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

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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: P1203050

Luminaire Tested: GWC-SB2B-750-U-SLR-HSS

Issue Date: 10/30/2025

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1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

**Test Information**

| | |
|---|---|
| Test Method: | LM-79-2024 |
| Report Number: | P1203050 |
| | TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-9) |
| Test Lab: | INNOVATION CENTER |
| Issue Date: | 3/14/2026 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS |
| Product Line: | McGRAW-EDISON |
| Catalog Number: | GWC-SB2B-750-U-SLR-HSS |
| Description: | GALLEON WALL LUMINAIRE |
| | (2) 70 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT ELIMINATOF |
| | RIGHT OPTICS WITH HOUSE SIDE SHIELD |
| Light Source: | - |
| Ballast/Driver: | ELECTRONIC DRIVER |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 9091 lumens |
| Efficiency: | N/A |
| Efficacy: | 123.0 lumens/watt |
| Luminous Opening: | Rectangular (W 1' x L: 0.5' x H: 0') |
| IES Classification: | Type IV - Short |
| BUG Rating: | B1 - U0 - G3 |

| | |
|---|---|
| Input Watts (W): | 73.9 |
| Input Voltage (V): | 120.0 |
| Input Current (Ain): | 0.627 |
| Voltage Rise (V): | NR |
| Power Factor: | 0.988 |
| Total Harmonic Distortion (THDi): | 13.593 |
| Frequency (hertz): | 60 |
| Stabilization Time: | NR |
| Operation Time: | NR |
| Ambient Temperature (°C): | NR |
| Test Distance: | 28.75 FT |

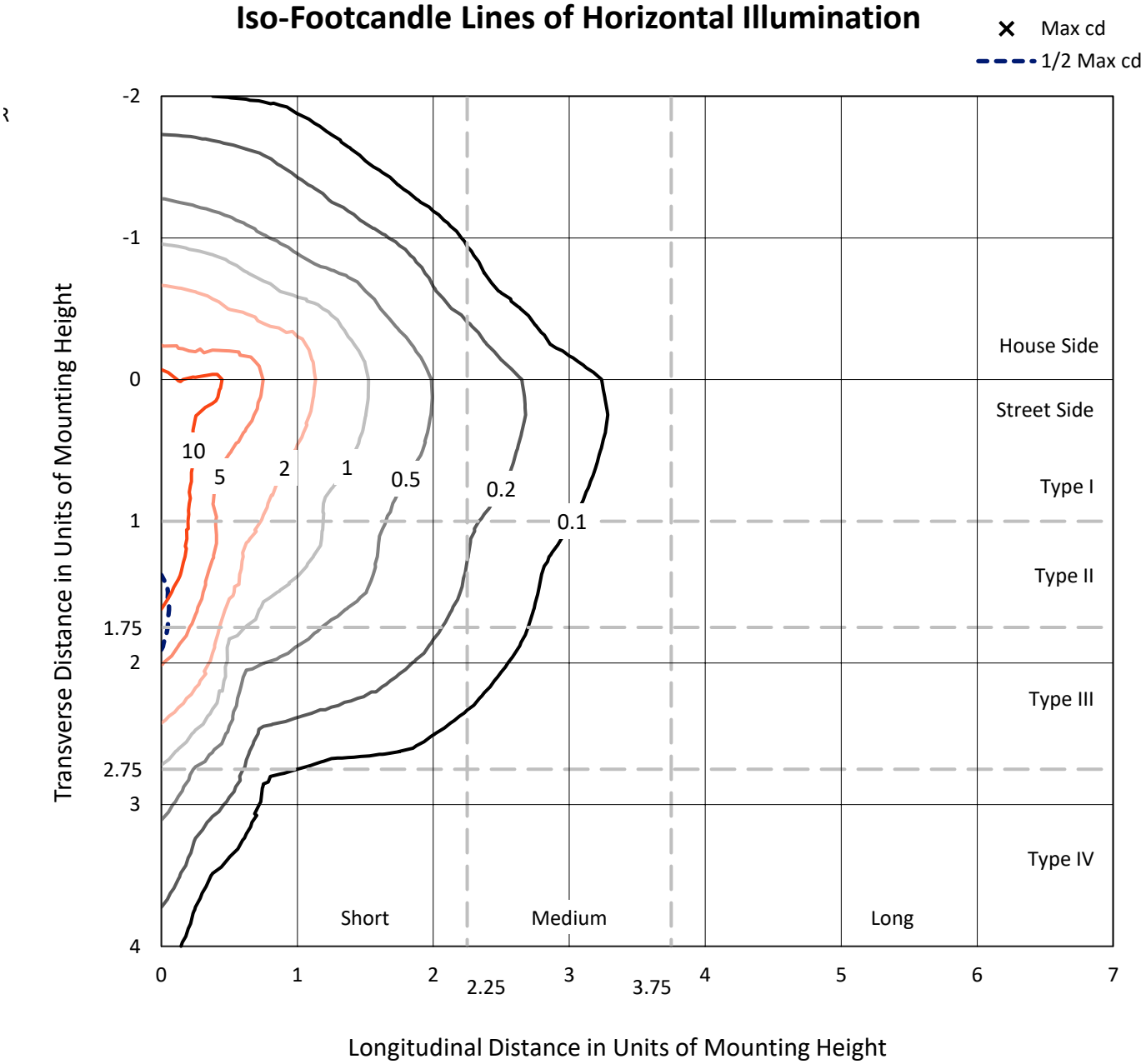


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REPORT NUMBER: P1203050
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## Iso-Footcandle Lines of Horizontal Illumination



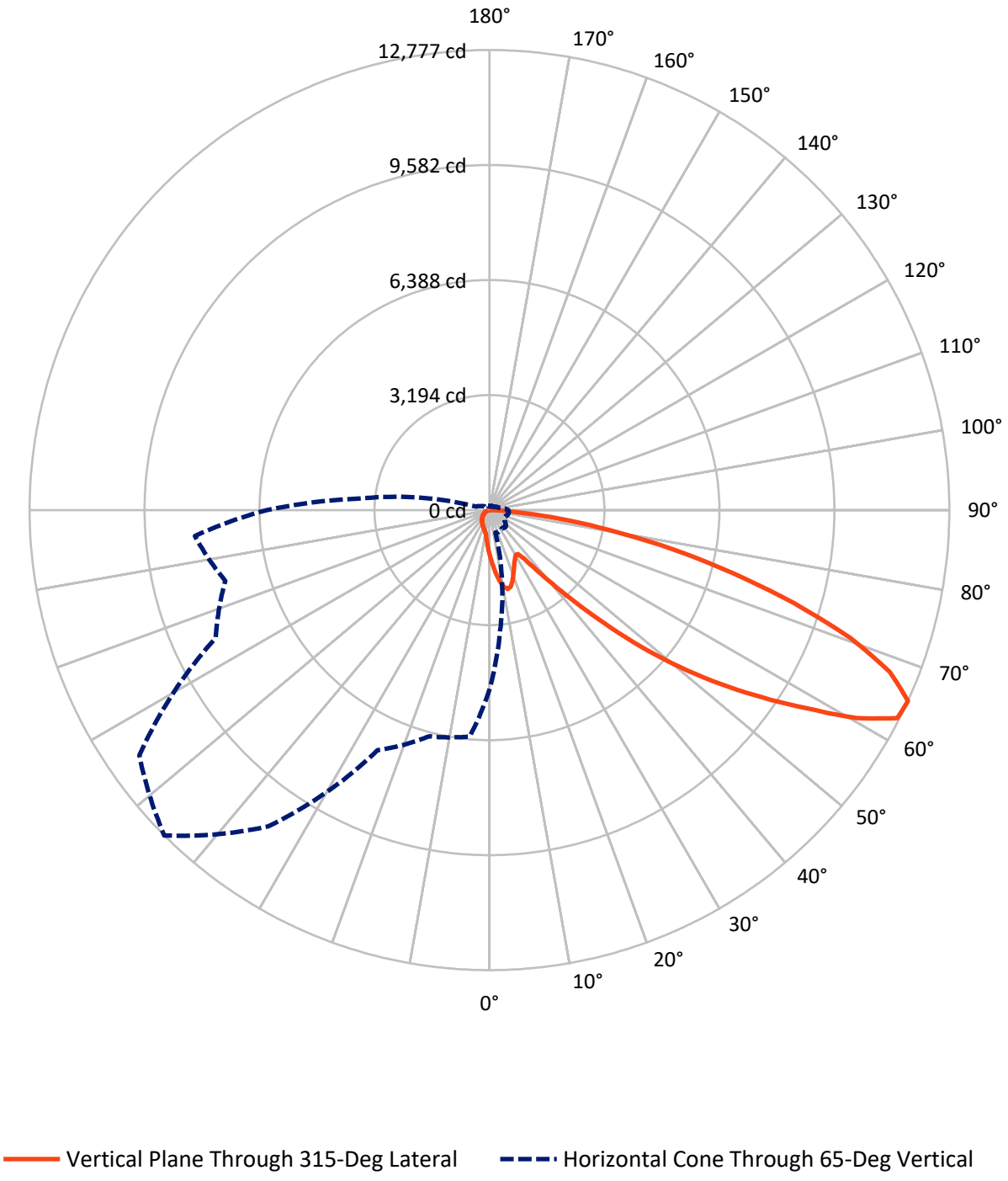

Based on 10 foot mounting height. Maximum calculated value = 22.6 fc
Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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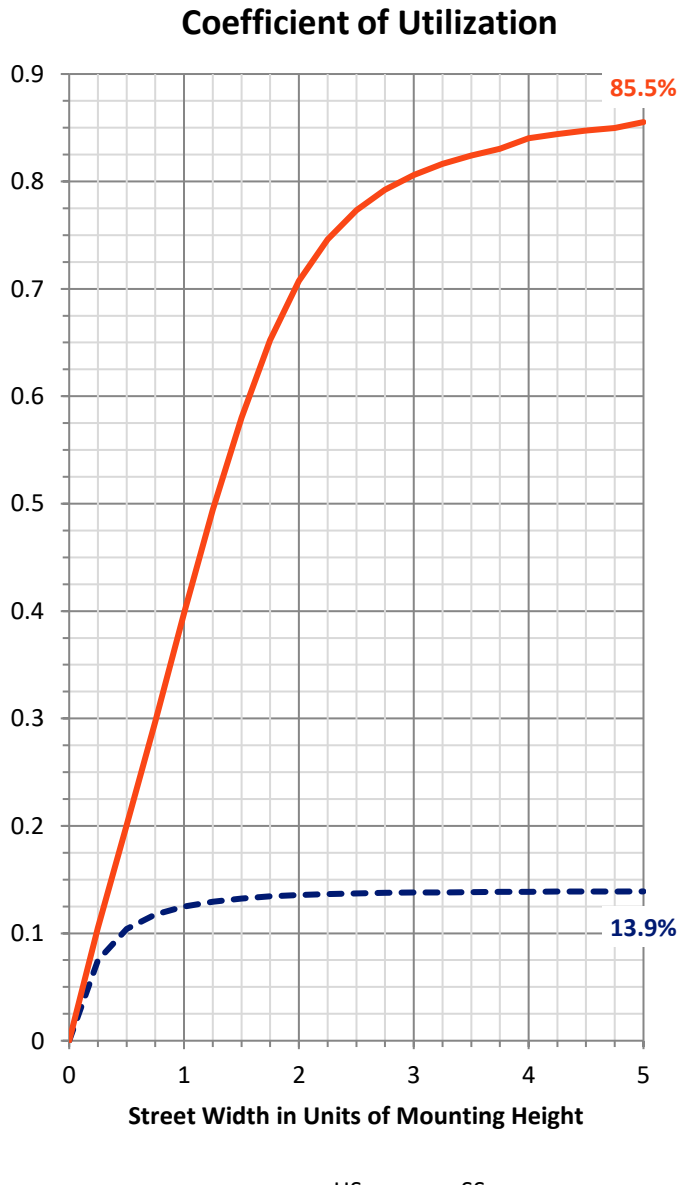
REPORT NUMBER: P1203050
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**FLUX DISTRIBUTION:**

