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: P1046575

Luminaire Tested: **FFX-CLB-40-740-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: | P1046575 |
| Test Lab: | INNOVATION CENTER(G3) |
| Issue Date: | 07/01/2025 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS (FORMERLY EATON) |
| Product Line: | STREETWORKS |
| Catalog Number: | FFX-CLB-40-740-U-FR-T3-UPLR-HSS |
| Description: | FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS, UPLIGHT REFLECTOR AND HOUSESIDE SHIELD |
| Light Source: | (4) 4000K CCT, 70 CRI LEDS |
| Ballast/Driver: | ELECTRONIC DRIVER |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 5855.3 lumens |
| Efficiency: | N/A |
| Efficacy: | 148.6 lumens/watt |
| Luminous Opening: | Vertical Cylinder (Dia: 1.17' x H: 1.67') |
| IES Classification: | Type III - Short |
| BUG Rating: | B1 - U4 - G3 |

| | |
|---|---|
| Input Watts (W): | 39.4 |
| Input Voltage (V): | 120 |
| Input Current (Ain): | NR |
| Voltage Rise (V): | NR |
| Power Factor: | 0.99 |
| Total Harmonic Distortion (THDi): | 8.2% |
| Frequency (hertz): | 60 |
| Stabilization Time: | NR |
| Operation Time: | NR |
| Ambient Temperature (°C): | NR |
| Test Distance: | 28.75 FT |

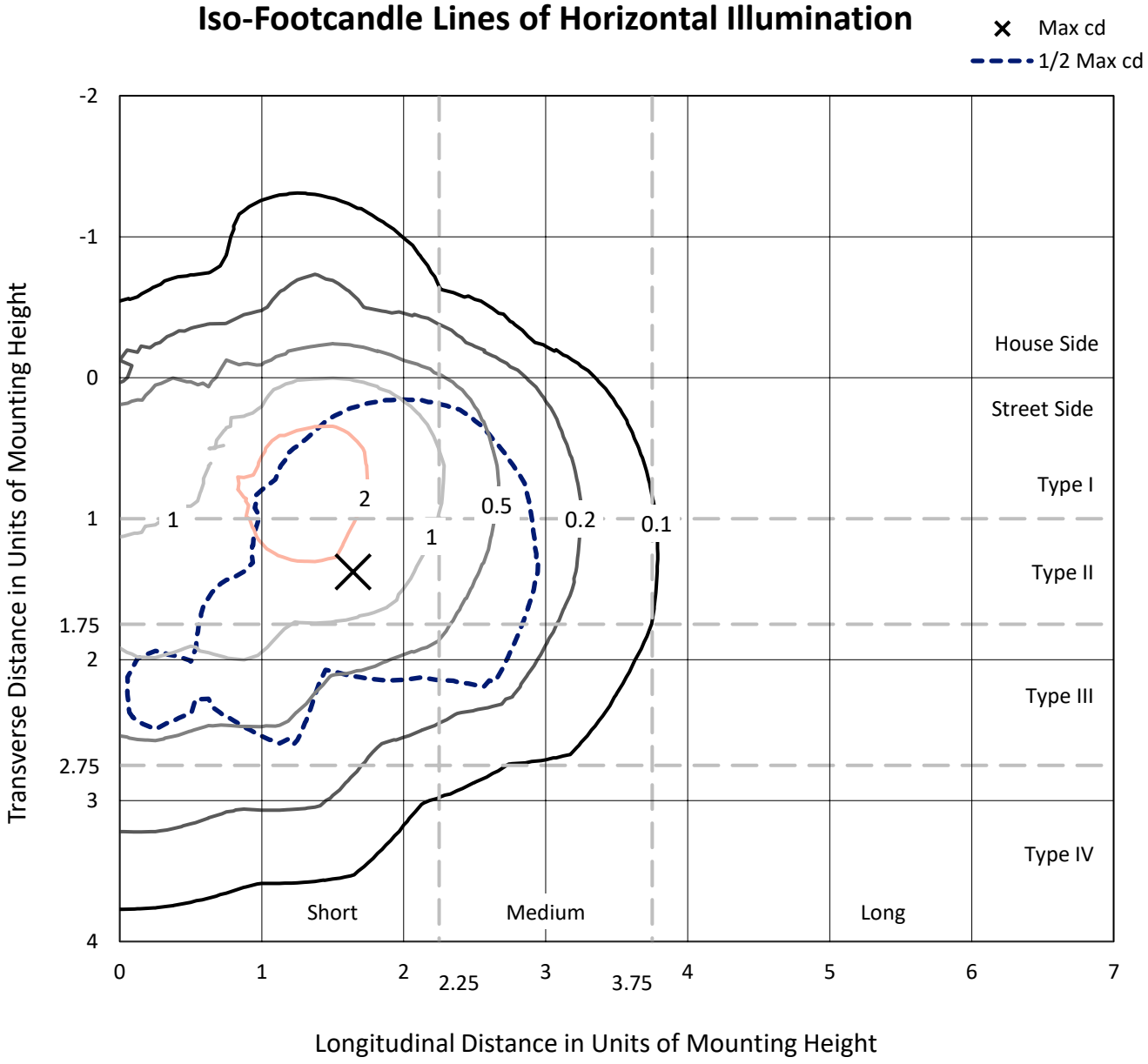


Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P1046575
CATALOG NUMBER: FFX-CLB-40-740-U-FR-T3-UPLR-HSS

## Iso-Footcandle Lines of Horizontal Illumination



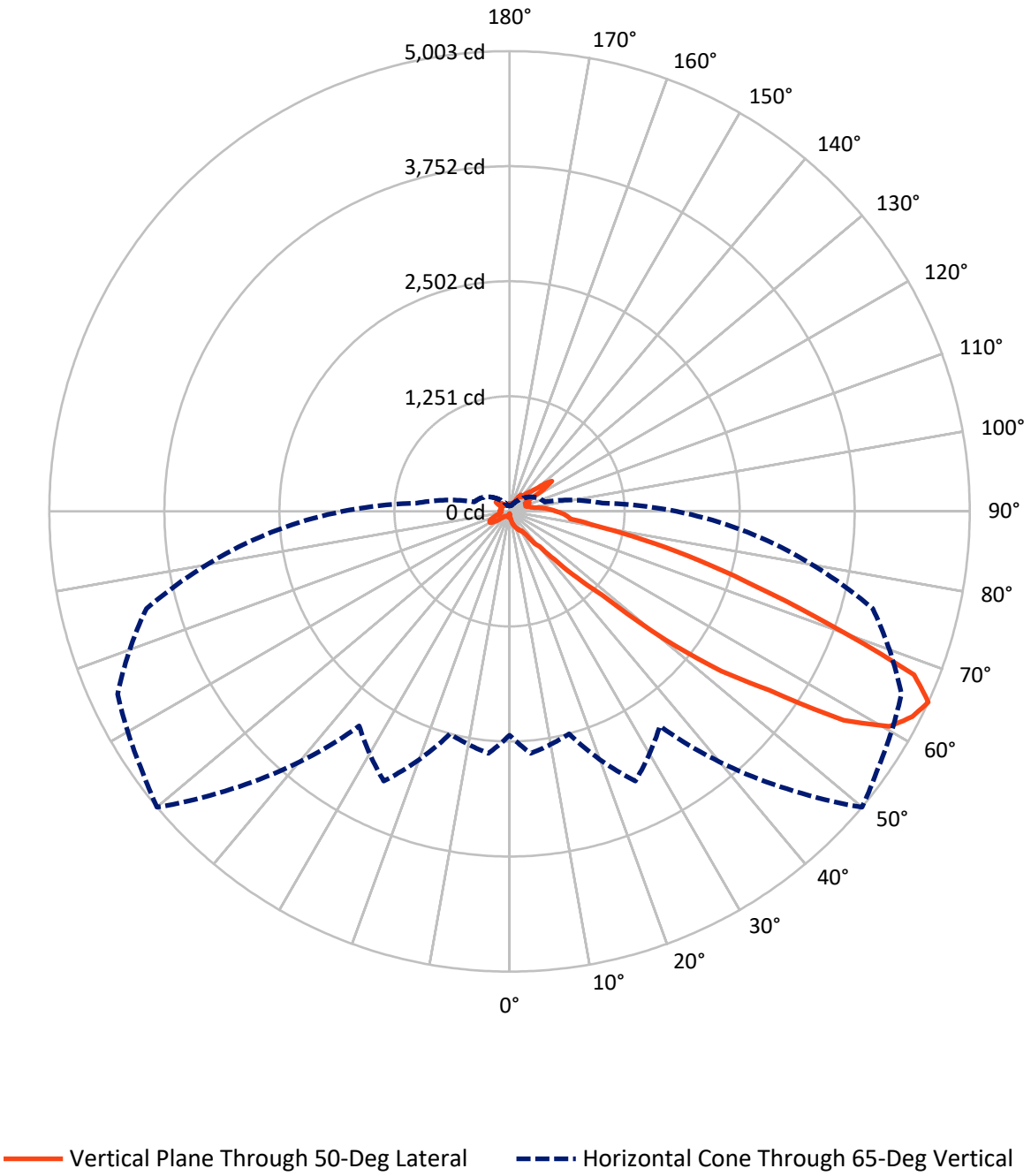

Based on 15 foot mounting height. Maximum calculated value = 2.8 fc
Type III - Short - N/A

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

Scaled Data Report

REPORT NUMBER: P1046575
CATALOG NUMBER: FFX-CLB-40-740-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

