

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



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: INVUE

Report Number: P253175

Luminaire Tested: **LXS-B2-LED-D1-T3-A-7030**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P253175  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1803-687-22)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: LXS-B2-LED-D1-T3-A-7030  
Description: LUXESCAPE OUTDOOR ARCHITECTURAL LUMINAIRE  
70 CRI, 3000K LEDS AND TYPE III OPTIC, GRAPHITE METALLIC PAINTED FINISH,  
ARM MOUNT  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4458 lumens  
Efficiency: N/A  
Efficacy: 92.9 lumens/watt  
Luminous Opening: Circular (Dia: 1.62' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G2

Input Watts (W): 48  
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: 25 FT

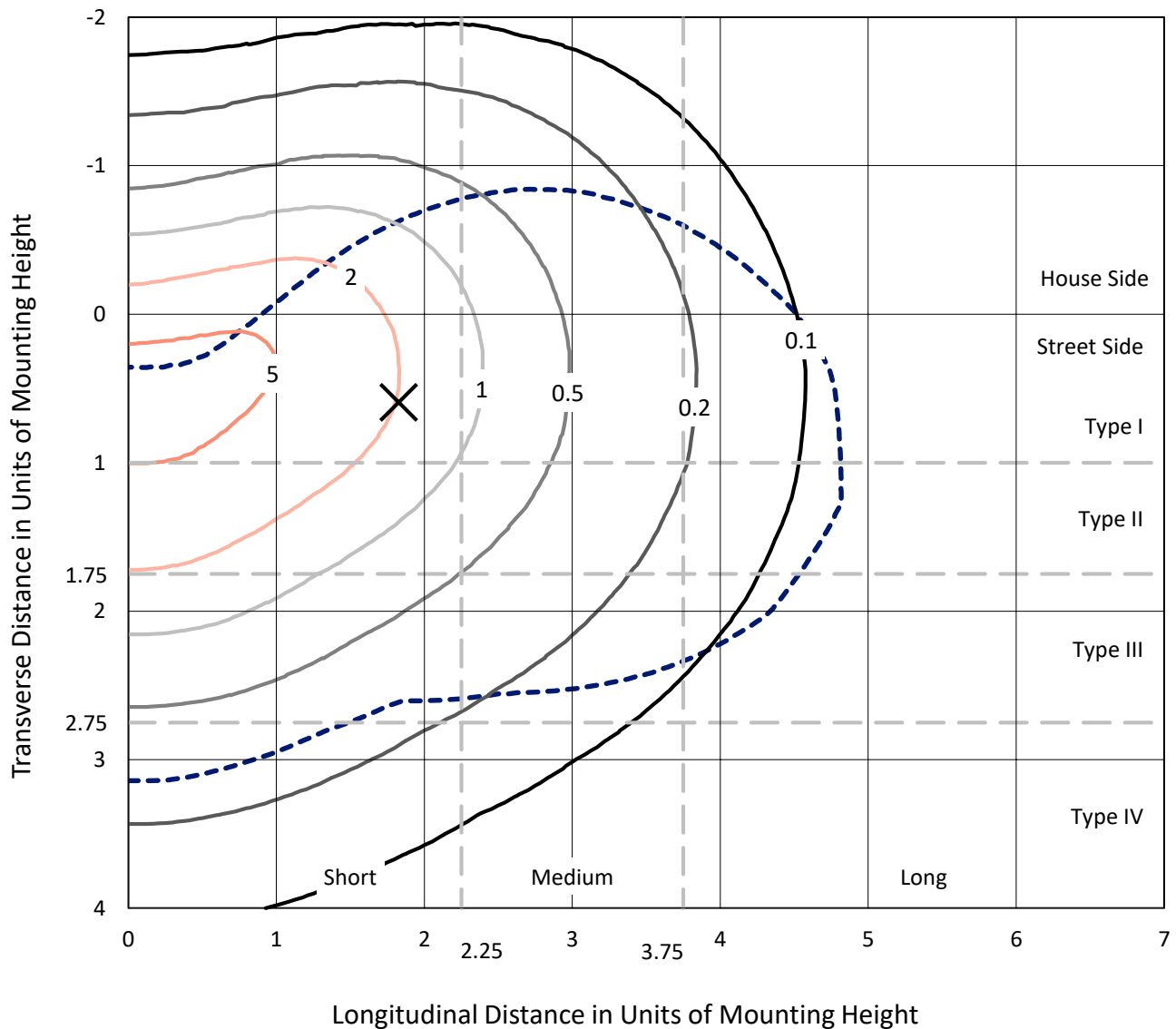


REPORT NUMBER: P253175

CATALOG NUMBER: LXS-B2-LED-D1-T3-A-7030

## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 --- 1/2 Max cd

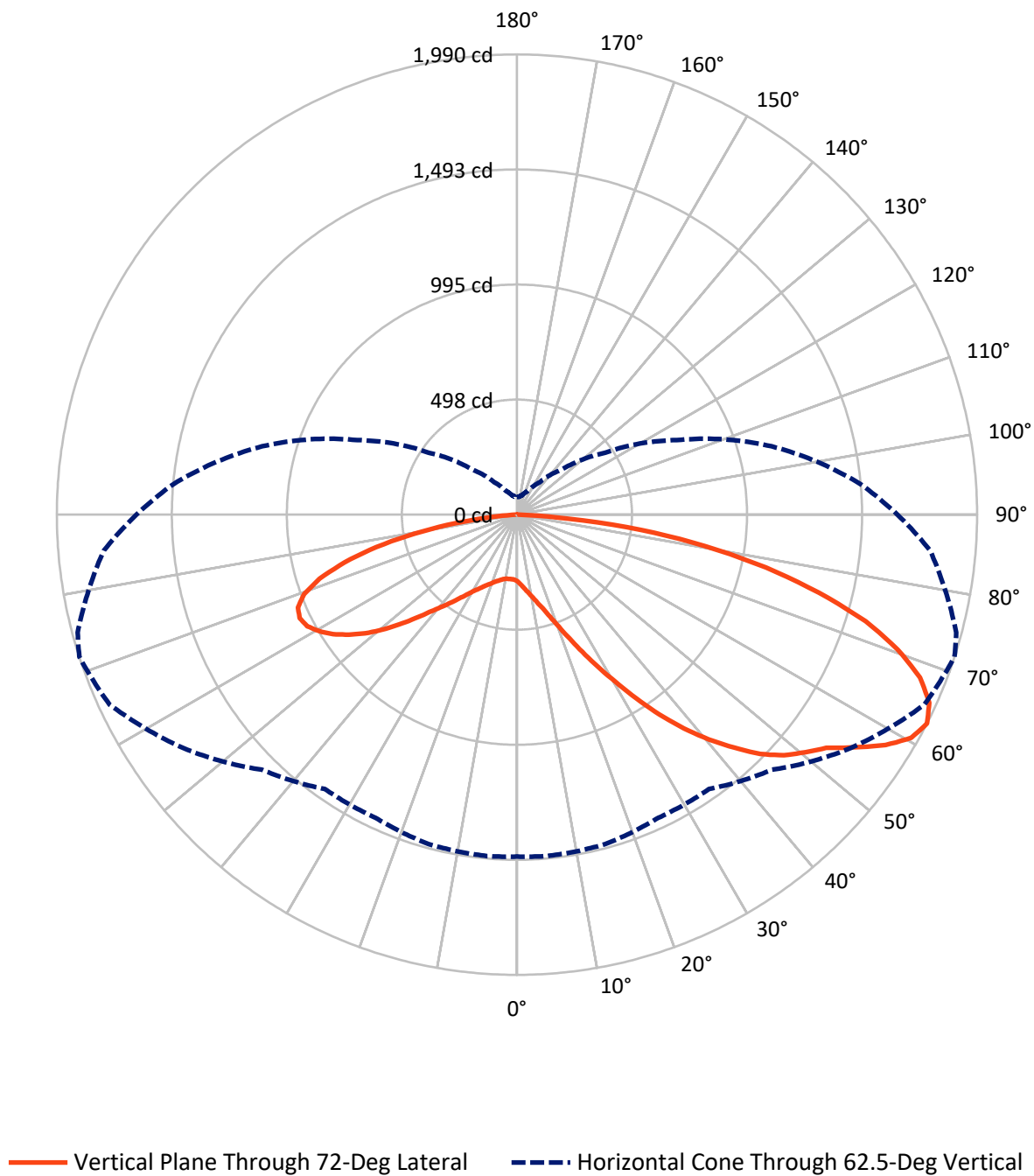


Based on 10 foot mounting height. Maximum calculated value = 8.6 fc  
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P253175