| | | Downward | Upward | Total |
|---|---|---|---|---|
| **House Side** | Lumens | 1273.1 | 0.0 | 1273.1 |
| | % Fixture | 14.0 | 0.0 | 14.0 |
| **Street Side** | Lumens | 7817.9 | 0.0 | 7817.9 |
| | % Fixture | 86.0 | 0.0 | 86.0 |
| **Total** | Lumens | 9091.0 | 0.0 | 9091.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 123.9 | 1.4 |
| 10°-20° | 371.5 | 4.1 |
| 20°-30° | 547.3 | 6.0 |
| 30°-40° | 703.2 | 7.7 |
| 40°-50° | 1137.2 | 12.5 |
| 50°-60° | 1994.2 | 21.9 |
| 60°-70° | 2495.3 | 27.4 |
| 70°-80° | 1458.1 | 16.0 |
| 80°-90° | 260.2 | 2.9 |
| 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° | 9091.0 | 100.0 |
| 0°-180° | 9091.0 | 100.0 |



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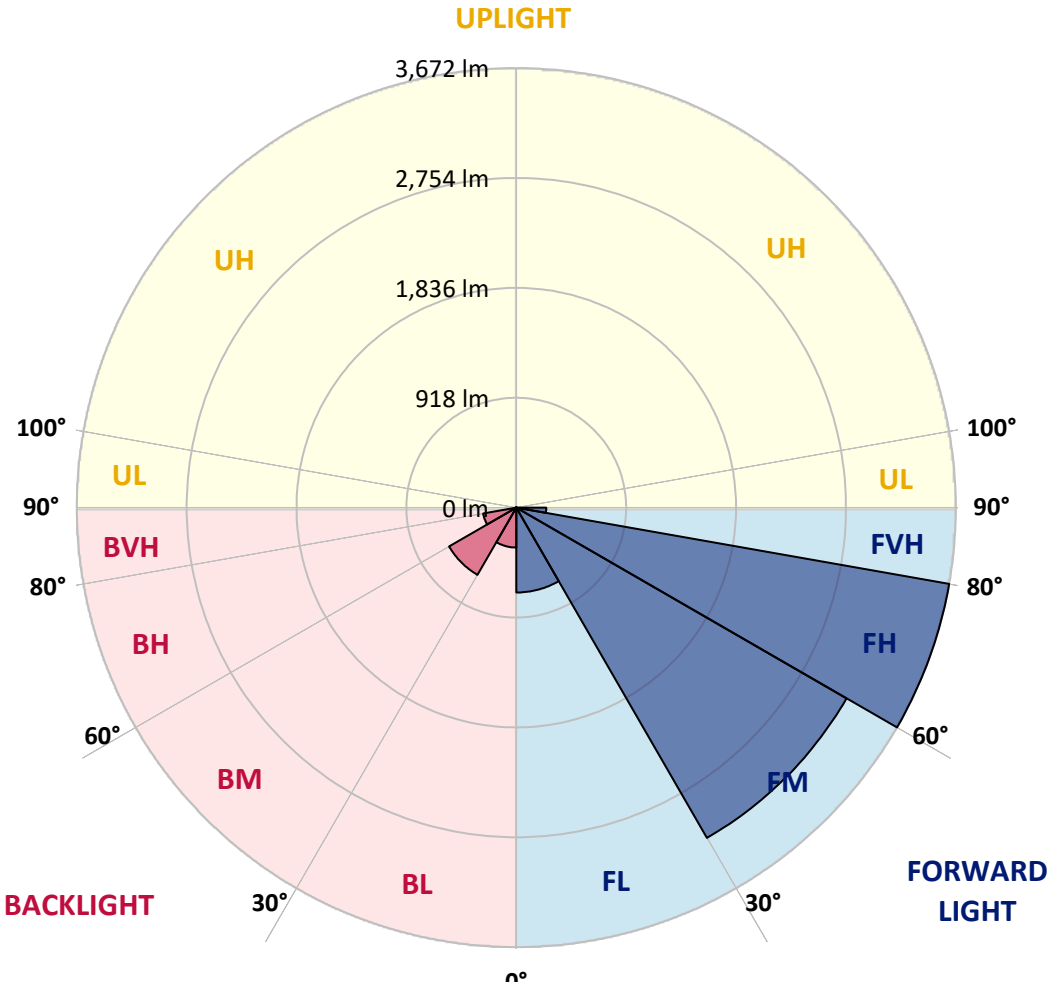
Scaled Data Report

REPORT NUMBER: P1203050
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## LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit B | U | G |
|---|---|---|---|---|---|---|
| FL | (0°-30°) | 709.1 | 7.8 | | | |
| FM | (30°-60°) | 3186.3 | 35.0 | | | |
| FH | (60°-80°) | 3672.4 | 40.4 | | | G2/5000 |
| FVH | (80°-90°) | 250.2 | 2.8 | | | G3/500 |
| BL | (0°-30°) | 333.7 | 3.7 | B1/500 | | |
| BM | (30°-60°) | 648.3 | 7.1 | B1/1000 | | |
| BH | (60°-80°) | 281.1 | 3.1 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 10.0 | 0.1 | | | G0/10 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