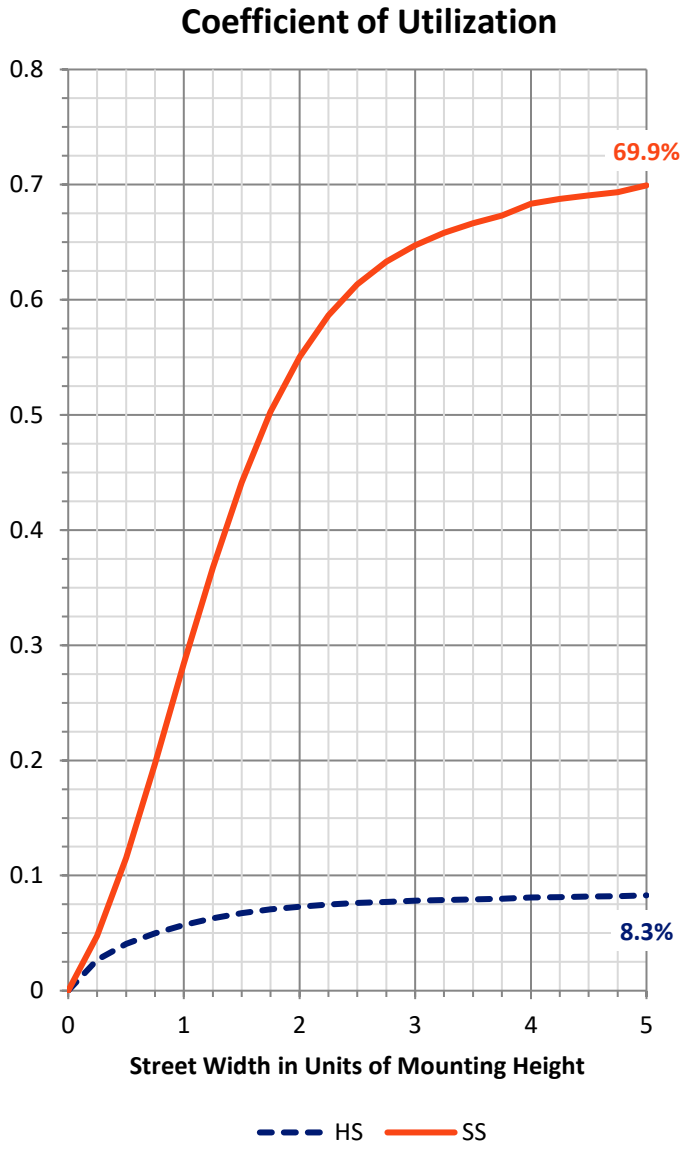
REPORT NUMBER: P1046575
CATALOG NUMBER: FFX-CLB-40-740-U-FR-T3-UPLR-HSS

**FLUX DISTRIBUTION:**

| | | Downward | Upward | Total |
|---|---|---|---|---|
| **House Side** | Lumens | 513.6 | 338.1 | 851.7 |
| | % Fixture | 8.8 | 5.8 | 14.5 |
| **Street Side** | Lumens | 4235.5 | 768.0 | 5003.6 |
| | % Fixture | 72.3 | 13.1 | 85.5 |
| **Total** | Lumens | 4749.1 | 1106.1 | 5855.3 |
| | % Fixture | 81.1 | 18.9 | 100.0 |

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 5.6 | 0.1 |
| 10°-20° | 30.6 | 0.5 |
| 20°-30° | 65.2 | 1.1 |
| 30°-40° | 130.3 | 2.2 |
| 40°-50° | 341.3 | 5.8 |
| 50°-60° | 1130.8 | 19.3 |
| 60°-70° | 1783.4 | 30.5 |
| 70°-80° | 931.2 | 15.9 |
| 80°-90° | 330.7 | 5.6 |
| 90°-100° | 213.4 | 3.6 |
| 100°-110° | 144.0 | 2.5 |
| 110°-120° | 164.3 | 2.8 |
| 120°-130° | 272.2 | 4.6 |
| 130°-140° | 155.5 | 2.7 |
| 140°-150° | 85.1 | 1.5 |
| 150°-160° | 41.7 | 0.7 |
| 160°-170° | 22.1 | 0.4 |
| 170°-180° | 7.9 | 0.1 |
| 0°-90° | 4749.1 | 81.1 |
| 0°-180° | 5855.3 | 100.0 |



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

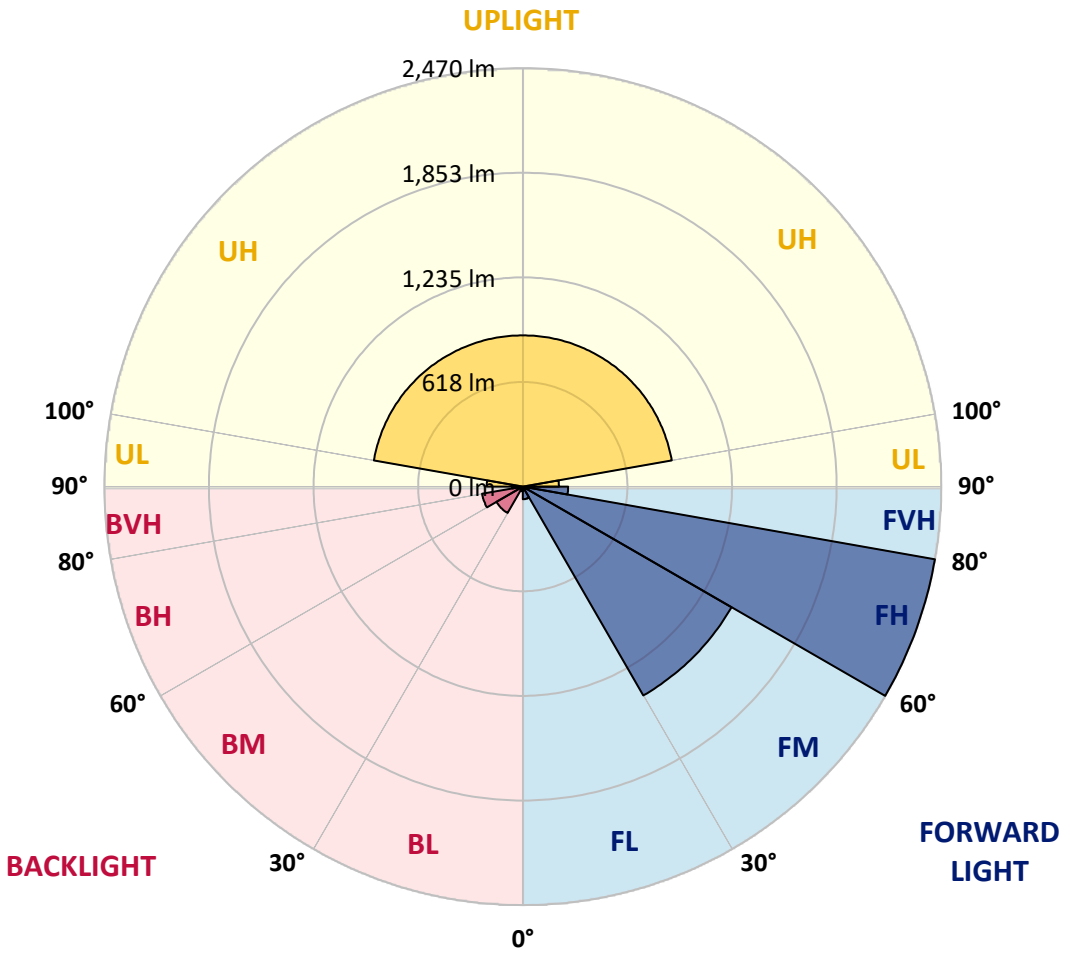
Scaled Data Report

REPORT NUMBER: P1046575
CATALOG NUMBER: FFX-CLB-40-740-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°) | 74.5 | 1.3 | | | |
| FM | (30°-60°) | 1422.9 | 24.3 | | | |
| FH | (60°-80°) | 2470.4 | 42.2 | | | G2/5000 |
| FVH | (80°-90°) | 267.7 | 4.6 | | | G3/500 |
| BL | (0°-30°) | 26.9 | 0.5 | B0/110 | | |
| BM | (30°-60°) | 179.5 | 3.1 | B0/220 | | |
| BH | (60°-80°) | 244.2 | 4.2 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 62.9 | 1.1 | | | G1/100 |
| UL | (90°-100°) | 213.4 | 3.6 | | U3/500 | |
| UH | (100°-180°) | 892.7 | 15.2 | | U4/1000 | |