CATALOG NUMBER: LXS-B2-LED-D1-T3-A-7030

## Luminous Intensity Polar Plot



REPORT NUMBER: P253175

CATALOG NUMBER: LXS-B2-LED-D1-T3-A-7030

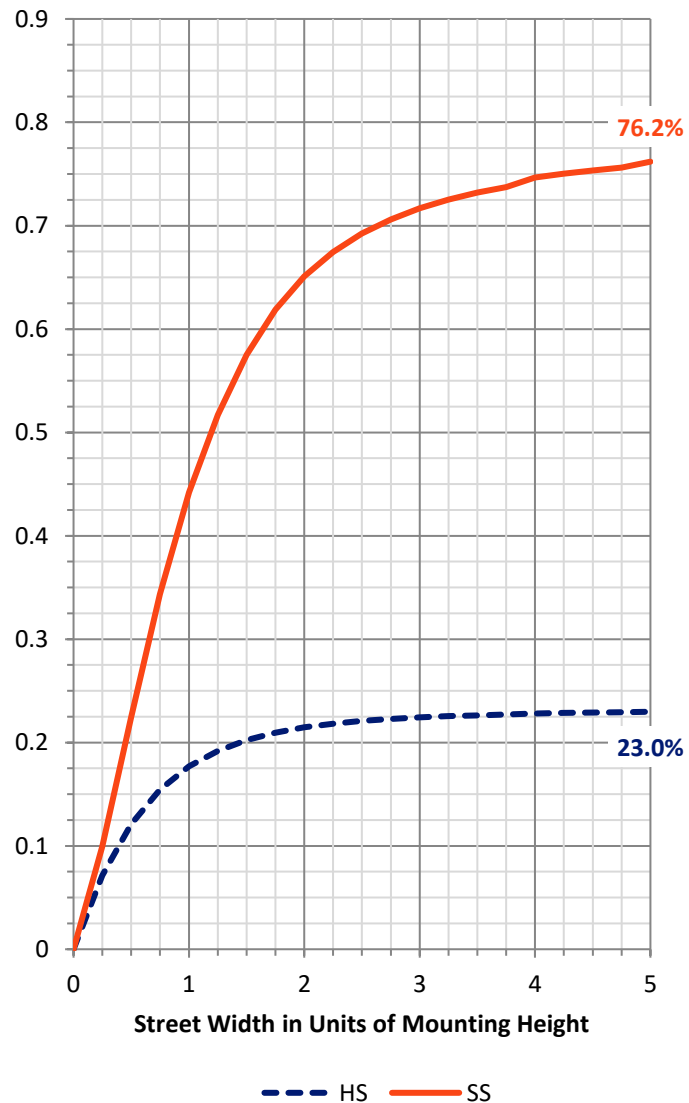
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1028.3   | 0.0    | 1028.3 |
|                    | % Fixture | 23.1     | 0.0    | 23.1   |
| <b>Street Side</b> | Lumens    | 3429.7   | 0.0    | 3429.7 |
|                    | % Fixture | 76.9     | 0.0    | 76.9   |
| <b>Total</b>       | Lumens    | 4458.0   | 0.0    | 4458.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 29.8   | 0.7       |
| 10°-20°   | 116.2  | 2.6       |
| 20°-30°   | 268.8  | 6.0       |
| 30°-40°   | 477.4  | 10.7      |
| 40°-50°   | 701.6  | 15.7      |
| 50°-60°   | 940.0  | 21.1      |
| 60°-70°   | 1023.6 | 23.0      |
| 70°-80°   | 734.2  | 16.5      |
| 80°-90°   | 166.3  | 3.7       |
| 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°    | 4458.0 | 100.0     |
| 0°-180°   | 4458.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P253175

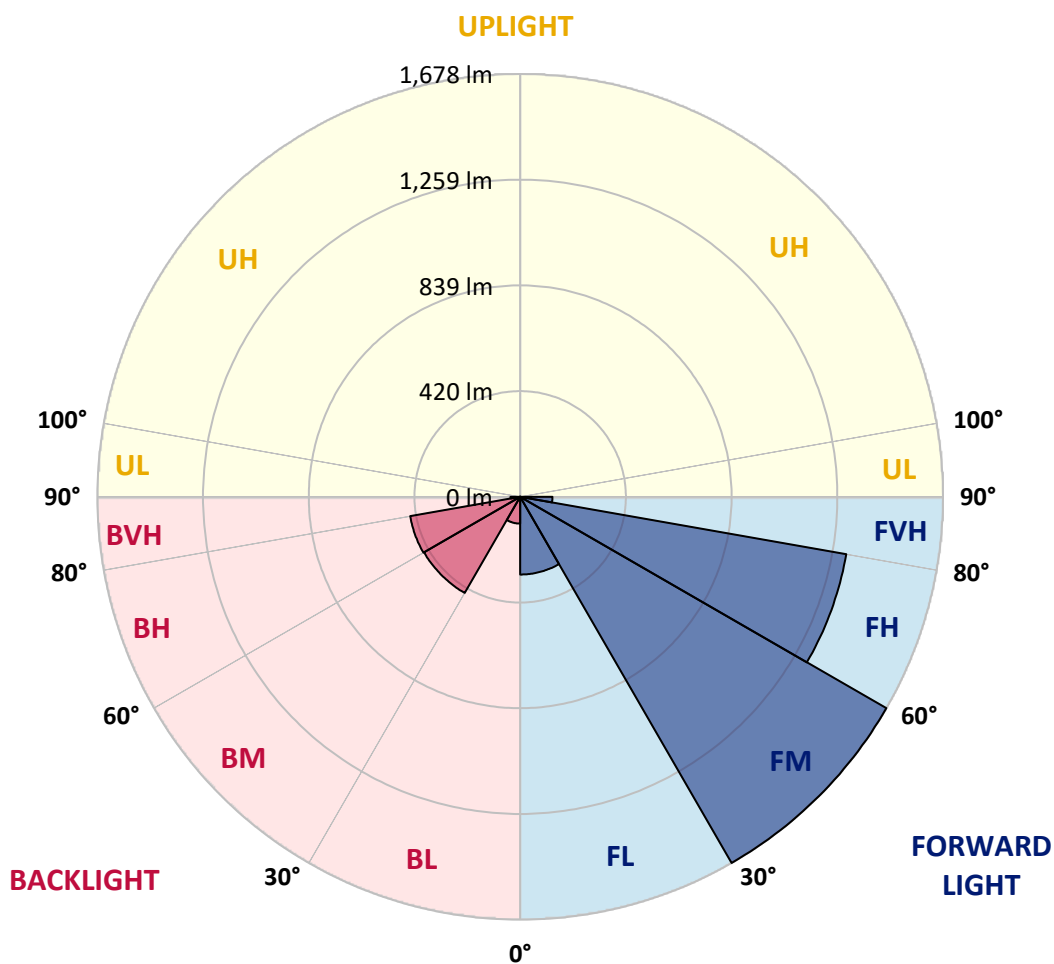
CATALOG NUMBER: LXS-B2-LED-D1-T3-A-7030

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 308.5  | 6.9       |                         |      |         |
| FM   | (30°-60°)   | 1678.5 | 37.7      |                         |      |         |
| FH   | (60°-80°)   | 1314.5 | 29.5      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 128.2  | 2.9       |                         |      | G2/225  |
| BL   | (0°-30°)    | 106.4  | 2.4       | B0/110                  |      |         |
| BM   | (30°-60°)   | 440.5  | 9.9       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 443.3  | 9.9       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 38.2   | 0.9       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G2**

