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: STREETWORKS

Report Number: P1046558

Luminaire Tested: **FFX-CLB-30-727-U-FR-T3-UPLR-HSS**

Issue Date: 07/01/2025

Report Generated By 670347003

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

Scaled Data Report

**Test Information**

| | |
|---|---|
| Test Method: | LM-79-08 |
| Report Number: | P1046558 |
| Test Lab: | INNOVATION CENTER(G3) |
| Issue Date: | 07/01/2025 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS (FORMERLY EATON) |
| Product Line: | STREETWORKS |
| Catalog Number: | FFX-CLB-30-727-U-FR-T3-UPLR-HSS |
| Description: | FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS, UPLIGHT REFLECTOR AND HOUSESIDE SHIELD |
| Light Source: | (4) 2700K CCT, 70 CRI LEDS |
| Ballast/Driver: | ELECTRONIC DRIVER |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 4092 lumens |
| Efficiency: | N/A |
| Efficacy: | 133.7 lumens/watt |
| Luminous Opening: | Vertical Cylinder (Dia: 1.17' x H: 1.67') |
| IES Classification: | Type III - Short |
| BUG Rating: | B1 - U4 - G2 |

| | |
|---|---|
| Input Watts (W): | 30.6 |
| Input Voltage (V): | 120 |
| Input Current (Ain): | NR |
| Voltage Rise (V): | NR |
| Power Factor: | 0.99 |
| Total Harmonic Distortion (THDi): | 10.8% |
| Frequency (hertz): | 60 |
| Stabilization Time: | NR |
| Operation Time: | NR |
| Ambient Temperature (°C): | NR |
| Test Distance: | 28.75 FT |

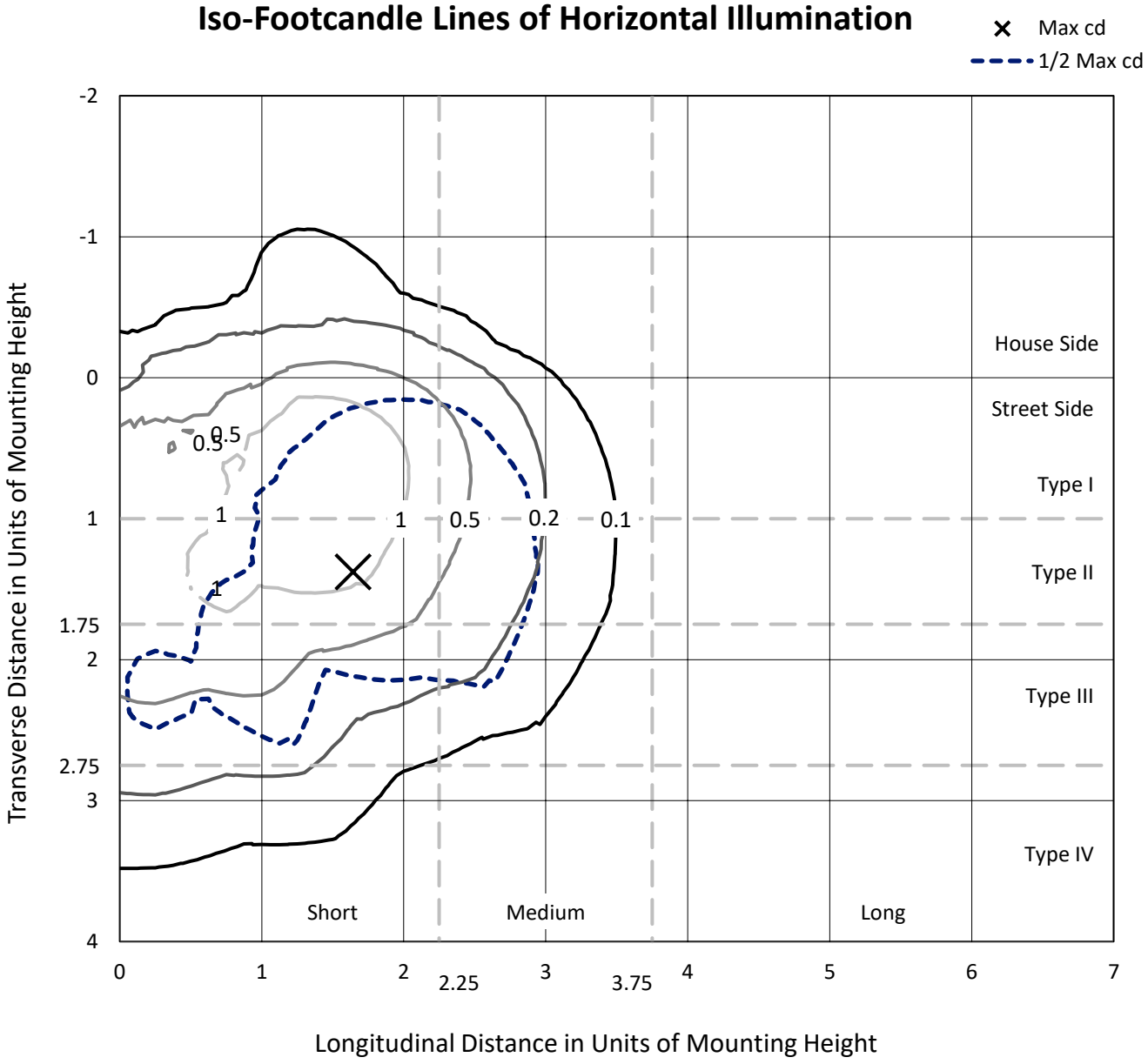


Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P1046558
CATALOG NUMBER: FFX-CLB-30-727-U-FR-T3-UPLR-HSS

## Iso-Footcandle Lines of Horizontal Illumination



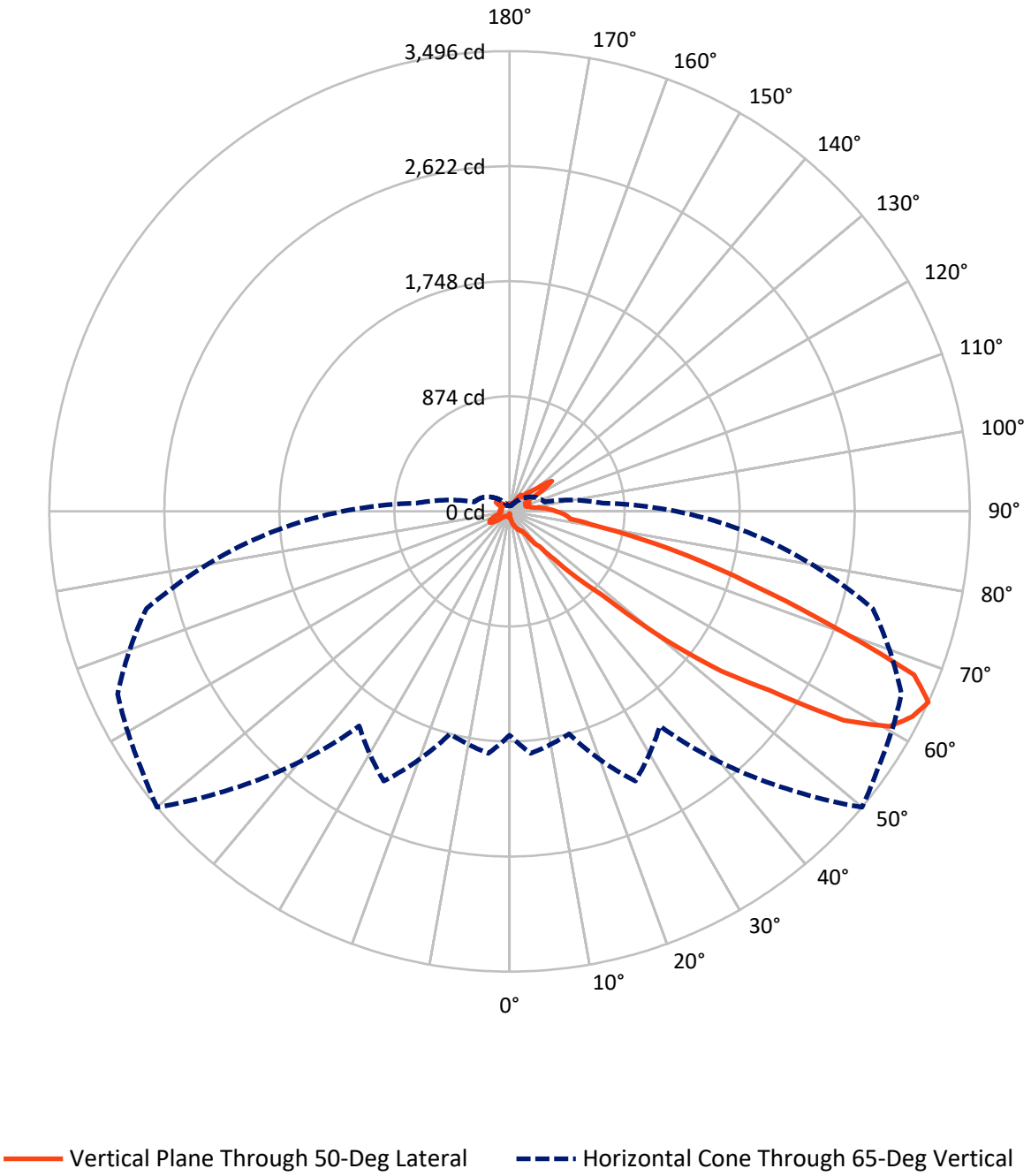

Based on 15 foot mounting height. Maximum calculated value = 2 fc
Type III - Short - N/A