**BUG Rating: B1-U4-G3**
Type III Short



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

Scaled Data Report

REPORT NUMBER: P1046575
CATALOG NUMBER: FFX-CLB-40-740-U-FR-T3-UPLR-HSS

**CANDELA DISTRIBUTION (FULL):**

| | 0° | 5° | 15° | 25° | 35° | 45° | 50° | 55° | 65° | 75° | 85° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 32.7 | 32.7 | 32.7 | 32.7 | 32.7 | 32.7 | *32.7* | 32.7 | 32.7 | 32.7 | 32.7 |
| 2.5° | 39.7 | 39.3 | 40.1 | 41.4 | 41.0 | 39.7 | *38.9* | 38.5 | 37.2 | 36.8 | 35.6 |
| 5° | 58.8 | 58.3 | 57.5 | 58.3 | 58.8 | 57.1 | *56.3* | 54.2 | 52.1 | 48.4 | 46.3 |
| 7.5° | 82.3 | 82.8 | 83.6 | 81.5 | 80.7 | 77.0 | *76.1* | 74.1 | 70.8 | 66.2 | 65.0 |
| 10° | 111.7 | 112.1 | 114.2 | 110.9 | 105.5 | 101.0 | *100.1* | 101.0 | 104.7 | 93.1 | 86.1 |
| 12.5° | 140.7 | 139.5 | 145.7 | 144.0 | 137.0 | 130.3 | *127.0* | 127.5 | 125.8 | 117.1 | 105.5 |
| 15° | 167.6 | 167.6 | 172.1 | 173.8 | 166.4 | 151.0 | *146.1* | 144.8 | 144.0 | 134.9 | 118.8 |
| 17.5° | 184.6 | 185.4 | 185.8 | 185.8 | 183.3 | 170.5 | *164.7* | 162.2 | 154.8 | 146.5 | 131.6 |
| 20° | 198.6 | 199.0 | 195.3 | 195.7 | 199.5 | 188.3 | *182.5* | 177.5 | 169.7 | 161.0 | 142.4 |
| 22.5° | 218.1 | 217.2 | 211.5 | 209.0 | 217.2 | 207.7 | *201.5* | 196.1 | 186.6 | 176.7 | 159.7 |
| 25° | 239.6 | 238.8 | 233.0 | 226.8 | 232.6 | 223.9 | *217.2* | 212.3 | 203.6 | 197.0 | 162.2 |
| 27.5° | 260.3 | 259.5 | 249.5 | 248.7 | 243.7 | 239.6 | *232.6* | 231.3 | 224.7 | 205.2 | 161.0 |
| 30° | 275.6 | 274.8 | 264.0 | 264.4 | 251.6 | 254.9 | *244.6* | 243.7 | 235.9 | 210.2 | 163.9 |
| 32.5° | 281.4 | 282.2 | 277.7 | 275.6 | 258.2 | 271.5 | *261.9* | 258.6 | 256.6 | 223.5 | 178.4 |
| 35° | 302.5 | 309.1 | 316.2 | 318.6 | 302.9 | 327.7 | *308.3* | 305.8 | 310.8 | 271.9 | 222.6 |
| 37.5° | 465.1 | 461.8 | 435.7 | 398.9 | 390.6 | 445.3 | *442.4* | 444.4 | 441.1 | 386.9 | 294.6 |
| 40° | 465.5 | 467.6 | 451.1 | 428.7 | 402.6 | 458.5 | *501.1* | 463.5 | 518.5 | 421.7 | 323.2 |
| 42.5° | 489.1 | 482.5 | 521.8 | 530.5 | 501.5 | 584.7 | *710.5* | 568.6 | 687.3 | 514.0 | 439.9 |
| 45° | 578.9 | 578.9 | 586.0 | 590.1 | 579.7 | 788.7 | *1032.0* | 793.3 | 918.7 | 643.1 | 528.0 |
| 47.5° | 671.6 | 663.7 | 703.9 | 771.3 | 811.5 | 1015.1 | *1362.3* | 1048.2 | 1246.0 | 864.4 | 732.9 |
| 50° | 936.5 | 947.6 | 1024.6 | 1103.2 | 1163.2 | 1511.2 | *2193.2* | 1795.9 | 2035.1 | 1329.2 | 1118.9 |
| 52.5° | 1142.1 | 1207.5 | 1266.7 | 1487.2 | 1514.1 | 2064.9 | *2883.0* | 2409.6 | 2607.4 | 1867.5 | 1385.4 |
| 55° | 1354.4 | 1483.9 | 1519.1 | 1908.5 | 1939.1 | 2653.3 | *3432.1* | 3052.3 | 3108.1 | 2462.2 | 1644.9 |
| 57.5° | 1743.4 | 1924.2 | 1936.2 | 2351.7 | 2350.4 | 3418.5 | *4285.0* | 3974.6 | 3932.4 | 3135.4 | 2042.6 |
| 60° | 2078.1 | 2284.2 | 2210.6 | 2786.2 | 2657.1 | 3982.5 | *4747.2* | 4434.4 | 4342.1 | 3675.5 | 2322.3 |
| 62.5° | 2281.3 | 2482.4 | 2391.8 | 3072.5 | 2852.8 | 4252.3 | *4914.4* | 4731.9 | 4574.7 | 4002.4 | 2550.3 |
| 65° | *2432.8* | *2640.1* | *2504.4* | *3235.2* | *2849.1* | *4265.5* | *5003.0* | *4885.0* | *4700.9* | *4087.6* | *2600.4* |
| 67.5° | 2412.9 | 2615.3 | 2452.6 | 3170.6 | 2650.0 | 3884.4 | *4742.7* | 4595.8 | 4368.2 | 3758.6 | 2432.0 |
| 70° | 2092.2 | 2214.3 | 2035.5 | 2700.5 | 2118.7 | 3004.7 | *3694.5* | 3609.7 | 3390.8 | 2877.2 | 1881.2 |
| 72.5° | 1761.2 | 1791.4 | 1623.8 | 2113.7 | 1651.9 | 2189.1 | *2807.3* | 2716.7 | 2573.1 | 2135.3 | 1421.8 |
| 75° | 1360.2 | 1360.2 | 1264.2 | 1584.9 | 1227.4 | 1553.4 | *2124.9* | 2101.7 | 2013.2 | 1602.3 | 1079.6 |
| 77.5° | 918.7 | 870.7 | 856.2 | 1070.5 | 847.9 | 1025.0 | *1479.4* | 1534.0 | 1510.8 | 1147.1 | 787.1 |
| 80° | 535.5 | 547.1 | 526.8 | 660.9 | 557.8 | 670.4 | *949.3* | 1021.3 | 1019.2 | 761.8 | 516.4 |
| 82.5° | 417.5 | 425.8 | 404.7 | 475.9 | 425.8 | 527.6 | *665.4* | 660.9 | 676.6 | 552.0 | 388.6 |
| 85° | 411.3 | 417.5 | 395.6 | 439.9 | 408.8 | 501.1 | *625.3* | 624.0 | 620.7 | 511.1 | 365.0 |
| 87.5° | 374.1 | 382.4 | 363.3 | 398.9 | 370.8 | 457.7 | *568.2* | 574.8 | 565.3 | 479.2 | 350.9 |
| 90° | 312.8 | 321.5 | 313.3 | 354.6 | 325.7 | 394.8 | *494.1* | 499.1 | 490.8 | 427.1 | 316.6 |
| 92.5° | 281.4 | 287.2 | 277.3 | 313.3 | 282.6 | 346.8 | *436.6* | 439.5 | 426.6 | 375.7 | 273.9 |
| 95° | 259.5 | 265.3 | 252.8 | 279.3 | 249.5 | 305.8 | *371.6* | 381.1 | 362.1 | 317.0 | 233.4 |
| 97.5° | 215.6 | 211.9 | 206.9 | 229.7 | 206.5 | 240.8 | *284.3* | 291.3 | 279.3 | 245.8 | 185.8 |
| 100° | 186.6 | 187.9 | 185.8 | 202.4 | 181.2 | 206.9 | *240.8* | 243.7 | 238.8 | 214.4 | 168.0 |
| 102.5° | 180.8 | 181.2 | 185.0 | 196.1 | 171.7 | 190.4 | *219.3* | 221.0 | 219.7 | 196.6 | 155.2 |
| 105° | 179.2 | 178.8 | 180.8 | 192.8 | 167.6 | 174.2 | *201.9* | 202.8 | 198.6 | 182.9 | 145.2 |
| 107.5° | 169.2 | 170.5 | 170.1 | 180.8 | 164.7 | 165.5 | *183.3* | 182.9 | 182.1 | 167.6 | 137.4 |
| 110° | 194.1 | 192.0 | 183.3 | 183.7 | 168.0 | 172.1 | *189.9* | 187.9 | 183.7 | 175.0 | 149.8 |

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

Scaled Data Report

REPORT NUMBER: P1046575
CATALOG NUMBER: FFX-CLB-40-740-U-FR-T3-UPLR-HSS

**CANDELA DISTRIBUTION (continued):**

| | 0° | 5° | 15° | 25° | 35° | 45° | 50° | 55° | 65° | 75° | 85° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 112.5° | 276.0 | 270.2 | 260.3 | 227.6 | 211.0 | 222.6 | *234.6* | 236.7 | 232.1 | 224.3 | 189.5 |
| 115° | 306.2 | 305.4 | 294.2 | 272.7 | 218.1 | 222.2 | *230.1* | 233.4 | 238.8 | 223.5 | 194.1 |
| 117.5° | 251.2 | 264.8 | 247.5 | 250.4 | 219.3 | 192.8 | *191.6* | 185.0 | 187.9 | 186.2 | 179.6 |
| 120° | 317.0 | 319.5 | 284.3 | 277.7 | 256.1 | 264.8 | *265.3* | 266.1 | 257.4 | 215.6 | 189.9 |
| 122.5° | 445.7 | 445.7 | 455.6 | 473.8 | 462.6 | 446.9 | *437.8* | 428.7 | 416.7 | 377.0 | 322.4 |
| 125° | 565.3 | 564.4 | 559.1 | 568.2 | 557.0 | 563.2 | *566.1* | 568.6 | 555.7 | 507.3 | 432.8 |
| 127.5° | 455.6 | 467.2 | 486.6 | 535.9 | 504.8 | 496.2 | *487.9* | 493.7 | 484.2 | 475.1 | 428.7 |
| 130° | 353.0 | 354.2 | 386.1 | 417.5 | 415.1 | 387.3 | *377.8* | 361.3 | 365.0 | 363.7 | 336.0 |
| 132.5° | 301.7 | 303.3 | 321.9 | 339.7 | 354.6 | 334.4 | *315.7* | 307.0 | 309.9 | 307.9 | 290.1 |
| 135° | 263.6 | 263.6 | 257.0 | 254.9 | 267.3 | 285.9 | *283.9* | 272.7 | 267.3 | 261.1 | 234.6 |
| 137.5° | 228.0 | 227.2 | 215.2 | 208.6 | 218.5 | 242.5 | *244.1* | 244.1 | 238.8 | 223.9 | 204.8 |
| 140° | 187.9 | 186.6 | 180.4 | 181.7 | 184.1 | 200.3 | *201.5* | 205.2 | 204.4 | 192.4 | 169.2 |
| 142.5° | 142.4 | 142.8 | 151.9 | 162.2 | 168.0 | 202.8 | *197.4* | 193.2 | 206.5 | 205.7 | 147.7 |
| 145° | 189.9 | 185.8 | 185.8 | 181.2 | 194.9 | 229.3 | *218.5* | 221.8 | 239.2 | 223.0 | 159.7 |
| 147.5° | 174.2 | 176.3 | 176.7 | 175.9 | 193.2 | 195.3 | *187.5* | 187.9 | 194.1 | 194.1 | 163.5 |
| 150° | 134.9 | 131.6 | 132.4 | 134.1 | 152.3 | 151.0 | *144.0* | 143.6 | 148.6 | 147.3 | 133.7 |
| 152.5° | 106.8 | 106.3 | 105.9 | 107.6 | 122.5 | 116.3 | *113.4* | 112.1 | 111.3 | 110.1 | 106.8 |
| 155° | 100.6 | 100.1 | 99.3 | 101.4 | 110.1 | 107.2 | *105.5* | 105.5 | 103.5 | 101.4 | 99.3 |
| 157.5° | 89.4 | 89.0 | 89.4 | 93.5 | 98.5 | 95.2 | *94.8* | 94.3 | 93.5 | 91.0 | 90.2 |
| 160° | 83.6 | 83.2 | 84.0 | 87.3 | 89.4 | 86.5 | *85.7* | 86.1 | 85.7 | 84.4 | 86.1 |
| 162.5° | 79.0 | 79.0 | 79.0 | 81.1 | 81.9 | 79.9 | *79.5* | 79.9 | 80.3 | 80.3 | 82.3 |
| 165° | 76.6 | 76.6 | 77.0 | 78.2 | 78.2 | 77.4 | *76.6* | 76.6 | 78.6 | 79.5 | 81.1 |
| 167.5° | 78.2 | 78.2 | 78.6 | 79.0 | 79.0 | 78.2 | *78.2* | 78.6 | 79.9 | 80.7 | 80.7 |
| 170° | 80.7 | 80.7 | 80.7 | 81.1 | 80.7 | 79.5 | *79.5* | 79.5 | 79.9 | 79.9 | 80.3 |
| 172.5° | 83.6 | 83.6 | 83.6 | 83.2 | 82.3 | 81.9 | *81.1* | 81.1 | 81.5 | 81.1 | 81.5 |
| 175° | 87.7 | 87.3 | 87.3 | 86.9 | 86.5 | 86.1 | *85.7* | 85.2 | 85.2 | 84.0 | 84.0 |
| 177.5° | 89.8 | 89.4 | 89.8 | 89.8 | 89.4 | 88.6 | *87.7* | 87.7 | 87.3 | 86.5 | 86.1 |
| 180° | 86.5 | 86.5 | 86.5 | 86.5 | 86.5 | 86.5 | *86.5* | 86.5 | 86.5 | 86.5 | 86.5 |