Type IV Short



REPORT NUMBER: P253175

CATALOG NUMBER: LXS-B2-LED-D1-T3-A-7030

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 72°    | 75°    | 85°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 287.8  | 287.8  | 287.8  | 287.8  | 287.8  | 287.8  | 287.8  | 287.8  | 287.8  | 287.8  | 287.8  |
| 2.5°   | 326.9  | 326.9  | 326.9  | 325.1  | 321.6  | 316.3  | 312.7  | 305.6  | 302.1  | 300.3  | 294.9  |
| 5°     | 367.8  | 367.8  | 366.0  | 364.2  | 357.1  | 348.2  | 339.4  | 326.9  | 318.0  | 314.5  | 303.8  |
| 7.5°   | 415.8  | 415.8  | 412.2  | 405.1  | 396.2  | 383.8  | 367.8  | 350.0  | 337.6  | 332.3  | 314.5  |
| 10°    | 474.4  | 472.6  | 469.1  | 453.1  | 440.6  | 422.9  | 403.3  | 378.5  | 360.7  | 353.6  | 328.7  |
| 12.5°  | 545.5  | 547.2  | 538.4  | 522.4  | 501.0  | 472.6  | 442.4  | 412.2  | 389.1  | 378.5  | 344.7  |
| 15°    | 668.1  | 668.1  | 650.3  | 616.5  | 582.8  | 536.6  | 493.9  | 449.5  | 421.1  | 408.7  | 366.0  |
| 17.5°  | 923.9  | 911.5  | 879.5  | 787.1  | 703.6  | 629.0  | 565.0  | 501.0  | 463.7  | 444.2  | 390.9  |
| 20°    | 1041.2 | 1039.4 | 1027.0 | 977.2  | 868.8  | 746.2  | 657.4  | 566.8  | 517.0  | 495.7  | 421.1  |
| 22.5°  | 1074.9 | 1073.2 | 1064.3 | 1048.3 | 1002.1 | 870.6  | 758.7  | 648.5  | 581.0  | 554.4  | 462.0  |
| 25°    | 1126.5 | 1126.5 | 1112.3 | 1082.1 | 1062.5 | 989.7  | 854.6  | 740.9  | 657.4  | 625.4  | 513.5  |
| 27.5°  | 1160.2 | 1160.2 | 1158.5 | 1140.7 | 1101.6 | 1073.2 | 957.7  | 838.6  | 742.7  | 705.4  | 579.2  |
| 30°    | 1224.2 | 1218.9 | 1211.8 | 1195.8 | 1176.2 | 1130.0 | 1071.4 | 936.4  | 838.6  | 790.7  | 650.3  |
| 32.5°  | 1398.3 | 1385.9 | 1330.8 | 1266.8 | 1242.0 | 1201.1 | 1170.9 | 1037.6 | 947.0  | 893.7  | 733.8  |
| 35°    | 1508.5 | 1503.1 | 1462.3 | 1369.9 | 1300.6 | 1277.5 | 1243.7 | 1149.6 | 1060.7 | 1005.7 | 829.8  |
| 37.5°  | 1544.0 | 1540.5 | 1512.0 | 1453.4 | 1369.9 | 1337.9 | 1314.8 | 1256.2 | 1172.7 | 1121.1 | 934.6  |
| 40°    | 1584.9 | 1577.8 | 1533.4 | 1481.8 | 1428.5 | 1385.9 | 1385.9 | 1353.9 | 1277.5 | 1233.1 | 1039.4 |
| 42.5°  | 1561.8 | 1565.3 | 1536.9 | 1483.6 | 1453.4 | 1425.0 | 1446.3 | 1441.0 | 1377.0 | 1343.2 | 1142.5 |
| 45°    | 1421.4 | 1435.6 | 1465.8 | 1478.3 | 1439.2 | 1455.2 | 1494.3 | 1515.6 | 1476.5 | 1441.0 | 1242.0 |
| 47.5°  | 1419.6 | 1416.1 | 1441.0 | 1444.5 | 1449.8 | 1480.0 | 1533.4 | 1579.5 | 1554.7 | 1528.0 | 1336.1 |
| 50°    | 1528.0 | 1515.6 | 1496.0 | 1488.9 | 1494.3 | 1510.3 | 1570.7 | 1629.3 | 1615.1 | 1602.6 | 1426.7 |
| 52.5°  | 1599.1 | 1584.9 | 1522.7 | 1506.7 | 1519.1 | 1556.4 | 1636.4 | 1693.3 | 1675.5 | 1668.4 | 1513.8 |
| 55°    | 1725.2 | 1712.8 | 1629.3 | 1533.4 | 1549.3 | 1613.3 | 1721.7 | 1782.1 | 1775.0 | 1748.3 | 1599.1 |
| 57.5°  | 1668.4 | 1671.9 | 1645.3 | 1551.1 | 1563.6 | 1634.6 | 1783.9 | 1872.7 | 1879.8 | 1844.3 | 1680.8 |
| 60°    | 1565.3 | 1568.9 | 1563.6 | 1519.1 | 1526.2 | 1615.1 | 1794.5 | 1938.5 | 1959.8 | 1924.2 | 1751.9 |
| 62.5°  | 1478.3 | 1481.8 | 1474.7 | 1446.3 | 1448.1 | 1560.0 | 1760.8 | 1943.8 | 1990.0 | 1966.9 | 1794.5 |
| 65°    | 1345.0 | 1357.5 | 1369.9 | 1341.5 | 1355.7 | 1480.0 | 1686.2 | 1897.6 | 1959.8 | 1950.9 | 1799.9 |
| 67.5°  | 1208.2 | 1217.1 | 1240.2 | 1233.1 | 1254.4 | 1378.8 | 1584.9 | 1807.0 | 1879.8 | 1878.0 | 1757.2 |
| 70°    | 1098.0 | 1101.6 | 1105.1 | 1110.5 | 1131.8 | 1254.4 | 1458.7 | 1670.2 | 1746.6 | 1762.6 | 1661.3 |
| 72.5°  | 982.6  | 984.3  | 975.4  | 968.3  | 991.4  | 1119.4 | 1305.9 | 1492.5 | 1577.8 | 1592.0 | 1508.5 |
| 75°    | 844.0  | 847.5  | 828.0  | 817.3  | 842.2  | 955.9  | 1126.5 | 1286.4 | 1348.6 | 1378.8 | 1305.9 |
| 77.5°  | 712.5  | 700.0  | 682.3  | 664.5  | 687.6  | 785.3  | 929.2  | 1057.2 | 1101.6 | 1119.4 | 1064.3 |
| 80°    | 557.9  | 543.7  | 522.4  | 508.2  | 525.9  | 602.3  | 712.5  | 803.1  | 826.2  | 838.6  | 788.9  |
| 82.5°  | 383.8  | 371.3  | 350.0  | 335.8  | 351.8  | 406.9  | 481.5  | 527.7  | 541.9  | 547.2  | 492.2  |
| 85°    | 183.0  | 172.3  | 161.7  | 159.9  | 172.3  | 193.7  | 206.1  | 223.9  | 223.9  | 211.4  | 206.1  |
| 87.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.8    | 1.8    | 1.8    | 1.8    | 1.8    | 1.8    |
| 90°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 92.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 95°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 97.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 100°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 102.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 105°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 107.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 110°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

REPORT NUMBER: P253175

CATALOG NUMBER: LXS-B2-LED-D1-T3-A-7030

**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 5°  | 15° | 25° | 35° | 45° | 55° | 65° | 72° | 75° | 85° |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 112.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 115°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 117.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 120°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 122.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 125°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 127.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 130°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 132.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 135°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 137.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 140°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 142.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 145°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 147.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 150°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 152.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 155°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 157.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 160°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 162.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 165°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

REPORT NUMBER: P253175

CATALOG NUMBER: LXS-B2-LED-D1-T3-A-7030

**CANDELA DISTRIBUTION (continued):**

|        | 90°    | 95°    | 105°   | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 287.8  | 287.8  | 287.8  | 287.8 | 287.8 | 287.8 | 287.8 | 287.8 | 287.8 | 287.8 | 287.8 |
| 2.5°   | 291.4  | 287.8  | 282.5  | 279.0 | 273.6 | 270.1 | 268.3 | 266.5 | 264.7 | 263.0 | 263.0 |
| 5°     | 298.5  | 291.4  | 282.5  | 273.6 | 264.7 | 257.6 | 252.3 | 248.7 | 245.2 | 243.4 | 243.4 |
| 7.5°   | 307.4  | 298.5  | 284.3  | 270.1 | 257.6 | 248.7 | 239.9 | 234.5 | 231.0 | 229.2 | 229.2 |
| 10°    | 318.0  | 307.4  | 286.1  | 268.3 | 254.1 | 241.6 | 231.0 | 223.9 | 220.3 | 216.8 | 216.8 |
| 12.5°  | 332.3  | 318.0  | 291.4  | 270.1 | 252.3 | 236.3 | 223.9 | 215.0 | 209.7 | 206.1 | 204.3 |
| 15°    | 348.2  | 332.3  | 300.3  | 273.6 | 252.3 | 232.8 | 216.8 | 206.1 | 199.0 | 195.4 | 195.4 |
| 17.5°  | 369.6  | 350.0  | 310.9  | 279.0 | 252.3 | 229.2 | 211.4 | 199.0 | 190.1 | 186.6 | 186.6 |
| 20°    | 394.4  | 369.6  | 323.4  | 286.1 | 254.1 | 227.4 | 207.9 | 191.9 | 181.2 | 177.7 | 175.9 |
| 22.5°  | 424.6  | 396.2  | 337.6  | 294.9 | 255.9 | 225.6 | 202.6 | 184.8 | 174.1 | 167.0 | 167.0 |
| 25°    | 465.5  | 426.4  | 355.4  | 303.8 | 259.4 | 225.6 | 197.2 | 177.7 | 165.2 | 158.1 | 158.1 |
| 27.5°  | 517.0  | 465.5  | 376.7  | 314.5 | 264.7 | 223.9 | 193.7 | 170.6 | 156.4 | 149.2 | 147.5 |
| 30°    | 575.7  | 513.5  | 401.5  | 326.9 | 270.1 | 223.9 | 188.3 | 163.5 | 147.5 | 138.6 | 136.8 |
| 32.5°  | 645.0  | 570.3  | 433.5  | 342.9 | 275.4 | 223.9 | 183.0 | 154.6 | 138.6 | 127.9 | 127.9 |
| 35°    | 719.6  | 634.3  | 472.6  | 360.7 | 282.5 | 223.9 | 179.5 | 149.2 | 129.7 | 120.8 | 120.8 |
| 37.5°  | 810.2  | 708.9  | 518.8  | 378.5 | 289.6 | 223.9 | 175.9 | 143.9 | 124.4 | 117.3 | 115.5 |
| 40°    | 909.7  | 790.7  | 568.6  | 403.3 | 300.3 | 225.6 | 174.1 | 142.1 | 122.6 | 113.7 | 111.9 |
| 42.5°  | 1007.4 | 881.3  | 625.4  | 431.8 | 314.5 | 232.8 | 175.9 | 140.4 | 119.0 | 108.4 | 108.4 |
| 45°    | 1110.5 | 973.7  | 694.7  | 472.6 | 332.3 | 238.1 | 175.9 | 136.8 | 115.5 | 104.8 | 104.8 |
| 47.5°  | 1202.9 | 1064.3 | 772.9  | 517.0 | 348.2 | 243.4 | 174.1 | 133.3 | 111.9 | 101.3 | 101.3 |
| 50°    | 1291.7 | 1160.2 | 852.8  | 563.2 | 367.8 | 248.7 | 174.1 | 131.5 | 108.4 | 97.7  | 97.7  |
| 52.5°  | 1375.2 | 1247.3 | 927.5  | 611.2 | 389.1 | 257.6 | 175.9 | 127.9 | 104.8 | 95.9  | 94.2  |
| 55°    | 1451.6 | 1318.4 | 993.2  | 659.2 | 412.2 | 264.7 | 175.9 | 126.2 | 101.3 | 92.4  | 90.6  |
| 57.5°  | 1526.2 | 1384.1 | 1053.6 | 703.6 | 433.5 | 271.8 | 175.9 | 122.6 | 97.7  | 87.1  | 87.1  |
| 60°    | 1595.5 | 1446.3 | 1101.6 | 739.1 | 451.3 | 275.4 | 174.1 | 119.0 | 94.2  | 83.5  | 81.7  |
| 62.5°  | 1645.3 | 1494.3 | 1140.7 | 762.2 | 467.3 | 277.2 | 170.6 | 113.7 | 87.1  | 76.4  | 76.4  |
| 65°    | 1659.5 | 1513.8 | 1156.7 | 769.3 | 474.4 | 275.4 | 165.2 | 108.4 | 78.2  | 69.3  | 69.3  |
| 67.5°  | 1625.7 | 1490.7 | 1142.5 | 764.0 | 465.5 | 264.7 | 154.6 | 99.5  | 67.5  | 62.2  | 62.2  |
| 70°    | 1545.8 | 1416.1 | 1089.2 | 733.8 | 442.4 | 248.7 | 142.1 | 90.6  | 55.1  | 53.3  | 53.3  |
| 72.5°  | 1409.0 | 1289.9 | 993.2  | 675.2 | 405.1 | 223.9 | 126.2 | 78.2  | 44.4  | 44.4  | 46.2  |
| 75°    | 1220.6 | 1114.0 | 854.6  | 588.1 | 351.8 | 193.7 | 106.6 | 60.4  | 33.8  | 37.3  | 37.3  |
| 77.5°  | 991.4  | 895.5  | 685.8  | 478.0 | 284.3 | 156.4 | 83.5  | 42.6  | 24.9  | 28.4  | 28.4  |
| 80°    | 728.5  | 646.7  | 493.9  | 348.2 | 207.9 | 111.9 | 53.3  | 24.9  | 17.8  | 19.5  | 19.5  |
| 82.5°  | 446.0  | 387.3  | 293.2  | 211.4 | 120.8 | 60.4  | 26.7  | 10.7  | 8.9   | 10.7  | 10.7  |
| 85°    | 179.5  | 152.8  | 117.3  | 71.1  | 32.0  | 14.2  | 5.3   | 3.6   | 1.8   | 1.8   | 1.8   |
| 87.5°  | 1.8    | 1.8    | 1.8    | 1.8   | 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   |
| 92.5°  | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 95°    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 97.5°  | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 100°   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 102.5° | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 105°   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 107.5° | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 110°   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