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

Scaled Data Report

REPORT NUMBER: P1046558
CATALOG NUMBER: FFX-CLB-30-727-U-FR-T3-UPLR-HSS

## Luminous Intensity Polar Plot



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

Scaled Data Report

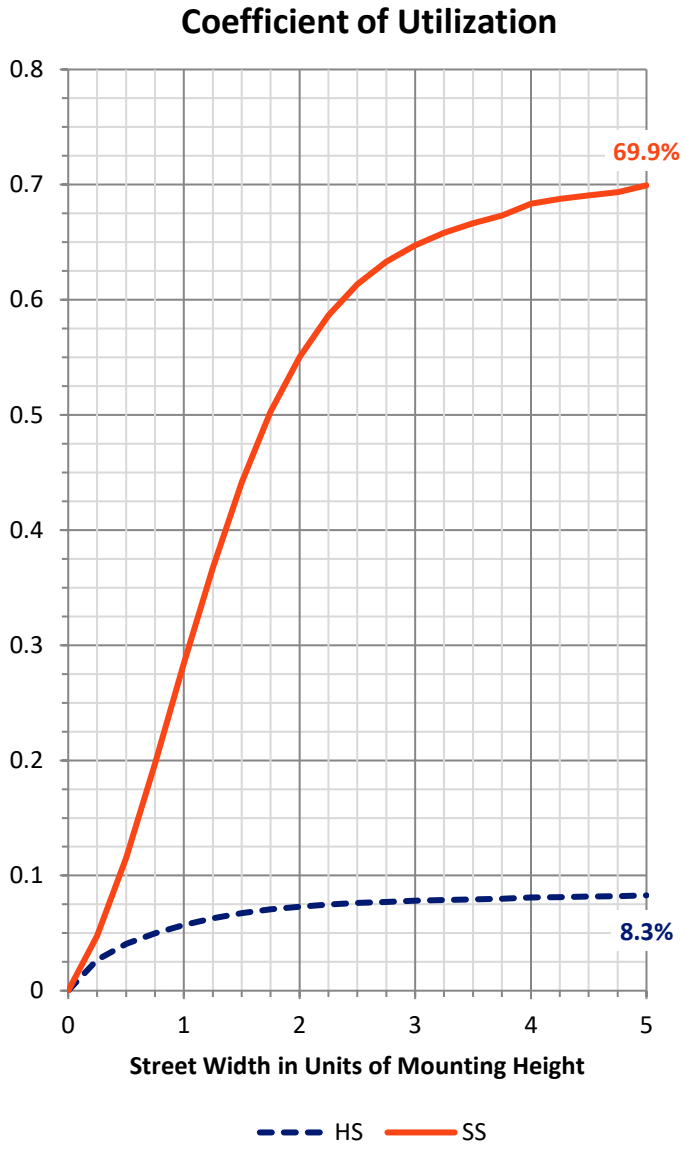
REPORT NUMBER: P1046558
CATALOG NUMBER: FFX-CLB-30-727-U-FR-T3-UPLR-HSS

**FLUX DISTRIBUTION:**

| | | Downward | Upward | Total |
|---|---|---|---|---|
| **House Side** | Lumens | 358.9 | 236.3 | 595.2 |
| | % Fixture | 8.8 | 5.8 | 14.5 |
| **Street Side** | Lumens | 2960.1 | 536.8 | 3496.8 |
| | % Fixture | 72.3 | 13.1 | 85.5 |
| **Total** | Lumens | 3319.0 | 773.0 | 4092.0 |
| | % Fixture | 81.1 | 18.9 | 100.0 |

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 3.9 | 0.1 |
| 10°-20° | 21.4 | 0.5 |
| 20°-30° | 45.6 | 1.1 |
| 30°-40° | 91.0 | 2.2 |
| 40°-50° | 238.6 | 5.8 |
| 50°-60° | 790.3 | 19.3 |
| 60°-70° | 1246.4 | 30.5 |
| 70°-80° | 650.8 | 15.9 |
| 80°-90° | 231.1 | 5.6 |
| 90°-100° | 149.1 | 3.6 |
| 100°-110° | 100.6 | 2.5 |
| 110°-120° | 114.8 | 2.8 |
| 120°-130° | 190.2 | 4.6 |
| 130°-140° | 108.7 | 2.7 |
| 140°-150° | 59.5 | 1.5 |
| 150°-160° | 29.1 | 0.7 |
| 160°-170° | 15.4 | 0.4 |
| 170°-180° | 5.5 | 0.1 |
| 0°-90° | 3319.0 | 81.1 |
| 0°-180° | 4092.0 | 100.0 |



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

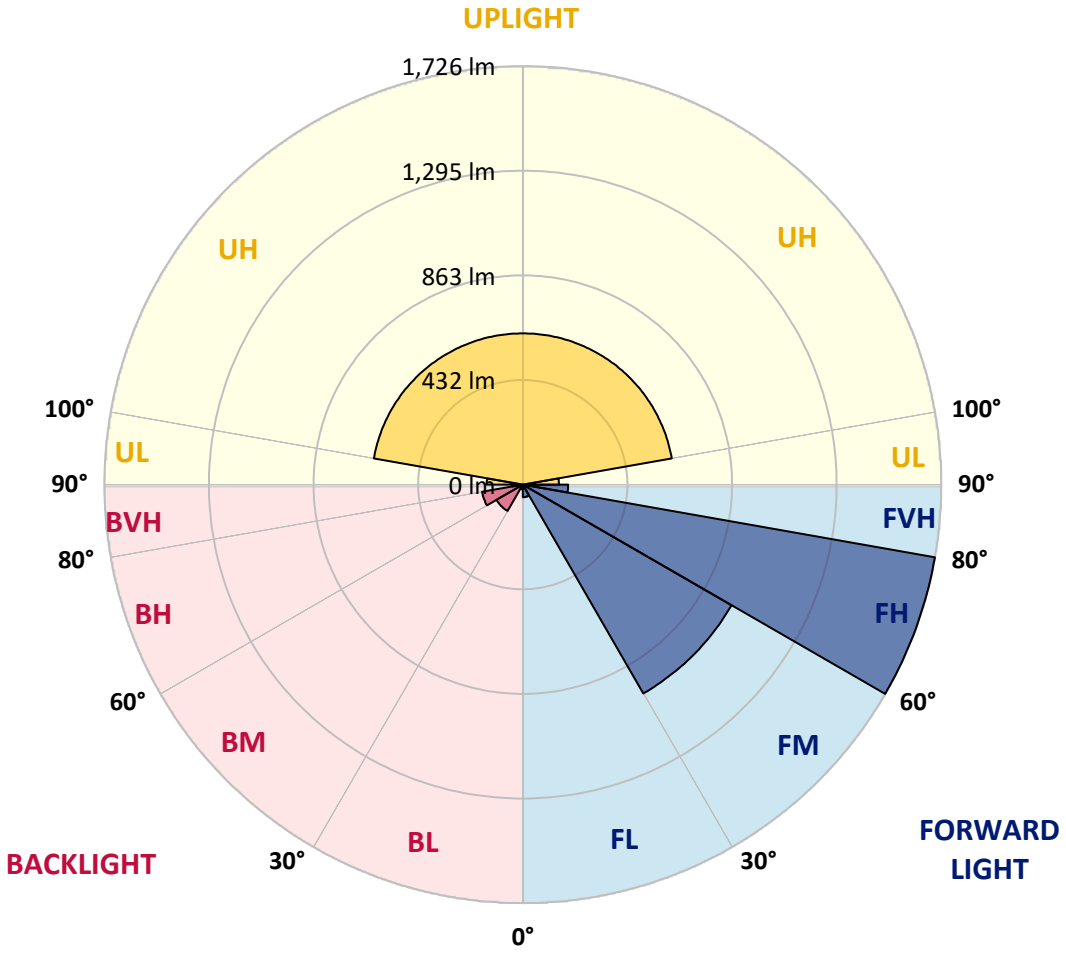
Scaled Data Report

REPORT NUMBER: P1046558
CATALOG NUMBER: FFX-CLB-30-727-U-FR-T3-UPLR-HSS

## LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit B | U | G |
|---|---|---|---|---|---|---|
| FL | (0°-30°) | 52.0 | 1.3 | | | |
| FM | (30°-60°) | 994.4 | 24.3 | | | |
| FH | (60°-80°) | 1726.5 | 42.2 | | | G1/1800 |
| FVH | (80°-90°) | 187.1 | 4.6 | | | G2/225 |
| BL | (0°-30°) | 18.8 | 0.5 | B0/110 | | |
| BM | (30°-60°) | 125.5 | 3.1 | B0/220 | | |
| BH | (60°-80°) | 170.7 | 4.2 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 44.0 | 1.1 | | | G1/100 |
| UL | (90°-100°) | 149.1 | 3.6 | | U3/500 | |
| UH | (100°-180°) | 623.9 | 15.2 | | U4/1000 | |