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

Scaled Data Report

REPORT NUMBER: P1046575
CATALOG NUMBER: FFX-CLB-40-740-U-FR-T3-UPLR-HSS

**CANDELA DISTRIBUTION (continued):**

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 32.7 | 32.7 | 32.7 | 32.7 | 32.7 | 32.7 | 32.7 | 32.7 | 32.7 | 32.7 | 32.7 |
| 2.5° | 34.8 | 33.5 | 30.2 | 27.3 | 25.2 | 24.4 | 24.4 | 23.2 | 21.5 | 20.3 | 19.9 |
| 5° | 45.9 | 45.1 | 43.9 | 42.2 | 38.5 | 33.5 | 29.4 | 27.7 | 26.9 | 26.5 | 26.1 |
| 7.5° | 65.0 | 65.8 | 67.5 | 67.0 | 60.0 | 46.8 | 38.9 | 38.5 | 43.0 | 48.0 | 49.7 |
| 10° | 84.0 | 83.2 | 88.6 | 93.1 | 75.7 | 53.0 | 40.1 | 38.9 | 45.1 | 53.8 | 55.0 |
| 12.5° | 100.6 | 96.4 | 93.5 | 88.6 | 72.4 | 53.0 | 43.0 | 40.6 | 43.4 | 50.1 | 50.1 |
| 15° | 113.0 | 107.6 | 95.6 | 84.0 | 69.5 | 54.6 | 44.7 | 43.0 | 43.0 | 41.0 | 41.4 |
| 17.5° | 122.5 | 112.6 | 95.2 | 80.3 | 64.6 | 52.1 | 44.3 | 39.7 | 37.2 | 33.9 | 33.1 |
| 20° | 133.7 | 126.6 | 103.5 | 82.8 | 63.7 | 50.5 | 43.0 | 37.7 | 34.8 | 33.5 | 33.1 |
| 22.5° | 145.7 | 131.2 | 108.8 | 83.6 | 63.7 | 51.3 | 42.6 | 36.8 | 34.3 | 33.5 | 33.5 |
| 25° | 146.9 | 134.5 | 111.7 | 86.9 | 65.8 | 53.0 | 43.4 | 37.2 | 34.8 | 33.9 | 33.5 |
| 27.5° | 145.2 | 136.6 | 116.7 | 90.6 | 67.9 | 54.6 | 45.1 | 38.1 | 34.8 | 33.5 | 33.1 |
| 30° | 151.5 | 144.4 | 122.5 | 93.1 | 69.9 | 56.7 | 46.8 | 39.7 | 35.6 | 33.1 | 32.7 |
| 32.5° | 167.2 | 157.2 | 130.3 | 94.8 | 70.8 | 57.1 | 48.4 | 41.4 | 36.4 | 33.5 | 33.1 |
| 35° | 208.6 | 199.5 | 160.6 | 100.6 | 70.8 | 57.9 | 49.7 | 42.6 | 37.2 | 33.9 | 33.5 |
| 37.5° | 268.6 | 251.6 | 197.4 | 120.0 | 71.6 | 59.6 | 50.9 | 44.3 | 38.5 | 34.8 | 33.9 |
| 40° | 284.7 | 240.4 | 167.6 | 107.6 | 73.2 | 61.2 | 53.0 | 45.9 | 40.1 | 36.0 | 35.6 |
| 42.5° | 369.5 | 307.5 | 206.9 | 113.8 | 78.2 | 62.5 | 54.2 | 47.6 | 41.4 | 37.2 | 36.4 |
| 45° | 395.6 | 307.9 | 210.2 | 131.6 | 91.9 | 67.9 | 56.3 | 48.8 | 42.2 | 38.1 | 37.7 |
| 47.5° | 518.5 | 381.9 | 214.4 | 141.1 | 103.0 | 78.2 | 61.2 | 50.5 | 43.0 | 38.9 | 38.5 |
| 50° | 760.2 | 538.8 | 266.1 | 176.3 | 127.5 | 95.6 | 72.0 | 53.8 | 43.9 | 40.1 | 39.3 |
| 52.5° | 948.5 | 646.4 | 288.4 | 215.6 | 169.2 | 126.2 | 90.6 | 62.5 | 46.3 | 41.0 | 40.1 |
| 55° | 1156.2 | 794.1 | 327.7 | 259.9 | 205.2 | 158.1 | 115.0 | 75.3 | 51.3 | 42.2 | 41.4 |
| 57.5° | 1442.1 | 948.0 | 384.8 | 306.6 | 249.1 | 184.6 | 131.2 | 88.1 | 57.9 | 45.1 | 43.4 |
| 60° | 1615.9 | 1013.4 | 393.9 | 331.9 | 275.2 | 205.7 | 138.2 | 93.5 | 65.0 | 49.2 | 46.8 |
| 62.5° | 1782.3 | 1058.5 | 396.4 | 341.8 | 281.4 | 209.8 | 139.0 | 91.0 | 67.5 | 55.0 | 51.7 |
| 65° | *1816.2* | *1013.8* | *397.3* | *343.9* | *273.9* | *199.0* | *134.5* | *88.6* | *64.6* | *60.0* | *60.4* |
| 67.5° | 1701.6 | 900.4 | 368.3 | 329.0 | 254.1 | 177.5 | 120.8 | 84.8 | 63.7 | 59.2 | 60.4 |
| 70° | 1337.8 | 705.5 | 336.4 | 305.0 | 215.6 | 151.0 | 107.6 | 79.9 | 63.7 | 57.1 | 55.9 |
| 72.5° | 1038.7 | 602.9 | 344.7 | 289.7 | 184.6 | 134.9 | 97.2 | 74.5 | 61.7 | 56.7 | 55.9 |
| 75° | 806.1 | 503.2 | 339.7 | 254.9 | 150.6 | 115.9 | 87.3 | 68.3 | 58.8 | 55.9 | 55.5 |
| 77.5° | 589.3 | 396.8 | 281.0 | 195.3 | 125.0 | 98.5 | 77.0 | 64.1 | 57.1 | 54.6 | 54.2 |
| 80° | 379.0 | 277.7 | 195.7 | 156.0 | 109.7 | 89.8 | 72.0 | 61.2 | 56.3 | 54.6 | 54.2 |
| 82.5° | 319.5 | 252.0 | 176.3 | 147.7 | 105.9 | 91.5 | 75.3 | 64.1 | 59.2 | 57.5 | 57.1 |
| 85° | 307.5 | 259.5 | 181.2 | 153.9 | 101.4 | 87.3 | 73.7 | 64.1 | 59.6 | 57.5 | 57.1 |
| 87.5° | 292.1 | 234.6 | 178.8 | 141.5 | 97.7 | 84.0 | 72.4 | 65.8 | 61.2 | 60.0 | 59.6 |
| 90° | 264.4 | 206.9 | 163.9 | 131.6 | 103.0 | 89.4 | 79.9 | 72.8 | 68.3 | 65.4 | 64.6 |
| 92.5° | 223.0 | 166.4 | 140.7 | 129.9 | 113.0 | 101.4 | 91.9 | 85.7 | 80.7 | 77.8 | 76.6 |
| 95° | 187.9 | 145.2 | 122.5 | 115.0 | 99.7 | 91.0 | 81.9 | 77.4 | 73.7 | 71.2 | 71.2 |
| 97.5° | 153.1 | 124.6 | 113.8 | 108.0 | 95.6 | 86.1 | 78.6 | 74.1 | 72.8 | 72.0 | 71.6 |
| 100° | 144.0 | 122.1 | 114.6 | 109.7 | 99.7 | 91.0 | 85.2 | 81.1 | 80.7 | 80.3 | 80.3 |
| 102.5° | 133.7 | 115.5 | 107.2 | 102.2 | 92.3 | 84.8 | 80.7 | 77.4 | 76.1 | 74.9 | 73.7 |
| 105° | 126.2 | 109.2 | 103.0 | 96.4 | 88.6 | 81.1 | 77.0 | 72.0 | 71.2 | 70.8 | 70.8 |
| 107.5° | 122.5 | 108.4 | 105.1 | 94.8 | 87.3 | 84.0 | 79.0 | 72.8 | 71.6 | 69.9 | 69.9 |
| 110° | 135.3 | 120.4 | 110.9 | 98.1 | 90.2 | 87.3 | 86.1 | 80.7 | 76.6 | 71.6 | 71.2 |