REPORT NUMBER: P253175

CATALOG NUMBER: LXS-B2-LED-D1-T3-A-7030

**CANDELA DISTRIBUTION (continued):**

|        | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|-----|-----|------|------|------|------|------|------|------|------|------|
| 112.5° | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 115°   | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 117.5° | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 120°   | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 122.5° | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 125°   | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 127.5° | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 130°   | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 132.5° | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 135°   | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 137.5° | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 140°   | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 142.5° | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 145°   | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 147.5° | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 150°   | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 152.5° | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 155°   | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 157.5° | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 160°   | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 162.5° | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 165°   | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 167.5° | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 170°   | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 172.5° | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 175°   | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 177.5° | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 180°   | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |

LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

INVUE

Report Number: SP1-2205-670-3

Test Date: 07/01/2022

Luminaire Tested: LXS-VA1-730-U-SYM-A

Data in this report applies to families of products including LXS-VA1-730.

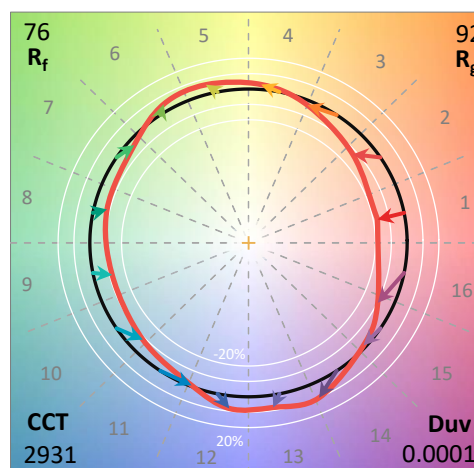
### Test Information

Test Method: LM-79-2019  
 Report Number: SP1-2205-670-3  
 Test Lab: COOPER LIGHTING SOLUTIONS  
 Photometer: SP1 - 76IN SPHERE  
 Measurement Geometry:  $4\pi$   
 Issue Date: 07/01/2022  
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
 Product Line: INVUE  
 Catalog Number: **LXS-VA1-730-U-SYM-A**  
 Description: INVUE LUXESCAPE

ARM MOUNT

### Spectral Parameters

|                           |        |           |      |      |       |
|---------------------------|--------|-----------|------|------|-------|
| CCT (K):                  | 2931   | CRI (Ra): | 71.7 |      |       |
| CIE u':                   | 0.2530 | R1:       | 67.7 | R9:  | -37.7 |
| CIE v':                   | 0.5229 | R2:       | 83.8 | R10: | 64.3  |
| Duv:                      | 0.0001 | R3:       | 94.3 | R11: | 62.0  |
| CIE x:                    | 0.4420 | R4:       | 66.3 | R12: | 53.4  |
| CIE y:                    | 0.4060 | R5:       | 67.6 | R13: | 70.9  |
| CIE z:                    | 0.1520 | R6:       | 78.5 | R14: | 97.3  |
| Peak Wavelength (nm):     | 593    | R7:       | 75.4 |      |       |
| Dominant Wavelength (nm): | 583    | R8:       | 39.8 |      |       |
| Purity:                   | 54.7   |           |      |      |       |
| Rf:                       | 76.1   |           |      |      |       |
| Rg:                       | 92.5   |           |      |      |       |



### Test Conditions

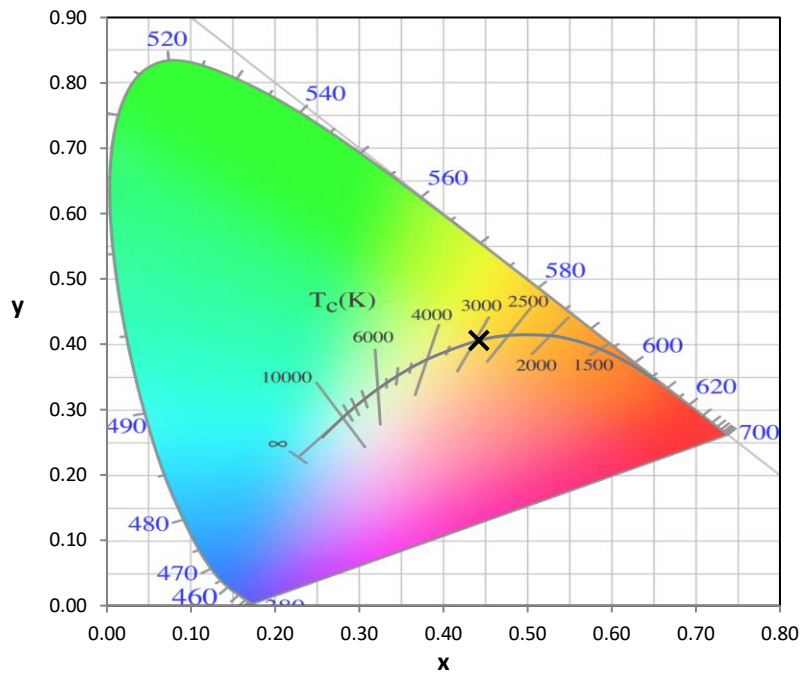
Stabilization Time: 76M  
 Operation Time: 12H  
 Room Temperature (°C) / RH%: 26.0/60%  
 Sphere Temperature (°C): 25.8

REPORT NUMBER: SP1-2205-670-3

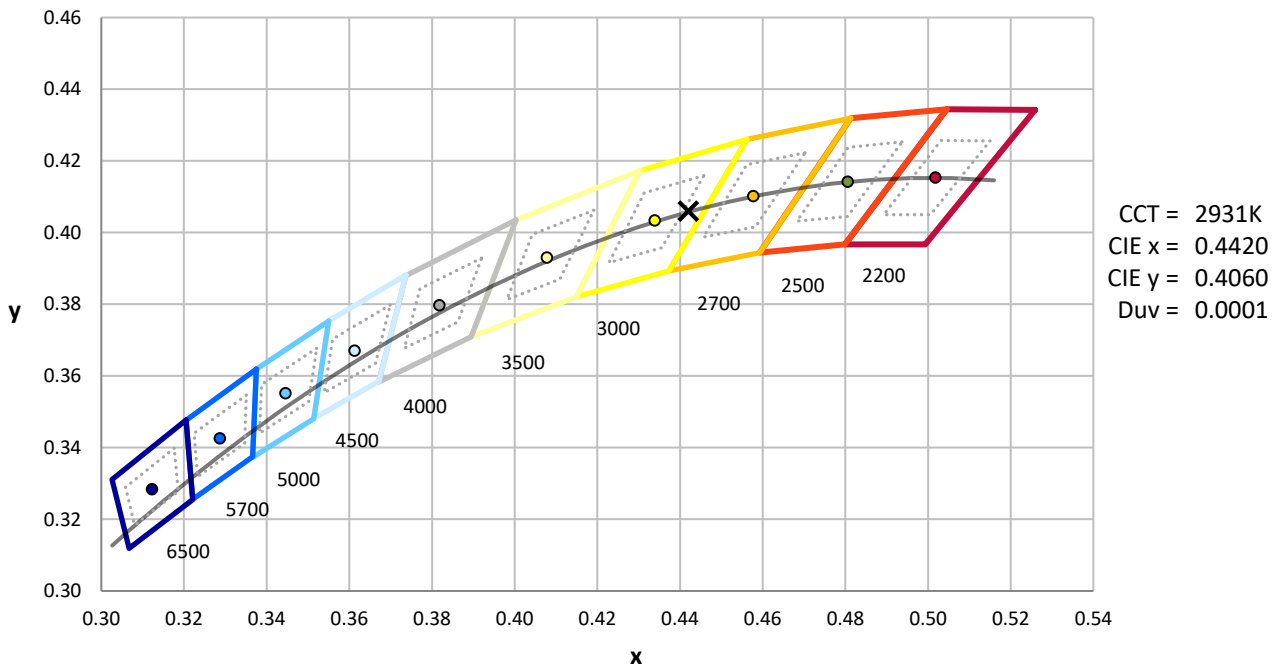
| Measurement and Test Equipment |                       |                  |                      |
|--------------------------------|-----------------------|------------------|----------------------|
| Instrument                     | Identification Number | Calibration Date | Calibration Due Date |
| Photometer                     | 76INCH SPHERE IN0058  | 2/7/2022         | 8/7/2022             |
| Power Meter                    | XITRON 2801 IN0071    | 11/29/2021       | 11/29/2022           |
| AC Power Source                | CHROMA 61603 IN0063   | 11/29/2021       | 11/29/2022           |
| DC Power Source                | AGILENT E3634A IN0208 | 11/29/2021       | 11/29/2022           |
| Sphere Thermometer             | ONSET IN0085          | 11/29/2021       | 11/29/2022           |
| Room Thermometer               | ONSET IN0046          | 11/29/2021       | 11/29/2022           |