**BUG Rating: B1-U4-G2**
Type III Short



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

Scaled Data Report

REPORT NUMBER: P1046558
CATALOG NUMBER: FFX-CLB-30-727-U-FR-T3-UPLR-HSS

**CANDELA DISTRIBUTION (FULL):**

| | 0° | 5° | 15° | 25° | 35° | 45° | 50° | 55° | 65° | 75° | 85° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 |
| 2.5° | 27.8 | 27.5 | 28.1 | 28.9 | 28.6 | 27.8 | 27.2 | 26.9 | 26.0 | 25.7 | 24.9 |
| 5° | 41.1 | 40.8 | 40.2 | 40.8 | 41.1 | 39.9 | 39.3 | 37.9 | 36.4 | 33.8 | 32.4 |
| 7.5° | 57.5 | 57.8 | 58.4 | 57.0 | 56.4 | 53.8 | 53.2 | 51.8 | 49.5 | 46.3 | 45.4 |
| 10° | 78.1 | 78.4 | 79.8 | 77.5 | 73.7 | 70.6 | 70.0 | 70.6 | 73.2 | 65.1 | 60.2 |
| 12.5° | 98.3 | 97.5 | 101.8 | 100.6 | 95.7 | 91.1 | 88.8 | 89.1 | 87.9 | 81.8 | 73.7 |
| 15° | 117.1 | 117.1 | 120.3 | 121.5 | 116.3 | 105.6 | 102.1 | 101.2 | 100.6 | 94.3 | 83.0 |
| 17.5° | 129.0 | 129.6 | 129.8 | 129.8 | 128.1 | 119.1 | 115.1 | 113.4 | 108.2 | 102.4 | 92.0 |
| 20° | 138.8 | 139.1 | 136.5 | 136.8 | 139.4 | 131.6 | 127.5 | 124.1 | 118.6 | 112.5 | 99.5 |
| 22.5° | 152.4 | 151.8 | 147.8 | 146.0 | 151.8 | 145.2 | 140.8 | 137.1 | 130.4 | 123.5 | 111.6 |
| 25° | 167.4 | 166.9 | 162.8 | 158.5 | 162.5 | 156.5 | 151.8 | 148.4 | 142.3 | 137.7 | 113.4 |
| 27.5° | 181.9 | 181.3 | 174.4 | 173.8 | 170.3 | 167.4 | 162.5 | 161.7 | 157.0 | 143.4 | 112.5 |
| 30° | 192.6 | 192.0 | 184.5 | 184.8 | 175.8 | 178.1 | 170.9 | 170.3 | 164.8 | 146.9 | 114.5 |
| 32.5° | 196.7 | 197.2 | 194.1 | 192.6 | 180.5 | 189.7 | 183.1 | 180.7 | 179.3 | 156.2 | 124.6 |
| 35° | 211.4 | 216.0 | 220.9 | 222.7 | 211.7 | 229.0 | 215.5 | 213.7 | 217.2 | 190.0 | 155.6 |
| 37.5° | 325.1 | 322.7 | 304.5 | 278.8 | 273.0 | 311.2 | 309.2 | 310.6 | 308.3 | 270.4 | 205.9 |
| 40° | 325.3 | 326.8 | 315.2 | 299.6 | 281.4 | 320.4 | 350.2 | 323.9 | 362.4 | 294.7 | 225.9 |
| 42.5° | 341.8 | 337.2 | 364.7 | 370.7 | 350.5 | 408.6 | 496.5 | 397.4 | 480.4 | 359.2 | 307.4 |
| 45° | 404.6 | 404.6 | 409.5 | 412.4 | 405.2 | 551.2 | 721.3 | 554.4 | 642.0 | 449.4 | 369.0 |
| 47.5° | 469.4 | 463.9 | 491.9 | 539.1 | 567.1 | 709.4 | 952.0 | 732.5 | 870.8 | 604.1 | 512.2 |
| 50° | 654.5 | 662.3 | 716.0 | 771.0 | 812.9 | 1056.1 | 1532.7 | 1255.1 | 1422.3 | 928.9 | 782.0 |
| 52.5° | 798.2 | 843.9 | 885.2 | 1039.4 | 1058.2 | 1443.1 | 2014.8 | 1684.0 | 1822.2 | 1305.1 | 968.2 |
| 55° | 946.5 | 1037.1 | 1061.6 | 1333.8 | 1355.2 | 1854.3 | 2398.6 | 2133.1 | 2172.1 | 1720.7 | 1149.6 |
| 57.5° | 1218.4 | 1344.8 | 1353.1 | 1643.5 | 1642.6 | 2389.0 | 2994.6 | 2777.7 | 2748.2 | 2191.2 | 1427.5 |
| 60° | 1452.3 | 1596.4 | 1544.9 | 1947.2 | 1856.9 | 2783.2 | 3317.7 | 3099.0 | 3034.5 | 2568.6 | 1623.0 |
| 62.5° | 1594.3 | 1734.9 | 1671.6 | 2147.3 | 1993.7 | 2971.8 | 3434.5 | 3307.0 | 3197.1 | 2797.1 | 1782.3 |
| 65° | 1700.2 | 1845.1 | 1750.2 | 2260.9 | 1991.1 | 2981.0 | 3496.4 | 3414.0 | 3285.3 | 2856.7 | 1817.3 |
| 67.5° | 1686.3 | 1827.7 | 1714.1 | 2215.8 | 1852.0 | 2714.7 | 3314.5 | 3211.8 | 3052.8 | 2626.8 | 1699.6 |
| 70° | 1462.2 | 1547.5 | 1422.6 | 1887.3 | 1480.7 | 2099.9 | 2581.9 | 2522.7 | 2369.7 | 2010.8 | 1314.7 |
| 72.5° | 1230.8 | 1251.9 | 1134.8 | 1477.2 | 1154.5 | 1529.8 | 1961.9 | 1898.6 | 1798.2 | 1492.3 | 993.7 |
| 75° | 950.6 | 950.6 | 883.5 | 1107.6 | 857.8 | 1085.6 | 1485.0 | 1468.8 | 1406.9 | 1119.8 | 754.5 |
| 77.5° | 642.0 | 608.5 | 598.3 | 748.1 | 592.6 | 716.3 | 1033.9 | 1072.0 | 1055.9 | 801.7 | 550.1 |
| 80° | 374.2 | 382.3 | 368.1 | 461.8 | 389.8 | 468.5 | 663.4 | 713.7 | 712.3 | 532.4 | 360.9 |
| 82.5° | 291.8 | 297.6 | 282.8 | 332.6 | 297.6 | 368.7 | 465.0 | 461.8 | 472.8 | 385.8 | 271.6 |
| 85° | 287.5 | 291.8 | 276.5 | 307.4 | 285.7 | 350.2 | 437.0 | 436.1 | 433.8 | 357.2 | 255.1 |
| 87.5° | 261.4 | 267.2 | 253.9 | 278.8 | 259.1 | 319.9 | 397.1 | 401.7 | 395.0 | 334.9 | 245.2 |
| 90° | 218.6 | 224.7 | 218.9 | 247.8 | 227.6 | 275.9 | 345.3 | 348.8 | 343.0 | 298.5 | 221.2 |
| 92.5° | 196.7 | 200.7 | 193.8 | 218.9 | 197.5 | 242.3 | 305.1 | 307.1 | 298.2 | 262.6 | 191.4 |
| 95° | 181.3 | 185.4 | 176.7 | 195.2 | 174.4 | 213.7 | 259.7 | 266.3 | 253.0 | 221.5 | 163.1 |
| 97.5° | 150.7 | 148.1 | 144.6 | 160.5 | 144.3 | 168.3 | 198.7 | 203.6 | 195.2 | 171.8 | 129.8 |
| 100° | 130.4 | 131.3 | 129.8 | 141.4 | 126.7 | 144.6 | 168.3 | 170.3 | 166.9 | 149.8 | 117.4 |
| 102.5° | 126.4 | 126.7 | 129.3 | 137.1 | 120.0 | 133.0 | 153.3 | 154.4 | 153.6 | 137.4 | 108.4 |
| 105° | 125.2 | 124.9 | 126.4 | 134.8 | 117.1 | 121.8 | 141.1 | 141.7 | 138.8 | 127.8 | 101.5 |
| 107.5° | 118.3 | 119.1 | 118.9 | 126.4 | 115.1 | 115.7 | 128.1 | 127.8 | 127.2 | 117.1 | 96.0 |
| 110° | 135.6 | 134.2 | 128.1 | 128.4 | 117.4 | 120.3 | 132.7 | 131.3 | 128.4 | 122.3 | 104.7 |

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

Scaled Data Report

REPORT NUMBER: P1046558
CATALOG NUMBER: FFX-CLB-30-727-U-FR-T3-UPLR-HSS

**CANDELA DISTRIBUTION (continued):**

| | 0° | 5° | 15° | 25° | 35° | 45° | 50° | 55° | 65° | 75° | 85° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 112.5° | 192.9 | 188.8 | 181.9 | 159.1 | 147.5 | 155.6 | *164.0* | 165.4 | 162.2 | 156.7 | 132.5 |
| 115° | 214.0 | 213.4 | 205.6 | 190.6 | 152.4 | 155.3 | *160.8* | 163.1 | 166.9 | 156.2 | 135.6 |
| 117.5° | 175.5 | 185.1 | 172.9 | 175.0 | 153.3 | 134.8 | *133.9* | 129.3 | 131.3 | 130.1 | 125.5 |
| 120° | 221.5 | 223.3 | 198.7 | 194.1 | 179.0 | 185.1 | *185.4* | 186.0 | 179.9 | 150.7 | 132.7 |
| 122.5° | 311.5 | 311.5 | 318.4 | 331.1 | 323.3 | 312.3 | *306.0* | 299.6 | 291.2 | 263.5 | 225.3 |
| 125° | 395.0 | 394.5 | 390.7 | 397.1 | 389.3 | 393.6 | *395.6* | 397.4 | 388.4 | 354.6 | 302.5 |
| 127.5° | 318.4 | 326.5 | 340.1 | 374.5 | 352.8 | 346.7 | *341.0* | 345.0 | 338.4 | 332.0 | 299.6 |
| 130° | 246.7 | 247.6 | 269.8 | 291.8 | 290.1 | 270.7 | *264.0* | 252.5 | 255.1 | 254.2 | 234.8 |
| 132.5° | 210.8 | 212.0 | 225.0 | 237.4 | 247.8 | 233.7 | *220.7* | 214.6 | 216.6 | 215.2 | 202.7 |
| 135° | 184.2 | 184.2 | 179.6 | 178.1 | 186.8 | 199.8 | *198.4* | 190.6 | 186.8 | 182.5 | 164.0 |
| 137.5° | 159.3 | 158.8 | 150.4 | 145.8 | 152.7 | 169.5 | *170.6* | 170.6 | 166.9 | 156.5 | 143.2 |
| 140° | 131.3 | 130.4 | 126.1 | 127.0 | 128.7 | 140.0 | *140.8* | 143.4 | 142.9 | 134.5 | 118.3 |
| 142.5° | 99.5 | 99.8 | 106.1 | 113.4 | 117.4 | 141.7 | *137.9* | 135.1 | 144.3 | 143.7 | 103.2 |
| 145° | 132.7 | 129.8 | 129.8 | 126.7 | 136.2 | 160.2 | *152.7* | 155.0 | 167.2 | 155.9 | 111.6 |
| 147.5° | 121.8 | 123.2 | 123.5 | 122.9 | 135.1 | 136.5 | *131.0* | 131.3 | 135.6 | 135.6 | 114.2 |
| 150° | 94.3 | 92.0 | 92.5 | 93.7 | 106.4 | 105.6 | *100.6* | 100.4 | 103.8 | 103.0 | 93.4 |
| 152.5° | 74.6 | 74.3 | 74.0 | 75.2 | 85.6 | 81.3 | *79.2* | 78.4 | 77.8 | 76.9 | 74.6 |
| 155° | 70.3 | 70.0 | 69.4 | 70.9 | 76.9 | 74.9 | *73.7* | 73.7 | 72.3 | 70.9 | 69.4 |
| 157.5° | 62.5 | 62.2 | 62.5 | 65.4 | 68.8 | 66.5 | *66.2* | 65.9 | 65.4 | 63.6 | 63.0 |
| 160° | 58.4 | 58.1 | 58.7 | 61.0 | 62.5 | 60.4 | *59.9* | 60.2 | 59.9 | 59.0 | 60.2 |
| 162.5° | 55.2 | 55.2 | 55.2 | 56.7 | 57.3 | 55.8 | *55.5* | 55.8 | 56.1 | 56.1 | 57.5 |
| 165° | 53.5 | 53.5 | 53.8 | 54.7 | 54.7 | 54.1 | *53.5* | 53.5 | 54.9 | 55.5 | 56.7 |
| 167.5° | 54.7 | 54.7 | 54.9 | 55.2 | 55.2 | 54.7 | *54.7* | 54.9 | 55.8 | 56.4 | 56.4 |
| 170° | 56.4 | 56.4 | 56.4 | 56.7 | 56.4 | 55.5 | *55.5* | 55.5 | 55.8 | 55.8 | 56.1 |
| 172.5° | 58.4 | 58.4 | 58.4 | 58.1 | 57.5 | 57.3 | *56.7* | 56.7 | 57.0 | 56.7 | 57.0 |
| 175° | 61.3 | 61.0 | 61.0 | 60.7 | 60.4 | 60.2 | *59.9* | 59.6 | 59.6 | 58.7 | 58.7 |
| 177.5° | 62.8 | 62.5 | 62.8 | 62.8 | 62.5 | 61.9 | *61.3* | 61.3 | 61.0 | 60.4 | 60.2 |
| 180° | 60.4 | 60.4 | 60.4 | 60.4 | 60.4 | 60.4 | *60.4* | 60.4 | 60.4 | 60.4 | 60.4 |

