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

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

Scaled data based on original data using

LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P1198915

Luminaire Tested: GPC-SB1D-830-U-SLL

Issue Date: 10/30/2025

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

Scaled Data Report

**Test Information**

| | |
|---|---|
| Test Method: | LM-79-2024 |
| Report Number: | P1198915 |
| | TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-8) |
| Test Lab: | INNOVATION CENTER |
| Issue Date: | 3/15/2026 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS |
| Product Line: | McGRAW-EDISON |
| Catalog Number: | GPC-SB1D-830-U-SLL |
| Description: | GALLEON PEDESTRIAN LUMINAIRE |
| | (1) 80 CRI, 3000K, 900mA LIGHTSQUARE WITH 26 LEDS AND SPILL LIGHT ELIMINATOR LEFT OPTICS |
| Light Source: | - |
| Ballast/Driver: | ELECTRONIC DRIVER |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 9160 lumens |
| Efficiency: | N/A |
| Efficacy: | 115.1 lumens/watt |
| Luminous Opening: | Rectangular (W 0.5' x L: 0.5' x H: 0') |
| IES Classification: | Type IV - Short |
| BUG Rating: | B2 - U0 - G3 |

| | |
|---|---|
| Input Watts (W): | 79.6 |
| Input Voltage (V): | 120.0 |
| Input Current (Ain): | 0.638 |
| Voltage Rise (V): | NR |
| Power Factor: | 0.997 |
| Total Harmonic Distortion (THDi): | 6.673 |
| Frequency (hertz): | 60 |
| Stabilization Time: | NR |
| Operation Time: | NR |
| Ambient Temperature (°C): | NR |
| Test Distance: | 28.75 FT |

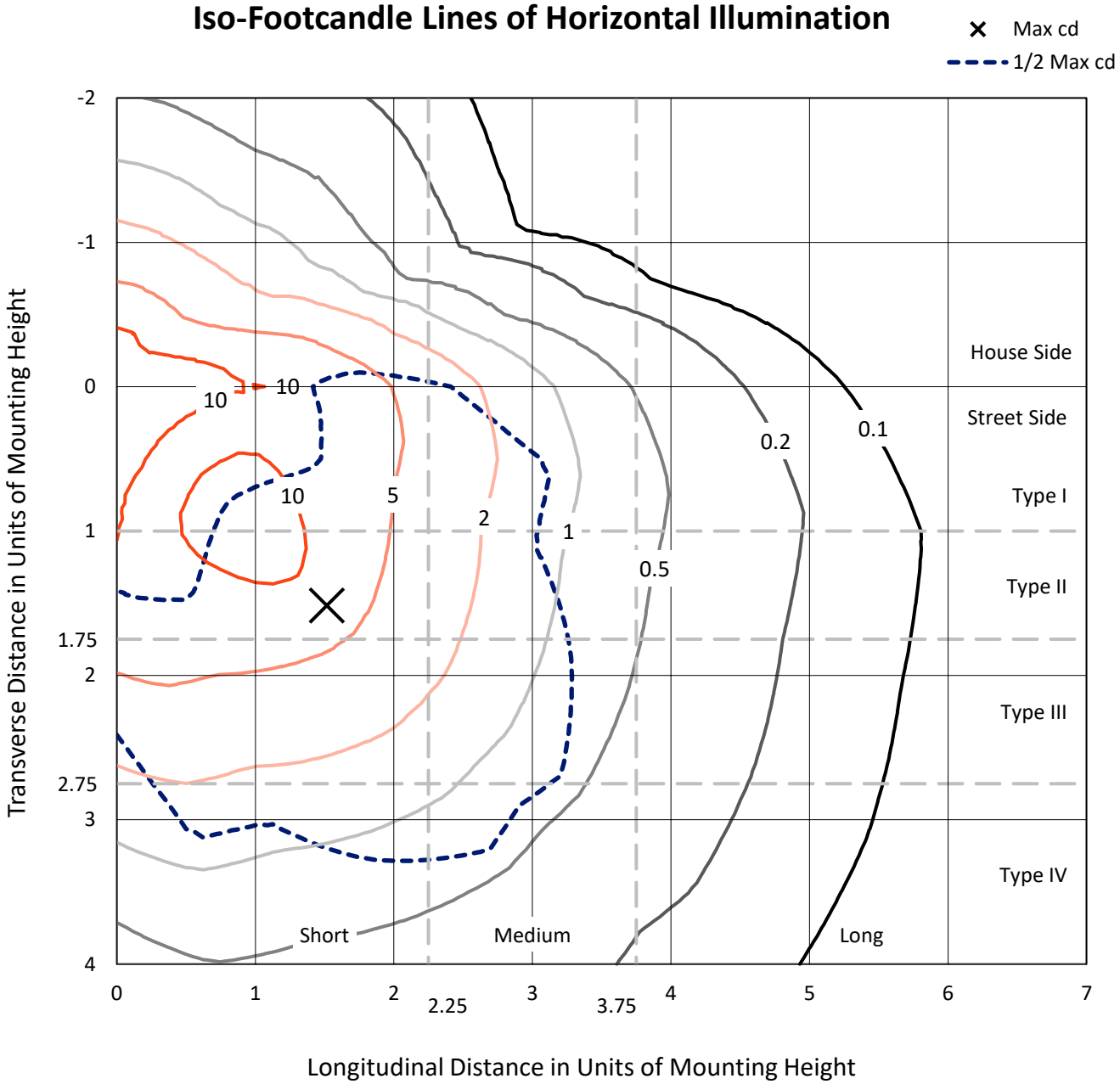


Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P1198915
CATALOG NUMBER: GPC-SB1D-830-U-SLL

## Iso-Footcandle Lines of Horizontal Illumination



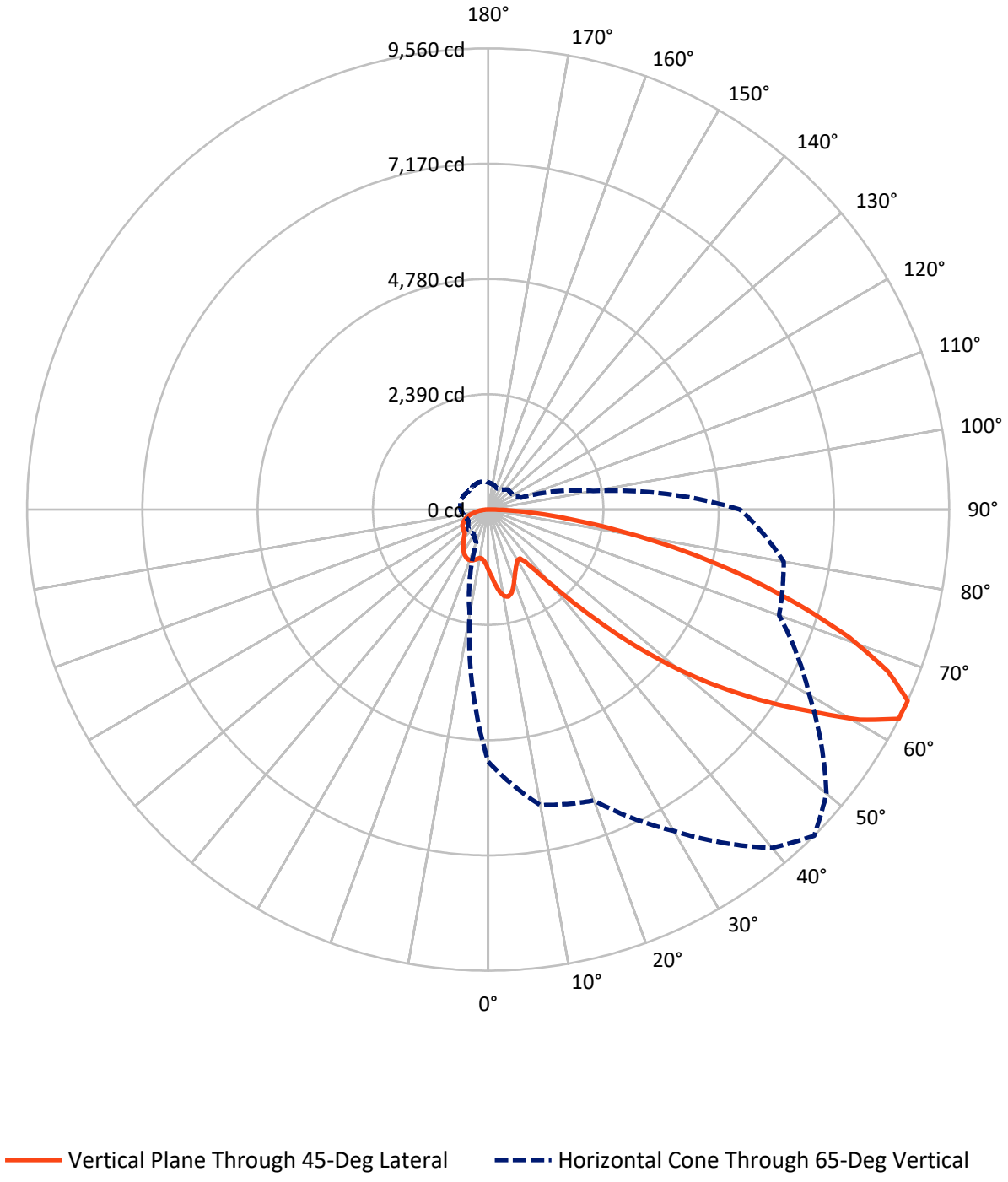

Based on 10 foot mounting height. Maximum calculated value = 17.4 fc
Type IV - Short - N/A

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

Scaled Data Report

REPORT NUMBER: P1198915
CATALOG NUMBER: GPC-SB1D-830-U-SLL

## Luminous Intensity Polar Plot



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

Scaled Data Report

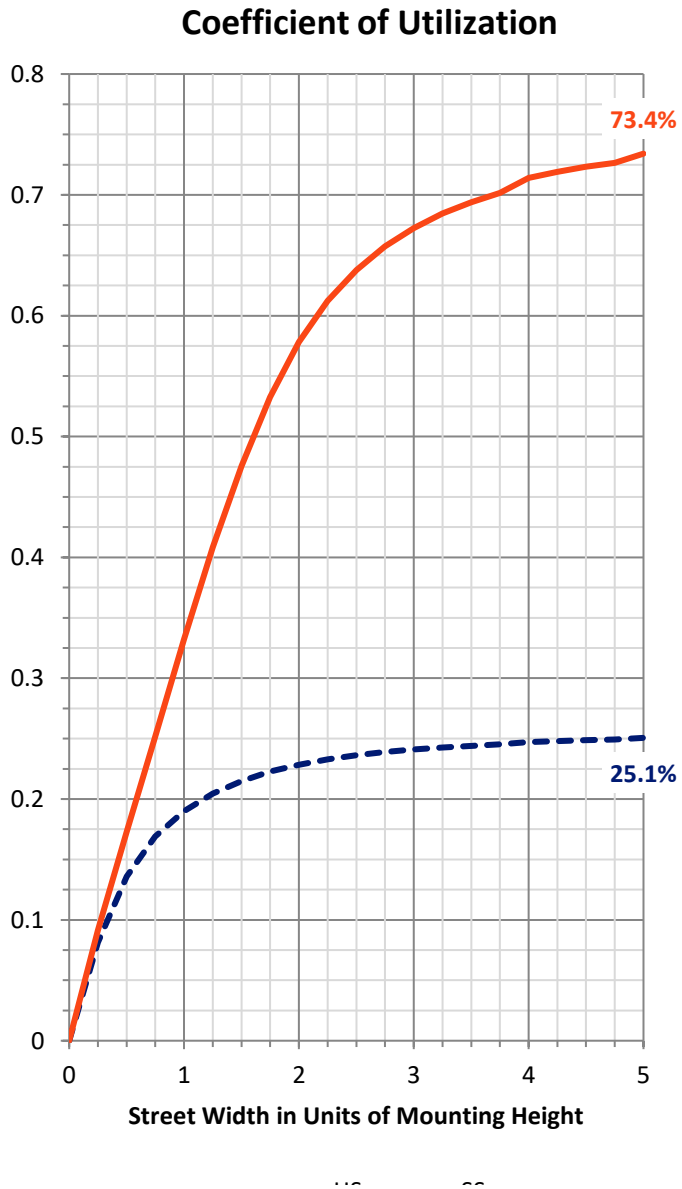
REPORT NUMBER: P1198915
CATALOG NUMBER: GPC-SB1D-830-U-SLL

**FLUX DISTRIBUTION:**

| | | Downward | Upward | Total |
|---|---|---|---|---|
| **House Side** | Lumens | 2328.0 | 0.0 | 2328.0 |
| | % Fixture | 25.4 | 0.0 | 25.4 |
| **Street Side** | Lumens | 6832.0 | 0.0 | 6832.0 |
| | % Fixture | 74.6 | 0.0 | 74.6 |
| **Total** | Lumens | 9160.0 | 0.0 | 9160.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 124.9 | 1.4 |
| 10°-20° | 392.2 | 4.3 |
| 20°-30° | 605.9 | 6.6 |
| 30°-40° | 767.8 | 8.4 |
| 40°-50° | 1158.0 | 12.6 |
| 50°-60° | 1871.0 | 20.4 |
| 60°-70° | 2332.5 | 25.5 |
| 70°-80° | 1529.5 | 16.7 |
| 80°-90° | 378.1 | 4.1 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-90° | 9160.0 | 100.0 |
| 0°-180° | 9160.0 | 100.0 |