REPORT NUMBER: SP1-2205-670-3

**CIE 1931 Chromaticity Diagram**



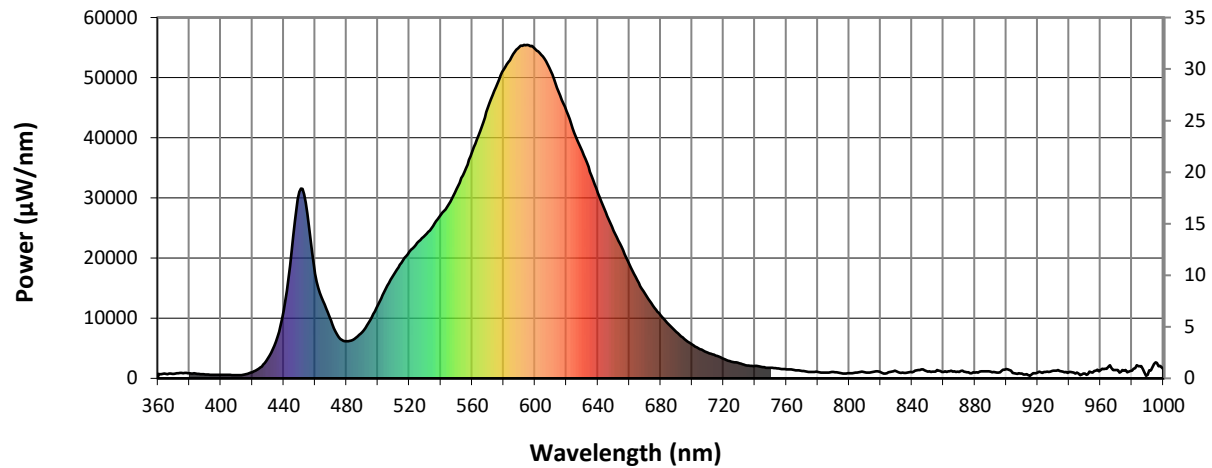
**CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles**



Point lies inside the ANSI 3000K 7-step quadrangle

REPORT NUMBER: SP1-2205-670-3

**Photopic Flux vs. Wavelength**

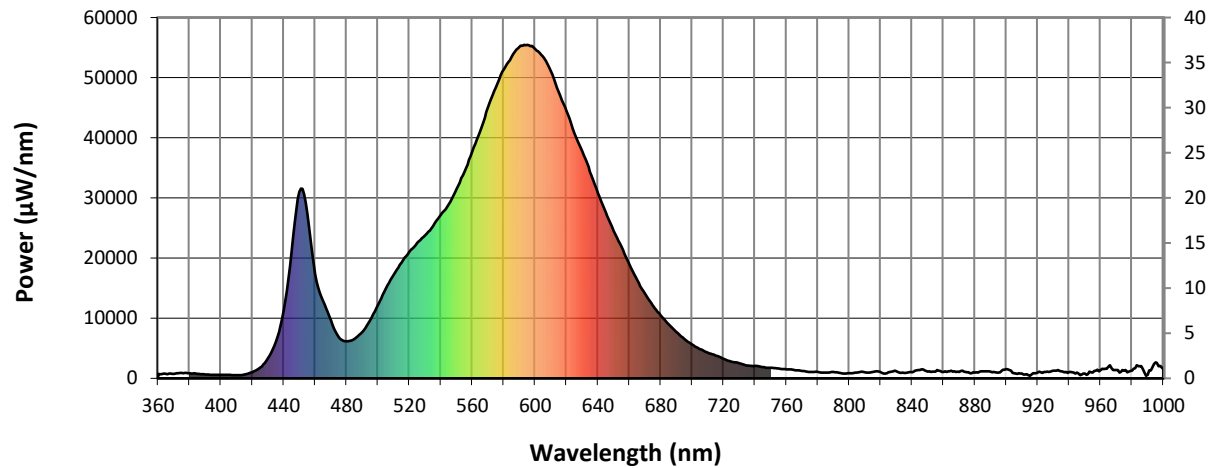


#####

| λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) |
|-----------|------------------|------------------|-----------|------------------|------------------|-----------|------------------|------------------|-----------|------------------|------------------|-----------|------------------|------------------|
| 360       | 759              | NR               | 490       | 7726             | NR               | 620       | 44418            | NR               | 750       | 1761             | NR               | 880       | 979              | NR               |
| 365       | 724              | NR               | 495       | 9658             | NR               | 625       | 40836            | NR               | 755       | 1670             | NR               | 885       | 1196             | NR               |
| 370       | 743              | NR               | 500       | 12246            | NR               | 630       | 37768            | NR               | 760       | 1515             | NR               | 890       | 1123             | NR               |
| 375       | 925              | NR               | 505       | 14899            | NR               | 635       | 34326            | NR               | 765       | 1364             | NR               | 895       | 947              | NR               |
| 380       | 837              | NR               | 510       | 17223            | NR               | 640       | 30833            | NR               | 770       | 1232             | NR               | 900       | 1531             | NR               |
| 385       | 766              | NR               | 515       | 19222            | NR               | 645       | 27583            | NR               | 775       | 1086             | NR               | 905       | 875              | NR               |
| 390       | 641              | NR               | 520       | 21080            | NR               | 650       | 24548            | NR               | 780       | 1082             | NR               | 910       | 776              | NR               |
| 395       | 605              | NR               | 525       | 22505            | NR               | 655       | 21894            | NR               | 785       | 966              | NR               | 915       | 422              | NR               |
| 400       | 598              | NR               | 530       | 23799            | NR               | 660       | 19024            | NR               | 790       | 1040             | NR               | 920       | 971              | NR               |
| 405       | 576              | NR               | 535       | 25334            | NR               | 665       | 16327            | NR               | 795       | 840              | NR               | 925       | 1041             | NR               |
| 410       | 529              | NR               | 540       | 27169            | NR               | 670       | 14097            | NR               | 800       | 838              | NR               | 930       | 1265             | NR               |
| 415       | 633              | NR               | 545       | 28947            | NR               | 675       | 12075            | NR               | 805       | 973              | NR               | 935       | 1163             | NR               |
| 420       | 1033             | NR               | 550       | 31471            | NR               | 680       | 10464            | NR               | 810       | 1020             | NR               | 940       | 1076             | NR               |
| 425       | 1791             | NR               | 555       | 34342            | NR               | 685       | 8996             | NR               | 815       | 1067             | NR               | 945       | 966              | NR               |
| 430       | 3342             | NR               | 560       | 37667            | NR               | 690       | 7713             | NR               | 820       | 1016             | NR               | 950       | 777              | NR               |
| 435       | 6130             | NR               | 565       | 41063            | NR               | 695       | 6542             | NR               | 825       | 1001             | NR               | 955       | 950              | NR               |
| 440       | 11205            | NR               | 570       | 45025            | NR               | 700       | 5618             | NR               | 830       | 1180             | NR               | 960       | 1369             | NR               |
| 445       | 21174            | NR               | 575       | 48356            | NR               | 705       | 4869             | NR               | 835       | 923              | NR               | 965       | 1917             | NR               |
| 450       | 31019            | NR               | 580       | 51301            | NR               | 710       | 4264             | NR               | 840       | 1038             | NR               | 970       | 1401             | NR               |
| 455       | 27378            | NR               | 585       | 53409            | NR               | 715       | 3805             | NR               | 845       | 1393             | NR               | 975       | 1291             | NR               |
| 460       | 17416            | NR               | 590       | 55137            | NR               | 720       | 3265             | NR               | 850       | 1114             | NR               | 980       | 1296             | NR               |
| 465       | 12872            | NR               | 595       | 55426            | NR               | 725       | 2772             | NR               | 855       | 1132             | NR               | 985       | 2010             | NR               |
| 470       | 9610             | NR               | 600       | 54778            | NR               | 730       | 2505             | NR               | 860       | 1045             | NR               | 990       | 605              | NR               |
| 475       | 6871             | NR               | 605       | 53509            | NR               | 735       | 2131             | NR               | 865       | 1255             | NR               | 995       | 2672             | NR               |
| 480       | 6151             | NR               | 610       | 51056            | NR               | 740       | 2054             | NR               | 870       | 1093             | NR               | 1000      | 1530             | NR               |
| 485       | 6565             | NR               | 615       | 47700            | NR               | 745       | 1890             | NR               | 875       | 1015             | NR               |           |                  |                  |