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

Scaled Data Report

REPORT NUMBER: P1046558
CATALOG NUMBER: FFX-CLB-30-727-U-FR-T3-UPLR-HSS

**CANDELA DISTRIBUTION (continued):**

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 |
| 2.5° | 24.3 | 23.4 | 21.1 | 19.1 | 17.6 | 17.1 | 17.1 | 16.2 | 15.0 | 14.2 | 13.9 |
| 5° | 32.1 | 31.5 | 30.7 | 29.5 | 26.9 | 23.4 | 20.5 | 19.4 | 18.8 | 18.5 | 18.2 |
| 7.5° | 45.4 | 46.0 | 47.1 | 46.8 | 41.9 | 32.7 | 27.2 | 26.9 | 30.1 | 33.5 | 34.7 |
| 10° | 58.7 | 58.1 | 61.9 | 65.1 | 52.9 | 37.0 | 28.1 | 27.2 | 31.5 | 37.6 | 38.5 |
| 12.5° | 70.3 | 67.4 | 65.4 | 61.9 | 50.6 | 37.0 | 30.1 | 28.3 | 30.4 | 35.0 | 35.0 |
| 15° | 79.0 | 75.2 | 66.8 | 58.7 | 48.6 | 38.2 | 31.2 | 30.1 | 30.1 | 28.6 | 28.9 |
| 17.5° | 85.6 | 78.7 | 66.5 | 56.1 | 45.1 | 36.4 | 30.9 | 27.8 | 26.0 | 23.7 | 23.1 |
| 20° | 93.4 | 88.5 | 72.3 | 57.8 | 44.5 | 35.3 | 30.1 | 26.3 | 24.3 | 23.4 | 23.1 |
| 22.5° | 101.8 | 91.7 | 76.1 | 58.4 | 44.5 | 35.9 | 29.8 | 25.7 | 24.0 | 23.4 | 23.4 |
| 25° | 102.7 | 94.0 | 78.1 | 60.7 | 46.0 | 37.0 | 30.4 | 26.0 | 24.3 | 23.7 | 23.4 |
| 27.5° | 101.5 | 95.4 | 81.6 | 63.3 | 47.4 | 38.2 | 31.5 | 26.6 | 24.3 | 23.4 | 23.1 |
| 30° | 105.8 | 100.9 | 85.6 | 65.1 | 48.9 | 39.6 | 32.7 | 27.8 | 24.9 | 23.1 | 22.8 |
| 32.5° | 116.8 | 109.9 | 91.1 | 66.2 | 49.5 | 39.9 | 33.8 | 28.9 | 25.4 | 23.4 | 23.1 |
| 35° | 145.8 | 139.4 | 112.2 | 70.3 | 49.5 | 40.5 | 34.7 | 29.8 | 26.0 | 23.7 | 23.4 |
| 37.5° | 187.7 | 175.8 | 137.9 | 83.9 | 50.0 | 41.6 | 35.6 | 30.9 | 26.9 | 24.3 | 23.7 |
| 40° | 199.0 | 168.0 | 117.1 | 75.2 | 51.2 | 42.8 | 37.0 | 32.1 | 28.1 | 25.2 | 24.9 |
| 42.5° | 258.3 | 214.9 | 144.6 | 79.5 | 54.7 | 43.7 | 37.9 | 33.3 | 28.9 | 26.0 | 25.4 |
| 45° | 276.5 | 215.2 | 146.9 | 92.0 | 64.2 | 47.4 | 39.3 | 34.1 | 29.5 | 26.6 | 26.3 |
| 47.5° | 362.4 | 266.9 | 149.8 | 98.6 | 72.0 | 54.7 | 42.8 | 35.3 | 30.1 | 27.2 | 26.9 |
| 50° | 531.3 | 376.5 | 186.0 | 123.2 | 89.1 | 66.8 | 50.3 | 37.6 | 30.7 | 28.1 | 27.5 |
| 52.5° | 662.8 | 451.7 | 201.6 | 150.7 | 118.3 | 88.2 | 63.3 | 43.7 | 32.4 | 28.6 | 28.1 |
| 55° | 808.0 | 555.0 | 229.0 | 181.6 | 143.4 | 110.5 | 80.4 | 52.6 | 35.9 | 29.5 | 28.9 |
| 57.5° | 1007.8 | 662.5 | 269.0 | 214.3 | 174.1 | 129.0 | 91.7 | 61.6 | 40.5 | 31.5 | 30.4 |
| 60° | 1129.3 | 708.2 | 275.3 | 231.9 | 192.3 | 143.7 | 96.6 | 65.4 | 45.4 | 34.4 | 32.7 |
| 62.5° | 1245.6 | 739.8 | 277.0 | 238.9 | 196.7 | 146.6 | 97.2 | 63.6 | 47.1 | 38.5 | 36.1 |
| 65° | *1269.3* | *708.5* | *277.6* | *240.3* | *191.4* | *139.1* | *94.0* | *61.9* | *45.1* | *41.9* | *42.2* |
| 67.5° | 1189.2 | 629.3 | 257.4 | 229.9 | 177.6 | 124.1 | 84.4 | 59.3 | 44.5 | 41.4 | 42.2 |
| 70° | 935.0 | 493.1 | 235.1 | 213.1 | 150.7 | 105.6 | 75.2 | 55.8 | 44.5 | 39.9 | 39.0 |
| 72.5° | 725.9 | 421.4 | 240.9 | 202.4 | 129.0 | 94.3 | 68.0 | 52.1 | 43.1 | 39.6 | 39.0 |
| 75° | 563.4 | 351.7 | 237.4 | 178.1 | 105.3 | 81.0 | 61.0 | 47.7 | 41.1 | 39.0 | 38.8 |
| 77.5° | 411.8 | 277.3 | 196.4 | 136.5 | 87.3 | 68.8 | 53.8 | 44.8 | 39.9 | 38.2 | 37.9 |
| 80° | 264.9 | 194.1 | 136.8 | 109.0 | 76.6 | 62.8 | 50.3 | 42.8 | 39.3 | 38.2 | 37.9 |
| 82.5° | 223.3 | 176.1 | 123.2 | 103.2 | 74.0 | 63.9 | 52.6 | 44.8 | 41.4 | 40.2 | 39.9 |
| 85° | 214.9 | 181.3 | 126.7 | 107.6 | 70.9 | 61.0 | 51.5 | 44.8 | 41.6 | 40.2 | 39.9 |
| 87.5° | 204.2 | 164.0 | 124.9 | 98.9 | 68.3 | 58.7 | 50.6 | 46.0 | 42.8 | 41.9 | 41.6 |
| 90° | 184.8 | 144.6 | 114.5 | 92.0 | 72.0 | 62.5 | 55.8 | 50.9 | 47.7 | 45.7 | 45.1 |
| 92.5° | 155.9 | 116.3 | 98.3 | 90.8 | 79.0 | 70.9 | 64.2 | 59.9 | 56.4 | 54.4 | 53.5 |
| 95° | 131.3 | 101.5 | 85.6 | 80.4 | 69.7 | 63.6 | 57.3 | 54.1 | 51.5 | 49.7 | 49.7 |
| 97.5° | 107.0 | 87.0 | 79.5 | 75.5 | 66.8 | 60.2 | 54.9 | 51.8 | 50.9 | 50.3 | 50.0 |
| 100° | 100.6 | 85.3 | 80.1 | 76.6 | 69.7 | 63.6 | 59.6 | 56.7 | 56.4 | 56.1 | 56.1 |
| 102.5° | 93.4 | 80.7 | 74.9 | 71.4 | 64.5 | 59.3 | 56.4 | 54.1 | 53.2 | 52.3 | 51.5 |
| 105° | 88.2 | 76.3 | 72.0 | 67.4 | 61.9 | 56.7 | 53.8 | 50.3 | 49.7 | 49.5 | 49.5 |
| 107.5° | 85.6 | 75.8 | 73.5 | 66.2 | 61.0 | 58.7 | 55.2 | 50.9 | 50.0 | 48.9 | 48.9 |
| 110° | 94.6 | 84.2 | 77.5 | 68.5 | 63.0 | 61.0 | 60.2 | 56.4 | 53.5 | 50.0 | 49.7 |

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

Scaled Data Report

REPORT NUMBER: P1046558
CATALOG NUMBER: FFX-CLB-30-727-U-FR-T3-UPLR-HSS

**CANDELA DISTRIBUTION (continued):**

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 112.5° | 117.1 | 103.0 | 95.1 | 81.8 | 70.6 | 65.6 | 61.9 | 57.8 | 56.1 | 53.8 | 52.9 |
| 115° | 126.1 | 111.6 | 101.8 | 88.5 | 75.5 | 66.8 | 61.3 | 60.7 | 59.0 | 57.5 | 59.0 |
| 117.5° | 129.3 | 101.5 | 83.9 | 80.7 | 70.9 | 63.9 | 61.3 | 60.4 | 61.0 | 61.0 | 58.4 |
| 120° | 139.4 | 109.6 | 103.0 | 98.9 | 80.4 | 69.1 | 63.3 | 66.2 | 65.6 | 62.2 | 62.2 |
| 122.5° | 207.9 | 185.7 | 163.7 | 136.5 | 113.4 | 100.1 | 80.4 | 67.4 | 64.8 | 62.5 | 61.0 |
| 125° | 273.9 | 253.9 | 219.5 | 183.4 | 143.4 | 106.1 | 79.8 | 70.6 | 65.6 | 62.8 | 63.3 |
| 127.5° | 279.1 | 258.0 | 218.6 | 174.4 | 128.1 | 99.2 | 80.4 | 72.3 | 66.8 | 63.6 | 63.0 |
| 130° | 218.1 | 203.0 | 173.5 | 141.1 | 108.7 | 88.8 | 74.3 | 66.2 | 61.3 | 58.4 | 57.8 |
| 132.5° | 192.9 | 180.2 | 149.5 | 121.2 | 99.2 | 82.4 | 70.0 | 61.0 | 57.5 | 55.5 | 55.2 |
| 135° | 154.1 | 143.4 | 122.9 | 107.6 | 92.3 | 78.4 | 65.9 | 57.5 | 54.4 | 54.1 | 53.5 |
| 137.5° | 135.1 | 126.4 | 110.5 | 97.7 | 85.0 | 71.7 | 61.3 | 54.4 | 52.9 | 53.2 | 52.3 |
| 140° | 110.2 | 106.4 | 97.5 | 86.5 | 72.9 | 59.0 | 51.8 | 49.5 | 51.8 | 52.9 | 52.9 |
| 142.5° | 94.6 | 89.7 | 79.5 | 66.8 | 58.1 | 51.8 | 50.9 | 50.0 | 51.2 | 51.8 | 51.8 |
| 145° | 87.0 | 81.3 | 72.9 | 68.3 | 64.2 | 58.7 | 54.1 | 50.0 | 48.9 | 49.2 | 49.2 |
| 147.5° | 98.3 | 91.7 | 86.2 | 77.5 | 67.7 | 58.4 | 51.5 | 46.8 | 46.8 | 48.0 | 48.3 |
| 150° | 81.6 | 75.8 | 72.0 | 67.1 | 59.6 | 52.1 | 47.1 | 44.8 | 45.7 | 48.0 | 48.3 |
| 152.5° | 68.3 | 61.3 | 59.0 | 56.1 | 52.1 | 48.0 | 45.7 | 44.5 | 46.0 | 47.7 | 47.7 |
| 155° | 66.5 | 60.4 | 57.5 | 54.7 | 50.9 | 47.4 | 45.4 | 44.8 | 46.3 | 47.4 | 47.7 |
| 157.5° | 62.5 | 59.0 | 55.2 | 52.9 | 50.0 | 47.4 | 46.0 | 45.4 | 46.6 | 47.4 | 47.7 |
| 160° | 60.2 | 58.1 | 53.8 | 51.8 | 49.2 | 47.4 | 47.1 | 47.1 | 47.7 | 48.0 | 48.0 |
| 162.5° | 57.5 | 56.4 | 53.8 | 52.1 | 50.3 | 49.5 | 50.0 | 50.3 | 50.3 | 50.0 | 50.0 |
| 165° | 56.7 | 56.1 | 53.8 | 52.3 | 51.5 | 51.8 | 52.9 | 53.2 | 52.3 | 51.8 | 51.8 |
| 167.5° | 56.4 | 56.4 | 54.7 | 53.5 | 53.2 | 53.8 | 54.9 | 54.9 | 54.1 | 52.9 | 52.6 |
| 170° | 56.4 | 56.7 | 56.1 | 56.1 | 55.5 | 55.8 | 56.1 | 56.1 | 55.5 | 54.9 | 54.7 |
| 172.5° | 57.3 | 57.3 | 57.3 | 57.3 | 57.0 | 57.3 | 57.5 | 57.5 | 57.5 | 57.3 | 57.3 |
| 175° | 58.7 | 58.7 | 58.7 | 58.4 | 58.1 | 58.1 | 58.4 | 58.7 | 59.0 | 59.0 | 59.0 |
| 177.5° | 60.2 | 59.9 | 59.6 | 59.9 | 59.6 | 59.6 | 60.2 | 60.4 | 60.7 | 60.7 | 60.7 |
| 180° | 60.4 | 60.4 | 60.4 | 60.4 | 60.4 | 60.4 | 60.4 | 60.4 | 60.4 | 60.4 | 60.4 |