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

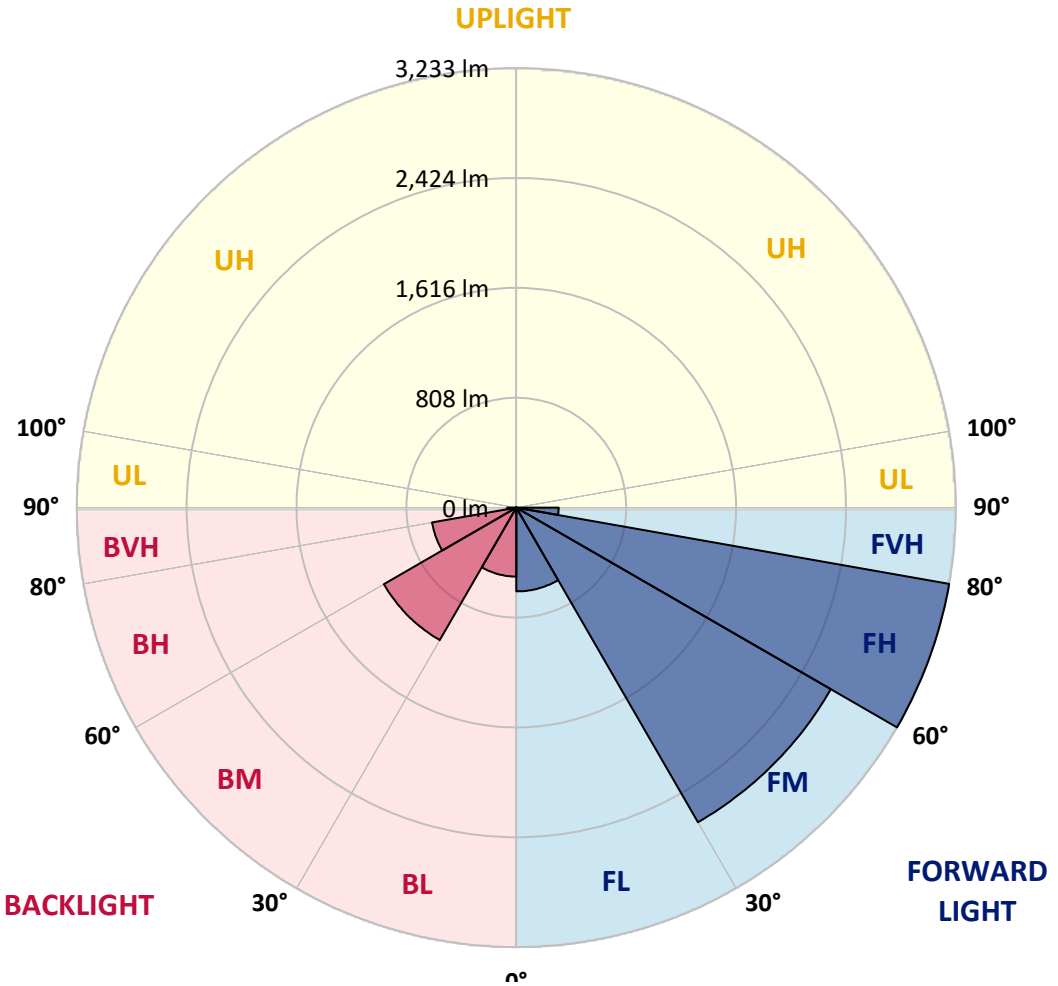
Scaled Data Report

REPORT NUMBER: P1198915
CATALOG NUMBER: GPC-SB1D-830-U-SLL

## LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit B | U | G |
|---|---|---|---|---|---|---|
| FL | (0°-30°) | 616.1 | 6.7 | | | |
| FM | (30°-60°) | 2671.8 | 29.2 | | | |
| FH | (60°-80°) | 3232.6 | 35.3 | | | G2/5000 |
| FVH | (80°-90°) | 311.5 | 3.4 | | | G3/500 |
| BL | (0°-30°) | 507.0 | 5.5 | B2/1000 | | |
| BM | (30°-60°) | 1125.0 | 12.3 | B2/2500 | | |
| BH | (60°-80°) | 629.4 | 6.9 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 66.6 | 0.7 | | | 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 IV Short



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

Scaled Data Report

REPORT NUMBER: P1198915
CATALOG NUMBER: GPC-SB1D-830-U-SLL

**CANDELA DISTRIBUTION (FULL):**

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 1259.6 | 1259.6 | 1259.6 | 1259.6 | 1259.6 | 1259.6 | 1259.6 | 1259.6 | 1259.6 | *1259.6* | 1259.6 |
| 2.5° | 1354.6 | 1359.7 | 1364.8 | 1372.1 | 1379.4 | 1383.8 | 1388.1 | 1390.3 | 1392.5 | *1391.5* | 1392.5 |
| 5° | 1456.5 | 1474.5 | 1492.5 | 1510.2 | 1528.1 | 1537.7 | 1547.4 | 1553.3 | 1559.2 | *1563.6* | 1559.2 |
| 7.5° | 1559.0 | 1588.2 | 1617.3 | 1643.6 | 1669.8 | 1685.6 | 1701.4 | 1710.0 | 1718.5 | *1722.6* | 1718.5 |
| 10° | 1637.5 | 1672.1 | 1706.6 | 1737.4 | 1768.1 | 1786.8 | 1805.4 | 1813.7 | 1821.9 | *1825.1* | 1821.9 |
| 12.5° | 1685.6 | 1723.1 | 1760.4 | 1788.3 | 1816.0 | 1829.5 | 1843.1 | 1847.6 | 1852.2 | *1852.6* | 1852.2 |
| 15° | 1714.9 | 1747.2 | 1779.4 | 1796.9 | 1814.4 | 1814.8 | 1815.3 | 1810.5 | 1805.7 | *1800.0* | 1805.7 |
| 17.5° | 1731.3 | 1753.1 | 1774.9 | 1775.3 | 1775.5 | 1756.0 | 1736.4 | 1718.5 | 1700.5 | *1687.8* | 1700.5 |
| 20° | 1749.4 | 1757.0 | 1764.7 | 1741.7 | 1718.8 | 1675.5 | 1632.3 | 1600.9 | 1569.4 | *1550.1* | 1569.4 |
| 22.5° | 1770.5 | 1760.5 | 1750.6 | 1703.0 | 1655.4 | 1591.9 | 1528.3 | 1489.0 | 1449.6 | *1428.3* | 1449.6 |
| 25° | 1797.5 | 1766.1 | 1734.7 | 1662.5 | 1590.3 | 1513.1 | 1435.9 | 1394.5 | 1353.2 | *1333.0* | 1353.2 |
| 27.5° | 1834.3 | 1778.1 | 1721.9 | 1626.2 | 1530.6 | 1445.1 | 1359.5 | 1318.8 | 1278.2 | *1259.1* | 1278.2 |
| 30° | 1883.8 | 1800.0 | 1716.3 | 1598.6 | 1480.9 | 1391.7 | 1302.6 | 1264.8 | 1227.1 | *1209.3* | 1227.1 |
| 32.5° | 1942.3 | 1827.6 | 1712.9 | 1579.7 | 1446.5 | 1362.8 | 1279.0 | 1249.4 | 1219.7 | *1206.9* | 1219.7 |
| 35° | 2013.3 | 1873.0 | 1732.7 | 1593.9 | 1455.1 | 1396.9 | 1338.7 | 1331.8 | 1324.9 | *1323.9* | 1324.9 |
| 37.5° | 2133.0 | 1967.9 | 1802.8 | 1676.6 | 1550.5 | 1546.7 | 1542.9 | 1574.5 | 1606.1 | *1622.6* | 1606.1 |
| 40° | 2313.7 | 2134.2 | 1954.6 | 1860.8 | 1767.0 | 1833.2 | 1899.4 | 1976.3 | 2053.1 | *2091.4* | 2053.1 |
| 42.5° | 2553.5 | 2375.3 | 2197.2 | 2143.1 | 2089.1 | 2233.5 | 2377.9 | 2517.7 | 2657.5 | *2739.6* | 2657.5 |
| 45° | 2849.5 | 2689.5 | 2529.4 | 2505.6 | 2481.7 | 2713.1 | 2944.5 | 3174.2 | 3403.9 | *3543.4* | 3403.9 |
| 47.5° | 3219.8 | 3064.1 | 2908.3 | 2903.5 | 2898.7 | 3232.5 | 3566.2 | 3902.4 | 4238.6 | *4436.1* | 4238.6 |
| 50° | 3705.0 | 3512.7 | 3320.4 | 3321.3 | 3322.1 | 3752.2 | 4182.4 | 4626.3 | 5070.1 | *5338.5* | 5070.1 |
| 52.5° | 4262.1 | 4029.2 | 3796.4 | 3772.8 | 3749.3 | 4263.1 | 4776.9 | 5326.1 | 5875.2 | *6196.9* | 5875.2 |
| 55° | 4855.1 | 4625.1 | 4395.0 | 4303.2 | 4211.4 | 4783.3 | 5355.1 | 6009.8 | 6664.5 | *7047.1* | 6664.5 |
| 57.5° | 5394.5 | 5269.3 | 5143.9 | 4959.8 | 4775.8 | 5353.2 | 5930.7 | 6672.2 | 7413.7 | *7888.1* | 7413.7 |
| 60° | 5720.5 | 5915.1 | 6109.8 | 5881.2 | 5652.5 | 6199.0 | 6745.5 | 7539.4 | 8333.3 | *8846.1* | 8333.3 |
| 62.5° | 5555.0 | 6086.7 | 6618.4 | 6592.7 | 6566.9 | 7067.5 | 7568.1 | 8323.5 | 9078.8 | *9552.7* | 9078.8 |
| 65° | *5223.7* | *5722.7* | *6221.8* | *6320.5* | *6419.2* | *7055.4* | *7691.6* | *8424.1* | *9156.5* | *9559.9* | *9156.5* |
| 67.5° | 4779.7 | 5254.4 | 5729.0 | 5775.3 | 5821.6 | 6484.4 | 7147.2 | 7882.8 | 8618.4 | *8934.5* | 8618.4 |
| 70° | 4246.4 | 4762.6 | 5278.9 | 5299.6 | 5320.3 | 5913.1 | 6505.8 | 7138.9 | 7771.8 | *7947.5* | 7771.8 |
| 72.5° | 3610.8 | 4203.2 | 4795.7 | 4810.6 | 4825.4 | 5289.2 | 5752.9 | 6227.0 | 6701.1 | *6718.9* | 6701.1 |
| 75° | 2806.7 | 3419.9 | 4033.1 | 4088.1 | 4143.2 | 4504.0 | 4864.8 | 5198.5 | 5532.3 | *5442.9* | 5532.3 |
| 77.5° | 2005.4 | 2577.7 | 3150.2 | 3228.9 | 3307.7 | 3582.0 | 3856.3 | 4093.0 | 4329.7 | *4176.0* | 4329.7 |
| 80° | 1312.5 | 1794.1 | 2275.6 | 2373.5 | 2471.4 | 2678.6 | 2885.6 | 3009.9 | 3134.2 | *2887.0* | 3134.2 |
| 82.5° | 762.9 | 1092.2 | 1421.4 | 1530.8 | 1640.2 | 1782.8 | 1925.4 | 1977.2 | 2029.1 | *1834.8* | 2029.1 |
| 85° | 335.7 | 510.4 | 685.1 | 778.2 | 871.2 | 988.4 | 1105.5 | 1134.9 | 1164.4 | *1008.7* | 1164.4 |
| 87.5° | 103.9 | 162.6 | 221.4 | 273.3 | 325.2 | 383.8 | 442.4 | 444.9 | 447.3 | *375.6* | 447.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | *0.0* | 0.0 |