REPORT NUMBER: SP1-2205-670-3

**Scotopic Flux vs. Wavelength**



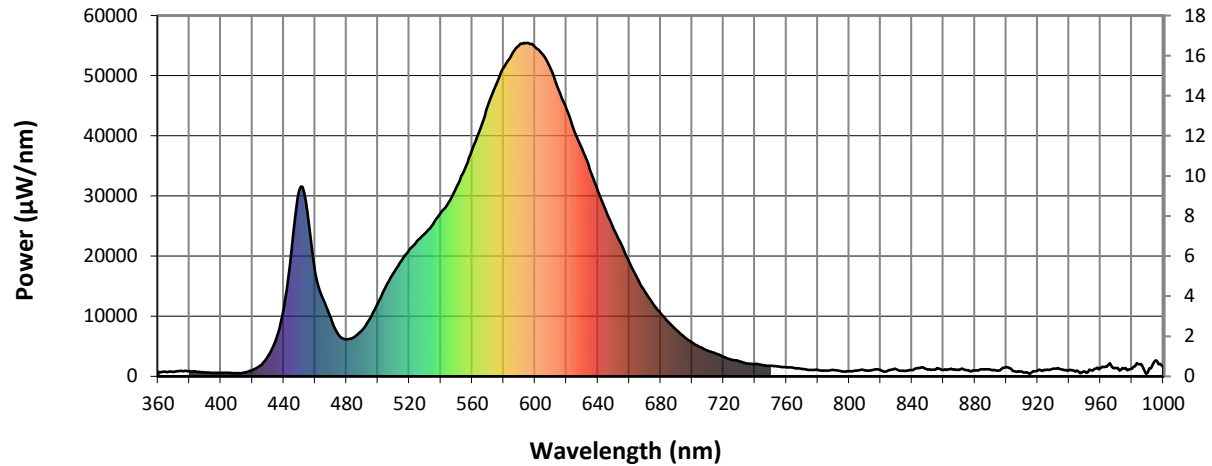
**Scotopic Lumens: 3103**

**S/P: 1.21**

| λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) |
|-----------|------------------|------------------|-----------|------------------|------------------|-----------|------------------|------------------|-----------|------------------|------------------|-----------|------------------|------------------|
| 360       | 759              | NR               | 490       | 7726             | NR               | 620       | 44418            | NR               | 750       | 1761             | NR               | 880       | 979              | NR               |
| 365       | 724              | NR               | 495       | 9658             | NR               | 625       | 40836            | NR               | 755       | 1670             | NR               | 885       | 1196             | NR               |
| 370       | 743              | NR               | 500       | 12246            | NR               | 630       | 37768            | NR               | 760       | 1515             | NR               | 890       | 1123             | NR               |
| 375       | 925              | NR               | 505       | 14899            | NR               | 635       | 34326            | NR               | 765       | 1364             | NR               | 895       | 947              | NR               |
| 380       | 837              | NR               | 510       | 17223            | NR               | 640       | 30833            | NR               | 770       | 1232             | NR               | 900       | 1531             | NR               |
| 385       | 766              | NR               | 515       | 19222            | NR               | 645       | 27583            | NR               | 775       | 1086             | NR               | 905       | 875              | NR               |
| 390       | 641              | NR               | 520       | 21080            | NR               | 650       | 24548            | NR               | 780       | 1082             | NR               | 910       | 776              | NR               |
| 395       | 605              | NR               | 525       | 22505            | NR               | 655       | 21894            | NR               | 785       | 966              | NR               | 915       | 422              | NR               |
| 400       | 598              | NR               | 530       | 23799            | NR               | 660       | 19024            | NR               | 790       | 1040             | NR               | 920       | 971              | NR               |
| 405       | 576              | NR               | 535       | 25334            | NR               | 665       | 16327            | NR               | 795       | 840              | NR               | 925       | 1041             | NR               |
| 410       | 529              | NR               | 540       | 27169            | NR               | 670       | 14097            | NR               | 800       | 838              | NR               | 930       | 1265             | NR               |
| 415       | 633              | NR               | 545       | 28947            | NR               | 675       | 12075            | NR               | 805       | 973              | NR               | 935       | 1163             | NR               |
| 420       | 1033             | NR               | 550       | 31471            | NR               | 680       | 10464            | NR               | 810       | 1020             | NR               | 940       | 1076             | NR               |
| 425       | 1791             | NR               | 555       | 34342            | NR               | 685       | 8996             | NR               | 815       | 1067             | NR               | 945       | 966              | NR               |
| 430       | 3342             | NR               | 560       | 37667            | NR               | 690       | 7713             | NR               | 820       | 1016             | NR               | 950       | 777              | NR               |
| 435       | 6130             | NR               | 565       | 41063            | NR               | 695       | 6542             | NR               | 825       | 1001             | NR               | 955       | 950              | NR               |
| 440       | 11205            | NR               | 570       | 45025            | NR               | 700       | 5618             | NR               | 830       | 1180             | NR               | 960       | 1369             | NR               |
| 445       | 21174            | NR               | 575       | 48356            | NR               | 705       | 4869             | NR               | 835       | 923              | NR               | 965       | 1917             | NR               |
| 450       | 31019            | NR               | 580       | 51301            | NR               | 710       | 4264             | NR               | 840       | 1038             | NR               | 970       | 1401             | NR               |
| 455       | 27378            | NR               | 585       | 53409            | NR               | 715       | 3805             | NR               | 845       | 1393             | NR               | 975       | 1291             | NR               |
| 460       | 17416            | NR               | 590       | 55137            | NR               | 720       | 3265             | NR               | 850       | 1114             | NR               | 980       | 1296             | NR               |
| 465       | 12872            | NR               | 595       | 55426            | NR               | 725       | 2772             | NR               | 855       | 1132             | NR               | 985       | 2010             | NR               |
| 470       | 9610             | NR               | 600       | 54778            | NR               | 730       | 2505             | NR               | 860       | 1045             | NR               | 990       | 605              | NR               |
| 475       | 6871             | NR               | 605       | 53509            | NR               | 735       | 2131             | NR               | 865       | 1255             | NR               | 995       | 2672             | NR               |
| 480       | 6151             | NR               | 610       | 51056            | NR               | 740       | 2054             | NR               | 870       | 1093             | NR               | 1000      | 1530             | NR               |
| 485       | 6565             | NR               | 615       | 47700            | NR               | 745       | 1890             | NR               | 875       | 1015             | NR               |           |                  |                  |

REPORT NUMBER: SP1-2205-670-3

**Melanopic Flux vs. Wavelength**



**Melanopic Lumens: 1136.3 S/P: 0.44**

| λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) |
|-----------|------------------|------------------|-----------|------------------|------------------|-----------|------------------|------------------|-----------|------------------|------------------|-----------|------------------|------------------|
| 360       | 759              | NR               | 490       | 7726             | NR               | 620       | 44418            | NR               | 750       | 1761             | NR               | 880       | 979              | NR               |
| 365       | 724              | NR               | 495       | 9658             | NR               | 625       | 40836            | NR               | 755       | 1670             | NR               | 885       | 1196             | NR               |
| 370       | 743              | NR               | 500       | 12246            | NR               | 630       | 37768            | NR               | 760       | 1515             | NR               | 890       | 1123             | NR               |
| 375       | 925              | NR               | 505       | 14899            | NR               | 635       | 34326            | NR               | 765       | 1364             | NR               | 895       | 947              | NR               |
| 380       | 837              | NR               | 510       | 17223            | NR               | 640       | 30833            | NR               | 770       | 1232             | NR               | 900       | 1531             | NR               |
| 385       | 766              | NR               | 515       | 19222            | NR               | 645       | 27583            | NR               | 775       | 1086             | NR               | 905       | 875              | NR               |
| 390       | 641              | NR               | 520       | 21080            | NR               | 650       | 24548            | NR               | 780       | 1082             | NR               | 910       | 776              | NR               |
| 395       | 605              | NR               | 525       | 22505            | NR               | 655       | 21894            | NR               | 785       | 966              | NR               | 915       | 422              | NR               |
| 400       | 598              | NR               | 530       | 23799            | NR               | 660       | 19024            | NR               | 790       | 1040             | NR               | 920       | 971              | NR               |
| 405       | 576              | NR               | 535       | 25334            | NR               | 665       | 16327            | NR               | 795       | 840              | NR               | 925       | 1041             | NR               |
| 410       | 529              | NR               | 540       | 27169            | NR               | 670       | 14097            | NR               | 800       | 838              | NR               | 930       | 1265             | NR               |
| 415       | 633              | NR               | 545       | 28947            | NR               | 675       | 12075            | NR               | 805       | 973              | NR               | 935       | 1163             | NR               |
| 420       | 1033             | NR               | 550       | 31471            | NR               | 680       | 10464            | NR               | 810       | 1020             | NR               | 940       | 1076             | NR               |
| 425       | 1791             | NR               | 555       | 34342            | NR               | 685       | 8996             | NR               | 815       | 1067             | NR               | 945       | 966              | NR               |
| 430       | 3342             | NR               | 560       | 37667            | NR               | 690       | 7713             | NR               | 820       | 1016             | NR               | 950       | 777              | NR               |
| 435       | 6130             | NR               | 565       | 41063            | NR               | 695       | 6542             | NR               | 825       | 1001             | NR               | 955       | 950              | NR               |
| 440       | 11205            | NR               | 570       | 45025            | NR               | 700       | 5618             | NR               | 830       | 1180             | NR               | 960       | 1369             | NR               |
| 445       | 21174            | NR               | 575       | 48356            | NR               | 705       | 4869             | NR               | 835       | 923              | NR               | 965       | 1917             | NR               |
| 450       | 31019            | NR               | 580       | 51301            | NR               | 710       | 4264             | NR               | 840       | 1038             | NR               | 970       | 1401             | NR               |
| 455       | 27378            | NR               | 585       | 53409            | NR               | 715       | 3805             | NR               | 845       | 1393             | NR               | 975       | 1291             | NR               |
| 460       | 17416            | NR               | 590       | 55137            | NR               | 720       | 3265             | NR               | 850       | 1114             | NR               | 980       | 1296             | NR               |
| 465       | 12872            | NR               | 595       | 55426            | NR               | 725       | 2772             | NR               | 855       | 1132             | NR               | 985       | 2010             | NR               |
| 470       | 9610             | NR               | 600       | 54778            | NR               | 730       | 2505             | NR               | 860       | 1045             | NR               | 990       | 605              | NR               |
| 475       | 6871             | NR               | 605       | 53509            | NR               | 735       | 2131             | NR               | 865       | 1255             | NR               | 995       | 2672             | NR               |
| 480       | 6151             | NR               | 610       | 51056            | NR               | 740       | 2054             | NR               | 870       | 1093             | NR               | 1000      | 1530             | NR               |
| 485       | 6565             | NR               | 615       | 47700            | NR               | 745       | 1890             | NR               | 875       | 1015             | NR               |           |                  |                  |

