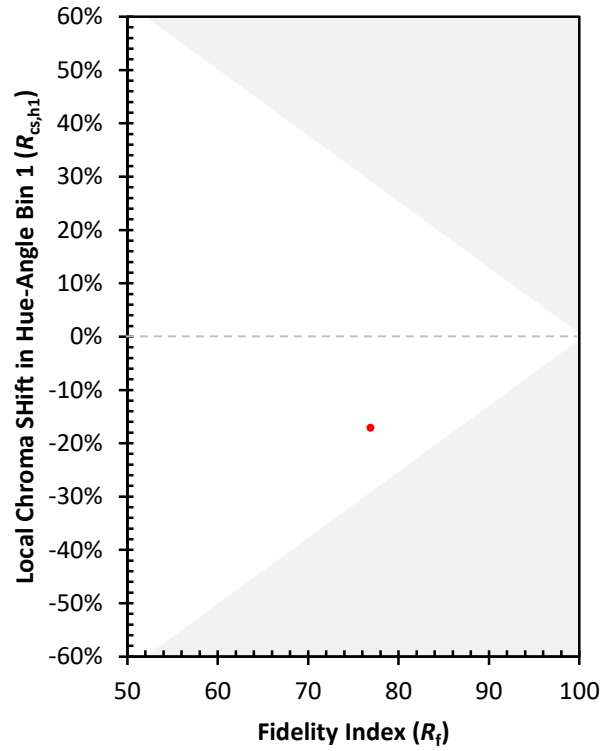
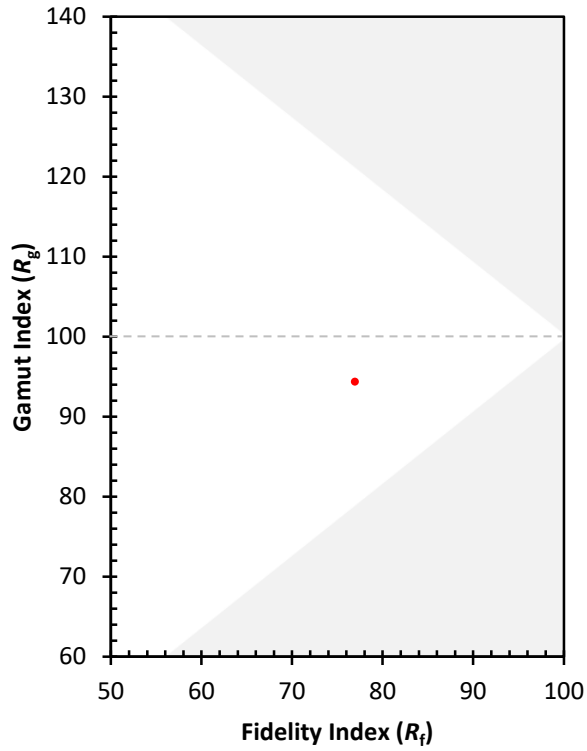
| | | | |
|------------|------------|------------|------------|
| CES01 = 86 | CES26 = 68 | CES51 = 90 | CES76 = 63 |
| CES02 = 62 | CES27 = 88 | CES52 = 89 | CES77 = 80 |
| CES03 = 31 | CES28 = 87 | CES53 = 80 | CES78 = 65 |
| CES04 = 70 | CES29 = 67 | CES54 = 84 | CES79 = 87 |
| CES05 = 48 | CES30 = 74 | CES55 = 84 | CES80 = 86 |
| CES06 = 51 | CES31 = 71 | CES56 = 75 | CES81 = 75 |
| CES07 = 40 | CES32 = 67 | CES57 = 74 | CES82 = 94 |
| CES08 = 39 | CES33 = 74 | CES58 = 76 | CES83 = 91 |
| CES09 = 29 | CES34 = 78 | CES59 = 87 | CES84 = 89 |
| CES10 = 75 | CES35 = 89 | CES60 = 93 | CES85 = 80 |
| CES11 = 58 | CES36 = 98 | CES61 = 86 | CES86 = 66 |
| CES12 = 64 | CES37 = 86 | CES62 = 89 | CES87 = 79 |
| CES13 = 43 | CES38 = 82 | CES63 = 77 | CES88 = 79 |
| CES14 = 74 | CES39 = 95 | CES64 = 74 | CES89 = 70 |
| CES15 = 71 | CES40 = 91 | CES65 = 68 | CES90 = 77 |
| CES16 = 47 | CES41 = 89 | CES66 = 71 | CES91 = 88 |
| CES17 = 50 | CES42 = 88 | CES67 = 69 | CES92 = 60 |
| CES18 = 56 | CES43 = 82 | CES68 = 74 | CES93 = 77 |
| CES19 = 72 | CES44 = 99 | CES69 = 82 | CES94 = 52 |
| CES20 = 65 | CES45 = 87 | CES70 = 67 | CES95 = 69 |
| CES21 = 86 | CES46 = 82 | CES71 = 66 | CES96 = 78 |
| CES22 = 79 | CES47 = 82 | CES72 = 88 | CES97 = 85 |
| CES23 = 92 | CES48 = 72 | CES73 = 59 | CES98 = 76 |
| CES24 = 91 | CES49 = 82 | CES74 = 97 | CES99 = 63 |
| CES25 = 72 | CES50 = 88 | CES75 = 66 | |



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)