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

Scaled Data Report

REPORT NUMBER: P1198915
CATALOG NUMBER: GPC-SB1D-830-U-SLL

**CANDELA DISTRIBUTION (continued):**

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 1259.6 | 1259.6 | 1259.6 | 1259.6 | 1259.6 | 1259.6 | 1259.6 | 1259.6 | 1259.6 | 1259.6 | 1259.6 |
| 2.5° | 1390.3 | 1388.1 | 1383.8 | 1379.4 | 1372.1 | 1364.8 | 1359.7 | 1354.6 | 1344.2 | 1333.8 | 1322.7 |
| 5° | 1553.3 | 1547.4 | 1537.7 | 1528.1 | 1510.2 | 1492.5 | 1474.5 | 1456.5 | 1433.6 | 1410.6 | 1387.7 |
| 7.5° | 1710.0 | 1701.4 | 1685.6 | 1669.8 | 1643.6 | 1617.3 | 1588.2 | 1559.0 | 1521.1 | 1483.3 | 1448.3 |
| 10° | 1813.7 | 1805.4 | 1786.8 | 1768.1 | 1737.4 | 1706.6 | 1672.1 | 1637.5 | 1589.7 | 1541.8 | 1495.5 |
| 12.5° | 1847.6 | 1843.1 | 1829.5 | 1816.0 | 1788.3 | 1760.4 | 1723.1 | 1685.6 | 1633.0 | 1580.4 | 1528.0 |
| 15° | 1810.5 | 1815.3 | 1814.8 | 1814.4 | 1796.9 | 1779.4 | 1747.2 | 1714.9 | 1660.0 | 1605.2 | 1548.3 |
| 17.5° | 1718.5 | 1736.4 | 1756.0 | 1775.5 | 1775.3 | 1774.9 | 1753.1 | 1731.3 | 1675.7 | 1620.1 | 1558.0 |
| 20° | 1600.9 | 1632.3 | 1675.5 | 1718.8 | 1741.7 | 1764.7 | 1757.0 | 1749.4 | 1691.6 | 1633.8 | 1565.6 |
| 22.5° | 1489.0 | 1528.3 | 1591.9 | 1655.4 | 1703.0 | 1750.6 | 1760.5 | 1770.5 | 1711.4 | 1652.3 | 1575.9 |
| 25° | 1394.5 | 1435.9 | 1513.1 | 1590.3 | 1662.5 | 1734.7 | 1766.1 | 1797.5 | 1739.6 | 1681.8 | 1594.4 |
| 27.5° | 1318.8 | 1359.5 | 1445.1 | 1530.6 | 1626.2 | 1721.9 | 1778.1 | 1834.3 | 1779.1 | 1723.8 | 1623.4 |
| 30° | 1264.8 | 1302.6 | 1391.7 | 1480.9 | 1598.6 | 1716.3 | 1800.0 | 1883.8 | 1830.4 | 1777.1 | 1661.0 |
| 32.5° | 1249.4 | 1279.0 | 1362.8 | 1446.5 | 1579.7 | 1712.9 | 1827.6 | 1942.3 | 1889.5 | 1836.7 | 1700.2 |
| 35° | 1331.8 | 1338.7 | 1396.9 | 1455.1 | 1593.9 | 1732.7 | 1873.0 | 2013.3 | 1962.8 | 1912.2 | 1744.9 |
| 37.5° | 1574.5 | 1542.9 | 1546.7 | 1550.5 | 1676.6 | 1802.8 | 1967.9 | 2133.0 | 2068.5 | 2004.0 | 1794.9 |
| 40° | 1976.3 | 1899.4 | 1833.2 | 1767.0 | 1860.8 | 1954.6 | 2134.2 | 2313.7 | 2219.8 | 2125.8 | 1858.4 |
| 42.5° | 2517.7 | 2377.9 | 2233.5 | 2089.1 | 2143.1 | 2197.2 | 2375.3 | 2553.5 | 2417.9 | 2282.2 | 1941.5 |
| 45° | 3174.2 | 2944.5 | 2713.1 | 2481.7 | 2505.6 | 2529.4 | 2689.5 | 2849.5 | 2666.6 | 2483.6 | 2050.8 |
| 47.5° | 3902.4 | 3566.2 | 3232.5 | 2898.7 | 2903.5 | 2908.3 | 3064.1 | 3219.8 | 2962.3 | 2704.8 | 2167.3 |
| 50° | 4626.3 | 4182.4 | 3752.2 | 3322.1 | 3321.3 | 3320.4 | 3512.7 | 3705.0 | 3316.9 | 2928.6 | 2275.4 |
| 52.5° | 5326.1 | 4776.9 | 4263.1 | 3749.3 | 3772.8 | 3796.4 | 4029.2 | 4262.1 | 3689.3 | 3116.6 | 2345.5 |
| 55° | 6009.8 | 5355.1 | 4783.3 | 4211.4 | 4303.2 | 4395.0 | 4625.1 | 4855.1 | 4019.5 | 3184.0 | 2330.1 |
| 57.5° | 6672.2 | 5930.7 | 5353.2 | 4775.8 | 4959.8 | 5143.9 | 5269.3 | 5394.5 | 4253.6 | 3112.6 | 2221.2 |
| 60° | 7539.4 | 6745.5 | 6199.0 | 5652.5 | 5881.2 | 6109.8 | 5915.1 | 5720.5 | 4312.1 | 2903.5 | 2018.7 |
| 62.5° | 8323.5 | 7568.1 | 7067.5 | 6566.9 | 6592.7 | 6618.4 | 6086.7 | 5555.0 | 4065.8 | 2576.6 | 1744.8 |
| 65° | *8424.1* | *7691.6* | *7055.4* | *6419.2* | *6320.5* | *6221.8* | *5722.7* | *5223.7* | *3717.4* | *2211.0* | *1465.3* |
| 67.5° | 7882.8 | 7147.2 | 6484.4 | 5821.6 | 5775.3 | 5729.0 | 5254.4 | 4779.7 | 3302.7 | 1825.7 | 1191.5 |
| 70° | 7138.9 | 6505.8 | 5913.1 | 5320.3 | 5299.6 | 5278.9 | 4762.6 | 4246.4 | 2850.2 | 1454.1 | 938.2 |
| 72.5° | 6227.0 | 5752.9 | 5289.2 | 4825.4 | 4810.6 | 4795.7 | 4203.2 | 3610.8 | 2359.8 | 1108.8 | 717.2 |
| 75° | 5198.5 | 4864.8 | 4504.0 | 4143.2 | 4088.1 | 4033.1 | 3419.9 | 2806.7 | 1797.5 | 788.2 | 520.6 |
| 77.5° | 4093.0 | 3856.3 | 3582.0 | 3307.7 | 3228.9 | 3150.2 | 2577.7 | 2005.4 | 1258.1 | 510.8 | 352.7 |
| 80° | 3009.9 | 2885.6 | 2678.6 | 2471.4 | 2373.5 | 2275.6 | 1794.1 | 1312.5 | 810.6 | 308.6 | 227.3 |
| 82.5° | 1977.2 | 1925.4 | 1782.8 | 1640.2 | 1530.8 | 1421.4 | 1092.2 | 762.9 | 469.1 | 175.4 | 139.8 |
| 85° | 1134.9 | 1105.5 | 988.4 | 871.2 | 778.2 | 685.1 | 510.4 | 335.7 | 211.0 | 86.4 | 74.7 |
| 87.5° | 444.9 | 442.4 | 383.8 | 325.2 | 273.3 | 221.4 | 162.6 | 103.9 | 69.1 | 34.3 | 31.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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

Scaled Data Report

REPORT NUMBER: P1198915
CATALOG NUMBER: GPC-SB1D-830-U-SLL

**CANDELA DISTRIBUTION (continued):**

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 1259.6 | 1259.6 | 1259.6 | 1259.6 | 1259.6 | 1259.6 | 1259.6 | 1259.6 | 1259.6 | 1259.6 | 1259.6 |
| 2.5° | 1311.7 | 1300.6 | 1289.4 | 1278.8 | 1268.2 | 1257.9 | 1246.4 | 1237.2 | 1227.9 | 1219.6 | 1211.2 |
| 5° | 1364.8 | 1341.8 | 1318.8 | 1297.3 | 1275.8 | 1255.5 | 1235.4 | 1217.9 | 1200.4 | 1185.7 | 1171.0 |
| 7.5° | 1413.3 | 1379.2 | 1345.1 | 1315.1 | 1285.1 | 1257.4 | 1231.4 | 1208.2 | 1184.9 | 1165.6 | 1146.2 |
| 10° | 1449.3 | 1407.9 | 1366.5 | 1331.0 | 1295.4 | 1261.3 | 1233.4 | 1208.8 | 1184.3 | 1164.9 | 1145.6 |
| 12.5° | 1475.6 | 1426.8 | 1378.0 | 1337.8 | 1297.7 | 1261.8 | 1235.8 | 1215.7 | 1195.7 | 1182.8 | 1170.1 |
| 15° | 1491.5 | 1435.3 | 1379.1 | 1332.6 | 1286.1 | 1246.3 | 1225.5 | 1215.9 | 1206.3 | 1208.1 | 1209.8 |
| 17.5° | 1496.0 | 1430.8 | 1365.5 | 1309.6 | 1253.7 | 1206.9 | 1194.1 | 1197.6 | 1201.1 | 1222.2 | 1243.2 |
| 20° | 1497.5 | 1418.4 | 1339.3 | 1270.0 | 1200.7 | 1146.2 | 1142.9 | 1159.3 | 1175.7 | 1212.3 | 1248.9 |
| 22.5° | 1499.4 | 1403.2 | 1307.0 | 1223.6 | 1140.1 | 1078.1 | 1084.7 | 1109.0 | 1133.3 | 1175.1 | 1216.9 |
| 25° | 1507.0 | 1388.2 | 1269.5 | 1171.7 | 1074.0 | 1010.4 | 1028.3 | 1056.3 | 1084.4 | 1121.9 | 1159.5 |
| 27.5° | 1523.0 | 1378.2 | 1233.5 | 1124.3 | 1015.1 | 957.3 | 979.0 | 1006.1 | 1033.1 | 1064.0 | 1094.9 |
| 30° | 1544.8 | 1373.5 | 1202.2 | 1084.7 | 967.2 | 918.6 | 935.6 | 957.1 | 978.7 | 1004.3 | 1029.9 |
| 32.5° | 1563.7 | 1367.7 | 1171.7 | 1050.5 | 929.2 | 890.1 | 897.7 | 910.4 | 923.1 | 943.5 | 964.0 |
| 35° | 1577.5 | 1356.8 | 1136.2 | 1016.9 | 897.6 | 864.9 | 861.8 | 865.3 | 868.8 | 884.4 | 900.0 |
| 37.5° | 1585.7 | 1338.1 | 1090.5 | 977.4 | 864.2 | 835.7 | 824.2 | 820.3 | 816.5 | 827.7 | 838.8 |
| 40° | 1590.9 | 1312.4 | 1033.9 | 930.2 | 826.5 | 800.6 | 783.0 | 774.3 | 765.5 | 773.6 | 781.7 |
| 42.5° | 1600.7 | 1285.8 | 970.9 | 878.1 | 785.3 | 761.5 | 739.3 | 727.7 | 716.1 | 722.6 | 729.3 |
| 45° | 1618.0 | 1261.1 | 904.2 | 822.8 | 741.4 | 717.3 | 695.8 | 684.5 | 673.2 | 678.7 | 684.3 |
| 47.5° | 1629.8 | 1240.7 | 851.5 | 779.1 | 706.6 | 675.5 | 657.0 | 647.5 | 638.0 | 643.2 | 648.4 |
| 50° | 1622.1 | 1218.4 | 814.8 | 750.0 | 685.3 | 644.3 | 622.8 | 614.4 | 606.0 | 614.1 | 622.3 |
| 52.5° | 1574.5 | 1180.9 | 787.4 | 730.9 | 674.5 | 627.4 | 597.3 | 589.0 | 580.7 | 593.0 | 605.1 |
| 55° | 1476.1 | 1118.6 | 761.2 | 717.0 | 672.9 | 629.1 | 583.8 | 570.6 | 557.5 | 574.9 | 592.2 |
| 57.5° | 1329.9 | 1030.9 | 731.8 | 700.6 | 669.4 | 630.8 | 575.7 | 556.5 | 537.4 | 556.0 | 574.7 |
| 60° | 1133.8 | 916.9 | 700.0 | 675.5 | 651.0 | 625.4 | 568.0 | 543.2 | 518.4 | 534.8 | 551.1 |
| 62.5° | 912.9 | 780.5 | 648.1 | 631.8 | 615.5 | 612.4 | 559.1 | 528.1 | 497.1 | 507.5 | 517.9 |
| 65° | *719.6* | *657.8* | *596.0* | *588.3* | *580.6* | *581.0* | *540.4* | *507.4* | *474.4* | *478.4* | *482.4* |
| 67.5° | 557.4 | 539.8 | 522.2 | 526.5 | 530.8 | 529.7 | 506.9 | 479.5 | 452.0 | 450.8 | 449.5 |
| 70° | 422.2 | 427.2 | 432.2 | 452.1 | 472.0 | 472.0 | 464.5 | 445.0 | 425.4 | 421.1 | 416.7 |
| 72.5° | 325.7 | 340.8 | 356.0 | 384.2 | 412.4 | 417.1 | 417.2 | 403.8 | 390.4 | 384.1 | 377.7 |
| 75° | 252.9 | 266.6 | 280.3 | 311.9 | 343.6 | 365.4 | 363.6 | 353.3 | 342.9 | 336.8 | 330.7 |
| 77.5° | 194.7 | 204.0 | 213.4 | 244.1 | 274.8 | 310.8 | 309.8 | 301.6 | 293.3 | 287.1 | 280.9 |
| 80° | 146.0 | 149.8 | 153.7 | 179.7 | 205.7 | 248.7 | 248.5 | 241.6 | 234.7 | 229.5 | 224.3 |
| 82.5° | 104.3 | 105.0 | 105.8 | 124.9 | 144.0 | 180.8 | 182.8 | 179.4 | 176.0 | 172.4 | 168.7 |
| 85° | 63.1 | 62.7 | 62.4 | 76.4 | 90.4 | 117.7 | 120.4 | 116.7 | 113.1 | 109.0 | 104.9 |
| 87.5° | 27.6 | 27.3 | 27.0 | 32.7 | 38.4 | 49.8 | 53.2 | 51.7 | 50.3 | 49.5 | 48.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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