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

Scaled Data Report

REPORT NUMBER: P1046575
CATALOG NUMBER: FFX-CLB-40-740-U-FR-T3-UPLR-HSS

**CANDELA DISTRIBUTION (continued):**

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 112.5° | 167.6 | 147.3 | 136.1 | 117.1 | 101.0 | 93.9 | 88.6 | 82.8 | 80.3 | 77.0 | 75.7 |
| 115° | 180.4 | 159.7 | 145.7 | 126.6 | 108.0 | 95.6 | 87.7 | 86.9 | 84.4 | 82.3 | 84.4 |
| 117.5° | 185.0 | 145.2 | 120.0 | 115.5 | 101.4 | 91.5 | 87.7 | 86.5 | 87.3 | 87.3 | 83.6 |
| 120° | 199.5 | 156.8 | 147.3 | 141.5 | 115.0 | 98.9 | 90.6 | 94.8 | 93.9 | 89.0 | 89.0 |
| 122.5° | 297.5 | 265.7 | 234.2 | 195.3 | 162.2 | 143.2 | 115.0 | 96.4 | 92.7 | 89.4 | 87.3 |
| 125° | 391.9 | 363.3 | 314.1 | 262.4 | 205.2 | 151.9 | 114.2 | 101.0 | 93.9 | 89.8 | 90.6 |
| 127.5° | 399.3 | 369.1 | 312.8 | 249.5 | 183.3 | 141.9 | 115.0 | 103.5 | 95.6 | 91.0 | 90.2 |
| 130° | 312.0 | 290.5 | 248.3 | 201.9 | 155.6 | 127.0 | 106.3 | 94.8 | 87.7 | 83.6 | 82.8 |
| 132.5° | 276.0 | 257.8 | 213.9 | 173.4 | 141.9 | 117.9 | 100.1 | 87.3 | 82.3 | 79.5 | 79.0 |
| 135° | 220.6 | 205.2 | 175.9 | 153.9 | 132.0 | 112.1 | 94.3 | 82.3 | 77.8 | 77.4 | 76.6 |
| 137.5° | 193.2 | 180.8 | 158.1 | 139.9 | 121.7 | 102.6 | 87.7 | 77.8 | 75.7 | 76.1 | 74.9 |
| 140° | 157.7 | 152.3 | 139.5 | 123.7 | 104.3 | 84.4 | 74.1 | 70.8 | 74.1 | 75.7 | 75.7 |
| 142.5° | 135.3 | 128.3 | 113.8 | 95.6 | 83.2 | 74.1 | 72.8 | 71.6 | 73.2 | 74.1 | 74.1 |
| 145° | 124.6 | 116.3 | 104.3 | 97.7 | 91.9 | 84.0 | 77.4 | 71.6 | 69.9 | 70.3 | 70.3 |
| 147.5° | 140.7 | 131.2 | 123.3 | 110.9 | 96.8 | 83.6 | 73.7 | 67.0 | 67.0 | 68.7 | 69.1 |
| 150° | 116.7 | 108.4 | 103.0 | 96.0 | 85.2 | 74.5 | 67.5 | 64.1 | 65.4 | 68.7 | 69.1 |
| 152.5° | 97.7 | 87.7 | 84.4 | 80.3 | 74.5 | 68.7 | 65.4 | 63.7 | 65.8 | 68.3 | 68.3 |
| 155° | 95.2 | 86.5 | 82.3 | 78.2 | 72.8 | 67.9 | 65.0 | 64.1 | 66.2 | 67.9 | 68.3 |
| 157.5° | 89.4 | 84.4 | 79.0 | 75.7 | 71.6 | 67.9 | 65.8 | 65.0 | 66.6 | 67.9 | 68.3 |
| 160° | 86.1 | 83.2 | 77.0 | 74.1 | 70.3 | 67.9 | 67.5 | 67.5 | 68.3 | 68.7 | 68.7 |
| 162.5° | 82.3 | 80.7 | 77.0 | 74.5 | 72.0 | 70.8 | 71.6 | 72.0 | 72.0 | 71.6 | 71.6 |
| 165° | 81.1 | 80.3 | 77.0 | 74.9 | 73.7 | 74.1 | 75.7 | 76.1 | 74.9 | 74.1 | 74.1 |
| 167.5° | 80.7 | 80.7 | 78.2 | 76.6 | 76.1 | 77.0 | 78.6 | 78.6 | 77.4 | 75.7 | 75.3 |
| 170° | 80.7 | 81.1 | 80.3 | 80.3 | 79.5 | 79.9 | 80.3 | 80.3 | 79.5 | 78.6 | 78.2 |
| 172.5° | 81.9 | 81.9 | 81.9 | 81.9 | 81.5 | 81.9 | 82.3 | 82.3 | 82.3 | 81.9 | 81.9 |
| 175° | 84.0 | 84.0 | 84.0 | 83.6 | 83.2 | 83.2 | 83.6 | 84.0 | 84.4 | 84.4 | 84.4 |
| 177.5° | 86.1 | 85.7 | 85.2 | 85.7 | 85.2 | 85.2 | 86.1 | 86.5 | 86.9 | 86.9 | 86.9 |
| 180° | 86.5 | 86.5 | 86.5 | 86.5 | 86.5 | 86.5 | 86.5 | 86.5 | 86.5 | 86.5 | 86.5 |

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: SP1-2501-332-11

Test Date: 03/26/2025

Luminaire Tested: FFX-CLB-20-740-U-FR-T5-UPLR-P-HSS

Data in this report applies to families of products including FFX-CLB-20-740-U-FR-T5-UPLR-P-HSS

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

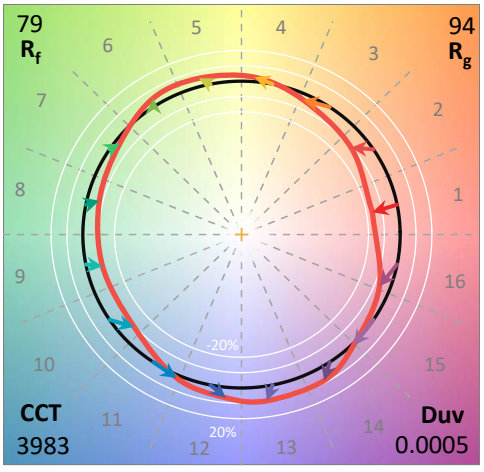
## Test Information

| | |
|---|---|
| Test Method: | LM-79-2019 |
| Report Number: | SP1-2501-332-11 |
| 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-20-740-U-FR-T5-UPLR-P-HSS** |
| Description: | FAIRFAX ACORN W/ FAIRFAX T5 POLYCARBONATE REFRACTOR 20W WITH UPLIGHT REFLECTOR AND HOUSE SIDE SHIELD |

## Spectral Parameters

| | | | | | |
|---|---|---|---|---|---|
| CCT (K): | 3983 | CRI (Ra): | 76.2 | | |
| CIE u': | 0.2252 | R1: | 72.6 | R9: | -26.0 |
| CIE v': | 0.5025 | R2: | 84.0 | R10: | 63.7 |
| Duv: | 0.0005 | R3: | 93.4 | R11: | 72.4 |
| CIE x: | 0.3815 | R4: | 74.5 | R12: | 56.4 |
| CIE y: | 0.3785 | R5: | 73.8 | R13: | 75.0 |
| CIE z: | 0.2400 | R6: | 78.3 | R14: | 96.6 |
| Peak Wavelength (nm): | 448 | R7: | 81.1 | R15: | 64.5 |
| Dominant Wavelength (nm): | 578 | R8: | 52.1 | | |
| Purity: | 28.07575 | | | | |

| | |
|---|---|
| Rf: | 79 |
| Rg: | 94.1 |




## Test Conditions

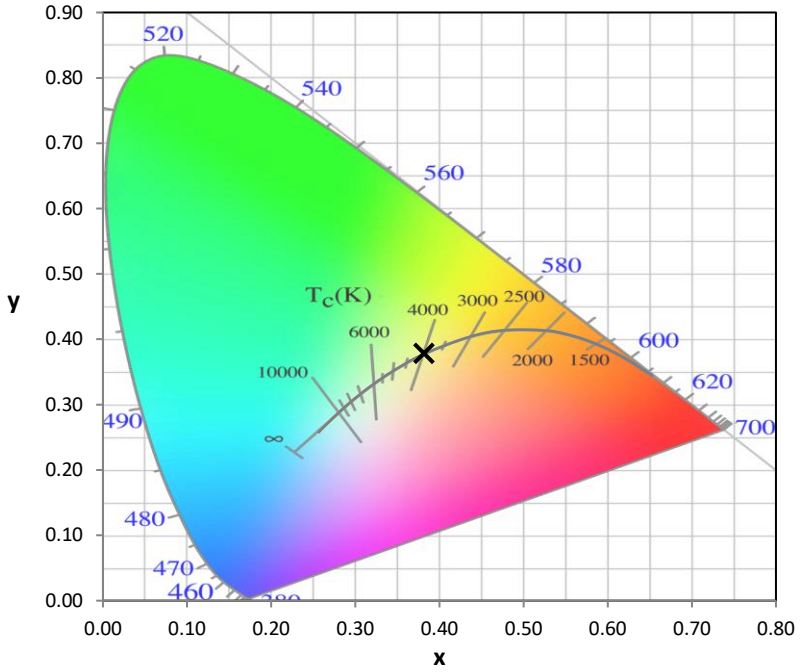
| | |
|---|---|
| Stabilization Time: | 20M |
| Operation Time: | 1H 20M |
| Sphere Temperature (°C): | 24.8 |

REPORT NUMBER: SP1-2501-332-11

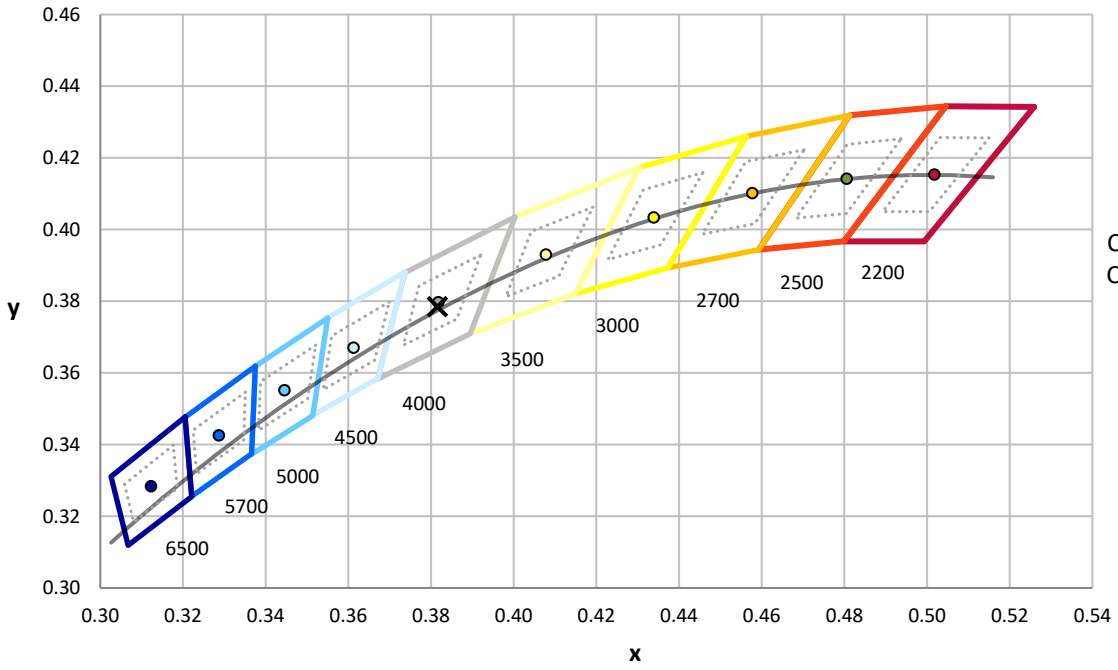
| Measurement and Test Equipment | | | |
|---|---|---|---|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | IN0058 | 12/16/2024 | 6/16/2025 |
| Power Meter | INXT2011004 | 1/21/2025 | 1/21/2026 |
| AC Power Source | IN0063 | 10/22/2024 | 10/22/2025 |
| DC 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: SP1-2501-332-11