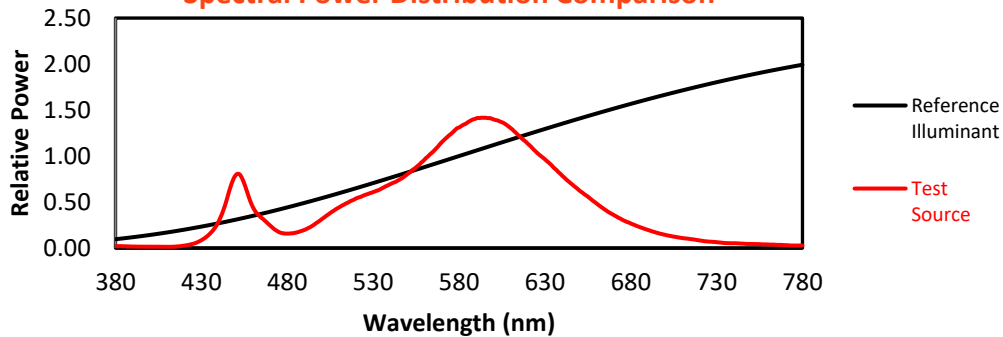
REPORT NUMBER: SP1-2205-670-3

**TM-30-18**

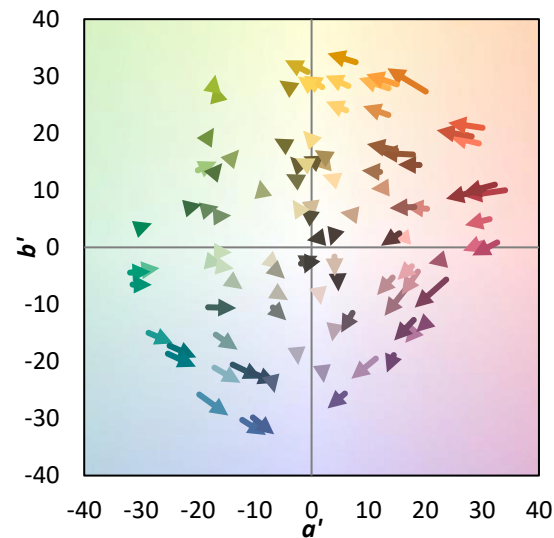
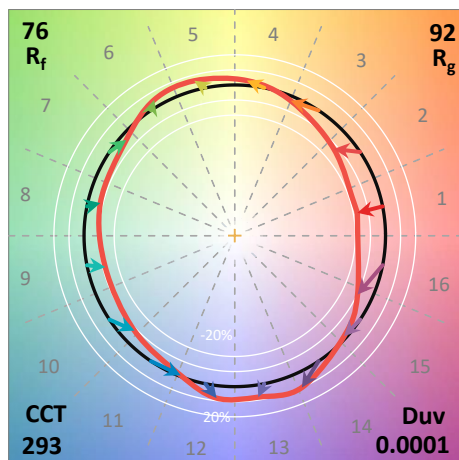
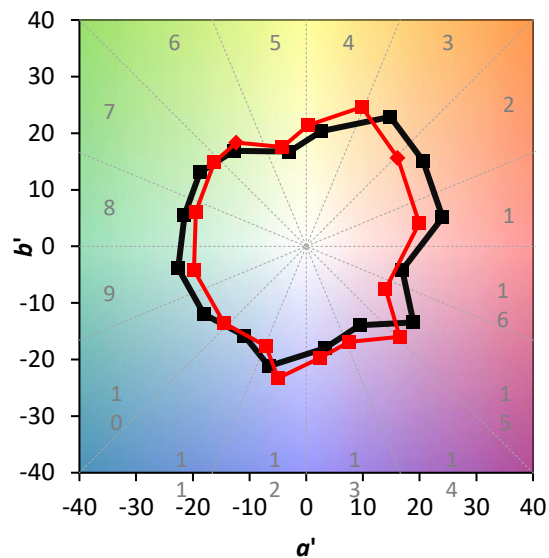
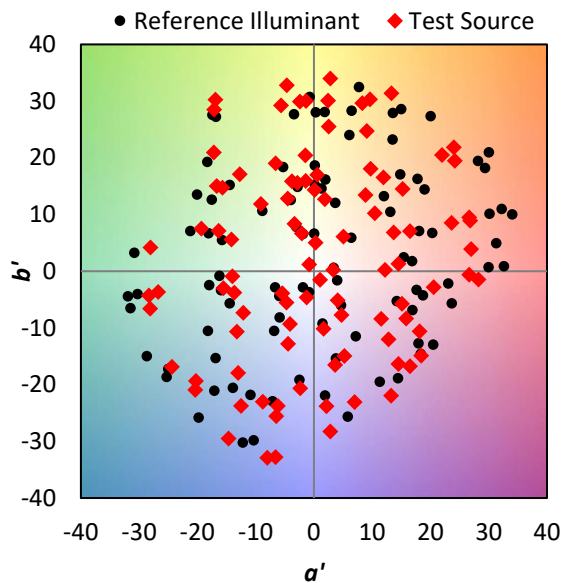
### Summary