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

Streetworks

Report Number: SP1-2501-332-8

Test Date: 03/25/2025

Luminaire Tested: FFX-CLB-20-727-U-FR-T5-UPLR-P-HSS

Data in this report applies to families of products including FFX-CLB-20-727-U-FR-T5-UPLR-P-HSS

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

## Test Information

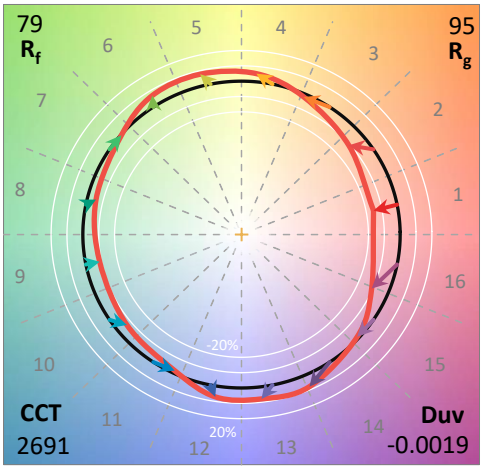
| | |
|---|---|
| Test Method: | LM-79-2019 |
| Report Number: | SP1-2501-332-8 |
| Test Lab: | COOPER LIGHTING SOLUTIONS |
| Photometer: | SP1 - 76IN SPHERE |
| Measurement Geometry: | 4π |
| Issue Date: | 03/31/2025 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS |
| Product Line: | Streetworks |
| Catalog Number: | **FFX-CLB-20-727-U-FR-T5-UPLR-P-HSS** |
| Description: | |

0

## Spectral Parameters

| | | | | | |
|---|---|---|---|---|---|
| CCT (K): | 2691 | CRI (Ra): | 75.2 | | |
| CIE u': | 0.2634 | R1: | 72.6 | R9: | -22.6 |
| CIE v': | 0.5248 | R2: | 88.2 | R10: | 75.5 |
| Duv: | -0.0019 | R3: | 92.0 | R11: | 69.1 |
| CIE x: | 0.4574 | R4: | 71.0 | R12: | 71.3 |
| CIE y: | 0.4050 | R5: | 73.5 | R13: | 75.9 |
| CIE z: | 0.1375 | R6: | 86.2 | R14: | 95.9 |
| Peak Wavelength (nm): | 602 | R7: | 75.1 | R15: | 63.7 |
| Dominant Wavelength (nm): | 584 | R8: | 43.1 | | |
| Purity: | 58.87605 | | | | |

| | |
|---|---|
| Rf: | 79.3 |
| Rg: | 95.1 |




## Test Conditions

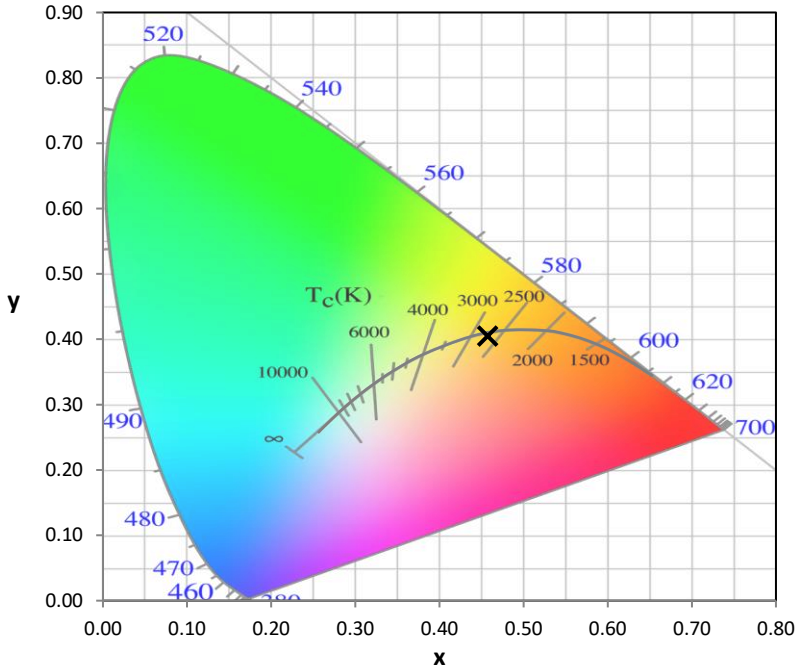
| | |
|---|---|
| Stabilization Time: | 21M |
| Operation Time: | 1H 21M |
| Sphere Temperature (°C): | 24.5 |

REPORT NUMBER: SP1-2501-332-8

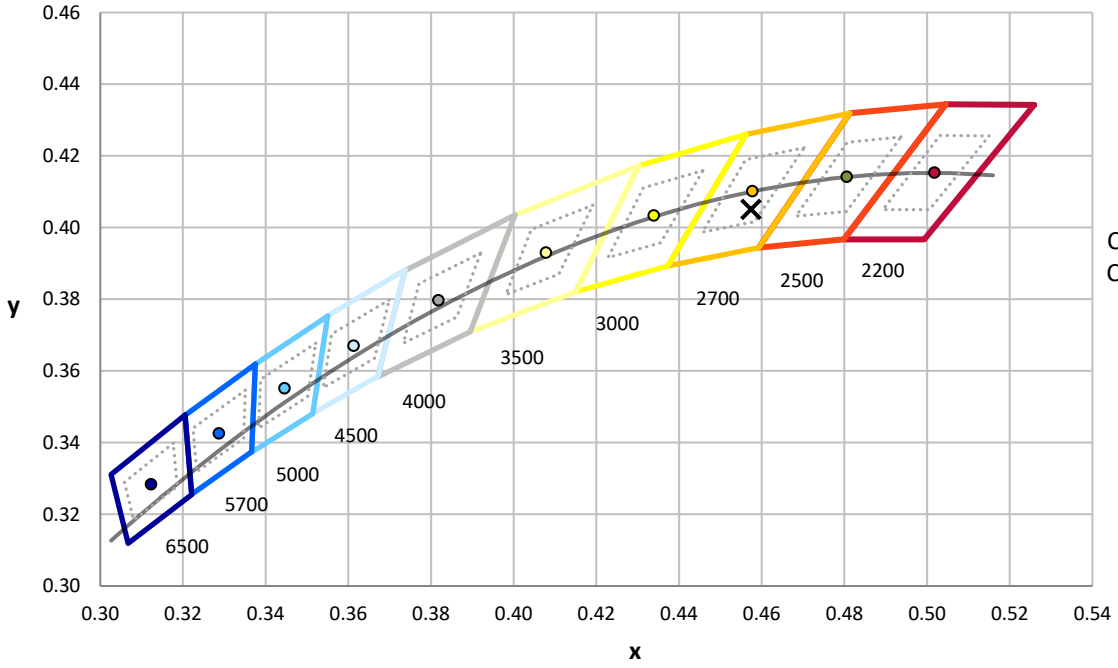
| Measurement and Test Equipment | | | |
|---|---|---|---|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | IN0058 | 12/16/2024 | 6/16/2025 |
| Power Meter | INXT2011004 | 1/21/2025 | 1/21/2026 |
| AC Power Source | IN0063 | 10/22/2024 | 10/22/2025 |
| DC Power Source | IN0208 | 10/22/2024 | 10/22/2025 |
| Sphere Thermometer | IN0085 | 10/22/2024 | 10/22/2025 |
| Room Thermometer | IN0046 | 10/22/2024 | 10/22/2025 |