Scaled Data Report

REPORT NUMBER: P1198915
CATALOG NUMBER: GPC-SB1D-830-U-SLL

**CANDELA DISTRIBUTION (continued):**

| | 165° | 170° | 175° | 180° | 185° | 190° | 195° | 200° | 205° | 210° | 215° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 1259.6 | 1259.6 | 1259.6 | 1259.6 | 1259.6 | 1259.6 | 1259.6 | 1259.6 | 1259.6 | 1259.6 | 1259.6 |
| 2.5° | 1203.9 | 1196.6 | 1189.3 | 1182.0 | 1176.3 | 1170.6 | 1166.1 | 1161.5 | 1157.9 | 1154.3 | 1151.0 |
| 5° | 1158.1 | 1145.1 | 1133.4 | 1121.6 | 1112.5 | 1103.5 | 1097.1 | 1090.8 | 1086.3 | 1081.8 | 1078.4 |
| 7.5° | 1129.9 | 1113.6 | 1099.2 | 1084.9 | 1074.1 | 1063.3 | 1055.8 | 1048.3 | 1043.1 | 1038.0 | 1034.9 |
| 10° | 1128.1 | 1110.5 | 1094.3 | 1078.1 | 1065.2 | 1052.3 | 1043.9 | 1035.4 | 1030.5 | 1025.6 | 1023.0 |
| 12.5° | 1156.2 | 1142.5 | 1125.7 | 1109.0 | 1092.6 | 1076.2 | 1065.3 | 1054.4 | 1048.9 | 1043.5 | 1041.3 |
| 15° | 1206.2 | 1202.6 | 1188.1 | 1173.5 | 1150.2 | 1126.8 | 1110.2 | 1093.7 | 1086.1 | 1078.6 | 1075.7 |
| 17.5° | 1254.5 | 1265.6 | 1253.9 | 1242.2 | 1211.2 | 1180.2 | 1155.9 | 1131.5 | 1120.3 | 1109.0 | 1105.3 |
| 20° | 1272.4 | 1295.8 | 1290.4 | 1285.0 | 1249.5 | 1214.1 | 1184.3 | 1154.5 | 1140.1 | 1125.7 | 1121.1 |
| 22.5° | 1247.4 | 1277.9 | 1281.2 | 1284.5 | 1250.6 | 1216.8 | 1186.1 | 1155.3 | 1140.1 | 1125.0 | 1119.9 |
| 25° | 1189.5 | 1219.6 | 1230.8 | 1241.9 | 1214.2 | 1186.5 | 1159.1 | 1131.9 | 1118.7 | 1105.6 | 1100.9 |
| 27.5° | 1118.9 | 1143.0 | 1155.5 | 1168.0 | 1148.2 | 1128.5 | 1107.3 | 1086.1 | 1077.3 | 1068.4 | 1066.2 |
| 30° | 1049.9 | 1069.9 | 1080.0 | 1090.2 | 1075.1 | 1060.1 | 1044.9 | 1029.6 | 1025.1 | 1020.6 | 1020.6 |
| 32.5° | 983.2 | 1002.3 | 1013.6 | 1024.9 | 1011.1 | 997.2 | 985.1 | 973.0 | 970.0 | 967.1 | 967.4 |
| 35° | 918.9 | 937.9 | 951.5 | 965.0 | 955.1 | 945.3 | 934.1 | 922.9 | 918.4 | 914.0 | 913.0 |
| 37.5° | 857.7 | 876.7 | 893.4 | 910.1 | 905.6 | 901.0 | 890.7 | 880.4 | 872.2 | 864.1 | 859.8 |
| 40° | 799.9 | 818.2 | 837.4 | 856.7 | 857.8 | 858.9 | 850.1 | 841.4 | 829.5 | 817.7 | 809.7 |
| 42.5° | 746.6 | 763.9 | 784.7 | 805.5 | 811.0 | 816.6 | 809.2 | 801.9 | 787.1 | 772.4 | 760.7 |
| 45° | 700.7 | 717.2 | 738.7 | 760.3 | 768.3 | 776.2 | 769.6 | 762.9 | 746.1 | 729.3 | 715.6 |
| 47.5° | 664.5 | 680.5 | 701.8 | 723.1 | 732.3 | 741.4 | 736.8 | 732.2 | 717.2 | 702.2 | 689.5 |
| 50° | 637.5 | 652.6 | 671.6 | 690.7 | 702.5 | 714.3 | 714.0 | 713.8 | 701.8 | 689.8 | 678.1 |
| 52.5° | 619.1 | 632.9 | 650.7 | 668.5 | 682.4 | 696.4 | 698.9 | 701.4 | 691.7 | 681.9 | 671.4 |
| 55° | 607.2 | 622.2 | 637.7 | 653.2 | 668.0 | 682.9 | 686.3 | 689.8 | 681.3 | 672.8 | 663.6 |
| 57.5° | 592.3 | 609.9 | 625.2 | 640.7 | 655.6 | 670.5 | 674.0 | 677.5 | 668.9 | 660.3 | 651.2 |
| 60° | 571.3 | 591.5 | 607.1 | 622.8 | 637.8 | 652.7 | 656.6 | 660.5 | 652.1 | 643.7 | 634.3 |
| 62.5° | 541.4 | 565.0 | 581.7 | 598.4 | 612.1 | 625.8 | 629.5 | 633.3 | 625.7 | 618.1 | 608.2 |
| 65° | *507.6* | *532.9* | *548.8* | *564.8* | *576.9* | *588.9* | *592.8* | *596.5* | *589.2* | *581.9* | *572.4* |
| 67.5° | 472.8 | 496.1 | 511.3 | 526.4 | 536.8 | 547.2 | 551.0 | 554.6 | 547.9 | 541.2 | 532.3 |
| 70° | 437.2 | 457.7 | 470.8 | 483.8 | 493.2 | 502.7 | 506.2 | 509.8 | 504.4 | 498.9 | 490.4 |
| 72.5° | 393.9 | 410.0 | 421.8 | 433.6 | 442.8 | 452.0 | 456.3 | 460.5 | 456.0 | 451.4 | 443.3 |
| 75° | 342.7 | 354.7 | 365.4 | 376.0 | 384.4 | 392.9 | 397.3 | 401.8 | 399.5 | 397.3 | 390.5 |
| 77.5° | 290.7 | 300.4 | 309.6 | 318.8 | 327.6 | 336.4 | 340.6 | 344.7 | 341.6 | 338.4 | 331.6 |
| 80° | 232.4 | 240.5 | 248.2 | 255.9 | 262.6 | 269.3 | 274.8 | 280.3 | 279.0 | 277.7 | 268.4 |
| 82.5° | 168.0 | 167.3 | 164.6 | 161.9 | 176.2 | 190.5 | 199.9 | 209.3 | 208.7 | 208.1 | 200.3 |
| 85° | 101.4 | 97.9 | 90.4 | 82.9 | 96.3 | 109.7 | 121.3 | 132.9 | 132.0 | 131.0 | 124.9 |
| 87.5° | 48.6 | 48.4 | 42.7 | 37.0 | 42.6 | 48.2 | 52.9 | 57.6 | 56.5 | 55.2 | 52.1 |
| 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: P1198915
CATALOG NUMBER: GPC-SB1D-830-U-SLL

**CANDELA DISTRIBUTION (continued):**

| | 220° | 225° | 230° | 235° | 240° | 245° | 250° | 255° | 260° | 265° | 270° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 1259.6 | 1259.6 | 1259.6 | 1259.6 | 1259.6 | 1259.6 | 1259.6 | 1259.6 | 1259.6 | 1259.6 | 1259.6 |
| 2.5° | 1147.7 | 1143.6 | 1147.7 | 1151.0 | 1154.3 | 1157.9 | 1161.5 | 1166.1 | 1170.6 | 1176.3 | 1182.0 |
| 5° | 1074.9 | 1071.6 | 1074.9 | 1078.4 | 1081.8 | 1086.3 | 1090.8 | 1097.1 | 1103.5 | 1112.5 | 1121.6 |
| 7.5° | 1031.8 | 1029.5 | 1031.8 | 1034.9 | 1038.0 | 1043.1 | 1048.3 | 1055.8 | 1063.3 | 1074.1 | 1084.9 |
| 10° | 1020.4 | 1019.4 | 1020.4 | 1023.0 | 1025.6 | 1030.5 | 1035.4 | 1043.9 | 1052.3 | 1065.2 | 1078.1 |
| 12.5° | 1039.1 | 1038.7 | 1039.1 | 1041.3 | 1043.5 | 1048.9 | 1054.4 | 1065.3 | 1076.2 | 1092.6 | 1109.0 |
| 15° | 1072.8 | 1072.5 | 1072.8 | 1075.7 | 1078.6 | 1086.1 | 1093.7 | 1110.2 | 1126.8 | 1150.2 | 1173.5 |
| 17.5° | 1101.6 | 1101.0 | 1101.6 | 1105.3 | 1109.0 | 1120.3 | 1131.5 | 1155.9 | 1180.2 | 1211.2 | 1242.2 |
| 20° | 1116.5 | 1115.1 | 1116.5 | 1121.1 | 1125.7 | 1140.1 | 1154.5 | 1184.3 | 1214.1 | 1249.5 | 1285.0 |
| 22.5° | 1114.8 | 1112.6 | 1114.8 | 1119.9 | 1125.0 | 1140.1 | 1155.3 | 1186.1 | 1216.8 | 1250.6 | 1284.5 |
| 25° | 1096.1 | 1093.3 | 1096.1 | 1100.9 | 1105.6 | 1118.7 | 1131.9 | 1159.1 | 1186.5 | 1214.2 | 1241.9 |
| 27.5° | 1064.1 | 1063.3 | 1064.1 | 1066.2 | 1068.4 | 1077.3 | 1086.1 | 1107.3 | 1128.5 | 1148.2 | 1168.0 |
| 30° | 1020.6 | 1021.3 | 1020.6 | 1020.6 | 1020.6 | 1025.1 | 1029.6 | 1044.9 | 1060.1 | 1075.1 | 1090.2 |
| 32.5° | 967.9 | 968.6 | 967.9 | 967.4 | 967.1 | 970.0 | 973.0 | 985.1 | 997.2 | 1011.1 | 1024.9 |
| 35° | 912.1 | 911.6 | 912.1 | 913.0 | 914.0 | 918.4 | 922.9 | 934.1 | 945.3 | 955.1 | 965.0 |
| 37.5° | 855.5 | 853.1 | 855.5 | 859.8 | 864.1 | 872.2 | 880.4 | 890.7 | 901.0 | 905.6 | 910.1 |
| 40° | 801.8 | 797.0 | 801.8 | 809.7 | 817.7 | 829.5 | 841.4 | 850.1 | 858.9 | 857.8 | 856.7 |
| 42.5° | 749.1 | 741.4 | 749.1 | 760.7 | 772.4 | 787.1 | 801.9 | 809.2 | 816.6 | 811.0 | 805.5 |
| 45° | 701.9 | 693.1 | 701.9 | 715.6 | 729.3 | 746.1 | 762.9 | 769.6 | 776.2 | 768.3 | 760.3 |
| 47.5° | 676.9 | 668.5 | 676.9 | 689.5 | 702.2 | 717.2 | 732.2 | 736.8 | 741.4 | 732.3 | 723.1 |
| 50° | 666.4 | 658.3 | 666.4 | 678.1 | 689.8 | 701.8 | 713.8 | 714.0 | 714.3 | 702.5 | 690.7 |
| 52.5° | 661.0 | 653.5 | 661.0 | 671.4 | 681.9 | 691.7 | 701.4 | 698.9 | 696.4 | 682.4 | 668.5 |
| 55° | 654.4 | 647.7 | 654.4 | 663.6 | 672.8 | 681.3 | 689.8 | 686.3 | 682.9 | 668.0 | 653.2 |
| 57.5° | 642.1 | 635.1 | 642.1 | 651.2 | 660.3 | 668.9 | 677.5 | 674.0 | 670.5 | 655.6 | 640.7 |
| 60° | 625.0 | 617.7 | 625.0 | 634.3 | 643.7 | 652.1 | 660.5 | 656.6 | 652.7 | 637.8 | 622.8 |
| 62.5° | 598.4 | 589.7 | 598.4 | 608.2 | 618.1 | 625.7 | 633.3 | 629.5 | 625.8 | 612.1 | 598.4 |
| 65° | *562.8* | *555.4* | *562.8* | *572.4* | *581.9* | *589.2* | *596.5* | *592.8* | *588.9* | *576.9* | *564.8* |
| 67.5° | 523.5 | 516.7 | 523.5 | 532.3 | 541.2 | 547.9 | 554.6 | 551.0 | 547.2 | 536.8 | 526.4 |
| 70° | 481.9 | 474.2 | 481.9 | 490.4 | 498.9 | 504.4 | 509.8 | 506.2 | 502.7 | 493.2 | 483.8 |
| 72.5° | 435.2 | 427.8 | 435.2 | 443.3 | 451.4 | 456.0 | 460.5 | 456.3 | 452.0 | 442.8 | 433.6 |
| 75° | 383.7 | 376.5 | 383.7 | 390.5 | 397.3 | 399.5 | 401.8 | 397.3 | 392.9 | 384.4 | 376.0 |
| 77.5° | 324.7 | 319.0 | 324.7 | 331.6 | 338.4 | 341.6 | 344.7 | 340.6 | 336.4 | 327.6 | 318.8 |
| 80° | 259.2 | 248.4 | 259.2 | 268.4 | 277.7 | 279.0 | 280.3 | 274.8 | 269.3 | 262.6 | 255.9 |
| 82.5° | 192.5 | 185.6 | 192.5 | 200.3 | 208.1 | 208.7 | 209.3 | 199.9 | 190.5 | 176.2 | 161.9 |
| 85° | 118.8 | 112.6 | 118.8 | 124.9 | 131.0 | 132.0 | 132.9 | 121.3 | 109.7 | 96.3 | 82.9 |
| 87.5° | 48.9 | 45.9 | 48.9 | 52.1 | 55.2 | 56.5 | 57.6 | 52.9 | 48.2 | 42.6 | 37.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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