$R_f = 76.1$   
 $R_g = 92.5$   
 CIE  $R_a = 71.7$   
 $R_g = -37.7$

### Spectral Power Distribution Comparison



### Color Vector Graphics

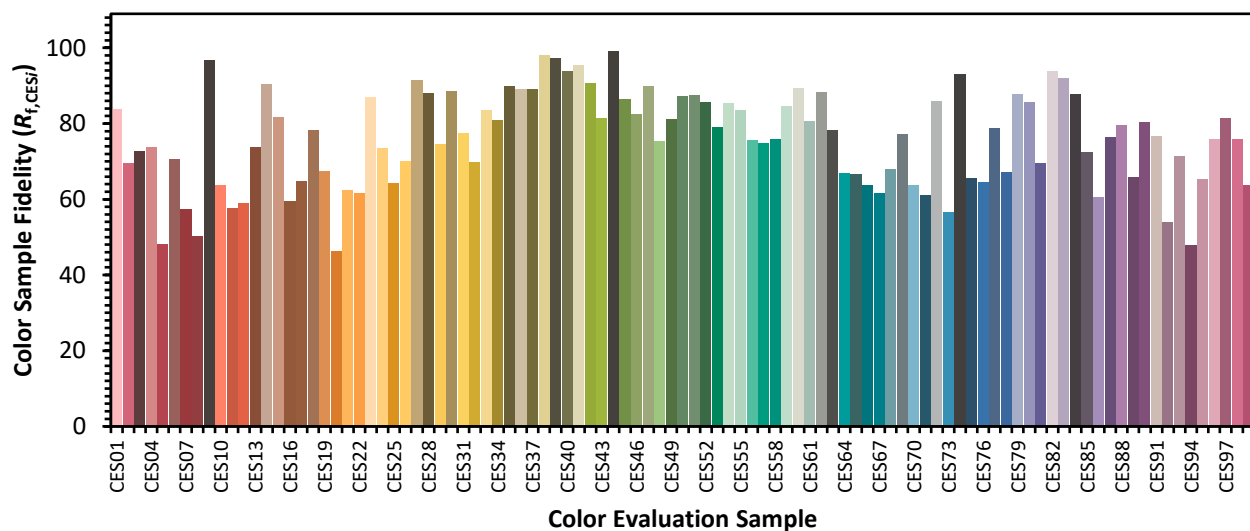


REPORT NUMBER: SP1-2205-670-3

TM-30-18

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

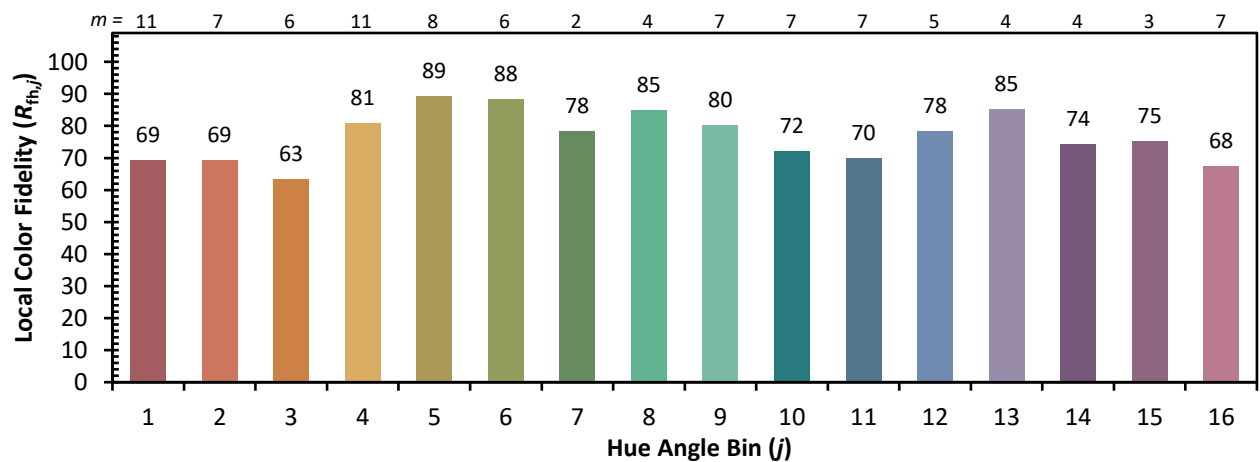
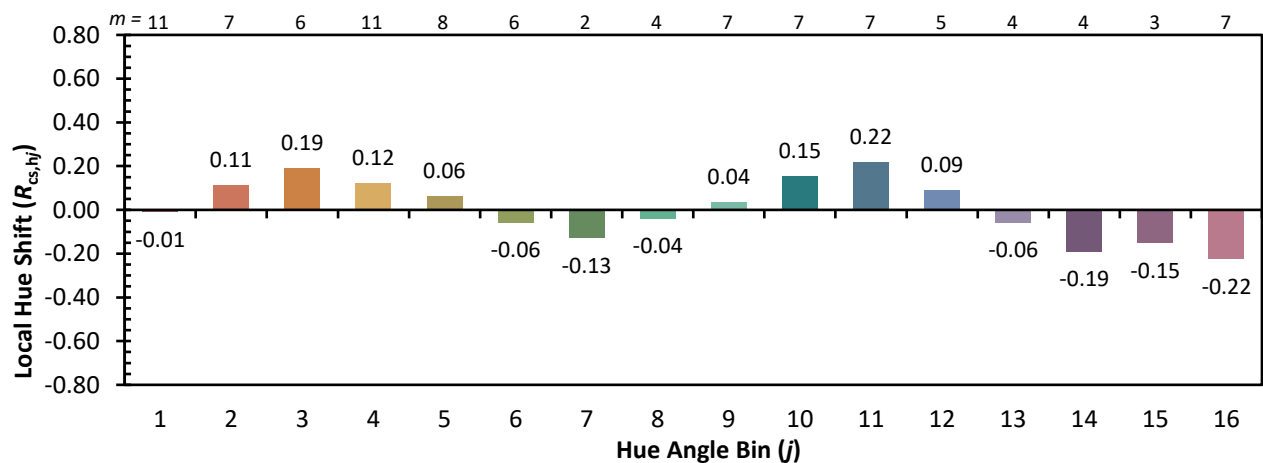
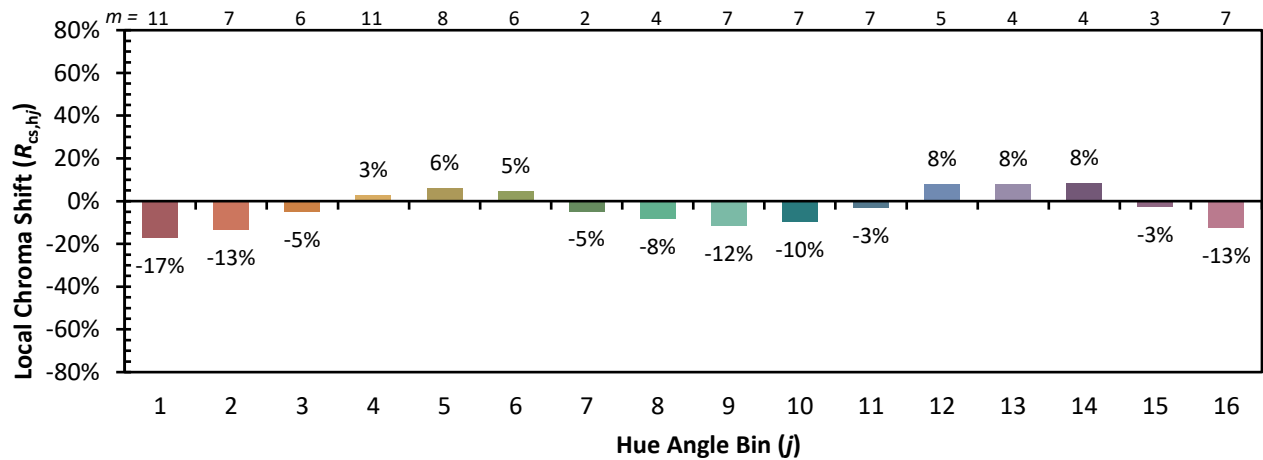
|            |            |            |            |
|------------|------------|------------|------------|
| CES01 = 86 | CES26 = 70 | CES51 = 88 | CES76 = 65 |
| CES02 = 63 | CES27 = 92 | CES52 = 86 | CES77 = 79 |
| CES03 = 31 | CES28 = 88 | CES53 = 79 | CES78 = 67 |
| CES04 = 71 | CES29 = 75 | CES54 = 85 | CES79 = 88 |
| CES05 = 49 | CES30 = 89 | CES55 = 83 | CES80 = 86 |
| CES06 = 51 | CES31 = 77 | CES56 = 76 | CES81 = 69 |
| CES07 = 41 | CES32 = 70 | CES57 = 75 | CES82 = 94 |
| CES08 = 40 | CES33 = 84 | CES58 = 76 | CES83 = 92 |
| CES09 = 29 | CES34 = 81 | CES59 = 85 | CES84 = 88 |
| CES10 = 76 | CES35 = 90 | CES60 = 89 | CES85 = 72 |
| CES11 = 59 | CES36 = 89 | CES61 = 81 | CES86 = 60 |
| CES12 = 65 | CES37 = 89 | CES62 = 88 | CES87 = 76 |
| CES13 = 43 | CES38 = 98 | CES63 = 78 | CES88 = 80 |
| CES14 = 74 | CES39 = 97 | CES64 = 67 | CES89 = 66 |
| CES15 = 71 | CES40 = 94 | CES65 = 67 | CES90 = 80 |
| CES16 = 47 | CES41 = 95 | CES66 = 64 | CES91 = 77 |
| CES17 = 50 | CES42 = 91 | CES67 = 62 | CES92 = 54 |
| CES18 = 56 | CES43 = 81 | CES68 = 68 | CES93 = 72 |
| CES19 = 73 | CES44 = 99 | CES69 = 77 | CES94 = 48 |
| CES20 = 66 | CES45 = 86 | CES70 = 64 | CES95 = 65 |
| CES21 = 87 | CES46 = 83 | CES71 = 61 | CES96 = 76 |
| CES22 = 79 | CES47 = 90 | CES72 = 86 | CES97 = 81 |
| CES23 = 92 | CES48 = 75 | CES73 = 57 | CES98 = 76 |
| CES24 = 91 | CES49 = 81 | CES74 = 93 | CES99 = 64 |
| CES25 = 73 | CES50 = 87 | CES75 = 66 |            |



REPORT NUMBER: SP1-2205-670-3

**TM-30-18**

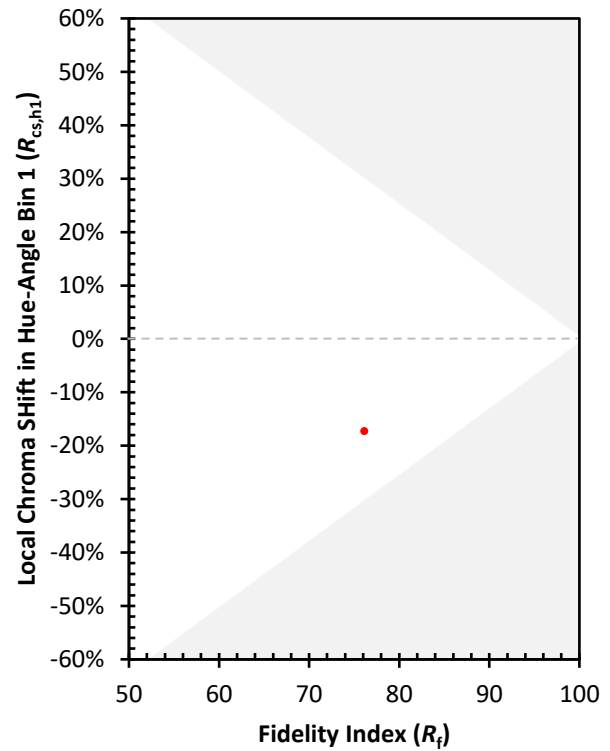
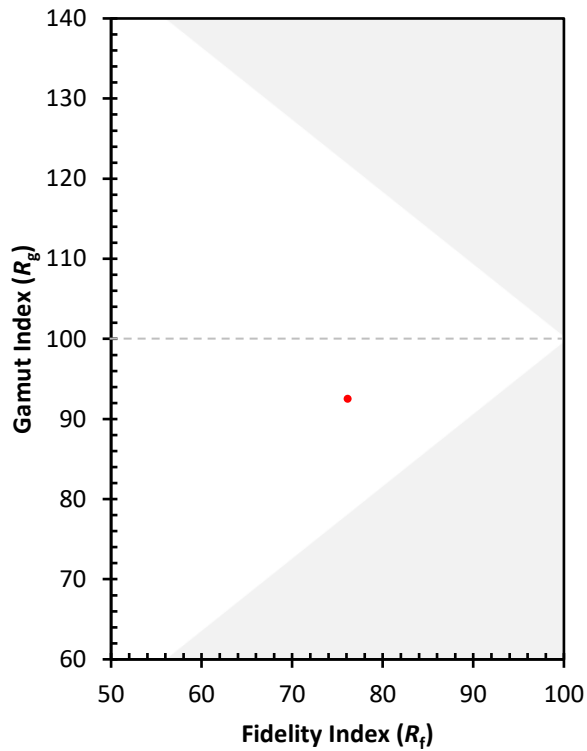
**Color Rendition by Hue-Angle Bin**



REPORT NUMBER: SP1-2205-670-3

**TM-30-18**

**Measure Comparisons**



(END OF REPORT)