**BUG Rating: B1-U0-G3**
Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 1258.8 | 1258.8 | 1258.8 | 1258.8 | 1258.8 | 1258.8 | 1258.8 | 1258.8 | 1258.8 | 1258.8 | 1258.8 |
| 2.5° | 1422.3 | 1397.8 | 1383.4 | 1347.7 | 1312.0 | 1283.2 | 1244.4 | 1218.7 | 1188.0 | 1158.6 | 1132.3 |
| 5° | 1585.1 | 1545.6 | 1498.0 | 1432.9 | 1373.4 | 1312.7 | 1253.8 | 1195.6 | 1134.2 | 1077.8 | 1043.4 |
| 7.5° | 1722.9 | 1665.9 | 1582.0 | 1495.5 | 1419.8 | 1346.5 | 1277.6 | 1200.6 | 1126.0 | 1037.7 | 990.8 |
| 10° | 1828.1 | 1755.4 | 1645.2 | 1531.9 | 1444.8 | 1370.9 | 1303.9 | 1238.8 | 1163.6 | 1057.2 | 998.3 |
| 12.5° | 1892.0 | 1814.3 | 1683.4 | 1550.7 | 1451.1 | 1368.4 | 1316.4 | 1287.6 | 1258.2 | 1152.3 | 1083.5 |
| 15° | 1938.9 | 1855.0 | 1710.4 | 1563.8 | 1436.7 | 1335.2 | 1297.0 | 1325.8 | 1359.6 | 1292.0 | 1212.5 |
| 17.5° | 1987.8 | 1899.5 | 1745.4 | 1569.4 | 1397.8 | 1270.7 | 1254.4 | 1329.0 | 1407.2 | 1404.1 | 1325.2 |
| 20° | 2034.1 | 1946.5 | 1776.1 | 1565.7 | 1335.2 | 1192.4 | 1206.8 | 1302.0 | 1392.8 | 1431.0 | 1388.5 |
| 22.5° | 2087.4 | 1994.7 | 1805.6 | 1551.3 | 1253.8 | 1119.2 | 1164.2 | 1259.4 | 1339.0 | 1384.1 | 1370.9 |
| 25° | 2152.5 | 2055.4 | 1846.9 | 1530.0 | 1166.1 | 1058.4 | 1121.0 | 1210.0 | 1274.5 | 1305.8 | 1305.2 |
| 27.5° | 2222.6 | 2128.1 | 1902.0 | 1518.7 | 1095.4 | 1015.2 | 1072.2 | 1151.1 | 1208.7 | 1230.6 | 1230.6 |
| 30° | 2309.7 | 2212.6 | 1967.1 | 1506.2 | 1049.0 | 990.1 | 1021.5 | 1082.8 | 1139.2 | 1161.1 | 1161.1 |
| 32.5° | 2404.9 | 2306.6 | 2029.8 | 1476.1 | 1020.8 | 971.4 | 972.0 | 1010.8 | 1062.2 | 1088.5 | 1092.2 |
| 35° | 2523.9 | 2419.3 | 2096.8 | 1410.4 | 998.3 | 949.4 | 923.8 | 942.5 | 985.1 | 1016.4 | 1024.6 |
| 37.5° | 2693.6 | 2567.1 | 2178.8 | 1316.4 | 965.1 | 915.6 | 873.0 | 877.4 | 910.0 | 944.4 | 956.9 |
| 40° | 2927.8 | 2765.6 | 2275.3 | 1218.7 | 917.5 | 868.0 | 817.3 | 815.4 | 839.2 | 873.0 | 886.8 |
| 42.5° | 3244.7 | 3028.0 | 2391.1 | 1125.4 | 871.8 | 810.4 | 758.4 | 755.3 | 774.1 | 803.5 | 817.9 |
| 45° | 3663.1 | 3363.7 | 2533.3 | 1045.3 | 836.1 | 754.0 | 702.7 | 701.4 | 717.1 | 742.8 | 757.8 |
| 47.5° | 4198.5 | 3830.3 | 2675.4 | 990.8 | 817.3 | 709.6 | 657.0 | 659.5 | 673.2 | 696.4 | 707.1 |
| 50° | 4891.8 | 4438.4 | 2718.7 | 963.2 | 817.3 | 685.8 | 616.3 | 628.8 | 640.1 | 657.6 | 663.9 |
| 52.5° | 5722.9 | 5022.1 | 2575.9 | 938.2 | 822.3 | 688.9 | 581.8 | 608.7 | 616.9 | 631.9 | 634.4 |
| 55° | 6493.2 | 5308.3 | 2214.5 | 903.7 | 823.6 | 708.3 | 552.4 | 592.5 | 607.5 | 613.1 | 612.5 |
| 57.5° | 6940.4 | 5210.0 | 1790.5 | 845.5 | 818.5 | 721.5 | 533.6 | 572.4 | 601.2 | 605.0 | 599.3 |
| 60° | 6855.2 | 4864.9 | 1318.3 | 801.0 | 781.6 | 716.5 | 527.9 | 541.7 | 587.4 | 593.1 | 585.6 |
| 62.5° | 6198.9 | 4286.2 | 915.0 | 766.6 | 700.2 | 694.5 | 526.1 | 493.5 | 557.4 | 571.2 | 560.5 |
| 65° | *4982.6* | *3374.4* | *646.3* | *660.1* | *613.7* | *646.9* | *516.1* | *443.4* | *521.1* | *539.8* | *523.6* |
| 67.5° | 3614.9 | 2283.4 | 466.6 | 534.8 | 556.1 | 569.9 | 493.5 | 407.1 | 479.7 | 504.8 | 483.5 |
| 70° | 2319.7 | 1233.1 | 327.5 | 353.2 | 468.5 | 484.1 | 454.7 | 374.5 | 437.8 | 466.6 | 443.4 |
| 72.5° | 1649.0 | 728.4 | 235.5 | 247.4 | 376.4 | 403.3 | 400.2 | 338.2 | 388.9 | 424.0 | 396.4 |
| 75° | 1137.9 | 401.4 | 159.1 | 176.6 | 273.1 | 327.5 | 308.8 | 290.6 | 329.4 | 365.1 | 338.2 |
| 77.5° | 713.3 | 179.7 | 95.2 | 122.7 | 179.1 | 257.4 | 211.7 | 224.8 | 256.8 | 290.0 | 261.8 |
| 80° | 397.1 | 69.5 | 53.2 | 81.4 | 97.7 | 187.3 | 117.1 | 144.7 | 189.1 | 212.9 | 190.4 |
| 82.5° | 86.4 | 8.8 | 23.8 | 35.1 | 38.2 | 109.0 | 62.0 | 83.9 | 119.0 | 117.1 | 101.5 |
| 85° | 0.0 | 0.0 | 4.4 | 5.0 | 2.5 | 47.0 | 22.5 | 27.6 | 38.8 | 36.3 | 27.6 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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REPORT NUMBER: P1203050
CATALOG NUMBER: GWC-SB2B-750-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° | 185° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 1258.8 | 1258.8 | 1258.8 | 1258.8 | 1258.8 | 1258.8 | 1258.8 | 1258.8 | 1258.8 | 1258.8 | 1258.8 |
| 2.5° | 1127.3 | 1096.6 | 1074.1 | 1062.8 | 1053.4 | 1062.2 | 1067.2 | 1067.2 | 1088.5 | 1101.0 | 1106.0 |
| 5° | 1021.5 | 966.3 | 924.4 | 896.2 | 879.3 | 884.9 | 891.2 | 898.1 | 925.0 | 943.2 | 955.1 |
| 7.5° | 948.2 | 863.6 | 799.8 | 760.3 | 739.6 | 742.8 | 747.1 | 752.8 | 779.1 | 797.2 | 812.9 |
| 10° | 934.4 | 812.9 | 722.7 | 670.7 | 645.7 | 641.3 | 638.8 | 636.9 | 652.6 | 666.4 | 678.9 |
| 12.5° | 990.8 | 815.4 | 689.5 | 626.3 | 595.6 | 582.4 | 567.4 | 555.5 | 558.0 | 566.8 | 582.4 |
| 15° | 1091.6 | 847.3 | 678.9 | 603.1 | 564.9 | 543.0 | 525.4 | 511.0 | 507.9 | 511.0 | 513.5 |
| 17.5° | 1206.8 | 890.6 | 677.6 | 583.1 | 535.5 | 512.9 | 498.5 | 485.4 | 481.0 | 481.6 | 484.7 |
| 20° | 1283.2 | 925.0 | 673.9 | 560.5 | 507.3 | 487.2 | 474.7 | 461.6 | 457.2 | 458.4 | 459.1 |
| 22.5° | 1290.8 | 943.2 | 668.2 | 535.5 | 479.1 | 462.2 | 449.7 | 437.8 | 437.1 | 437.1 | 440.9 |
| 25° | 1250.0 | 943.2 | 656.3 | 512.9 | 452.2 | 437.1 | 425.9 | 411.5 | 414.0 | 415.2 | 420.2 |
| 27.5° | 1186.8 | 920.6 | 633.8 | 494.8 | 429.0 | 413.3 | 402.1 | 388.9 | 392.0 | 393.9 | 399.6 |
| 30° | 1124.2 | 891.8 | 606.9 | 474.1 | 407.1 | 388.9 | 380.8 | 369.5 | 370.8 | 373.3 | 379.5 |
| 32.5° | 1065.9 | 861.1 | 574.9 | 457.2 | 385.2 | 367.0 | 360.7 | 348.2 | 350.1 | 352.6 | 359.5 |
| 35° | 1008.3 | 827.3 | 537.3 | 437.1 | 365.1 | 347.0 | 341.9 | 327.5 | 328.8 | 332.6 | 340.1 |
| 37.5° | 946.3 | 791.6 | 506.7 | 417.1 | 345.7 | 326.9 | 321.9 | 306.9 | 308.1 | 312.5 | 321.3 |
| 40° | 881.2 | 756.5 | 476.6 | 395.8 | 325.0 | 306.2 | 301.9 | 285.6 | 286.8 | 291.8 | 301.2 |
| 42.5° | 815.4 | 718.3 | 453.4 | 368.2 | 303.7 | 283.7 | 279.3 | 264.3 | 266.2 | 271.8 | 281.2 |
| 45° | 754.7 | 672.6 | 438.4 | 337.6 | 283.7 | 261.2 | 256.8 | 243.0 | 246.8 | 253.0 | 262.4 |
| 47.5° | 702.7 | 625.6 | 432.1 | 311.9 | 262.4 | 238.0 | 234.2 | 223.0 | 229.2 | 236.1 | 243.6 |
| 50° | 658.2 | 580.6 | 424.0 | 285.6 | 242.4 | 217.9 | 214.2 | 206.7 | 214.8 | 221.7 | 228.6 |
| 52.5° | 626.3 | 529.2 | 406.5 | 261.8 | 224.8 | 201.0 | 199.8 | 196.0 | 203.5 | 209.8 | 216.1 |
| 55° | 598.7 | 476.0 | 378.3 | 241.1 | 209.2 | 186.6 | 187.9 | 186.0 | 192.3 | 197.3 | 202.9 |
| 57.5° | 573.7 | 429.6 | 342.6 | 224.8 | 192.3 | 174.1 | 177.9 | 175.4 | 178.5 | 181.6 | 188.5 |
| 60° | 543.6 | 382.7 | 300.0 | 206.7 | 172.2 | 161.6 | 166.0 | 159.1 | 158.4 | 159.7 | 161.6 |
| 62.5° | 499.1 | 319.4 | 255.5 | 184.1 | 154.7 | 147.8 | 149.7 | 136.5 | 126.5 | 126.5 | 128.4 |
| 65° | *437.1* | *256.8* | *214.2* | *159.1* | *134.6* | *129.0* | *127.8* | *109.0* | *95.2* | *93.9* | *99.6* |
| 67.5° | 365.1 | 211.1 | 177.9 | 134.0 | 112.1 | 108.3 | 109.6 | 95.8 | 82.0 | 80.8 | 87.1 |
| 70° | 297.5 | 174.7 | 143.4 | 107.1 | 86.4 | 90.2 | 95.8 | 82.0 | 68.9 | 67.0 | 72.6 |
| 72.5° | 241.7 | 139.0 | 112.1 | 82.0 | 63.9 | 74.5 | 81.4 | 67.0 | 54.5 | 53.2 | 58.2 |
| 75° | 186.6 | 102.1 | 80.2 | 55.7 | 46.3 | 57.6 | 63.9 | 48.8 | 38.8 | 37.0 | 41.3 |
| 77.5° | 124.6 | 63.3 | 45.1 | 35.1 | 27.6 | 39.5 | 42.6 | 25.7 | 22.5 | 21.9 | 25.1 |
| 80° | 75.8 | 29.4 | 19.4 | 16.9 | 9.4 | 14.4 | 16.9 | 10.6 | 11.9 | 12.5 | 15.0 |
| 82.5° | 38.2 | 8.1 | 3.1 | 0.6 | 0.0 | 0.0 | 5.0 | 2.5 | 5.0 | 6.3 | 9.4 |
| 85° | 3.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 3.1 | 5.6 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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**CANDELA DISTRIBUTION (continued):**

| | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° | 285° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 1258.8 | 1258.8 | 1258.8 | 1258.8 | 1258.8 | 1258.8 | 1258.8 | 1258.8 | 1258.8 | 1258.8 | 1258.8 |
| 2.5° | 1141.1 | 1167.4 | 1192.4 | 1232.5 | 1273.8 | 1314.6 | 1355.9 | 1396.0 | 1410.4 | 1421.0 | 1444.8 |
| 5° | 1009.6 | 1059.0 | 1116.6 | 1196.2 | 1281.4 | 1369.0 | 1458.0 | 1539.4 | 1576.3 | 1601.4 | 1657.7 |
| 7.5° | 873.7 | 938.2 | 1020.8 | 1140.4 | 1273.8 | 1413.5 | 1553.2 | 1681.5 | 1741.0 | 1789.3 | 1875.1 |
| 10° | 739.0 | 809.1 | 913.7 | 1050.3 | 1230.6 | 1431.0 | 1623.9 | 1800.5 | 1877.6 | 1938.3 | 2054.8 |
| 12.5° | 620.6 | 686.4 | 796.0 | 946.9 | 1163.0 | 1417.3 | 1664.6 | 1876.9 | 1967.8 | 2036.0 | 2163.8 |
| 15° | 537.3 | 583.7 | 680.8 | 843.6 | 1082.8 | 1372.8 | 1667.1 | 1913.3 | 2012.8 | 2084.2 | 2195.1 |
| 17.5° | 491.0 | 506.7 | 569.9 | 738.4 | 993.9 | 1314.6 | 1644.0 | 1925.8 | 2032.3 | 2098.6 | 2175.7 |
| 20° | 465.9 | 468.5 | 486.0 | 601.9 | 879.9 | 1260.1 | 1622.1 | 1938.3 | 2050.4 | 2106.2 | 2129.3 |
| 22.5° | 445.9 | 445.9 | 450.3 | 492.3 | 732.7 | 1194.9 | 1615.2 | 1960.2 | 2075.5 | 2109.9 | 2062.3 |
| 25° | 427.7 | 427.7 | 429.0 | 440.3 | 580.6 | 1095.4 | 1610.8 | 1994.1 | 2109.9 | 2119.3 | 1988.4 |
| 27.5° | 409.0 | 409.6 | 409.6 | 415.8 | 467.8 | 960.1 | 1592.0 | 2037.9 | 2151.3 | 2131.8 | 1917.7 |
| 30° | 390.2 | 391.4 | 391.4 | 395.8 | 414.0 | 801.6 | 1555.0 | 2090.5 | 2205.1 | 2148.1 | 1847.5 |
| 32.5° | 371.4 | 372.6 | 372.6 | 376.4 | 389.5 | 640.1 | 1508.7 | 2138.7 | 2259.6 | 2155.0 | 1782.4 |
| 35° | 352.0 | 353.8 | 352.6 | 357.6 | 371.4 | 509.2 | 1449.8 | 2187.0 | 2318.5 | 2176.9 | 1750.4 |
| 37.5° | 332.6 | 333.8 | 333.2 | 338.2 | 353.8 | 439.6 | 1381.6 | 2223.3 | 2398.6 | 2225.8 | 1788.6 |
| 40° | 313.1 | 312.5 | 312.5 | 318.1 | 335.1 | 419.6 | 1295.8 | 2280.9 | 2513.9 | 2311.6 | 1955.2 |
| 42.5° | 293.1 | 293.1 | 291.8 | 298.1 | 318.8 | 404.6 | 1213.7 | 2384.2 | 2681.7 | 2448.1 | 2250.8 |
| 45° | 274.9 | 274.3 | 271.8 | 277.4 | 303.1 | 378.3 | 1184.9 | 2577.1 | 2929.7 | 2669.2 | 2608.4 |
| 47.5° | 257.4 | 256.8 | 250.5 | 255.5 | 284.3 | 354.5 | 1292.6 | 2892.8 | 3273.5 | 2994.2 | 2943.5 |
| 50° | 241.7 | 242.4 | 230.5 | 234.9 | 265.5 | 336.3 | 1526.2 | 3302.3 | 3730.1 | 3432.0 | 3261.0 |
| 52.5° | 227.3 | 227.3 | 211.7 | 214.2 | 242.4 | 320.0 | 1748.6 | 3746.4 | 4332.6 | 4042.6 | 3631.1 |
| 55° | 212.9 | 211.7 | 194.1 | 195.4 | 219.2 | 296.9 | 1781.8 | 4179.8 | 5154.2 | 4961.3 | 4137.2 |
| 57.5° | 196.7 | 194.1 | 177.9 | 177.9 | 197.9 | 279.9 | 1544.4 | 4512.9 | 6173.8 | 6311.6 | 4866.8 |
| 60° | 176.6 | 174.7 | 164.1 | 161.0 | 181.0 | 295.0 | 1089.7 | 4551.8 | 6831.4 | 8107.1 | 6264.0 |
| 62.5° | 150.9 | 153.4 | 147.8 | 143.4 | 164.7 | 306.2 | 645.7 | 4239.3 | 6672.3 | 8678.3 | 7937.4 |
| 65° | *119.0* | *129.0* | *127.8* | *124.6* | *181.0* | *258.0* | *381.4* | *3639.3* | *6184.5* | *8217.4* | *7596.1* |
| 67.5° | 101.5 | 108.3 | 106.5 | 106.5 | 189.8 | 196.0 | 239.9 | 2843.3 | 5513.1 | 7670.6 | 6785.1 |
| 70° | 86.4 | 93.3 | 86.4 | 86.4 | 143.4 | 119.0 | 166.0 | 1985.3 | 4788.5 | 7065.6 | 6252.7 |
| 72.5° | 71.4 | 78.3 | 70.8 | 65.8 | 114.6 | 88.9 | 121.5 | 1240.7 | 4100.8 | 6435.6 | 5888.2 |
| 75° | 54.5 | 62.6 | 57.0 | 50.7 | 75.8 | 66.4 | 92.1 | 720.8 | 3397.5 | 5506.2 | 5369.1 |
| 77.5° | 34.4 | 45.1 | 42.6 | 35.7 | 55.7 | 48.2 | 66.4 | 429.0 | 2621.6 | 4302.5 | 4618.2 |
| 80° | 21.3 | 23.2 | 23.8 | 22.5 | 31.9 | 32.6 | 45.1 | 244.2 | 1794.3 | 2998.6 | 3608.0 |
| 82.5° | 13.8 | 13.8 | 10.6 | 11.9 | 15.7 | 18.8 | 25.7 | 92.1 | 1054.6 | 1825.6 | 2511.4 |
| 85° | 10.0 | 8.8 | 5.6 | 5.6 | 7.5 | 9.4 | 10.0 | 28.2 | 427.7 | 720.8 | 982.0 |
| 87.5° | 5.0 | 4.4 | 1.9 | 2.5 | 3.8 | 3.1 | 2.5 | 1.3 | 107.7 | 230.5 | 161.6 |
| 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: P1203050
CATALOG NUMBER: GWC-SB2B-750-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

| | 295° | 305° | 315° | 325° | 335° | 345° | 355° | 360° |
|---|---|---|---|---|---|---|---|---|
| 0° | 1258.8 | 1258.8 | *1258.8* | 1258.8 | 1258.8 | 1258.8 | 1258.8 | 1258.8 |
| 2.5° | 1457.3 | 1476.8 | *1478.0* | 1478.0 | 1461.1 | 1460.5 | 1426.0 | 1422.3 |
| 5° | 1716.0 | 1728.5 | *1731.7* | 1725.4 | 1691.6 | 1666.5 | 1599.5 | 1585.1 |
| 7.5° | 1952.7 | 1977.8 | *1977.8* | 1962.7 | 1907.6 | 1856.3 | 1759.2 | 1722.9 |
| 10° | 2141.9 | 2170.7 | *2164.4* | 2133.7 | 2064.2 | 1993.4 | 1875.7 | 1828.1 |
| 12.5° | 2233.9 | 2263.4 | *2247.1* | 2212.0 | 2144.4 | 2069.8 | 1945.8 | 1892.0 |
| 15° | 2232.0 | 2223.9 | *2207.0* | 2202.6 | 2170.0 | 2113.7 | 1997.8 | 1938.9 |
| 17.5° | 2152.5 | 2083.6 | *2070.5* | 2114.3 | 2155.6 | 2141.9 | 2042.9 | 1987.8 |
| 20° | 2026.6 | 1906.4 | *1894.5* | 1978.4 | 2096.1 | 2156.3 | 2084.9 | 2034.1 |
| 22.5° | 1893.9 | 1764.2 | *1736.7* | 1829.3 | 2006.6 | 2160.6 | 2138.1 | 2087.4 |
| 25° | 1768.0 | 1637.7 | *1610.2* | 1696.6 | 1907.0 | 2153.1 | 2195.7 | 2152.5 |
| 27.5° | 1662.8 | 1536.9 | *1511.2* | 1597.6 | 1811.2 | 2131.8 | 2253.3 | 2222.6 |
| 30° | 1581.3 | 1464.9 | *1446.1* | 1529.4 | 1728.5 | 2105.5 | 2326.6 | 2309.7 |
| 32.5° | 1533.7 | 1448.6 | *1455.5* | 1523.7 | 1684.1 | 2076.7 | 2396.8 | 2404.9 |
| 35° | 1580.7 | 1584.5 | *1644.6* | 1672.8 | 1725.4 | 2072.3 | 2491.9 | 2523.9 |
| 37.5° | 1814.3 | 1944.6 | *2069.2* | 2046.0 | 1927.7 | 2123.1 | 2634.1 | 2693.6 |
| 40° | 2212.0 | 2479.4 | *2681.7* | 2593.4 | 2295.3 | 2278.4 | 2838.9 | 2927.8 |
| 42.5° | 2698.0 | 3151.4 | *3484.6* | 3247.9 | 2769.4 | 2550.2 | 3131.4 | 3244.7 |
| 45° | 3210.9 | 3980.0 | *4504.8* | 4012.5 | 3274.8 | 2931.0 | 3574.2 | 3663.1 |
| 47.5° | 3751.4 | 4987.0 | *5665.9* | 4860.5 | 3743.2 | 3364.3 | 4177.9 | 4198.5 |
| 50° | 4342.6 | 6091.1 | *6849.6* | 5707.9 | 4195.4 | 3861.0 | 4915.6 | 4891.8 |
| 52.5° | 4905.6 | 7226.6 | *8008.2* | 6559.0 | 4592.5 | 4477.2 | 5771.7 | 5722.9 |
| 55° | 5443.0 | 8361.4 | *9173.7* | 7376.9 | 4967.0 | 5291.4 | 6788.8 | 6493.2 |
| 57.5° | 6066.1 | 9381.6 | *10374.9* | 8198.6 | 5490.6 | 6348.5 | 7926.1 | 6940.4 |
| 60° | 6987.3 | 10540.8 | *11733.3* | 9324.6 | 6486.3 | 7459.6 | 8333.8 | 6855.2 |
| 62.5° | 8163.5 | 11606.8 | *12720.9* | 10428.1 | 7486.5 | 7668.7 | 7733.2 | 6198.9 |
| 65° | *8392.1* | *11876.7* | *12776.6* | *10723.1* | *7357.5* | *6505.1* | *6313.5* | *4982.6* |
| 67.5° | 7785.8 | 11388.8 | *11997.5* | 10173.8 | 6508.2 | 5027.1 | 4737.8 | 3614.9 |
| 70° | 7105.7 | 10458.8 | *10639.8* | 9240.1 | 5724.2 | 3697.5 | 3199.6 | 2319.7 |
| 72.5° | 6408.7 | 9218.1 | *8843.6* | 8024.5 | 5030.9 | 2692.4 | 2307.8 | 1649.0 |
| 75° | 5580.7 | 7586.7 | *6966.1* | 6667.3 | 4165.4 | 2113.1 | 1669.6 | 1137.9 |
| 77.5° | 4469.1 | 5340.2 | *5174.3* | 5168.0 | 3130.1 | 1543.8 | 1114.1 | 713.3 |
| 80° | 3152.7 | 3465.8 | *3381.3* | 3892.3 | 2099.9 | 1119.8 | 670.7 | 397.1 |
| 82.5° | 1526.2 | 1916.4 | *1967.1* | 2317.8 | 1021.5 | 658.8 | 154.7 | 86.4 |
| 85° | 597.5 | 924.4 | *779.7* | 879.9 | 286.8 | 183.5 | 3.8 | 0.0 |
| 87.5° | 67.0 | 107.1 | *98.3* | 77.7 | 35.1 | 7.5 | 0.0 | 0.0 |
| 90° | 0.0 | 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-79-2008: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

McGRAW-EDISON

Report Number: SP1-1908-441-4-R4

Test Date: 10/02/2019

Luminaire Tested: SA1C-750-U-5WQ

Data in this report applies to products using SA and SB light squares

Report Generated By FNC07603 / LDUCLS01DT446
Version: v6.13

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

## Test Information

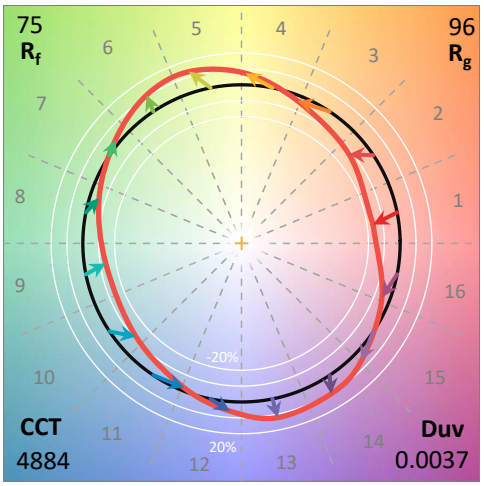
| | |
|---|---|
| Test Method: | LM-79-2008 |
| Report Number: | SP1-1908-441-4-R4 |
| Test Lab: | COOPER LIGHTING SOLUTIONS |
| Photometer: | SP1 - 76IN SPHERE |
| Measurement Geometry: | 4π |
| Issue Date: | 10/28/2024 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS |
| Product Line: | McGRAW-EDISON |
| Catalog Number: | **SA1C-750-U-5WQ** |
| Description: | McGRAW EDISON ROADWAY AND AREA LUMINAIRE |

***THIS IS A REVISION OF SP1-1908-441-4-R3. TO UPDATE THE CATALOG INFORMATION.***TESTED IN SITU. ROADWAY AND AREA LUMINAIRE. (1) 70 CRI, 5000K, 1050MA LIGHTSQUARE WITH 16 LEDS AND TYPE V WIDE OPTICS.