Scaled Data Report

REPORT NUMBER: P1198915
CATALOG NUMBER: GPC-SB1D-830-U-SLL

**CANDELA DISTRIBUTION (continued):**

| | 275° | 280° | 285° | 290° | 295° | 300° | 305° | 310° | 315° | 320° | 325° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 1259.6 | 1259.6 | 1259.6 | 1259.6 | 1259.6 | 1259.6 | 1259.6 | 1259.6 | 1259.6 | 1259.6 | 1259.6 |
| 2.5° | 1189.3 | 1196.6 | 1203.9 | 1211.2 | 1219.6 | 1227.9 | 1237.2 | 1246.4 | 1257.9 | 1268.2 | 1278.8 |
| 5° | 1133.4 | 1145.1 | 1158.1 | 1171.0 | 1185.7 | 1200.4 | 1217.9 | 1235.4 | 1255.5 | 1275.8 | 1297.3 |
| 7.5° | 1099.2 | 1113.6 | 1129.9 | 1146.2 | 1165.6 | 1184.9 | 1208.2 | 1231.4 | 1257.4 | 1285.1 | 1315.1 |
| 10° | 1094.3 | 1110.5 | 1128.1 | 1145.6 | 1164.9 | 1184.3 | 1208.8 | 1233.4 | 1261.3 | 1295.4 | 1331.0 |
| 12.5° | 1125.7 | 1142.5 | 1156.2 | 1170.1 | 1182.8 | 1195.7 | 1215.7 | 1235.8 | 1261.8 | 1297.7 | 1337.8 |
| 15° | 1188.1 | 1202.6 | 1206.2 | 1209.8 | 1208.1 | 1206.3 | 1215.9 | 1225.5 | 1246.3 | 1286.1 | 1332.6 |
| 17.5° | 1253.9 | 1265.6 | 1254.5 | 1243.2 | 1222.2 | 1201.1 | 1197.6 | 1194.1 | 1206.9 | 1253.7 | 1309.6 |
| 20° | 1290.4 | 1295.8 | 1272.4 | 1248.9 | 1212.3 | 1175.7 | 1159.3 | 1142.9 | 1146.2 | 1200.7 | 1270.0 |
| 22.5° | 1281.2 | 1277.9 | 1247.4 | 1216.9 | 1175.1 | 1133.3 | 1109.0 | 1084.7 | 1078.1 | 1140.1 | 1223.6 |
| 25° | 1230.8 | 1219.6 | 1189.5 | 1159.5 | 1121.9 | 1084.4 | 1056.3 | 1028.3 | 1010.4 | 1074.0 | 1171.7 |
| 27.5° | 1155.5 | 1143.0 | 1118.9 | 1094.9 | 1064.0 | 1033.1 | 1006.1 | 979.0 | 957.3 | 1015.1 | 1124.3 |
| 30° | 1080.0 | 1069.9 | 1049.9 | 1029.9 | 1004.3 | 978.7 | 957.1 | 935.6 | 918.6 | 967.2 | 1084.7 |
| 32.5° | 1013.6 | 1002.3 | 983.2 | 964.0 | 943.5 | 923.1 | 910.4 | 897.7 | 890.1 | 929.2 | 1050.5 |
| 35° | 951.5 | 937.9 | 918.9 | 900.0 | 884.4 | 868.8 | 865.3 | 861.8 | 864.9 | 897.6 | 1016.9 |
| 37.5° | 893.4 | 876.7 | 857.7 | 838.8 | 827.7 | 816.5 | 820.3 | 824.2 | 835.7 | 864.2 | 977.4 |
| 40° | 837.4 | 818.2 | 799.9 | 781.7 | 773.6 | 765.5 | 774.3 | 783.0 | 800.6 | 826.5 | 930.2 |
| 42.5° | 784.7 | 763.9 | 746.6 | 729.3 | 722.6 | 716.1 | 727.7 | 739.3 | 761.5 | 785.3 | 878.1 |
| 45° | 738.7 | 717.2 | 700.7 | 684.3 | 678.7 | 673.2 | 684.5 | 695.8 | 717.3 | 741.4 | 822.8 |
| 47.5° | 701.8 | 680.5 | 664.5 | 648.4 | 643.2 | 638.0 | 647.5 | 657.0 | 675.5 | 706.6 | 779.1 |
| 50° | 671.6 | 652.6 | 637.5 | 622.3 | 614.1 | 606.0 | 614.4 | 622.8 | 644.3 | 685.3 | 750.0 |
| 52.5° | 650.7 | 632.9 | 619.1 | 605.1 | 593.0 | 580.7 | 589.0 | 597.3 | 627.4 | 674.5 | 730.9 |
| 55° | 637.7 | 622.2 | 607.2 | 592.2 | 574.9 | 557.5 | 570.6 | 583.8 | 629.1 | 672.9 | 717.0 |
| 57.5° | 625.2 | 609.9 | 592.3 | 574.7 | 556.0 | 537.4 | 556.5 | 575.7 | 630.8 | 669.4 | 700.6 |
| 60° | 607.1 | 591.5 | 571.3 | 551.1 | 534.8 | 518.4 | 543.2 | 568.0 | 625.4 | 651.0 | 675.5 |
| 62.5° | 581.7 | 565.0 | 541.4 | 517.9 | 507.5 | 497.1 | 528.1 | 559.1 | 612.4 | 615.5 | 631.8 |
| 65° | *548.8* | *532.9* | *507.6* | *482.4* | *478.4* | *474.4* | *507.4* | *540.4* | *581.0* | *580.6* | *588.3* |
| 67.5° | 511.3 | 496.1 | 472.8 | 449.5 | 450.8 | 452.0 | 479.5 | 506.9 | 529.7 | 530.8 | 526.5 |
| 70° | 470.8 | 457.7 | 437.2 | 416.7 | 421.1 | 425.4 | 445.0 | 464.5 | 472.0 | 472.0 | 452.1 |
| 72.5° | 421.8 | 410.0 | 393.9 | 377.7 | 384.1 | 390.4 | 403.8 | 417.2 | 417.1 | 412.4 | 384.2 |
| 75° | 365.4 | 354.7 | 342.7 | 330.7 | 336.8 | 342.9 | 353.3 | 363.6 | 365.4 | 343.6 | 311.9 |
| 77.5° | 309.6 | 300.4 | 290.7 | 280.9 | 287.1 | 293.3 | 301.6 | 309.8 | 310.8 | 274.8 | 244.1 |
| 80° | 248.2 | 240.5 | 232.4 | 224.3 | 229.5 | 234.7 | 241.6 | 248.5 | 248.7 | 205.7 | 179.7 |
| 82.5° | 164.6 | 167.3 | 168.0 | 168.7 | 172.4 | 176.0 | 179.4 | 182.8 | 180.8 | 144.0 | 124.9 |
| 85° | 90.4 | 97.9 | 101.4 | 104.9 | 109.0 | 113.1 | 116.7 | 120.4 | 117.7 | 90.4 | 76.4 |
| 87.5° | 42.7 | 48.4 | 48.6 | 48.7 | 49.5 | 50.3 | 51.7 | 53.2 | 49.8 | 38.4 | 32.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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

Scaled Data Report

REPORT NUMBER: P1198915
CATALOG NUMBER: GPC-SB1D-830-U-SLL

**CANDELA DISTRIBUTION (continued):**

| | 330° | 335° | 340° | 345° | 350° | 355° | 360° |
|---|---|---|---|---|---|---|---|
| 0° | 1259.6 | 1259.6 | 1259.6 | 1259.6 | 1259.6 | 1259.6 | 1259.6 |
| 2.5° | 1289.4 | 1300.6 | 1311.7 | 1322.7 | 1333.8 | 1344.2 | 1354.6 |
| 5° | 1318.8 | 1341.8 | 1364.8 | 1387.7 | 1410.6 | 1433.6 | 1456.5 |
| 7.5° | 1345.1 | 1379.2 | 1413.3 | 1448.3 | 1483.3 | 1521.1 | 1559.0 |
| 10° | 1366.5 | 1407.9 | 1449.3 | 1495.5 | 1541.8 | 1589.7 | 1637.5 |
| 12.5° | 1378.0 | 1426.8 | 1475.6 | 1528.0 | 1580.4 | 1633.0 | 1685.6 |
| 15° | 1379.1 | 1435.3 | 1491.5 | 1548.3 | 1605.2 | 1660.0 | 1714.9 |
| 17.5° | 1365.5 | 1430.8 | 1496.0 | 1558.0 | 1620.1 | 1675.7 | 1731.3 |
| 20° | 1339.3 | 1418.4 | 1497.5 | 1565.6 | 1633.8 | 1691.6 | 1749.4 |
| 22.5° | 1307.0 | 1403.2 | 1499.4 | 1575.9 | 1652.3 | 1711.4 | 1770.5 |
| 25° | 1269.5 | 1388.2 | 1507.0 | 1594.4 | 1681.8 | 1739.6 | 1797.5 |
| 27.5° | 1233.5 | 1378.2 | 1523.0 | 1623.4 | 1723.8 | 1779.1 | 1834.3 |
| 30° | 1202.2 | 1373.5 | 1544.8 | 1661.0 | 1777.1 | 1830.4 | 1883.8 |
| 32.5° | 1171.7 | 1367.7 | 1563.7 | 1700.2 | 1836.7 | 1889.5 | 1942.3 |
| 35° | 1136.2 | 1356.8 | 1577.5 | 1744.9 | 1912.2 | 1962.8 | 2013.3 |
| 37.5° | 1090.5 | 1338.1 | 1585.7 | 1794.9 | 2004.0 | 2068.5 | 2133.0 |
| 40° | 1033.9 | 1312.4 | 1590.9 | 1858.4 | 2125.8 | 2219.8 | 2313.7 |
| 42.5° | 970.9 | 1285.8 | 1600.7 | 1941.5 | 2282.2 | 2417.9 | 2553.5 |
| 45° | 904.2 | 1261.1 | 1618.0 | 2050.8 | 2483.6 | 2666.6 | 2849.5 |
| 47.5° | 851.5 | 1240.7 | 1629.8 | 2167.3 | 2704.8 | 2962.3 | 3219.8 |
| 50° | 814.8 | 1218.4 | 1622.1 | 2275.4 | 2928.6 | 3316.9 | 3705.0 |
| 52.5° | 787.4 | 1180.9 | 1574.5 | 2345.5 | 3116.6 | 3689.3 | 4262.1 |
| 55° | 761.2 | 1118.6 | 1476.1 | 2330.1 | 3184.0 | 4019.5 | 4855.1 |
| 57.5° | 731.8 | 1030.9 | 1329.9 | 2221.2 | 3112.6 | 4253.6 | 5394.5 |
| 60° | 700.0 | 916.9 | 1133.8 | 2018.7 | 2903.5 | 4312.1 | 5720.5 |
| 62.5° | 648.1 | 780.5 | 912.9 | 1744.8 | 2576.6 | 4065.8 | 5555.0 |
| 65° | *596.0* | *657.8* | *719.6* | *1465.3* | *2211.0* | *3717.4* | *5223.7* |
| 67.5° | 522.2 | 539.8 | 557.4 | 1191.5 | 1825.7 | 3302.7 | 4779.7 |
| 70° | 432.2 | 427.2 | 422.2 | 938.2 | 1454.1 | 2850.2 | 4246.4 |
| 72.5° | 356.0 | 340.8 | 325.7 | 717.2 | 1108.8 | 2359.8 | 3610.8 |
| 75° | 280.3 | 266.6 | 252.9 | 520.6 | 788.2 | 1797.5 | 2806.7 |
| 77.5° | 213.4 | 204.0 | 194.7 | 352.7 | 510.8 | 1258.1 | 2005.4 |
| 80° | 153.7 | 149.8 | 146.0 | 227.3 | 308.6 | 810.6 | 1312.5 |
| 82.5° | 105.8 | 105.0 | 104.3 | 139.8 | 175.4 | 469.1 | 762.9 |
| 85° | 62.4 | 62.7 | 63.1 | 74.7 | 86.4 | 211.0 | 335.7 |
| 87.5° | 27.0 | 27.3 | 27.6 | 31.0 | 34.3 | 69.1 | 103.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |


HS
SS

0

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

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

Report Prepared for

Cooper Lighting Solutions

MCGRAW EDISON

Report Number: SP1-2408-195-9

Test Date: 08/07/2024

Luminaire Tested: GALN-SB1A-830-U-5WQ

Data in this report applies to families of products including GALN-SB1A-830-U-5WQ.