## CIE 1931 Chromaticity Diagram




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

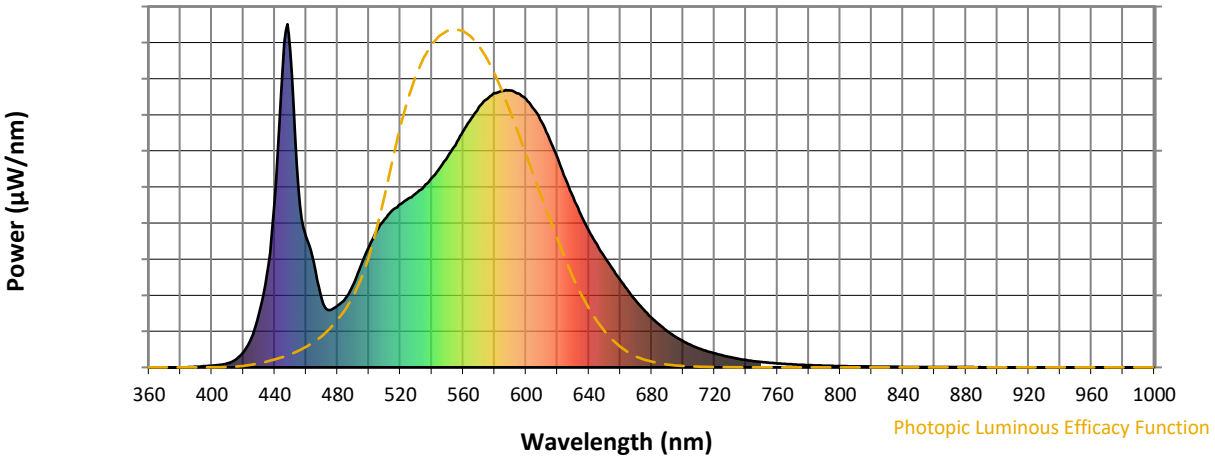



CCT = 3983K
CIE x = 0.3815
CIE y = 0.3785
Duv = 0.0005

Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-11

## Photopic Flux vs. Wavelength

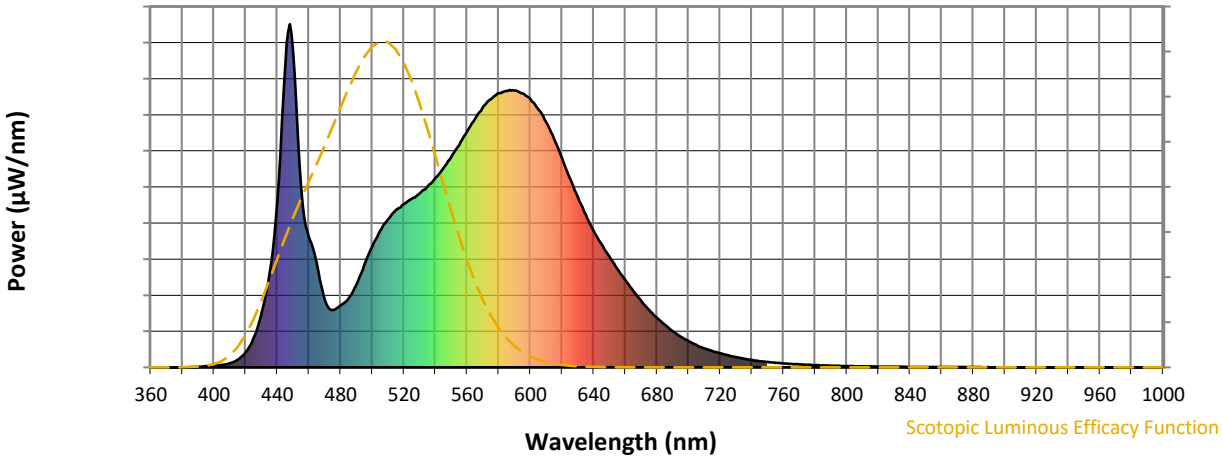



## Photopic Lumens: NR

| 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 | 241 | NR | 620 | 611 | NR | 750 | 16 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 298 | NR | 625 | 551 | NR | 755 | 13 | NR | 885 | 1 | NR |
| 370 | 0 | NR | 500 | 352 | NR | 630 | 496 | NR | 760 | 12 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 399 | NR | 635 | 444 | NR | 765 | 10 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 432 | NR | 640 | 398 | NR | 770 | 9 | NR | 900 | 0 | NR |
| 385 | 1 | NR | 515 | 458 | NR | 645 | 359 | NR | 775 | 8 | NR | 905 | 0 | NR |
| 390 | 2 | NR | 520 | 476 | NR | 650 | 321 | NR | 780 | 7 | NR | 910 | 0 | NR |
| 395 | 3 | NR | 525 | 492 | NR | 655 | 287 | NR | 785 | 6 | NR | 915 | 0 | NR |
| 400 | 5 | NR | 530 | 508 | NR | 660 | 254 | NR | 790 | 5 | NR | 920 | 0 | NR |
| 405 | 7 | NR | 535 | 527 | NR | 665 | 223 | NR | 795 | 4 | NR | 925 | 0 | NR |
| 410 | 12 | NR | 540 | 552 | NR | 670 | 194 | NR | 800 | 4 | NR | 930 | 0 | NR |
| 415 | 23 | NR | 545 | 582 | NR | 675 | 168 | NR | 805 | 3 | NR | 935 | 0 | NR |
| 420 | 44 | NR | 550 | 613 | NR | 680 | 144 | NR | 810 | 3 | NR | 940 | 0 | NR |
| 425 | 85 | NR | 555 | 648 | NR | 685 | 124 | NR | 815 | 3 | NR | 945 | 0 | NR |
| 430 | 156 | NR | 560 | 689 | NR | 690 | 105 | NR | 820 | 2 | NR | 950 | 0 | NR |
| 435 | 272 | NR | 565 | 725 | NR | 695 | 90 | NR | 825 | 2 | NR | 955 | 0 | NR |
| 440 | 486 | NR | 570 | 758 | NR | 700 | 76 | NR | 830 | 2 | NR | 960 | 0 | NR |
| 445 | 871 | NR | 575 | 782 | NR | 705 | 65 | NR | 835 | 2 | NR | 965 | 0 | NR |
| 450 | 919 | NR | 580 | 799 | NR | 710 | 55 | NR | 840 | 1 | NR | 970 | 0 | NR |
| 455 | 526 | NR | 585 | 806 | NR | 715 | 48 | NR | 845 | 1 | NR | 975 | 0 | NR |
| 460 | 380 | NR | 590 | 807 | NR | 720 | 41 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 303 | NR | 595 | 799 | NR | 725 | 35 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 197 | NR | 600 | 782 | NR | 730 | 30 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 167 | NR | 605 | 752 | NR | 735 | 25 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 180 | NR | 610 | 714 | NR | 740 | 21 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 201 | NR | 615 | 665 | NR | 745 | 18 | NR | 875 | 1 | NR | | | |