## Spectral Parameters

| | | | | | |
|---|---|---|---|---|---|
| CCT (K): | 4884 | CRI (Ra): | 73.5 | | |
| CIE u': | 0.2101 | R1: | 70.5 | R9: | -28.4 |
| CIE v': | 0.4904 | R2: | 77.7 | R10: | 48.6 |
| Duv: | 0.0037 | R3: | 84.6 | R11: | 73.2 |
| CIE x: | 0.3493 | R4: | 74.7 | R12: | 50.7 |
| CIE y: | 0.3624 | R5: | 71.9 | R13: | 71.2 |
| CIE z: | 0.2884 | R6: | 70.7 | R14: | 91.4 |
| Peak Wavelength (nm): | 444 | R7: | 81.2 | | |
| Dominant Wavelength (nm): | 571 | R8: | 56.9 | | |
| Purity: | 13.7 | | | | |

| | |
|---|---|
| Rf: | 74.9 |
| Rg: | 96.3 |




## Test Conditions

| | |
|---|---|
| Stabilization Time: | 240M |
| Operation Time: | 12H |
| Room Temperature (°C) / RH%: | 25.0./44% |
| Sphere Temperature (°C): | 25.7 |

Cooper Lighting Solutions Photometric Lab
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Peachtree City, GA 30269

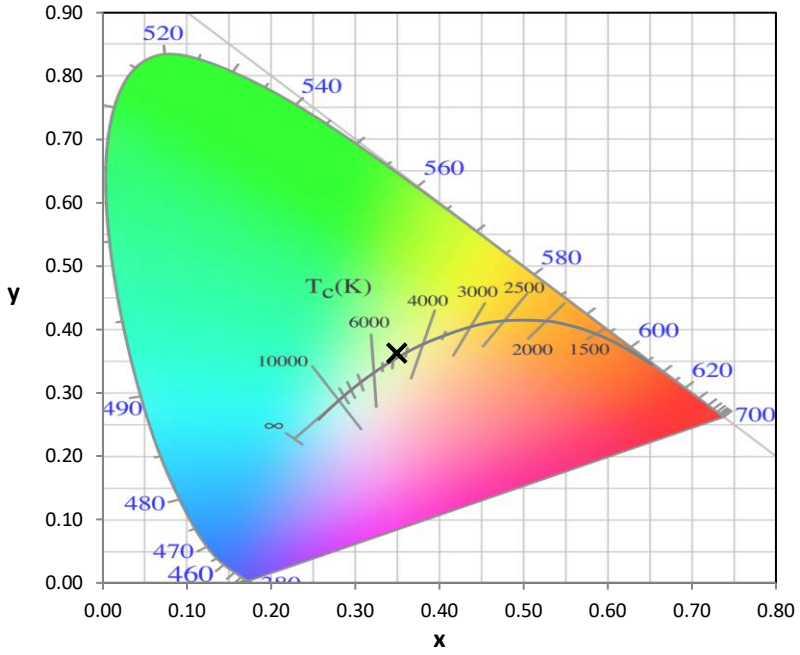
REPORT NUMBER: SP1-1908-441-4-R4

| Measurement and Test Equipment | | | |
|---|---|---|---|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | IN0058 | 6/28/2019 | 12/28/2019 |
| Power Meter | IN0071 | 12/5/2018 | 12/5/2019 |
| AC Power Source | IN0063 | 12/5/2018 | 12/5/2019 |
| DC Power Source | IN0208 | 12/5/2018 | 12/5/2019 |
| Sphere Thermometer | IN0085 | 12/5/2018 | 12/5/2019 |
| Room Thermometer | IN0046 | 12/5/2018 | 12/5/2019 |

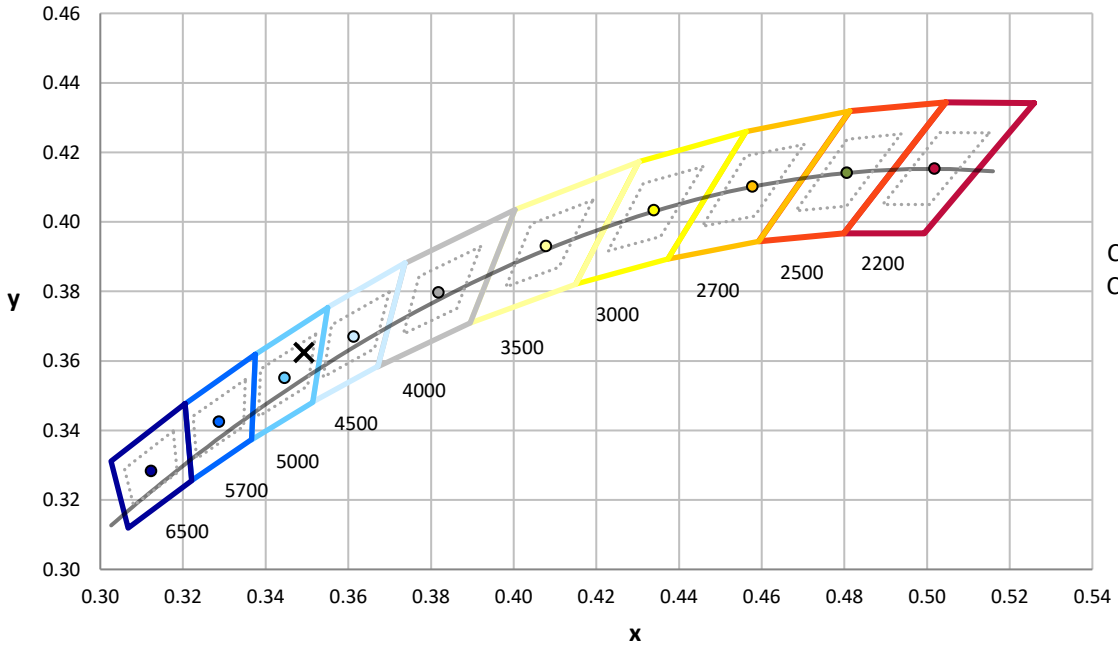
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

REPORT NUMBER: SP1-1908-441-4-R4

## CIE 1931 Chromaticity Diagram




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



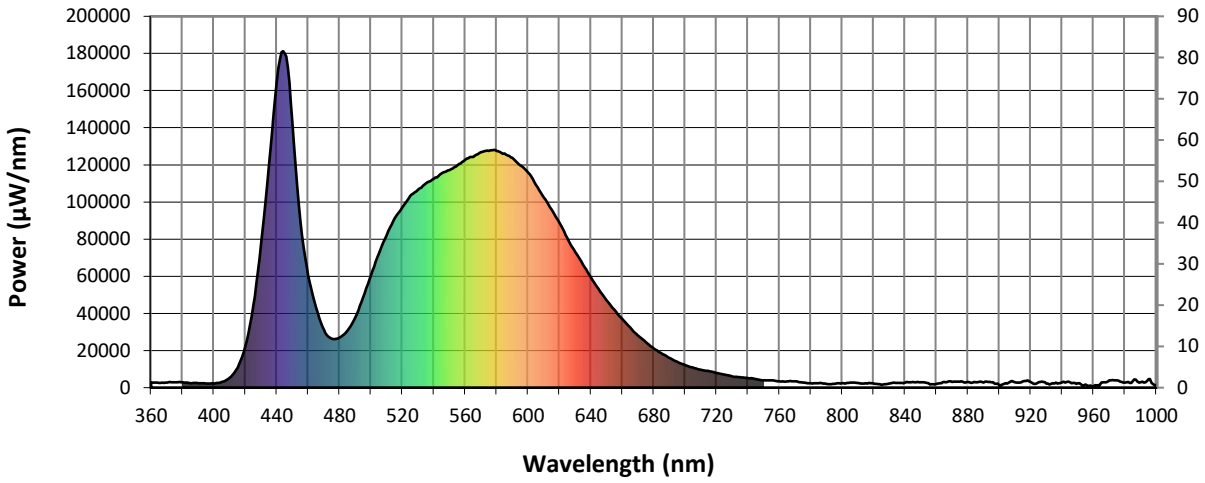

CCT = 4884K
CIE x = 0.3493
CIE y = 0.3624
Duv = 0.0037

Point lies inside the ANSI 5000K 4-step quadrangle

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

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## Photopic Flux vs. Wavelength