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

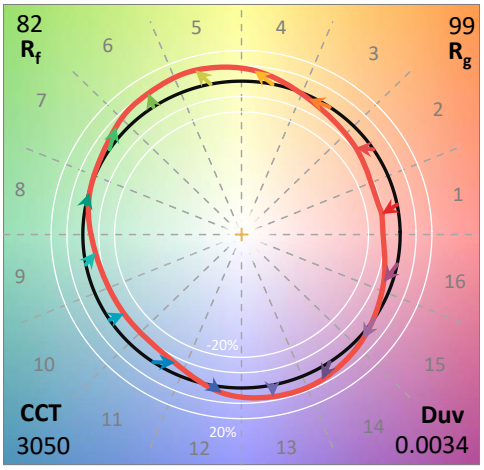
## Test Information

| | |
|---|---|
| Test Method: | LM-79-2019 |
| Report Number: | SP1-2408-195-9 |
| Test Lab: | COOPER LIGHTING SOLUTIONS |
| Photometer: | SP1 - 76IN SPHERE |
| Measurement Geometry: | 4π |
| Issue Date: | 08/07/2024 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS |
| Product Line: | MCGRAW EDISON |
| Catalog Number: | **GALN-SB1A-830-U-5WQ** |
| Description: | GALLEON AREA AND ROADWAY LUMINAIRE. (1) 80 CRI, 3000K, 350MA HIGH DENSITY LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS |

## Spectral Parameters

| | |
|---|---|
| CCT (K): | 3050 |
| CIE u': | 0.2476 |
| CIE v': | 0.5251 |
| Duv: | 0.0034 |
| CIE x: | 0.4383 |
| CIE y: | 0.4131 |
| CIE z: | 0.1487 |
| Peak Wavelength (nm): | 603 |
| Dominant Wavelength (nm): | 581 |
| Purity: | 55.55201 |
| Rf: | 81.5 |
| Rg: | 99.2 |

| | |
|---|---|
| CRI (Ra): | 81.0 |
| R1: | 79.6 |
| R2: | 85.6 |
| R3: | 92.0 |
| R4: | 82.6 |
| R5: | 78.9 |
| R6: | 81.7 |
| R7: | 85.2 |
| R8: | 62.0 |
| R9: | 7.1 |
| R10: | 67.0 |
| R11: | 82.7 |
| R12: | 63.2 |
| R13: | 80.3 |
| R14: | 95.0 |
| R15: | 71.7 |




## Test Conditions

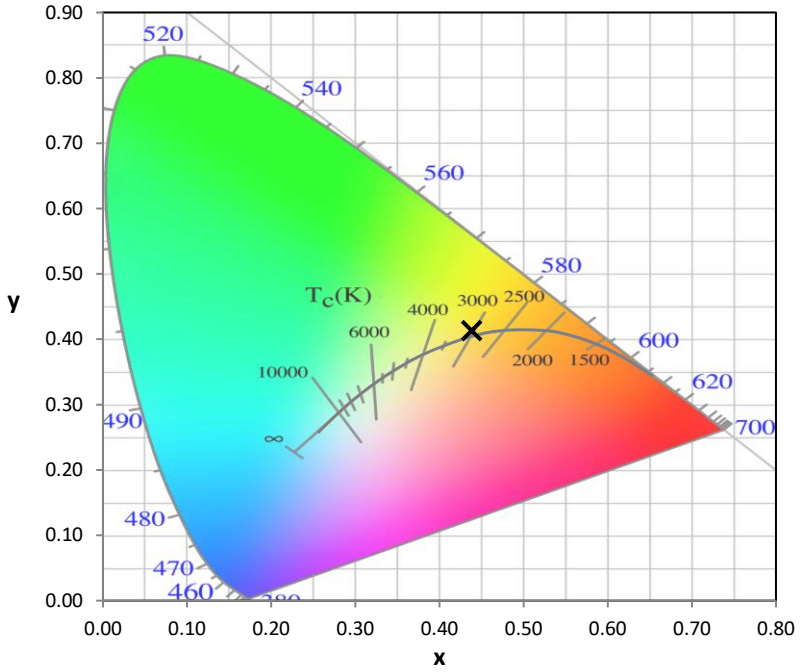
| | |
|---|---|
| Stabilization Time: | 20M |
| Operation Time: | 1H 20M |
| Sphere Temperature (°C): | 24.2 |

REPORT NUMBER: SP1-2408-195-9

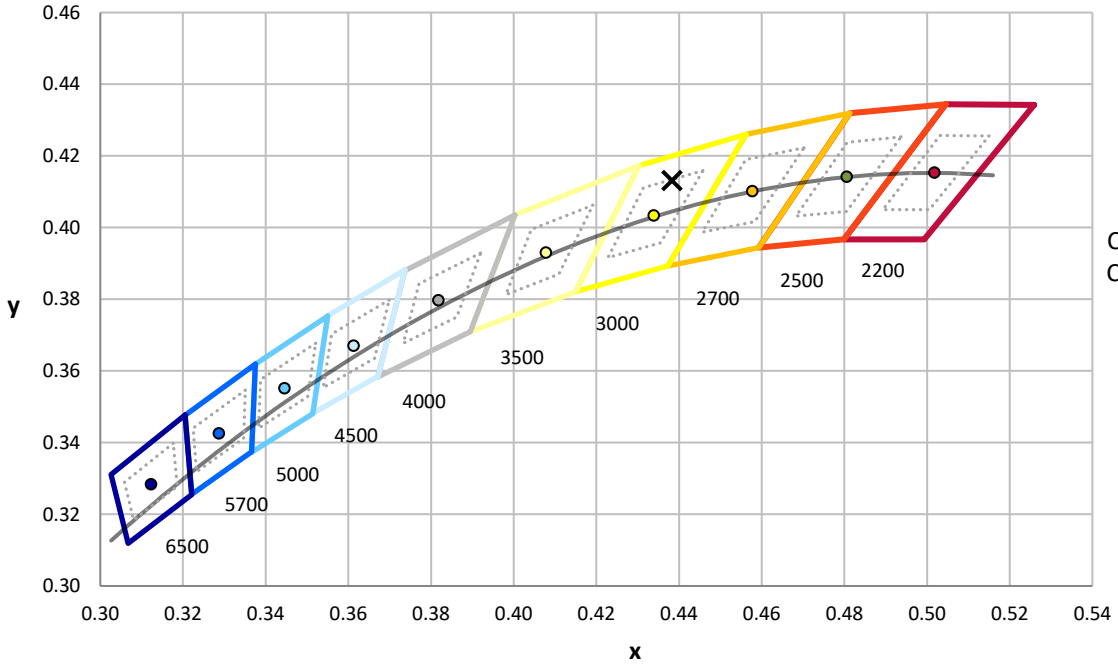
| Measurement and Test Equipment | | | |
|---|---|---|---|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | IN0058 | 6/18/2024 | 12/18/2024 |
| Power Meter | INXT2011004 | 2/8/2024 | 2/8/2025 |
| AC Power Source | IN0063 | 10/24/2023 | 10/24/2024 |
| DC Power Source | IN0208 | 10/24/2023 | 10/24/2024 |
| Sphere Thermometer | IN0085 | 10/24/2023 | 10/24/2024 |
| Room Thermometer | IN0046 | 10/24/2023 | 10/24/2024 |

REPORT NUMBER: SP1-2408-195-9

## CIE 1931 Chromaticity Diagram




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

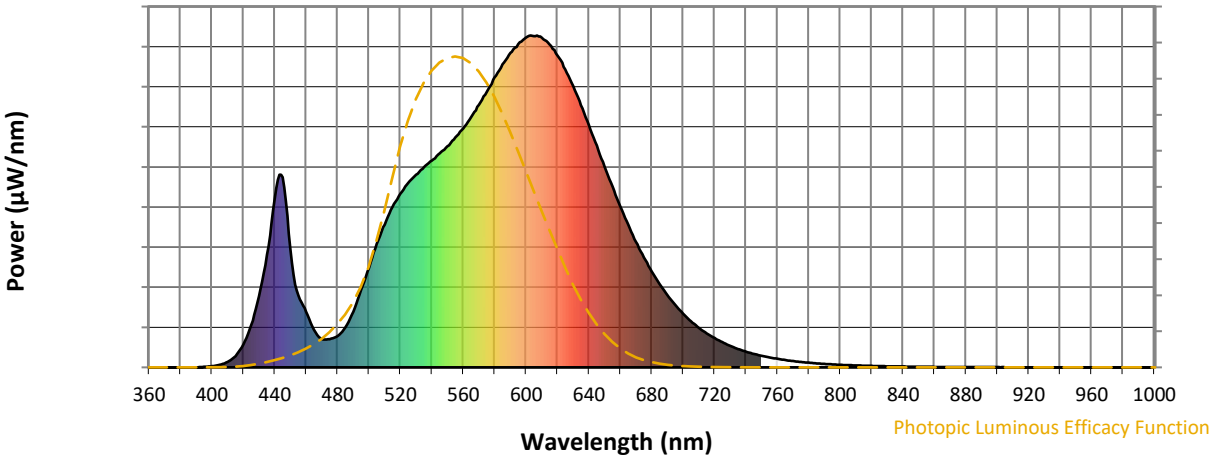



CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

## Photopic Flux vs. Wavelength

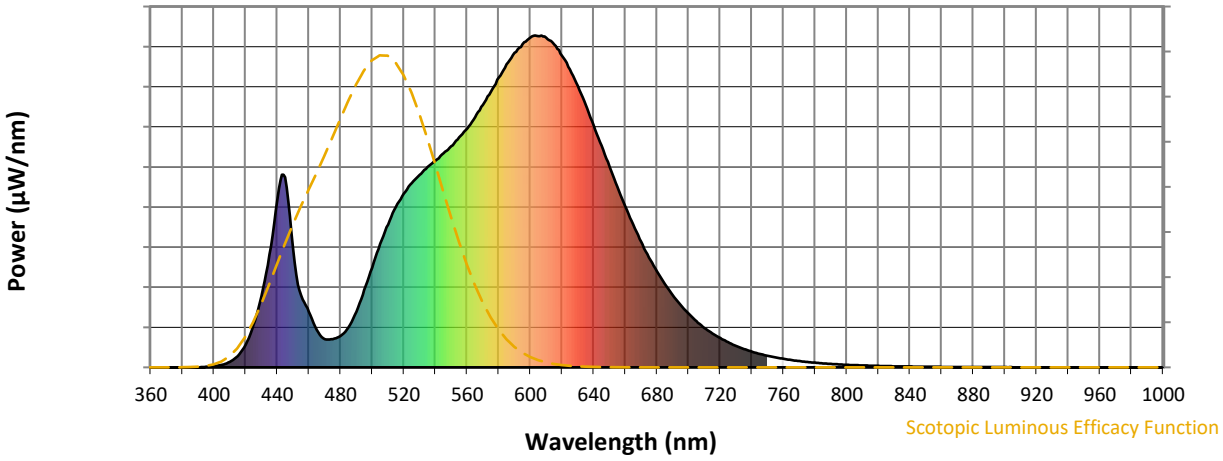



## Photopic Lumens: NR

| λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 360 | 0 | NR | 490 | 168 | NR | 620 | 940 | NR | 750 | 35 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 233 | NR | 625 | 897 | NR | 755 | 30 | NR | 885 | 1 | NR |
| 370 | 0 | NR | 500 | 300 | NR | 630 | 847 | NR | 760 | 26 | NR | 890 | 1 | NR |
| 375 | 0 | NR | 505 | 372 | NR | 635 | 790 | NR | 765 | 22 | NR | 895 | 1 | NR |
| 380 | 0 | NR | 510 | 430 | NR | 640 | 730 | NR | 770 | 19 | NR | 900 | 1 | NR |
| 385 | 0 | NR | 515 | 483 | NR | 645 | 668 | NR | 775 | 16 | NR | 905 | 1 | NR |
| 390 | 0 | NR | 520 | 524 | NR | 650 | 605 | NR | 780 | 14 | NR | 910 | 0 | NR |
| 395 | 2 | NR | 525 | 555 | NR | 655 | 545 | NR | 785 | 12 | NR | 915 | 0 | NR |
| 400 | 4 | NR | 530 | 581 | NR | 660 | 485 | NR | 790 | 10 | NR | 920 | 0 | NR |
| 405 | 7 | NR | 535 | 604 | NR | 665 | 430 | NR | 795 | 9 | NR | 925 | 0 | NR |
| 410 | 17 | NR | 540 | 623 | NR | 670 | 378 | NR | 800 | 8 | NR | 930 | 0 | NR |
| 415 | 34 | NR | 545 | 645 | NR | 675 | 331 | NR | 805 | 7 | NR | 935 | 0 | NR |
| 420 | 68 | NR | 550 | 667 | NR | 680 | 290 | NR | 810 | 6 | NR | 940 | 0 | NR |
| 425 | 128 | NR | 555 | 693 | NR | 685 | 251 | NR | 815 | 5 | NR | 945 | 0 | NR |
| 430 | 214 | NR | 560 | 719 | NR | 690 | 218 | NR | 820 | 4 | NR | 950 | 0 | NR |
| 435 | 339 | NR | 565 | 754 | NR | 695 | 188 | NR | 825 | 4 | NR | 955 | 0 | NR |
| 440 | 507 | NR | 570 | 791 | NR | 700 | 162 | NR | 830 | 3 | NR | 960 | 0 | NR |
| 445 | 573 | NR | 575 | 830 | NR | 705 | 139 | NR | 835 | 3 | NR | 965 | 0 | NR |
| 450 | 356 | NR | 580 | 873 | NR | 710 | 119 | NR | 840 | 3 | NR | 970 | 0 | NR |
| 455 | 217 | NR | 585 | 913 | NR | 715 | 102 | NR | 845 | 2 | NR | 975 | 0 | NR |
| 460 | 168 | NR | 590 | 948 | NR | 720 | 88 | NR | 850 | 2 | NR | 980 | 0 | NR |
| 465 | 113 | NR | 595 | 974 | NR | 725 | 76 | NR | 855 | 2 | NR | 985 | 0 | NR |
| 470 | 85 | NR | 600 | 994 | NR | 730 | 65 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 85 | NR | 605 | 998 | NR | 735 | 55 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 94 | NR | 610 | 994 | NR | 740 | 47 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 120 | NR | 615 | 973 | NR | 745 | 41 | NR | 875 | 1 | NR | | | |