REPORT NUMBER: SP1-2501-332-11

## Scotopic Flux vs. Wavelength

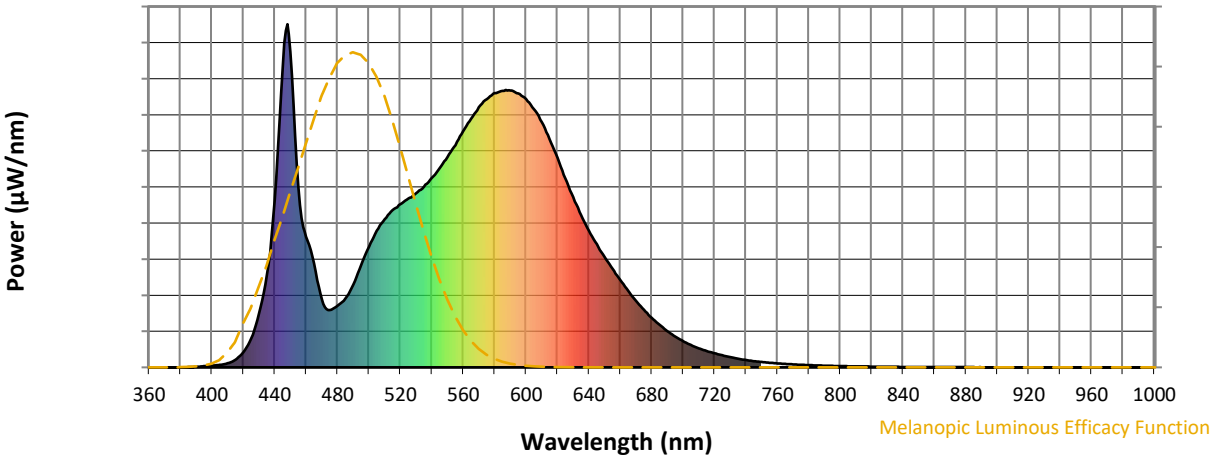



**Scotopic Lumens: NR** **S/P: 1.61**

| 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 | 241 | NR | 620 | 611 | NR | 750 | 16 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 298 | NR | 625 | 551 | NR | 755 | 13 | NR | 885 | 1 | NR |
| 370 | 0 | NR | 500 | 352 | NR | 630 | 496 | NR | 760 | 12 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 399 | NR | 635 | 444 | NR | 765 | 10 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 432 | NR | 640 | 398 | NR | 770 | 9 | NR | 900 | 0 | NR |
| 385 | 1 | NR | 515 | 458 | NR | 645 | 359 | NR | 775 | 8 | NR | 905 | 0 | NR |
| 390 | 2 | NR | 520 | 476 | NR | 650 | 321 | NR | 780 | 7 | NR | 910 | 0 | NR |
| 395 | 3 | NR | 525 | 492 | NR | 655 | 287 | NR | 785 | 6 | NR | 915 | 0 | NR |
| 400 | 5 | NR | 530 | 508 | NR | 660 | 254 | NR | 790 | 5 | NR | 920 | 0 | NR |
| 405 | 7 | NR | 535 | 527 | NR | 665 | 223 | NR | 795 | 4 | NR | 925 | 0 | NR |
| 410 | 12 | NR | 540 | 552 | NR | 670 | 194 | NR | 800 | 4 | NR | 930 | 0 | NR |
| 415 | 23 | NR | 545 | 582 | NR | 675 | 168 | NR | 805 | 3 | NR | 935 | 0 | NR |
| 420 | 44 | NR | 550 | 613 | NR | 680 | 144 | NR | 810 | 3 | NR | 940 | 0 | NR |
| 425 | 85 | NR | 555 | 648 | NR | 685 | 124 | NR | 815 | 3 | NR | 945 | 0 | NR |
| 430 | 156 | NR | 560 | 689 | NR | 690 | 105 | NR | 820 | 2 | NR | 950 | 0 | NR |
| 435 | 272 | NR | 565 | 725 | NR | 695 | 90 | NR | 825 | 2 | NR | 955 | 0 | NR |
| 440 | 486 | NR | 570 | 758 | NR | 700 | 76 | NR | 830 | 2 | NR | 960 | 0 | NR |
| 445 | 871 | NR | 575 | 782 | NR | 705 | 65 | NR | 835 | 2 | NR | 965 | 0 | NR |
| 450 | 919 | NR | 580 | 799 | NR | 710 | 55 | NR | 840 | 1 | NR | 970 | 0 | NR |
| 455 | 526 | NR | 585 | 806 | NR | 715 | 48 | NR | 845 | 1 | NR | 975 | 0 | NR |
| 460 | 380 | NR | 590 | 807 | NR | 720 | 41 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 303 | NR | 595 | 799 | NR | 725 | 35 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 197 | NR | 600 | 782 | NR | 730 | 30 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 167 | NR | 605 | 752 | NR | 735 | 25 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 180 | NR | 610 | 714 | NR | 740 | 21 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 201 | NR | 615 | 665 | NR | 745 | 18 | NR | 875 | 1 | NR | | | |

REPORT NUMBER: SP1-2501-332-11

## Melanopic Flux vs. Wavelength




**Melanopic Lumens: NR** **M/P: 3.24**

| 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 | 241 | NR | 620 | 611 | NR | 750 | 16 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 298 | NR | 625 | 551 | NR | 755 | 13 | NR | 885 | 1 | NR |
| 370 | 0 | NR | 500 | 352 | NR | 630 | 496 | NR | 760 | 12 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 399 | NR | 635 | 444 | NR | 765 | 10 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 432 | NR | 640 | 398 | NR | 770 | 9 | NR | 900 | 0 | NR |
| 385 | 1 | NR | 515 | 458 | NR | 645 | 359 | NR | 775 | 8 | NR | 905 | 0 | NR |
| 390 | 2 | NR | 520 | 476 | NR | 650 | 321 | NR | 780 | 7 | NR | 910 | 0 | NR |
| 395 | 3 | NR | 525 | 492 | NR | 655 | 287 | NR | 785 | 6 | NR | 915 | 0 | NR |
| 400 | 5 | NR | 530 | 508 | NR | 660 | 254 | NR | 790 | 5 | NR | 920 | 0 | NR |
| 405 | 7 | NR | 535 | 527 | NR | 665 | 223 | NR | 795 | 4 | NR | 925 | 0 | NR |
| 410 | 12 | NR | 540 | 552 | NR | 670 | 194 | NR | 800 | 4 | NR | 930 | 0 | NR |
| 415 | 23 | NR | 545 | 582 | NR | 675 | 168 | NR | 805 | 3 | NR | 935 | 0 | NR |
| 420 | 44 | NR | 550 | 613 | NR | 680 | 144 | NR | 810 | 3 | NR | 940 | 0 | NR |
| 425 | 85 | NR | 555 | 648 | NR | 685 | 124 | NR | 815 | 3 | NR | 945 | 0 | NR |
| 430 | 156 | NR | 560 | 689 | NR | 690 | 105 | NR | 820 | 2 | NR | 950 | 0 | NR |
| 435 | 272 | NR | 565 | 725 | NR | 695 | 90 | NR | 825 | 2 | NR | 955 | 0 | NR |
| 440 | 486 | NR | 570 | 758 | NR | 700 | 76 | NR | 830 | 2 | NR | 960 | 0 | NR |
| 445 | 871 | NR | 575 | 782 | NR | 705 | 65 | NR | 835 | 2 | NR | 965 | 0 | NR |
| 450 | 919 | NR | 580 | 799 | NR | 710 | 55 | NR | 840 | 1 | NR | 970 | 0 | NR |
| 455 | 526 | NR | 585 | 806 | NR | 715 | 48 | NR | 845 | 1 | NR | 975 | 0 | NR |
| 460 | 380 | NR | 590 | 807 | NR | 720 | 41 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 303 | NR | 595 | 799 | NR | 725 | 35 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 197 | NR | 600 | 782 | NR | 730 | 30 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 167 | NR | 605 | 752 | NR | 735 | 25 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 180 | NR | 610 | 714 | NR | 740 | 21 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 201 | NR | 615 | 665 | NR | 745 | 18 | NR | 875 | 1 | NR | | | |

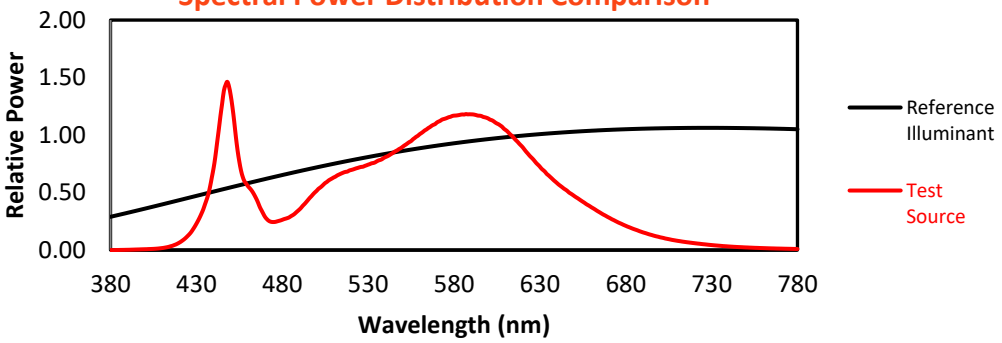
REPORT NUMBER: SP1-2501-332-11

# TM-30-18

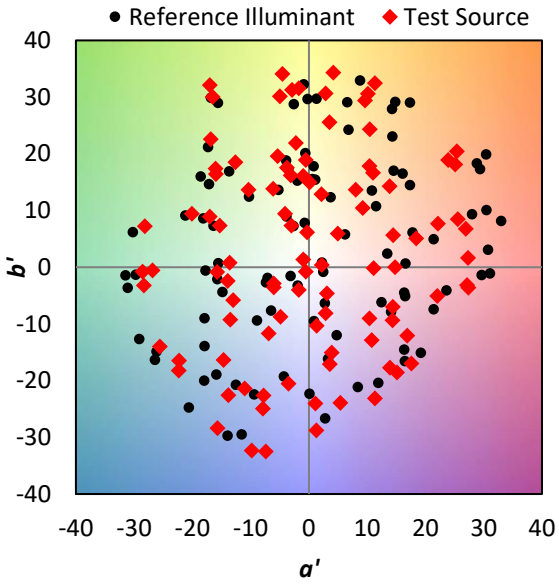
## Summary

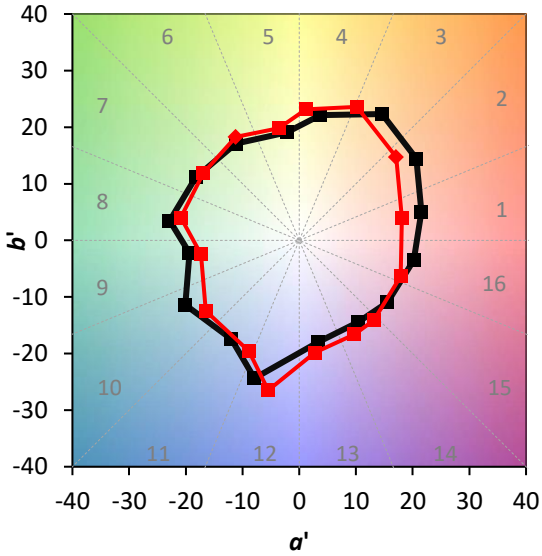
$R_f$ = 79
$R_g$ = 94.1
CIE $R_a$ = 76.2
$R_9$ = -26.0

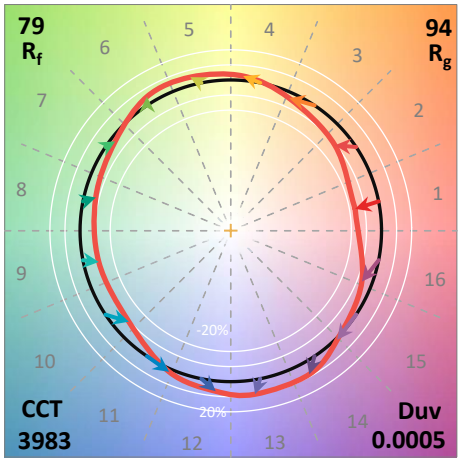
## Spectral Power Distribution Comparison