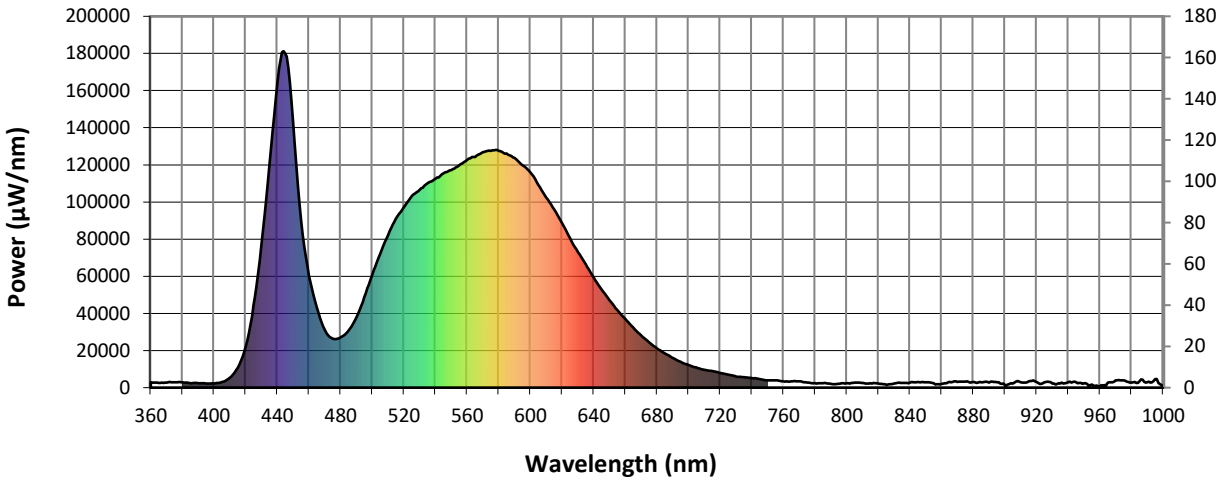

######

| λ (nm) | Power (µW/nm) | Lumens (ϕ/nm) | λ (nm) | Power (µW/nm) | Lumens (ϕ/nm) | λ (nm) | Power (µW/nm) | Lumens (ϕ/nm) | λ (nm) | Power (µW/nm) | Lumens (ϕ/nm) | λ (nm) | Power (µW/nm) | Lumens (ϕ/nm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 360 | 2945 | NR | 490 | 37941 | NR | 620 | 88803 | NR | 750 | 3908 | NR | 880 | 2997 | NR |
| 365 | 2596 | NR | 495 | 48525 | NR | 625 | 80578 | NR | 755 | 3988 | NR | 885 | 2927 | NR |
| 370 | 2732 | NR | 500 | 60609 | NR | 630 | 73127 | NR | 760 | 3335 | NR | 890 | 2649 | NR |
| 375 | 2894 | NR | 505 | 72036 | NR | 635 | 66244 | NR | 765 | 3438 | NR | 895 | 2828 | NR |
| 380 | 2822 | NR | 510 | 82168 | NR | 640 | 59440 | NR | 770 | 3427 | NR | 900 | 1407 | NR |
| 385 | 2394 | NR | 515 | 90898 | NR | 645 | 52864 | NR | 775 | 2759 | NR | 905 | 2224 | NR |
| 390 | 2370 | NR | 520 | 97142 | NR | 650 | 47085 | NR | 780 | 2340 | NR | 910 | 2905 | NR |
| 395 | 2267 | NR | 525 | 103255 | NR | 655 | 41789 | NR | 785 | 2412 | NR | 915 | 3350 | NR |
| 400 | 2262 | NR | 530 | 106697 | NR | 660 | 37064 | NR | 790 | 1999 | NR | 920 | 3114 | NR |
| 405 | 3000 | NR | 535 | 110081 | NR | 665 | 32299 | NR | 795 | 2054 | NR | 925 | 2834 | NR |
| 410 | 5324 | NR | 540 | 112494 | NR | 670 | 28142 | NR | 800 | 2331 | NR | 930 | 2271 | NR |
| 415 | 10725 | NR | 545 | 115513 | NR | 675 | 24505 | NR | 805 | 2648 | NR | 935 | 2228 | NR |
| 420 | 22128 | NR | 550 | 117203 | NR | 680 | 21162 | NR | 810 | 2485 | NR | 940 | 2833 | NR |
| 425 | 44095 | NR | 555 | 119753 | NR | 685 | 18400 | NR | 815 | 2409 | NR | 945 | 2941 | NR |
| 430 | 77002 | NR | 560 | 122602 | NR | 690 | 16065 | NR | 820 | 2221 | NR | 950 | 2323 | NR |
| 435 | 119881 | NR | 565 | 124314 | NR | 695 | 13860 | NR | 825 | 1562 | NR | 955 | 1667 | NR |
| 440 | 164454 | NR | 570 | 126775 | NR | 700 | 12177 | NR | 830 | 2249 | NR | 960 | 749 | NR |
| 445 | 179997 | NR | 575 | 127511 | NR | 705 | 10757 | NR | 835 | 2573 | NR | 965 | 2669 | NR |
| 450 | 142822 | NR | 580 | 127577 | NR | 710 | 9601 | NR | 840 | 2764 | NR | 970 | 3968 | NR |
| 455 | 90008 | NR | 585 | 126153 | NR | 715 | 8944 | NR | 845 | 3109 | NR | 975 | 3886 | NR |
| 460 | 60557 | NR | 590 | 123678 | NR | 720 | 7947 | NR | 850 | 2963 | NR | 980 | 2788 | NR |
| 465 | 43305 | NR | 595 | 119774 | NR | 725 | 7062 | NR | 855 | 2336 | NR | 985 | 3496 | NR |
| 470 | 31089 | NR | 600 | 115733 | NR | 730 | 6004 | NR | 860 | 2118 | NR | 990 | 2913 | NR |
| 475 | 26278 | NR | 605 | 109231 | NR | 735 | 5594 | NR | 865 | 3144 | NR | 995 | 4659 | NR |
| 480 | 27060 | NR | 610 | 102408 | NR | 740 | 5165 | NR | 870 | 3069 | NR | 1000 | 1308 | NR |
| 485 | 30698 | NR | 615 | 96015 | NR | 745 | 4687 | NR | 875 | 3311 | NR | | | |

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

REPORT NUMBER: SP1-1908-441-4-R4

## Scotopic Flux vs. Wavelength



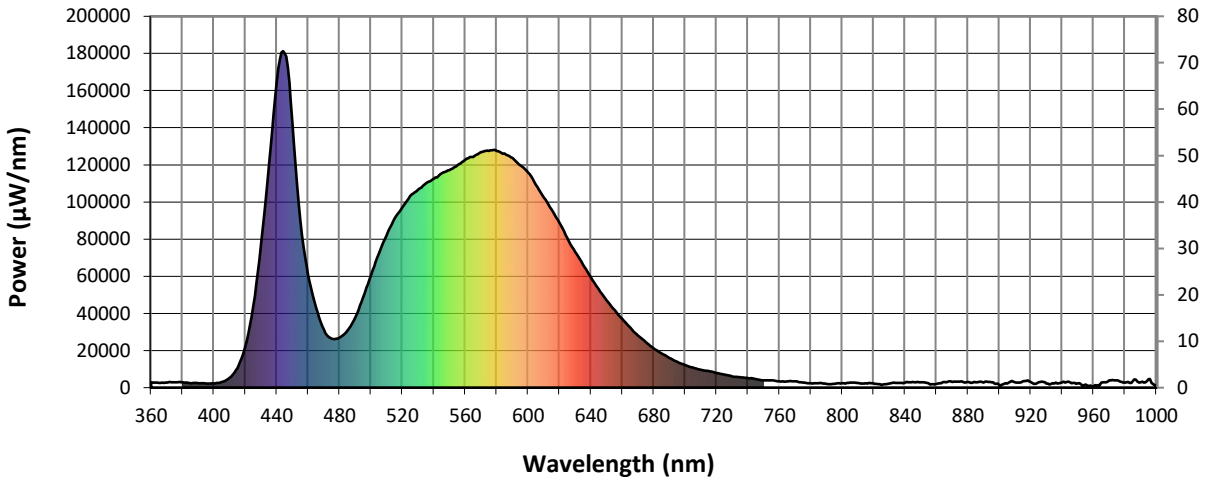

**Scotopic Lumens: 13493.5** **S/P: 1.77**

| λ (nm) | Power (µW/nm) | Lumens (ϕ/nm) | λ (nm) | Power (µW/nm) | Lumens (ϕ/nm) | λ (nm) | Power (µW/nm) | Lumens (ϕ/nm) | λ (nm) | Power (µW/nm) | Lumens (ϕ/nm) | λ (nm) | Power (µW/nm) | Lumens (ϕ/nm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 360 | 2945 | NR | 490 | 37941 | NR | 620 | 88803 | NR | 750 | 3908 | NR | 880 | 2997 | NR |
| 365 | 2596 | NR | 495 | 48525 | NR | 625 | 80578 | NR | 755 | 3988 | NR | 885 | 2927 | NR |
| 370 | 2732 | NR | 500 | 60609 | NR | 630 | 73127 | NR | 760 | 3335 | NR | 890 | 2649 | NR |
| 375 | 2894 | NR | 505 | 72036 | NR | 635 | 66244 | NR | 765 | 3438 | NR | 895 | 2828 | NR |
| 380 | 2822 | NR | 510 | 82168 | NR | 640 | 59440 | NR | 770 | 3427 | NR | 900 | 1407 | NR |
| 385 | 2394 | NR | 515 | 90898 | NR | 645 | 52864 | NR | 775 | 2759 | NR | 905 | 2224 | NR |
| 390 | 2370 | NR | 520 | 97142 | NR | 650 | 47085 | NR | 780 | 2340 | NR | 910 | 2905 | NR |
| 395 | 2267 | NR | 525 | 103255 | NR | 655 | 41789 | NR | 785 | 2412 | NR | 915 | 3350 | NR |
| 400 | 2262 | NR | 530 | 106697 | NR | 660 | 37064 | NR | 790 | 1999 | NR | 920 | 3114 | NR |
| 405 | 3000 | NR | 535 | 110081 | NR | 665 | 32299 | NR | 795 | 2054 | NR | 925 | 2834 | NR |
| 410 | 5324 | NR | 540 | 112494 | NR | 670 | 28142 | NR | 800 | 2331 | NR | 930 | 2271 | NR |
| 415 | 10725 | NR | 545 | 115513 | NR | 675 | 24505 | NR | 805 | 2648 | NR | 935 | 2228 | NR |
| 420 | 22128 | NR | 550 | 117203 | NR | 680 | 21162 | NR | 810 | 2485 | NR | 940 | 2833 | NR |
| 425 | 44095 | NR | 555 | 119753 | NR | 685 | 18400 | NR | 815 | 2409 | NR | 945 | 2941 | NR |
| 430 | 77002 | NR | 560 | 122602 | NR | 690 | 16065 | NR | 820 | 2221 | NR | 950 | 2323 | NR |
| 435 | 119881 | NR | 565 | 124314 | NR | 695 | 13860 | NR | 825 | 1562 | NR | 955 | 1667 | NR |
| 440 | 164454 | NR | 570 | 126775 | NR | 700 | 12177 | NR | 830 | 2249 | NR | 960 | 749 | NR |
| 445 | 179997 | NR | 575 | 127511 | NR | 705 | 10757 | NR | 835 | 2573 | NR | 965 | 2669 | NR |
| 450 | 142822 | NR | 580 | 127577 | NR | 710 | 9601 | NR | 840 | 2764 | NR | 970 | 3968 | NR |
| 455 | 90008 | NR | 585 | 126153 | NR | 715 | 8944 | NR | 845 | 3109 | NR | 975 | 3886 | NR |
| 460 | 60557 | NR | 590 | 123678 | NR | 720 | 7947 | NR | 850 | 2963 | NR | 980 | 2788 | NR |
| 465 | 43305 | NR | 595 | 119774 | NR | 725 | 7062 | NR | 855 | 2336 | NR | 985 | 3496 | NR |
| 470 | 31089 | NR | 600 | 115733 | NR | 730 | 6004 | NR | 860 | 2118 | NR | 990 | 2913 | NR |
| 475 | 26278 | NR | 605 | 109231 | NR | 735 | 5594 | NR | 865 | 3144 | NR | 995 | 4659 | NR |
| 480 | 27060 | NR | 610 | 102408 | NR | 740 | 5165 | NR | 870 | 3069 | NR | 1000 | 1308 | NR |
| 485 | 30698 | NR | 615 | 96015 | NR | 745 | 4687 | NR | 875 | 3311 | NR | | | |