REPORT NUMBER: SP1-2408-195-9

## Scotopic Flux vs. Wavelength

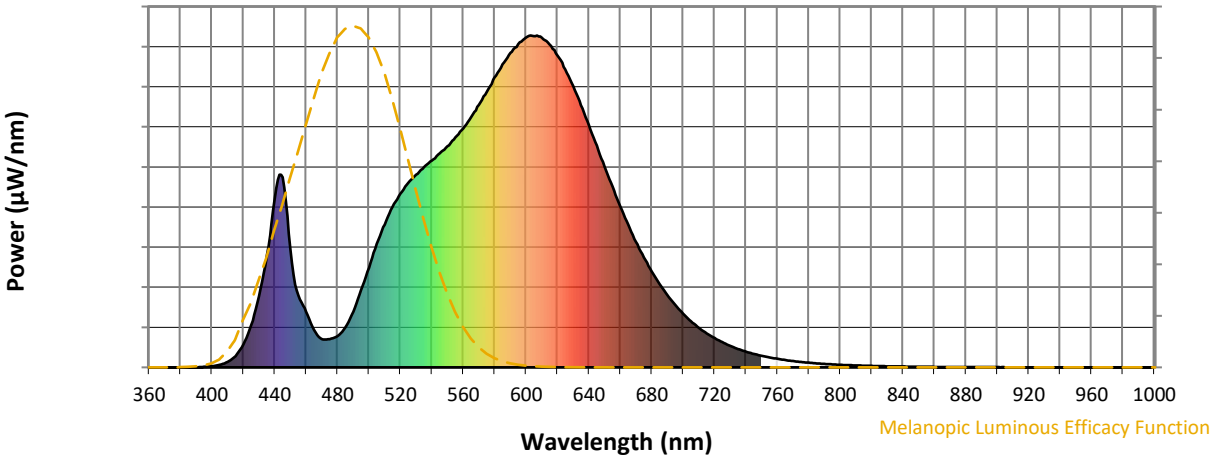



**Scotopic Lumens: NR** **S/P: 1.27**

| λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 360 | 0 | NR | 490 | 168 | NR | 620 | 940 | NR | 750 | 35 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 233 | NR | 625 | 897 | NR | 755 | 30 | NR | 885 | 1 | NR |
| 370 | 0 | NR | 500 | 300 | NR | 630 | 847 | NR | 760 | 26 | NR | 890 | 1 | NR |
| 375 | 0 | NR | 505 | 372 | NR | 635 | 790 | NR | 765 | 22 | NR | 895 | 1 | NR |
| 380 | 0 | NR | 510 | 430 | NR | 640 | 730 | NR | 770 | 19 | NR | 900 | 1 | NR |
| 385 | 0 | NR | 515 | 483 | NR | 645 | 668 | NR | 775 | 16 | NR | 905 | 1 | NR |
| 390 | 0 | NR | 520 | 524 | NR | 650 | 605 | NR | 780 | 14 | NR | 910 | 0 | NR |
| 395 | 2 | NR | 525 | 555 | NR | 655 | 545 | NR | 785 | 12 | NR | 915 | 0 | NR |
| 400 | 4 | NR | 530 | 581 | NR | 660 | 485 | NR | 790 | 10 | NR | 920 | 0 | NR |
| 405 | 7 | NR | 535 | 604 | NR | 665 | 430 | NR | 795 | 9 | NR | 925 | 0 | NR |
| 410 | 17 | NR | 540 | 623 | NR | 670 | 378 | NR | 800 | 8 | NR | 930 | 0 | NR |
| 415 | 34 | NR | 545 | 645 | NR | 675 | 331 | NR | 805 | 7 | NR | 935 | 0 | NR |
| 420 | 68 | NR | 550 | 667 | NR | 680 | 290 | NR | 810 | 6 | NR | 940 | 0 | NR |
| 425 | 128 | NR | 555 | 693 | NR | 685 | 251 | NR | 815 | 5 | NR | 945 | 0 | NR |
| 430 | 214 | NR | 560 | 719 | NR | 690 | 218 | NR | 820 | 4 | NR | 950 | 0 | NR |
| 435 | 339 | NR | 565 | 754 | NR | 695 | 188 | NR | 825 | 4 | NR | 955 | 0 | NR |
| 440 | 507 | NR | 570 | 791 | NR | 700 | 162 | NR | 830 | 3 | NR | 960 | 0 | NR |
| 445 | 573 | NR | 575 | 830 | NR | 705 | 139 | NR | 835 | 3 | NR | 965 | 0 | NR |
| 450 | 356 | NR | 580 | 873 | NR | 710 | 119 | NR | 840 | 3 | NR | 970 | 0 | NR |
| 455 | 217 | NR | 585 | 913 | NR | 715 | 102 | NR | 845 | 2 | NR | 975 | 0 | NR |
| 460 | 168 | NR | 590 | 948 | NR | 720 | 88 | NR | 850 | 2 | NR | 980 | 0 | NR |
| 465 | 113 | NR | 595 | 974 | NR | 725 | 76 | NR | 855 | 2 | NR | 985 | 0 | NR |
| 470 | 85 | NR | 600 | 994 | NR | 730 | 65 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 85 | NR | 605 | 998 | NR | 735 | 55 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 94 | NR | 610 | 994 | NR | 740 | 47 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 120 | NR | 615 | 973 | NR | 745 | 41 | NR | 875 | 1 | NR | | | |

REPORT NUMBER: SP1-2408-195-9

## Melanopic Flux vs. Wavelength




**Melanopic Lumens: NR** **M/P: 2.32**

| λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 360 | 0 | NR | 490 | 168 | NR | 620 | 940 | NR | 750 | 35 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 233 | NR | 625 | 897 | NR | 755 | 30 | NR | 885 | 1 | NR |
| 370 | 0 | NR | 500 | 300 | NR | 630 | 847 | NR | 760 | 26 | NR | 890 | 1 | NR |
| 375 | 0 | NR | 505 | 372 | NR | 635 | 790 | NR | 765 | 22 | NR | 895 | 1 | NR |
| 380 | 0 | NR | 510 | 430 | NR | 640 | 730 | NR | 770 | 19 | NR | 900 | 1 | NR |
| 385 | 0 | NR | 515 | 483 | NR | 645 | 668 | NR | 775 | 16 | NR | 905 | 1 | NR |
| 390 | 0 | NR | 520 | 524 | NR | 650 | 605 | NR | 780 | 14 | NR | 910 | 0 | NR |
| 395 | 2 | NR | 525 | 555 | NR | 655 | 545 | NR | 785 | 12 | NR | 915 | 0 | NR |
| 400 | 4 | NR | 530 | 581 | NR | 660 | 485 | NR | 790 | 10 | NR | 920 | 0 | NR |
| 405 | 7 | NR | 535 | 604 | NR | 665 | 430 | NR | 795 | 9 | NR | 925 | 0 | NR |
| 410 | 17 | NR | 540 | 623 | NR | 670 | 378 | NR | 800 | 8 | NR | 930 | 0 | NR |
| 415 | 34 | NR | 545 | 645 | NR | 675 | 331 | NR | 805 | 7 | NR | 935 | 0 | NR |
| 420 | 68 | NR | 550 | 667 | NR | 680 | 290 | NR | 810 | 6 | NR | 940 | 0 | NR |
| 425 | 128 | NR | 555 | 693 | NR | 685 | 251 | NR | 815 | 5 | NR | 945 | 0 | NR |
| 430 | 214 | NR | 560 | 719 | NR | 690 | 218 | NR | 820 | 4 | NR | 950 | 0 | NR |
| 435 | 339 | NR | 565 | 754 | NR | 695 | 188 | NR | 825 | 4 | NR | 955 | 0 | NR |
| 440 | 507 | NR | 570 | 791 | NR | 700 | 162 | NR | 830 | 3 | NR | 960 | 0 | NR |
| 445 | 573 | NR | 575 | 830 | NR | 705 | 139 | NR | 835 | 3 | NR | 965 | 0 | NR |
| 450 | 356 | NR | 580 | 873 | NR | 710 | 119 | NR | 840 | 3 | NR | 970 | 0 | NR |
| 455 | 217 | NR | 585 | 913 | NR | 715 | 102 | NR | 845 | 2 | NR | 975 | 0 | NR |
| 460 | 168 | NR | 590 | 948 | NR | 720 | 88 | NR | 850 | 2 | NR | 980 | 0 | NR |
| 465 | 113 | NR | 595 | 974 | NR | 725 | 76 | NR | 855 | 2 | NR | 985 | 0 | NR |
| 470 | 85 | NR | 600 | 994 | NR | 730 | 65 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 85 | NR | 605 | 998 | NR | 735 | 55 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 94 | NR | 610 | 994 | NR | 740 | 47 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 120 | NR | 615 | 973 | NR | 745 | 41 | NR | 875 | 1 | NR | | | |

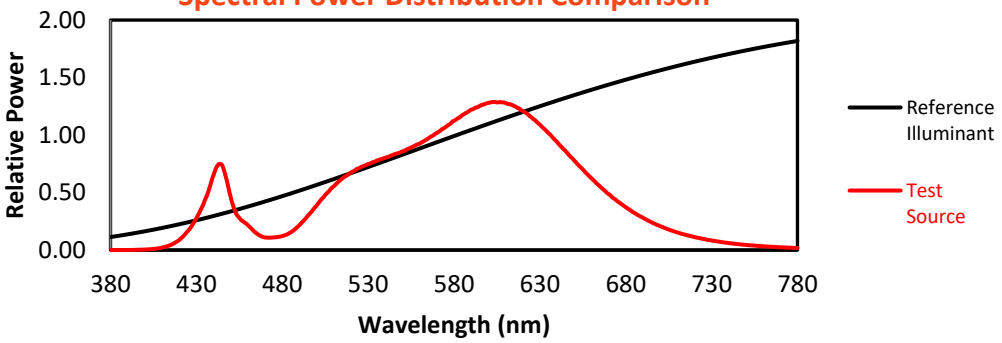
REPORT NUMBER: SP1-2408-195-9

# TM-30-18

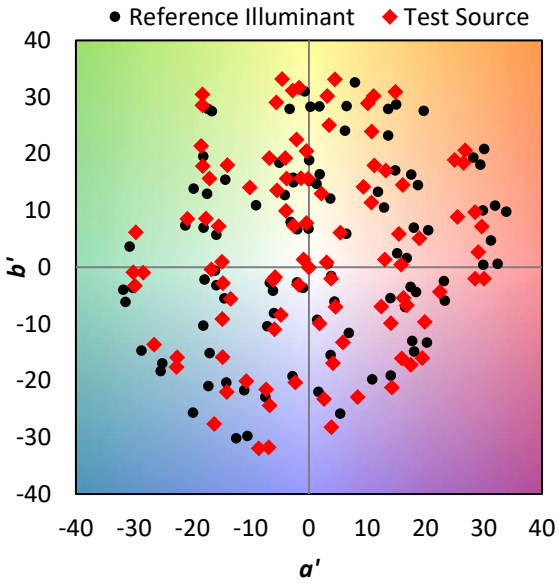
## Summary

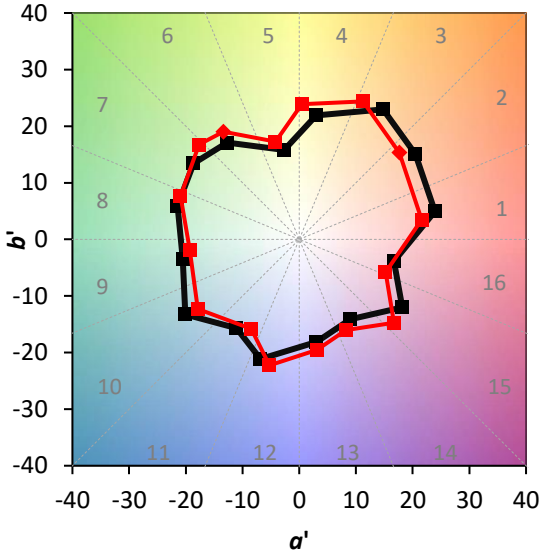
$R_f$ = 81.5
$R_g$ = 99.2
CIE $R_a$ = 81.0
$R_9$ = 7.1

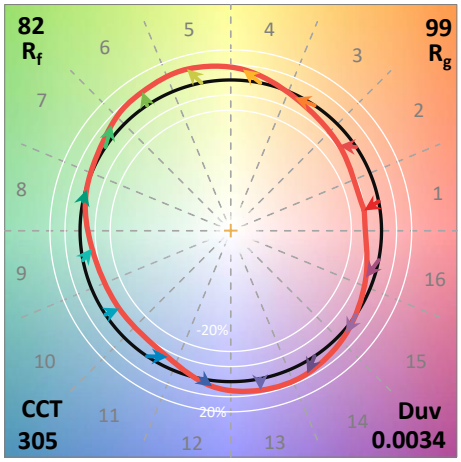
## Spectral Power Distribution Comparison