REPORT NUMBER: SP1-2501-332-8

## CIE 1931 Chromaticity Diagram




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

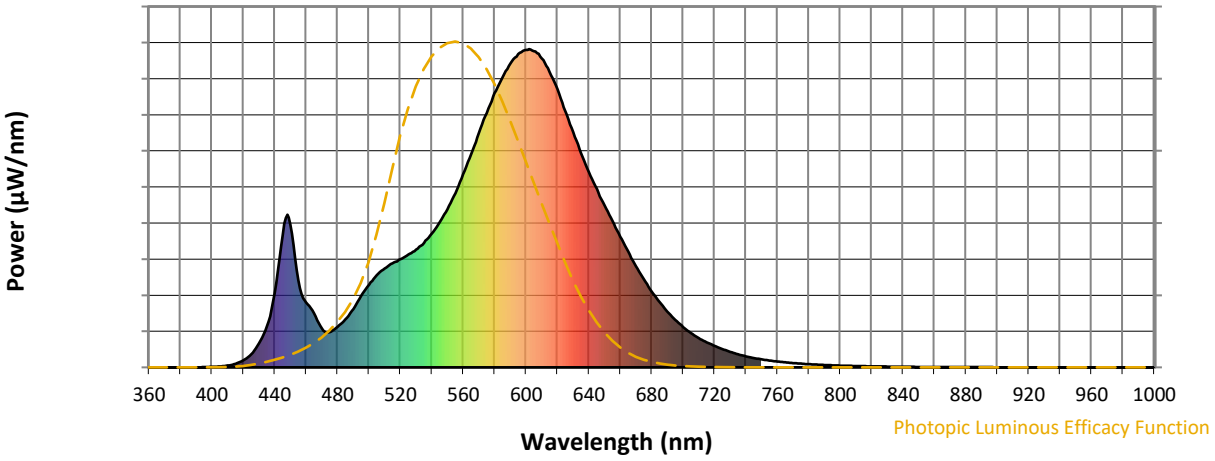



CCT = 2691K
CIE x = 0.4574
CIE y = 0.4050
Duv = -0.0019

Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-8

## Photopic Flux vs. Wavelength

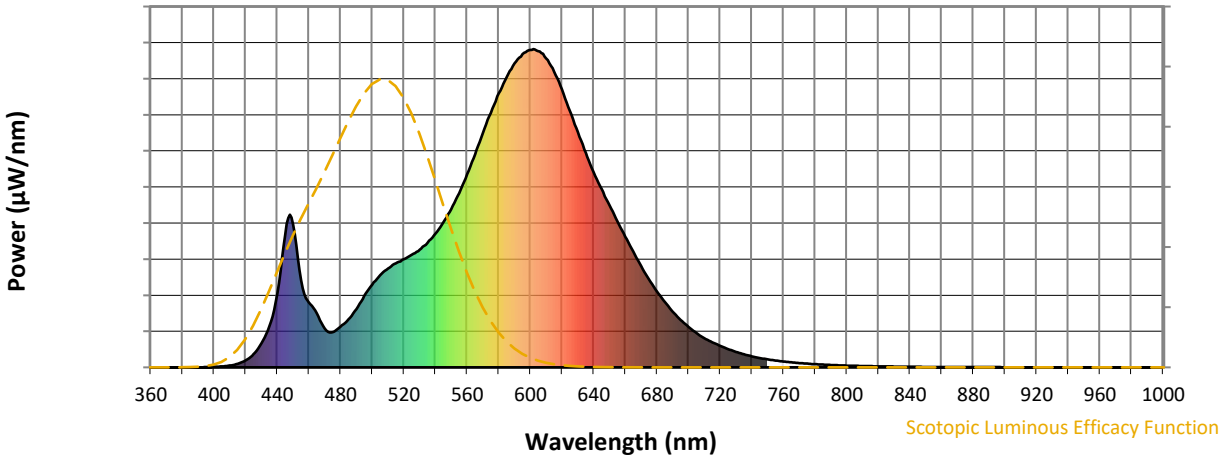



## Photopic Lumens: NR

| 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 | 184 | NR | 620 | 874 | NR | 750 | 25 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 224 | NR | 625 | 806 | NR | 755 | 21 | NR | 885 | 1 | NR |
| 370 | 0 | NR | 500 | 260 | NR | 630 | 739 | NR | 760 | 18 | NR | 890 | 1 | NR |
| 375 | 0 | NR | 505 | 290 | NR | 635 | 674 | NR | 765 | 16 | NR | 895 | 1 | NR |
| 380 | 0 | NR | 510 | 311 | NR | 640 | 614 | NR | 770 | 14 | NR | 900 | 0 | NR |
| 385 | 0 | NR | 515 | 327 | NR | 645 | 561 | NR | 775 | 12 | NR | 905 | 0 | NR |
| 390 | 0 | NR | 520 | 340 | NR | 650 | 509 | NR | 780 | 10 | NR | 910 | 0 | NR |
| 395 | 1 | NR | 525 | 354 | NR | 655 | 459 | NR | 785 | 9 | NR | 915 | 0 | NR |
| 400 | 2 | NR | 530 | 370 | NR | 660 | 411 | NR | 790 | 7 | NR | 920 | 0 | NR |
| 405 | 3 | NR | 535 | 391 | NR | 665 | 364 | NR | 795 | 6 | NR | 925 | 0 | NR |
| 410 | 6 | NR | 540 | 420 | NR | 670 | 318 | NR | 800 | 6 | NR | 930 | 0 | NR |
| 415 | 11 | NR | 545 | 456 | NR | 675 | 276 | NR | 805 | 5 | NR | 935 | 0 | NR |
| 420 | 22 | NR | 550 | 497 | NR | 680 | 239 | NR | 810 | 4 | NR | 940 | 0 | NR |
| 425 | 42 | NR | 555 | 547 | NR | 685 | 205 | NR | 815 | 4 | NR | 945 | 0 | NR |
| 430 | 75 | NR | 560 | 607 | NR | 690 | 175 | NR | 820 | 3 | NR | 950 | 0 | NR |
| 435 | 129 | NR | 565 | 670 | NR | 695 | 149 | NR | 825 | 3 | NR | 955 | 0 | NR |
| 440 | 233 | NR | 570 | 736 | NR | 700 | 127 | NR | 830 | 2 | NR | 960 | 0 | NR |
| 445 | 414 | NR | 575 | 800 | NR | 705 | 108 | NR | 835 | 2 | NR | 965 | 0 | NR |
| 450 | 449 | NR | 580 | 861 | NR | 710 | 91 | NR | 840 | 2 | NR | 970 | 0 | NR |
| 455 | 274 | NR | 585 | 911 | NR | 715 | 78 | NR | 845 | 2 | NR | 975 | 0 | NR |
| 460 | 204 | NR | 590 | 955 | NR | 720 | 68 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 170 | NR | 595 | 984 | NR | 725 | 57 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 121 | NR | 600 | 998 | NR | 730 | 49 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 111 | NR | 605 | 994 | NR | 735 | 41 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 128 | NR | 610 | 971 | NR | 740 | 34 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 151 | NR | 615 | 928 | NR | 745 | 29 | NR | 875 | 1 | NR | | | |

REPORT NUMBER: SP1-2501-332-8

## Scotopic Flux vs. Wavelength

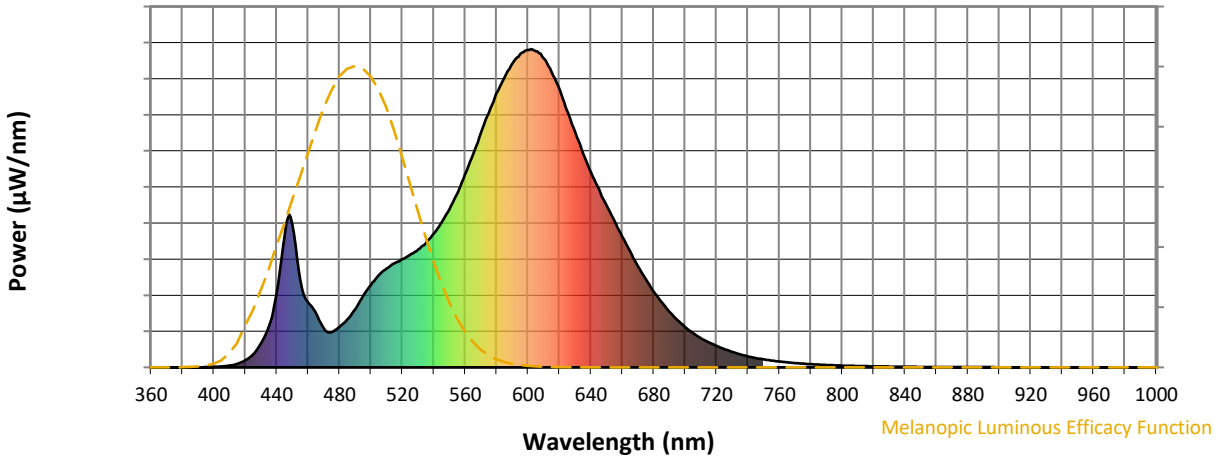



**Scotopic Lumens: NR** **S/P: 1.18**

| 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 | 184 | NR | 620 | 874 | NR | 750 | 25 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 224 | NR | 625 | 806 | NR | 755 | 21 | NR | 885 | 1 | NR |
| 370 | 0 | NR | 500 | 260 | NR | 630 | 739 | NR | 760 | 18 | NR | 890 | 1 | NR |
| 375 | 0 | NR | 505 | 290 | NR | 635 | 674 | NR | 765 | 16 | NR | 895 | 1 | NR |
| 380 | 0 | NR | 510 | 311 | NR | 640 | 614 | NR | 770 | 14 | NR | 900 | 0 | NR |
| 385 | 0 | NR | 515 | 327 | NR | 645 | 561 | NR | 775 | 12 | NR | 905 | 0 | NR |
| 390 | 0 | NR | 520 | 340 | NR | 650 | 509 | NR | 780 | 10 | NR | 910 | 0 | NR |
| 395 | 1 | NR | 525 | 354 | NR | 655 | 459 | NR | 785 | 9 | NR | 915 | 0 | NR |
| 400 | 2 | NR | 530 | 370 | NR | 660 | 411 | NR | 790 | 7 | NR | 920 | 0 | NR |
| 405 | 3 | NR | 535 | 391 | NR | 665 | 364 | NR | 795 | 6 | NR | 925 | 0 | NR |
| 410 | 6 | NR | 540 | 420 | NR | 670 | 318 | NR | 800 | 6 | NR | 930 | 0 | NR |
| 415 | 11 | NR | 545 | 456 | NR | 675 | 276 | NR | 805 | 5 | NR | 935 | 0 | NR |
| 420 | 22 | NR | 550 | 497 | NR | 680 | 239 | NR | 810 | 4 | NR | 940 | 0 | NR |
| 425 | 42 | NR | 555 | 547 | NR | 685 | 205 | NR | 815 | 4 | NR | 945 | 0 | NR |
| 430 | 75 | NR | 560 | 607 | NR | 690 | 175 | NR | 820 | 3 | NR | 950 | 0 | NR |
| 435 | 129 | NR | 565 | 670 | NR | 695 | 149 | NR | 825 | 3 | NR | 955 | 0 | NR |
| 440 | 233 | NR | 570 | 736 | NR | 700 | 127 | NR | 830 | 2 | NR | 960 | 0 | NR |
| 445 | 414 | NR | 575 | 800 | NR | 705 | 108 | NR | 835 | 2 | NR | 965 | 0 | NR |
| 450 | 449 | NR | 580 | 861 | NR | 710 | 91 | NR | 840 | 2 | NR | 970 | 0 | NR |
| 455 | 274 | NR | 585 | 911 | NR | 715 | 78 | NR | 845 | 2 | NR | 975 | 0 | NR |
| 460 | 204 | NR | 590 | 955 | NR | 720 | 68 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 170 | NR | 595 | 984 | NR | 725 | 57 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 121 | NR | 600 | 998 | NR | 730 | 49 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 111 | NR | 605 | 994 | NR | 735 | 41 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 128 | NR | 610 | 971 | NR | 740 | 34 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 151 | NR | 615 | 928 | NR | 745 | 29 | NR | 875 | 1 | NR | | | |