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

REPORT NUMBER: SP1-1908-441-4-R4

## Melanopic Flux vs. Wavelength




**Melanopic Lumens: 5378.9** **M/P: 0.71**

| λ (nm) | Power (µW/nm) | Lumens (ϕ/nm) | λ (nm) | Power (µW/nm) | Lumens (ϕ/nm) | λ (nm) | Power (µW/nm) | Lumens (ϕ/nm) | λ (nm) | Power (µW/nm) | Lumens (ϕ/nm) | λ (nm) | Power (µW/nm) | Lumens (ϕ/nm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 360 | 2945 | NR | 490 | 37941 | NR | 620 | 88803 | NR | 750 | 3908 | NR | 880 | 2997 | NR |
| 365 | 2596 | NR | 495 | 48525 | NR | 625 | 80578 | NR | 755 | 3988 | NR | 885 | 2927 | NR |
| 370 | 2732 | NR | 500 | 60609 | NR | 630 | 73127 | NR | 760 | 3335 | NR | 890 | 2649 | NR |
| 375 | 2894 | NR | 505 | 72036 | NR | 635 | 66244 | NR | 765 | 3438 | NR | 895 | 2828 | NR |
| 380 | 2822 | NR | 510 | 82168 | NR | 640 | 59440 | NR | 770 | 3427 | NR | 900 | 1407 | NR |
| 385 | 2394 | NR | 515 | 90898 | NR | 645 | 52864 | NR | 775 | 2759 | NR | 905 | 2224 | NR |
| 390 | 2370 | NR | 520 | 97142 | NR | 650 | 47085 | NR | 780 | 2340 | NR | 910 | 2905 | NR |
| 395 | 2267 | NR | 525 | 103255 | NR | 655 | 41789 | NR | 785 | 2412 | NR | 915 | 3350 | NR |
| 400 | 2262 | NR | 530 | 106697 | NR | 660 | 37064 | NR | 790 | 1999 | NR | 920 | 3114 | NR |
| 405 | 3000 | NR | 535 | 110081 | NR | 665 | 32299 | NR | 795 | 2054 | NR | 925 | 2834 | NR |
| 410 | 5324 | NR | 540 | 112494 | NR | 670 | 28142 | NR | 800 | 2331 | NR | 930 | 2271 | NR |
| 415 | 10725 | NR | 545 | 115513 | NR | 675 | 24505 | NR | 805 | 2648 | NR | 935 | 2228 | NR |
| 420 | 22128 | NR | 550 | 117203 | NR | 680 | 21162 | NR | 810 | 2485 | NR | 940 | 2833 | NR |
| 425 | 44095 | NR | 555 | 119753 | NR | 685 | 18400 | NR | 815 | 2409 | NR | 945 | 2941 | NR |
| 430 | 77002 | NR | 560 | 122602 | NR | 690 | 16065 | NR | 820 | 2221 | NR | 950 | 2323 | NR |
| 435 | 119881 | NR | 565 | 124314 | NR | 695 | 13860 | NR | 825 | 1562 | NR | 955 | 1667 | NR |
| 440 | 164454 | NR | 570 | 126775 | NR | 700 | 12177 | NR | 830 | 2249 | NR | 960 | 749 | NR |
| 445 | 179997 | NR | 575 | 127511 | NR | 705 | 10757 | NR | 835 | 2573 | NR | 965 | 2669 | NR |
| 450 | 142822 | NR | 580 | 127577 | NR | 710 | 9601 | NR | 840 | 2764 | NR | 970 | 3968 | NR |
| 455 | 90008 | NR | 585 | 126153 | NR | 715 | 8944 | NR | 845 | 3109 | NR | 975 | 3886 | NR |
| 460 | 60557 | NR | 590 | 123678 | NR | 720 | 7947 | NR | 850 | 2963 | NR | 980 | 2788 | NR |
| 465 | 43305 | NR | 595 | 119774 | NR | 725 | 7062 | NR | 855 | 2336 | NR | 985 | 3496 | NR |
| 470 | 31089 | NR | 600 | 115733 | NR | 730 | 6004 | NR | 860 | 2118 | NR | 990 | 2913 | NR |
| 475 | 26278 | NR | 605 | 109231 | NR | 735 | 5594 | NR | 865 | 3144 | NR | 995 | 4659 | NR |
| 480 | 27060 | NR | 610 | 102408 | NR | 740 | 5165 | NR | 870 | 3069 | NR | 1000 | 1308 | NR |
| 485 | 30698 | NR | 615 | 96015 | NR | 745 | 4687 | NR | 875 | 3311 | NR | | | |

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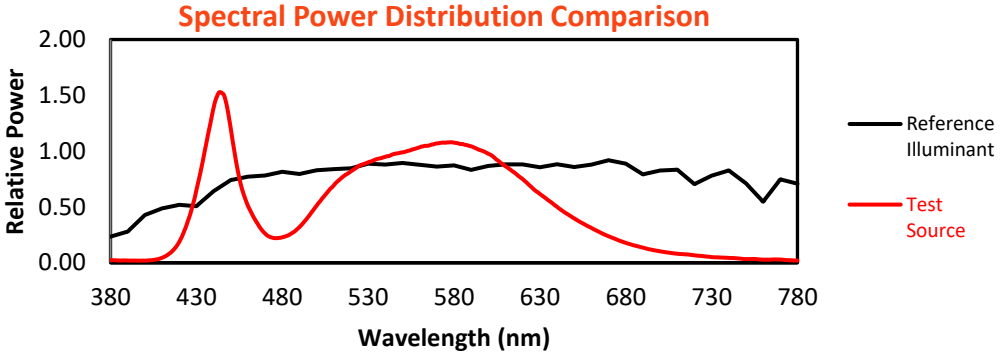
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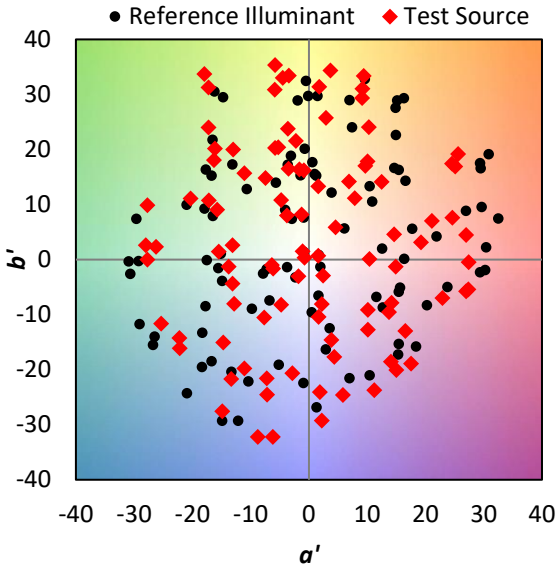
## Summary

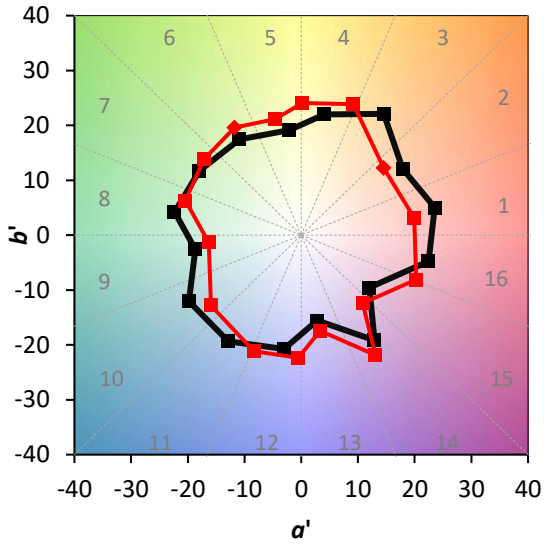
$R_f$ = 74.9
$R_g$ = 96.3
CIE $R_a$ = 73.5
$R_9$ = -28.4

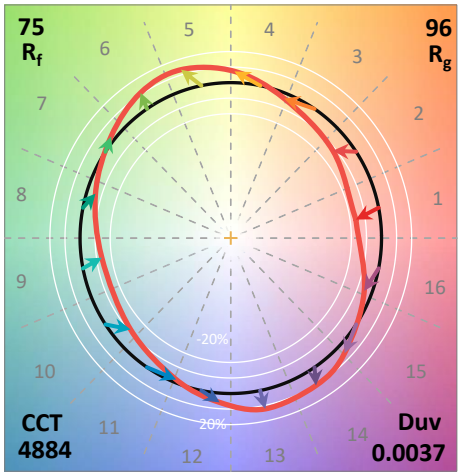
## Spectral Power Distribution Comparison

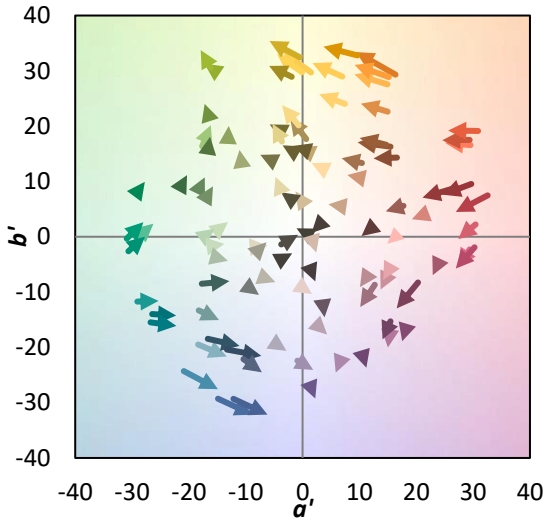



## Color Vector Graphics



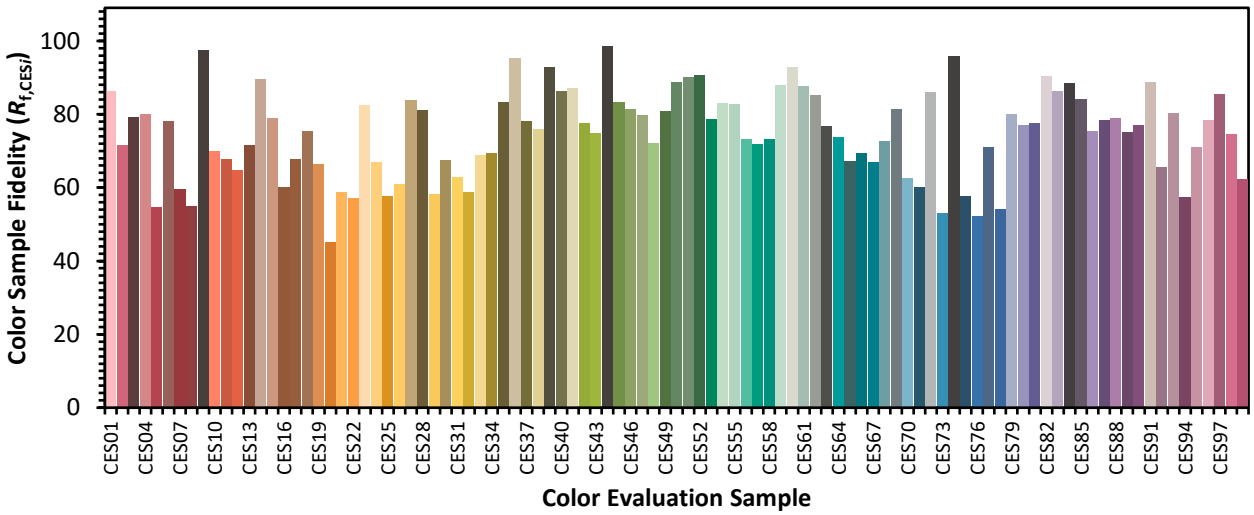
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## Individual Sample Fidelity Index ($R_{f,i}$)