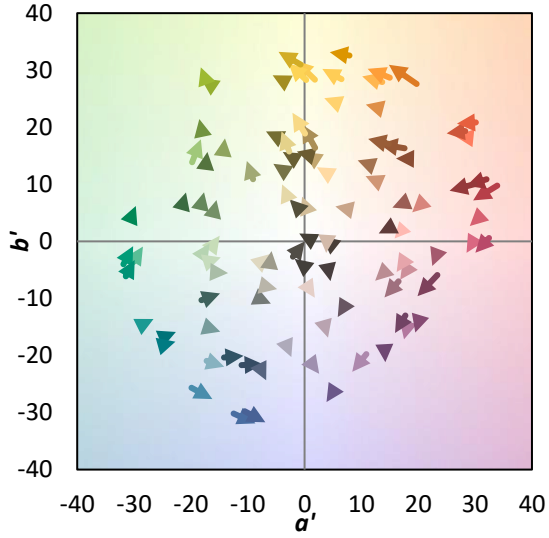



## Color Vector Graphics



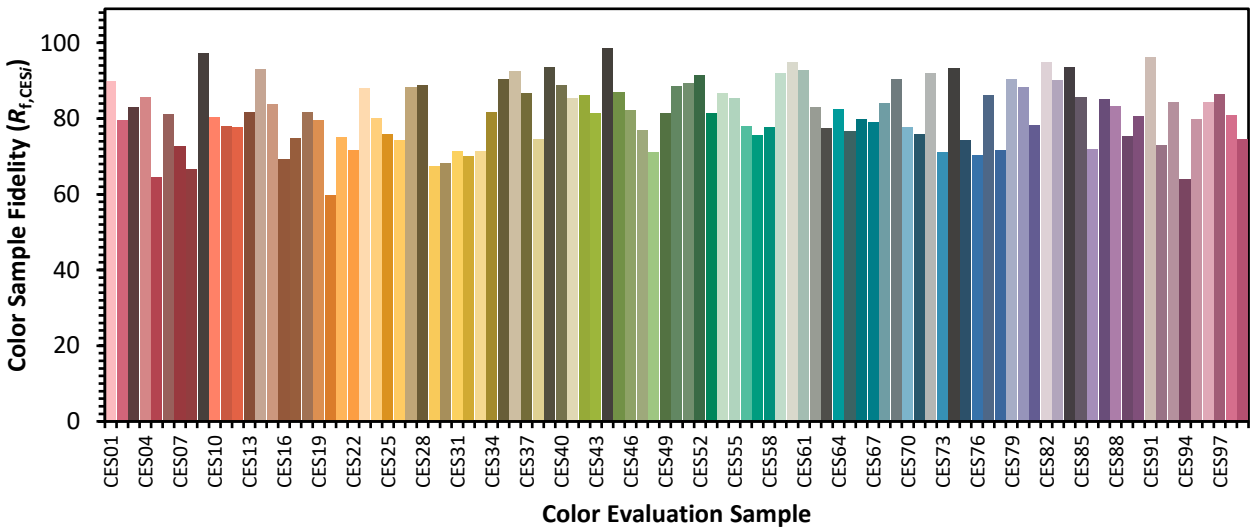



REPORT NUMBER: SP1-2408-195-9

# TM-30-18

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

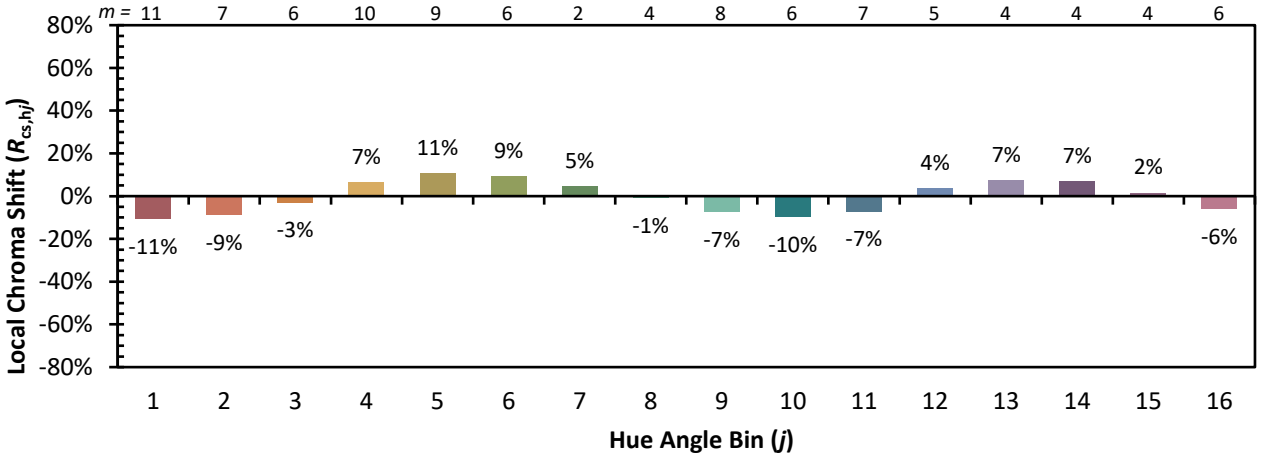
| | | | |
|---|---|---|---|
| CES01 = 86 | CES26 = 74 | CES51 = 89 | CES76 = 70 |
| CES02 = 63 | CES27 = 88 | CES52 = 92 | CES77 = 86 |
| CES03 = 31 | CES28 = 89 | CES53 = 81 | CES78 = 72 |
| CES04 = 70 | CES29 = 67 | CES54 = 87 | CES79 = 90 |
| CES05 = 50 | CES30 = 68 | CES55 = 85 | CES80 = 88 |
| CES06 = 51 | CES31 = 71 | CES56 = 78 | CES81 = 78 |
| CES07 = 42 | CES32 = 70 | CES57 = 76 | CES82 = 95 |
| CES08 = 41 | CES33 = 71 | CES58 = 78 | CES83 = 90 |
| CES09 = 29 | CES34 = 82 | CES59 = 92 | CES84 = 94 |
| CES10 = 76 | CES35 = 90 | CES60 = 95 | CES85 = 86 |
| CES11 = 59 | CES36 = 93 | CES61 = 93 | CES86 = 72 |
| CES12 = 65 | CES37 = 87 | CES62 = 83 | CES87 = 85 |
| CES13 = 43 | CES38 = 75 | CES63 = 77 | CES88 = 83 |
| CES14 = 74 | CES39 = 94 | CES64 = 83 | CES89 = 75 |
| CES15 = 71 | CES40 = 89 | CES65 = 77 | CES90 = 81 |
| CES16 = 47 | CES41 = 85 | CES66 = 80 | CES91 = 96 |
| CES17 = 50 | CES42 = 86 | CES67 = 79 | CES92 = 73 |
| CES18 = 56 | CES43 = 81 | CES68 = 84 | CES93 = 84 |
| CES19 = 72 | CES44 = 99 | CES69 = 91 | CES94 = 64 |
| CES20 = 66 | CES45 = 87 | CES70 = 78 | CES95 = 80 |
| CES21 = 87 | CES46 = 82 | CES71 = 76 | CES96 = 84 |
| CES22 = 79 | CES47 = 77 | CES72 = 92 | CES97 = 87 |
| CES23 = 92 | CES48 = 71 | CES73 = 71 | CES98 = 81 |
| CES24 = 91 | CES49 = 81 | CES74 = 93 | CES99 = 74 |
| CES25 = 72 | CES50 = 89 | CES75 = 74 | |

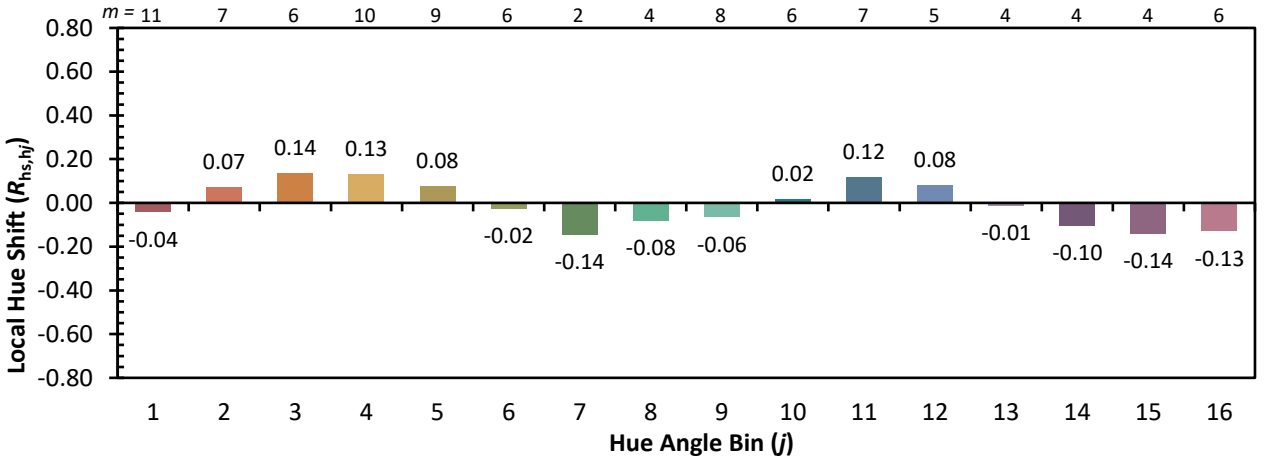


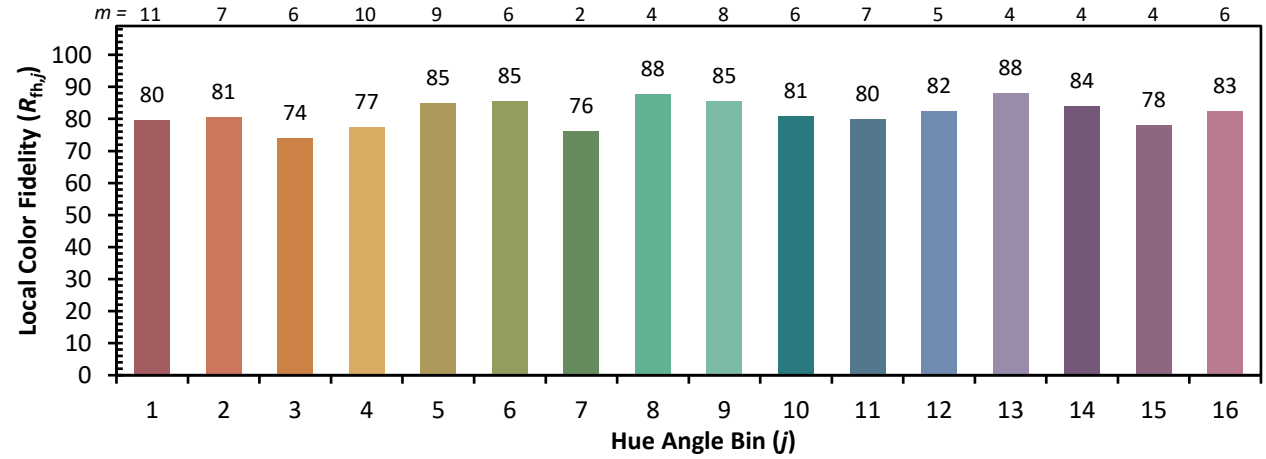
REPORT NUMBER: SP1-2408-195-9

**TM-30-18**

## Color Rendition by Hue-Angle Bin



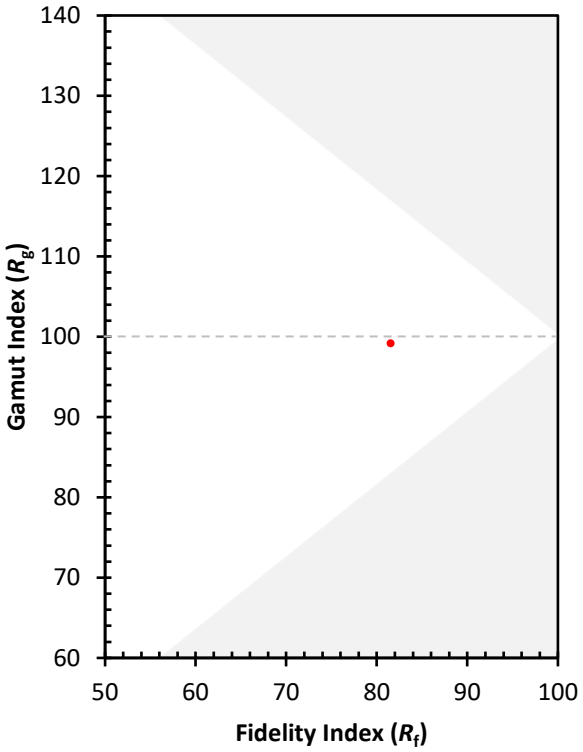



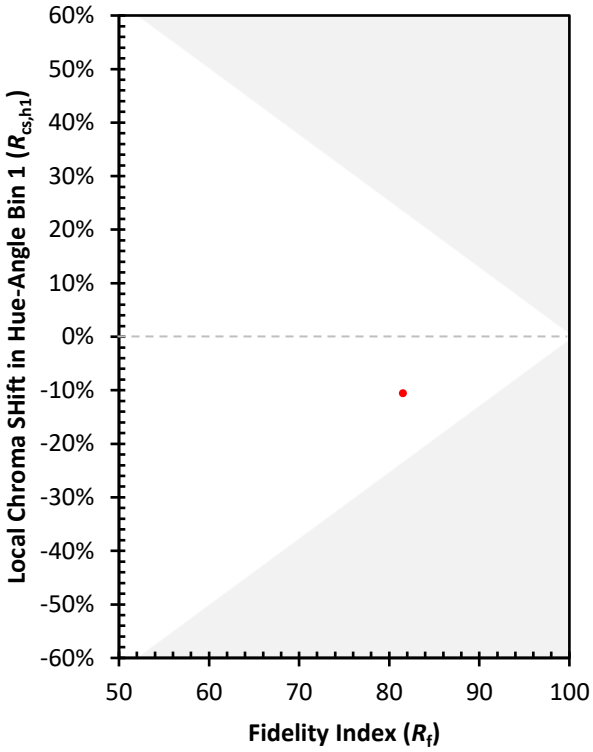



REPORT NUMBER: SP1-2408-195-9

# TM-30-18

## Measure Comparisons




(END OF REPORT)