REPORT NUMBER: SP1-2501-332-8

## Melanopic Flux vs. Wavelength




**Melanopic Lumens: NR** **M/P: 2.19**

| 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 | 184 | NR | 620 | 874 | NR | 750 | 25 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 224 | NR | 625 | 806 | NR | 755 | 21 | NR | 885 | 1 | NR |
| 370 | 0 | NR | 500 | 260 | NR | 630 | 739 | NR | 760 | 18 | NR | 890 | 1 | NR |
| 375 | 0 | NR | 505 | 290 | NR | 635 | 674 | NR | 765 | 16 | NR | 895 | 1 | NR |
| 380 | 0 | NR | 510 | 311 | NR | 640 | 614 | NR | 770 | 14 | NR | 900 | 0 | NR |
| 385 | 0 | NR | 515 | 327 | NR | 645 | 561 | NR | 775 | 12 | NR | 905 | 0 | NR |
| 390 | 0 | NR | 520 | 340 | NR | 650 | 509 | NR | 780 | 10 | NR | 910 | 0 | NR |
| 395 | 1 | NR | 525 | 354 | NR | 655 | 459 | NR | 785 | 9 | NR | 915 | 0 | NR |
| 400 | 2 | NR | 530 | 370 | NR | 660 | 411 | NR | 790 | 7 | NR | 920 | 0 | NR |
| 405 | 3 | NR | 535 | 391 | NR | 665 | 364 | NR | 795 | 6 | NR | 925 | 0 | NR |
| 410 | 6 | NR | 540 | 420 | NR | 670 | 318 | NR | 800 | 6 | NR | 930 | 0 | NR |
| 415 | 11 | NR | 545 | 456 | NR | 675 | 276 | NR | 805 | 5 | NR | 935 | 0 | NR |
| 420 | 22 | NR | 550 | 497 | NR | 680 | 239 | NR | 810 | 4 | NR | 940 | 0 | NR |
| 425 | 42 | NR | 555 | 547 | NR | 685 | 205 | NR | 815 | 4 | NR | 945 | 0 | NR |
| 430 | 75 | NR | 560 | 607 | NR | 690 | 175 | NR | 820 | 3 | NR | 950 | 0 | NR |
| 435 | 129 | NR | 565 | 670 | NR | 695 | 149 | NR | 825 | 3 | NR | 955 | 0 | NR |
| 440 | 233 | NR | 570 | 736 | NR | 700 | 127 | NR | 830 | 2 | NR | 960 | 0 | NR |
| 445 | 414 | NR | 575 | 800 | NR | 705 | 108 | NR | 835 | 2 | NR | 965 | 0 | NR |
| 450 | 449 | NR | 580 | 861 | NR | 710 | 91 | NR | 840 | 2 | NR | 970 | 0 | NR |
| 455 | 274 | NR | 585 | 911 | NR | 715 | 78 | NR | 845 | 2 | NR | 975 | 0 | NR |
| 460 | 204 | NR | 590 | 955 | NR | 720 | 68 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 170 | NR | 595 | 984 | NR | 725 | 57 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 121 | NR | 600 | 998 | NR | 730 | 49 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 111 | NR | 605 | 994 | NR | 735 | 41 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 128 | NR | 610 | 971 | NR | 740 | 34 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 151 | NR | 615 | 928 | NR | 745 | 29 | NR | 875 | 1 | NR | | | |

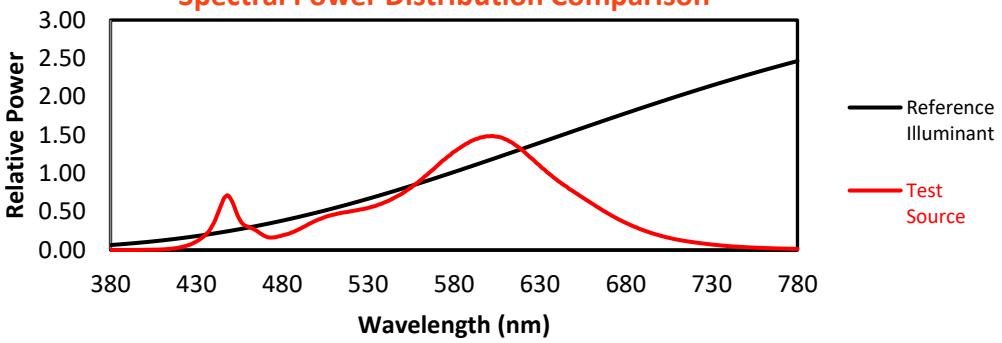
REPORT NUMBER: SP1-2501-332-8

# TM-30-18

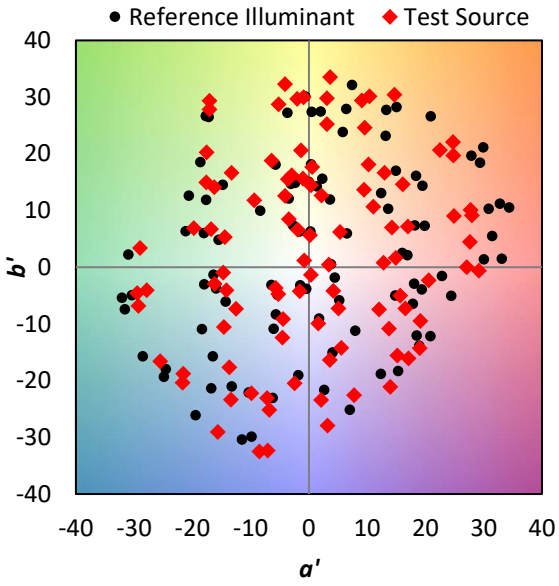
## Summary

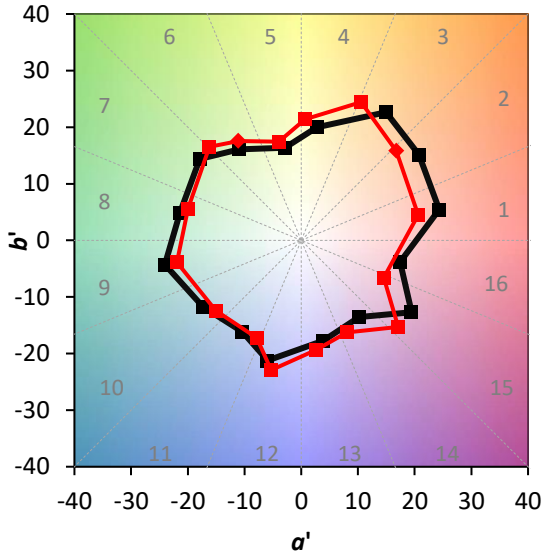
$R_f$ = 79.3
$R_g$ = 95.1
CIE $R_a$ = 75.2
$R_9$ = -22.6

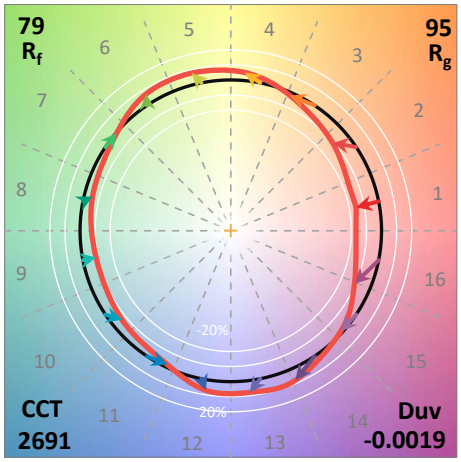
## Spectral Power Distribution Comparison