| | | | |
|---|---|---|---|
| CES01 = 85 | CES26 = 61 | CES51 = 90 | CES76 = 52 |
| CES02 = 60 | CES27 = 84 | CES52 = 91 | CES77 = 71 |
| CES03 = 30 | CES28 = 81 | CES53 = 79 | CES78 = 54 |
| CES04 = 69 | CES29 = 58 | CES54 = 83 | CES79 = 80 |
| CES05 = 46 | CES30 = 67 | CES55 = 83 | CES80 = 77 |
| CES06 = 50 | CES31 = 63 | CES56 = 73 | CES81 = 77 |
| CES07 = 39 | CES32 = 59 | CES57 = 72 | CES82 = 90 |
| CES08 = 38 | CES33 = 69 | CES58 = 73 | CES83 = 86 |
| CES09 = 29 | CES34 = 69 | CES59 = 88 | CES84 = 88 |
| CES10 = 73 | CES35 = 83 | CES60 = 93 | CES85 = 84 |
| CES11 = 56 | CES36 = 95 | CES61 = 88 | CES86 = 75 |
| CES12 = 61 | CES37 = 78 | CES62 = 85 | CES87 = 78 |
| CES13 = 41 | CES38 = 76 | CES63 = 77 | CES88 = 79 |
| CES14 = 74 | CES39 = 93 | CES64 = 74 | CES89 = 75 |
| CES15 = 70 | CES40 = 86 | CES65 = 67 | CES90 = 77 |
| CES16 = 46 | CES41 = 87 | CES66 = 69 | CES91 = 89 |
| CES17 = 49 | CES42 = 78 | CES67 = 67 | CES92 = 66 |
| CES18 = 55 | CES43 = 75 | CES68 = 73 | CES93 = 80 |
| CES19 = 71 | CES44 = 99 | CES69 = 81 | CES94 = 57 |
| CES20 = 64 | CES45 = 83 | CES70 = 63 | CES95 = 71 |
| CES21 = 85 | CES46 = 81 | CES71 = 60 | CES96 = 78 |
| CES22 = 77 | CES47 = 80 | CES72 = 86 | CES97 = 85 |
| CES23 = 91 | CES48 = 72 | CES73 = 53 | CES98 = 75 |
| CES24 = 90 | CES49 = 81 | CES74 = 96 | CES99 = 62 |
| CES25 = 71 | CES50 = 89 | CES75 = 58 | |

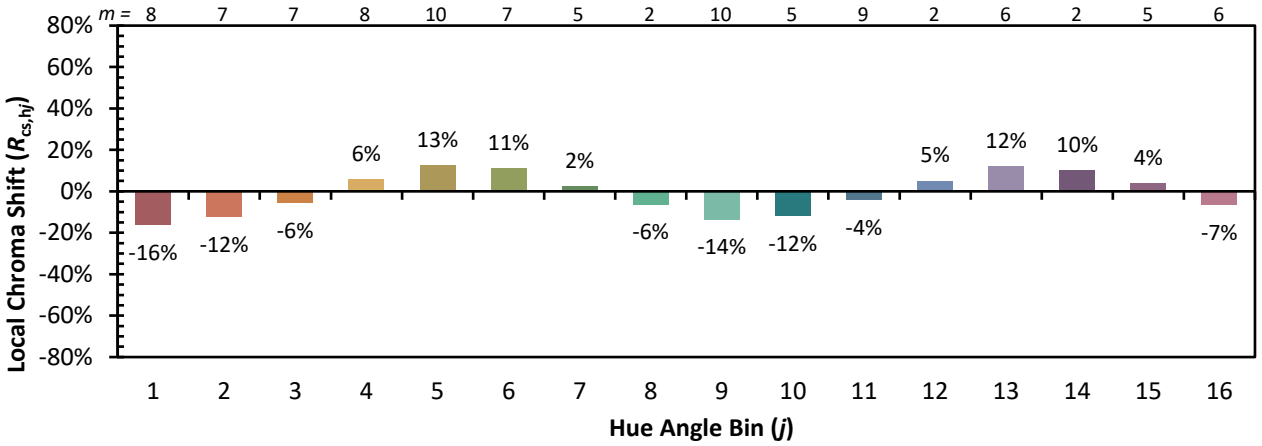


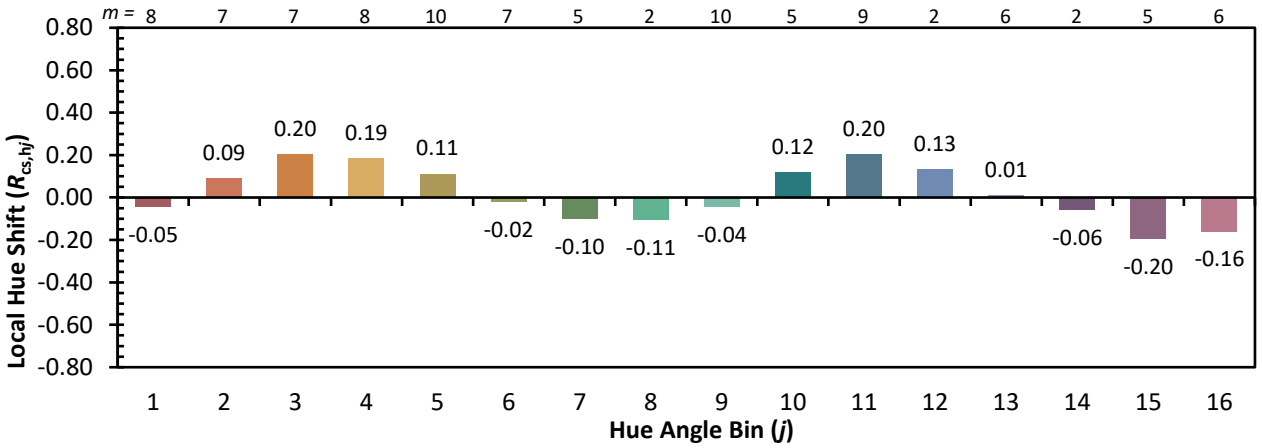
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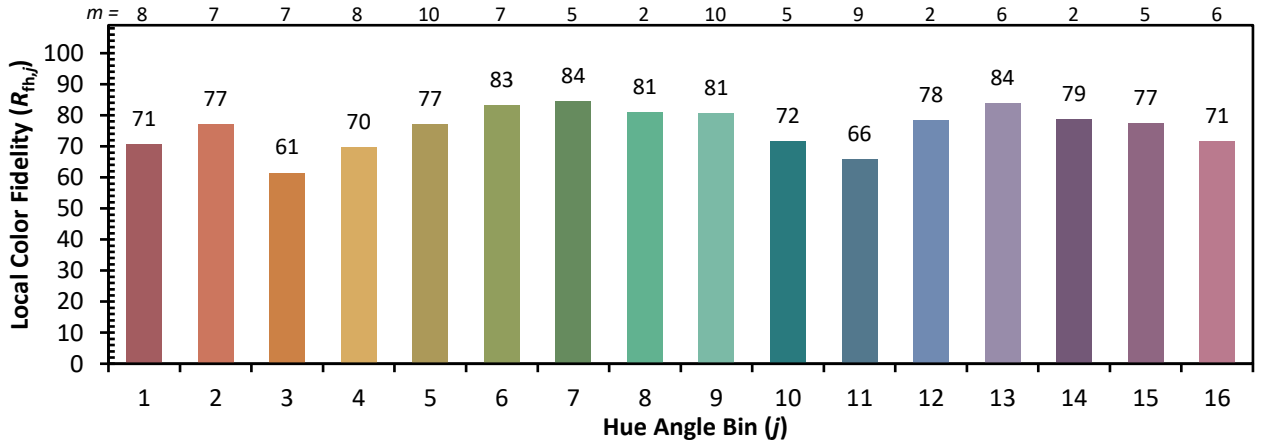
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## Color Rendition by Hue-Angle Bin



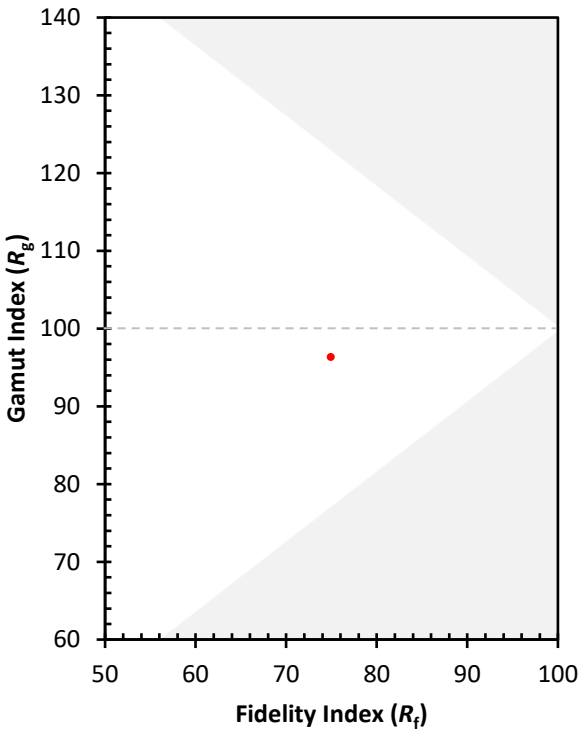



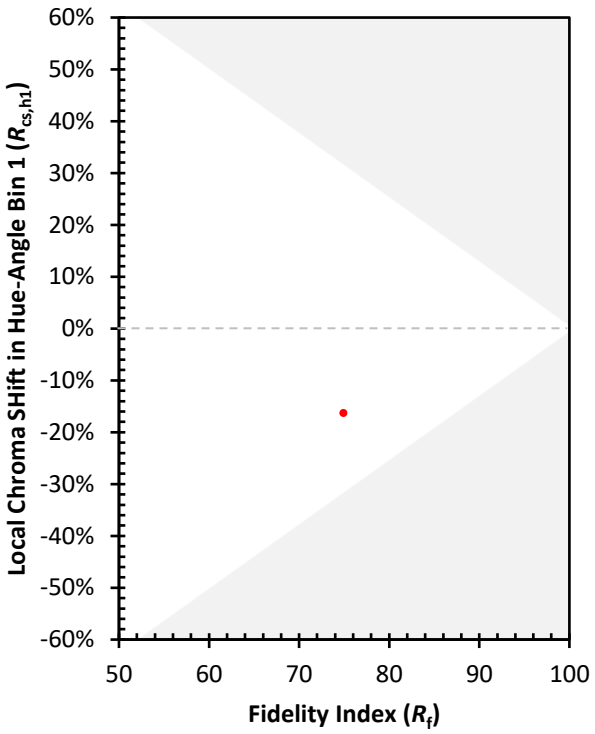
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### Measure Comparisons




(END OF REPORT)