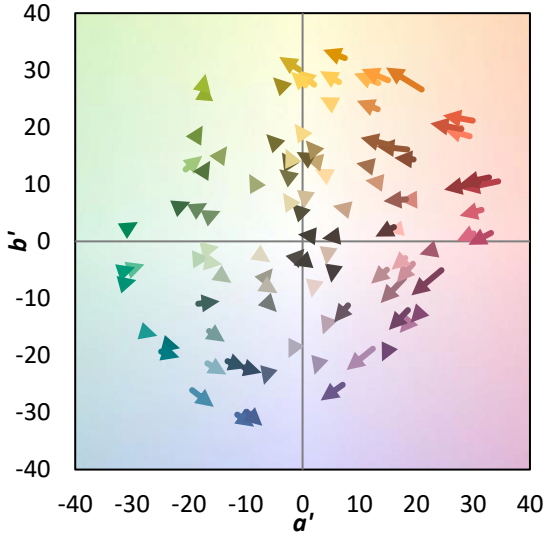



## Color Vector Graphics



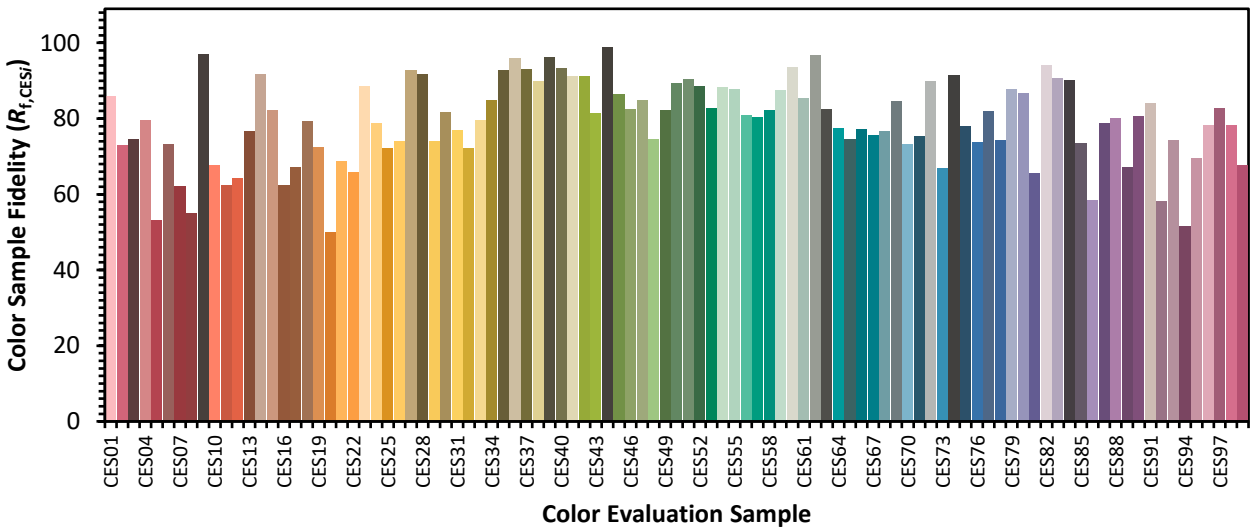



REPORT NUMBER: SP1-2501-332-8

# TM-30-18

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

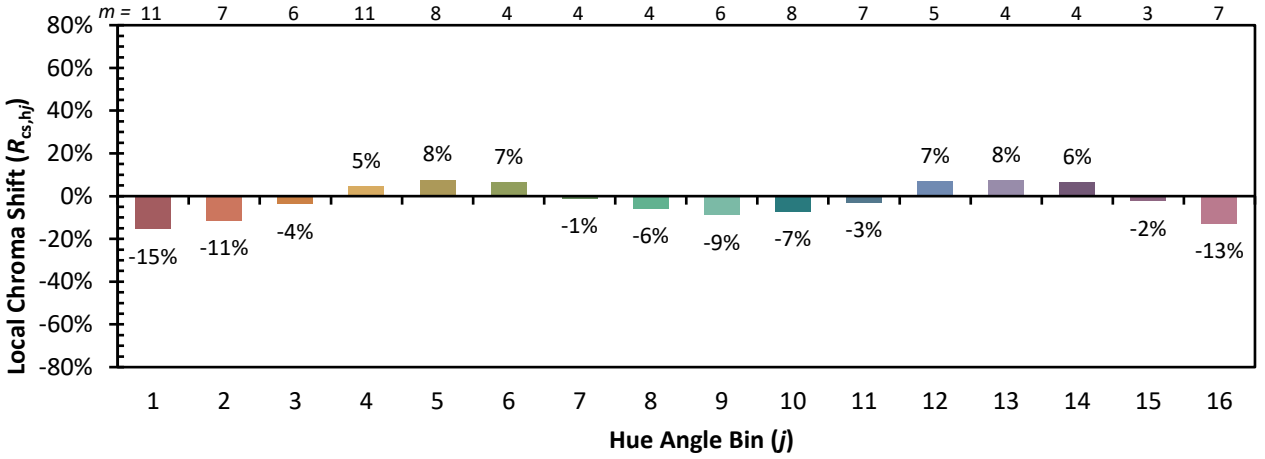
| | | | |
|---|---|---|---|
| CES01 = 87 | CES26 = 74 | CES51 = 90 | CES76 = 74 |
| CES02 = 64 | CES27 = 93 | CES52 = 88 | CES77 = 82 |
| CES03 = 31 | CES28 = 92 | CES53 = 83 | CES78 = 74 |
| CES04 = 71 | CES29 = 74 | CES54 = 88 | CES79 = 88 |
| CES05 = 50 | CES30 = 82 | CES55 = 88 | CES80 = 87 |
| CES06 = 52 | CES31 = 77 | CES56 = 81 | CES81 = 66 |
| CES07 = 42 | CES32 = 72 | CES57 = 80 | CES82 = 94 |
| CES08 = 41 | CES33 = 80 | CES58 = 82 | CES83 = 91 |
| CES09 = 29 | CES34 = 85 | CES59 = 88 | CES84 = 90 |
| CES10 = 77 | CES35 = 93 | CES60 = 94 | CES85 = 73 |
| CES11 = 60 | CES36 = 96 | CES61 = 85 | CES86 = 58 |
| CES12 = 66 | CES37 = 93 | CES62 = 97 | CES87 = 79 |
| CES13 = 44 | CES38 = 90 | CES63 = 83 | CES88 = 80 |
| CES14 = 74 | CES39 = 96 | CES64 = 77 | CES89 = 67 |
| CES15 = 72 | CES40 = 93 | CES65 = 75 | CES90 = 81 |
| CES16 = 48 | CES41 = 91 | CES66 = 77 | CES91 = 84 |
| CES17 = 51 | CES42 = 91 | CES67 = 76 | CES92 = 58 |
| CES18 = 57 | CES43 = 82 | CES68 = 77 | CES93 = 74 |
| CES19 = 73 | CES44 = 99 | CES69 = 85 | CES94 = 52 |
| CES20 = 67 | CES45 = 86 | CES70 = 73 | CES95 = 70 |
| CES21 = 87 | CES46 = 83 | CES71 = 75 | CES96 = 78 |
| CES22 = 80 | CES47 = 85 | CES72 = 90 | CES97 = 83 |
| CES23 = 92 | CES48 = 74 | CES73 = 67 | CES98 = 78 |
| CES24 = 91 | CES49 = 82 | CES74 = 92 | CES99 = 68 |
| CES25 = 73 | CES50 = 89 | CES75 = 78 | |

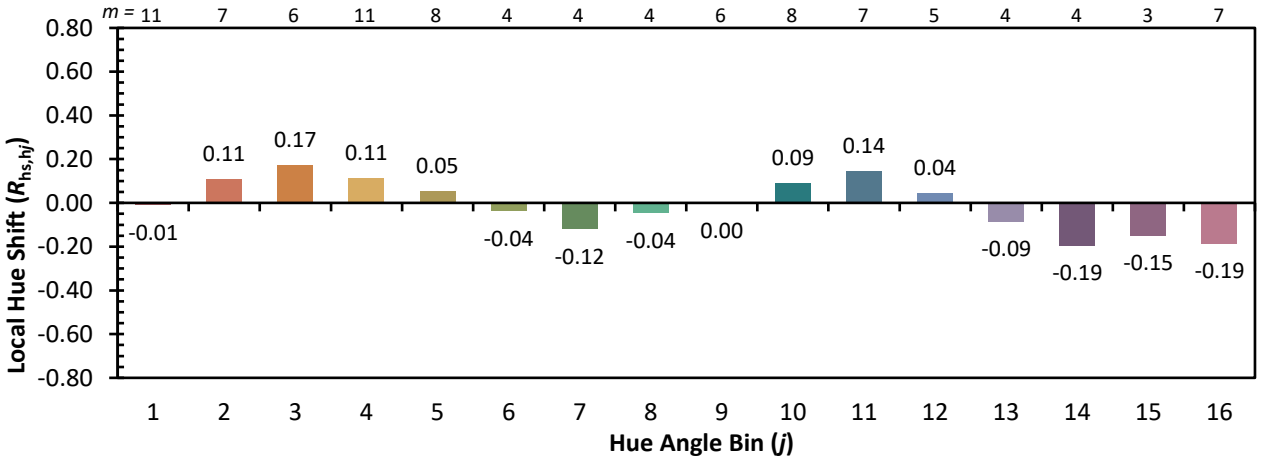


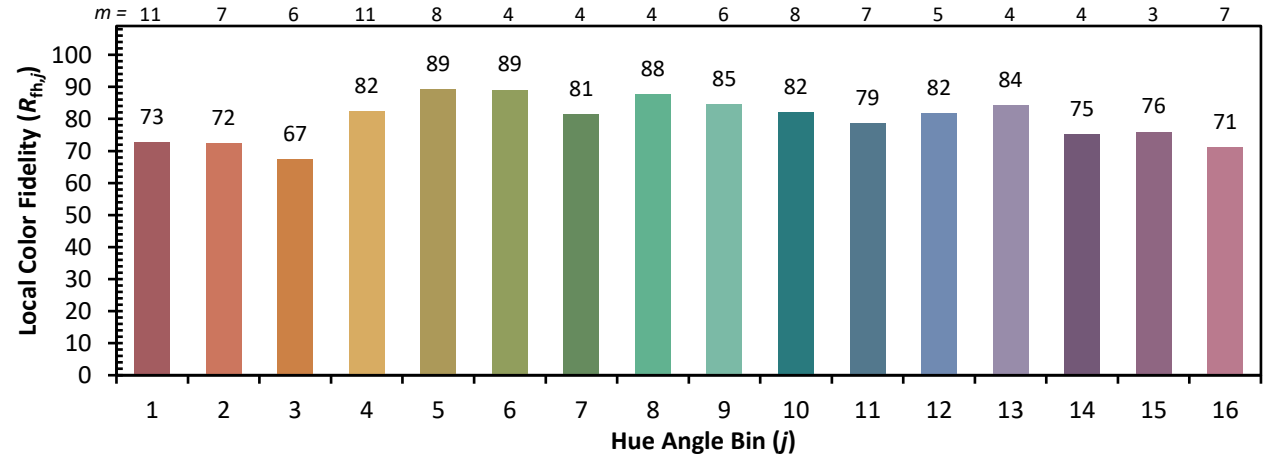
REPORT NUMBER: SP1-2501-332-8

**TM-30-18**

## Color Rendition by Hue-Angle Bin



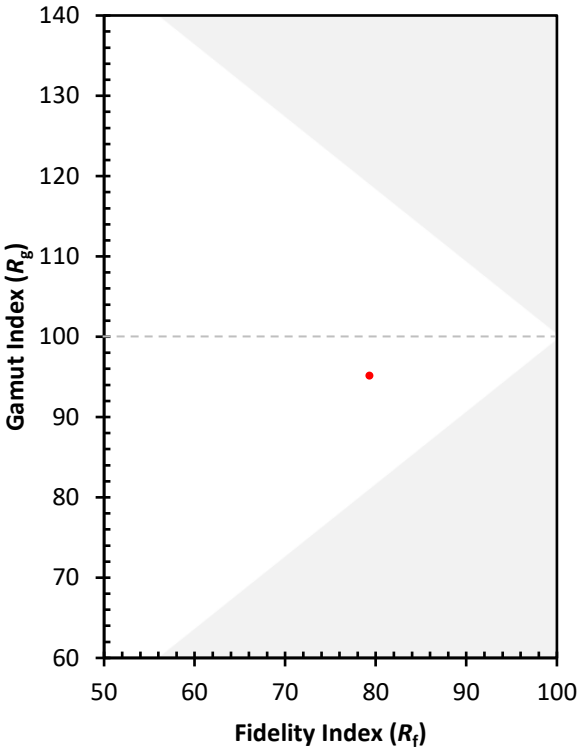



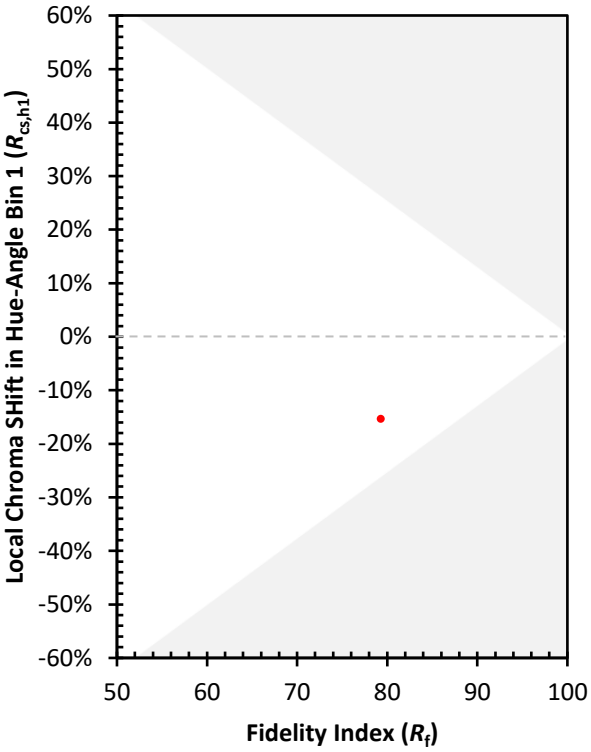



REPORT NUMBER: SP1-2501-332-8

# TM-30-18

## Measure Comparisons




(END OF REPORT)