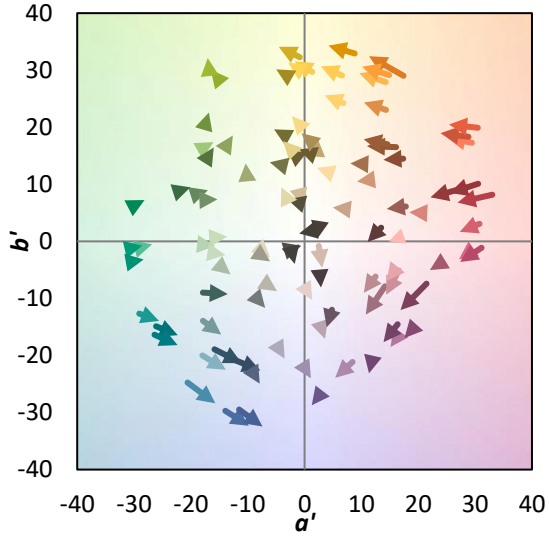



## Color Vector Graphics



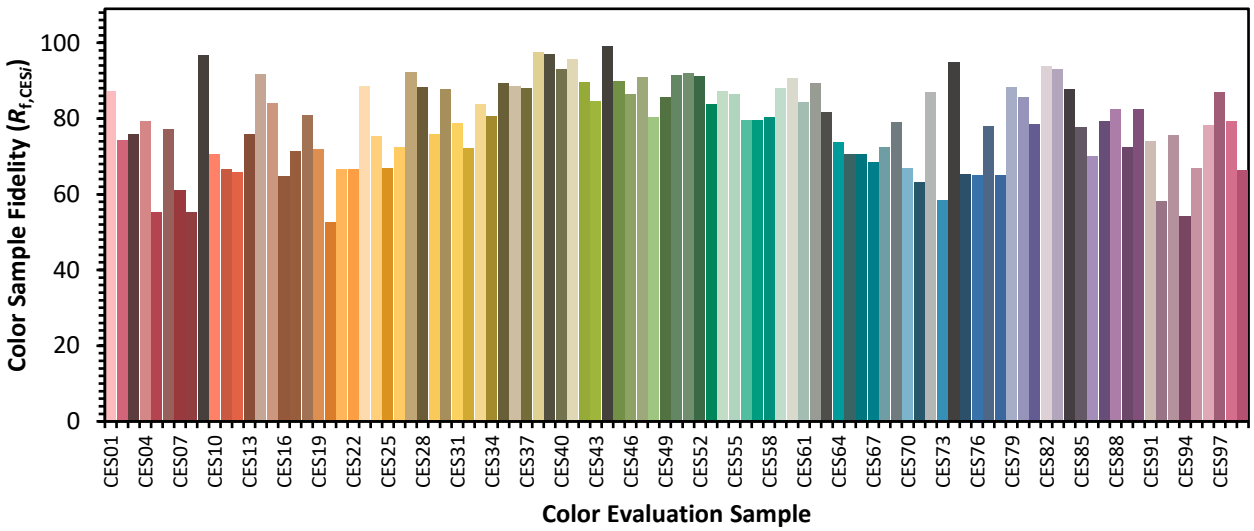



REPORT NUMBER: SP1-2501-332-11

# TM-30-18

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

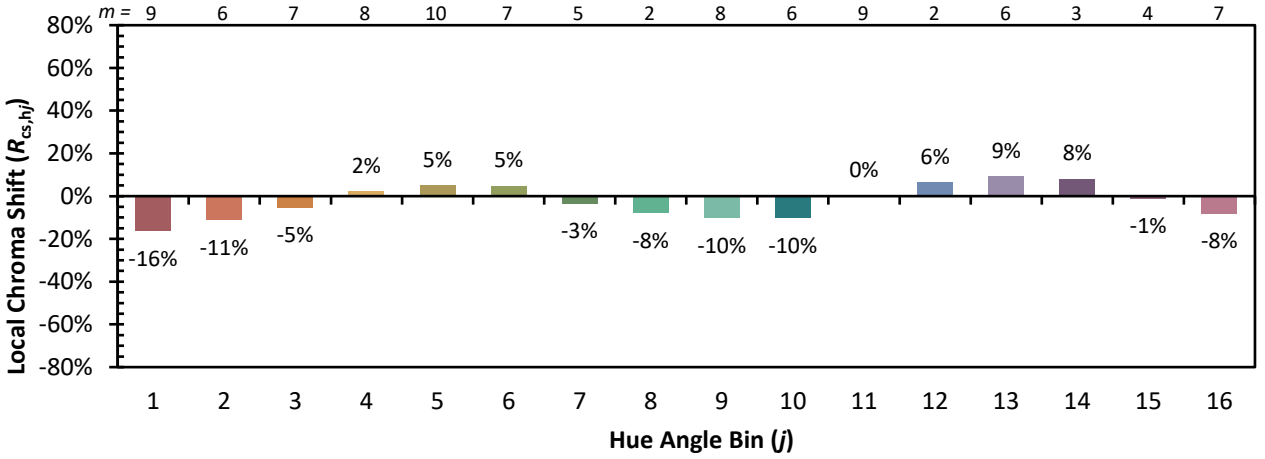
| | | | |
|---|---|---|---|
| CES01 = 85 | CES26 = 72 | CES51 = 92 | CES76 = 65 |
| CES02 = 61 | CES27 = 92 | CES52 = 91 | CES77 = 78 |
| CES03 = 30 | CES28 = 88 | CES53 = 84 | CES78 = 65 |
| CES04 = 70 | CES29 = 76 | CES54 = 87 | CES79 = 88 |
| CES05 = 47 | CES30 = 88 | CES55 = 86 | CES80 = 86 |
| CES06 = 50 | CES31 = 79 | CES56 = 80 | CES81 = 79 |
| CES07 = 40 | CES32 = 72 | CES57 = 79 | CES82 = 94 |
| CES08 = 39 | CES33 = 84 | CES58 = 80 | CES83 = 93 |
| CES09 = 29 | CES34 = 81 | CES59 = 88 | CES84 = 88 |
| CES10 = 74 | CES35 = 89 | CES60 = 91 | CES85 = 78 |
| CES11 = 57 | CES36 = 88 | CES61 = 84 | CES86 = 70 |
| CES12 = 63 | CES37 = 88 | CES62 = 89 | CES87 = 79 |
| CES13 = 42 | CES38 = 98 | CES63 = 82 | CES88 = 82 |
| CES14 = 74 | CES39 = 97 | CES64 = 74 | CES89 = 72 |
| CES15 = 71 | CES40 = 93 | CES65 = 71 | CES90 = 83 |
| CES16 = 46 | CES41 = 96 | CES66 = 71 | CES91 = 74 |
| CES17 = 49 | CES42 = 90 | CES67 = 68 | CES92 = 58 |
| CES18 = 56 | CES43 = 85 | CES68 = 72 | CES93 = 76 |
| CES19 = 72 | CES44 = 99 | CES69 = 79 | CES94 = 54 |
| CES20 = 65 | CES45 = 90 | CES70 = 67 | CES95 = 67 |
| CES21 = 86 | CES46 = 87 | CES71 = 63 | CES96 = 78 |
| CES22 = 78 | CES47 = 91 | CES72 = 87 | CES97 = 87 |
| CES23 = 91 | CES48 = 80 | CES73 = 58 | CES98 = 79 |
| CES24 = 91 | CES49 = 86 | CES74 = 95 | CES99 = 66 |
| CES25 = 72 | CES50 = 92 | CES75 = 65 | |

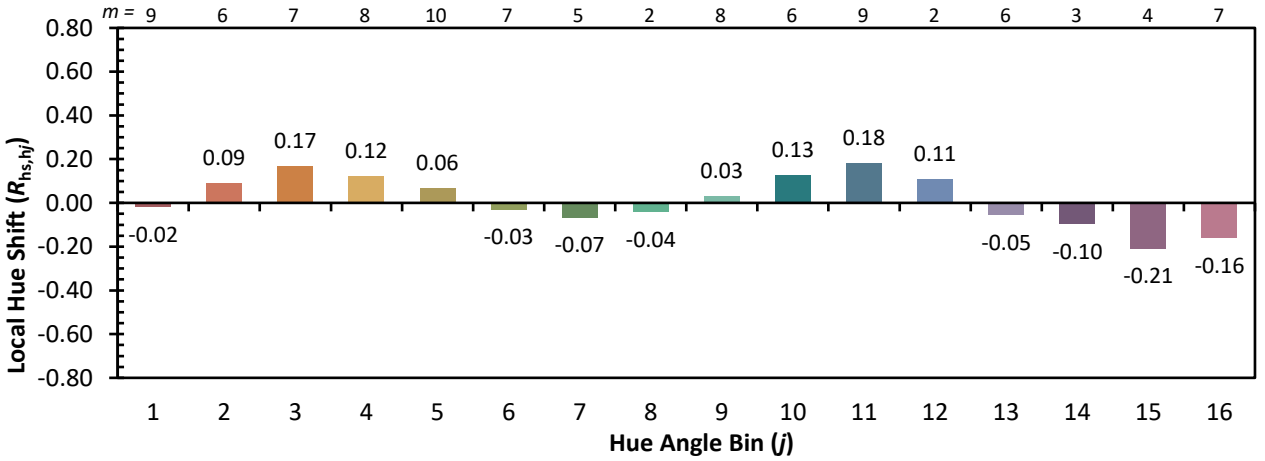


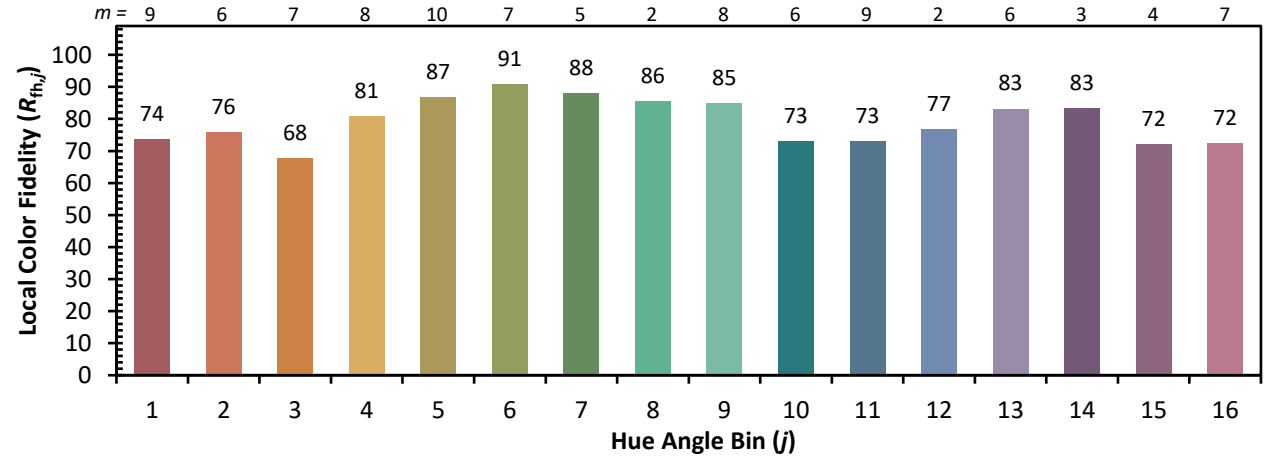
REPORT NUMBER: SP1-2501-332-11

**TM-30-18**

## Color Rendition by Hue-Angle Bin



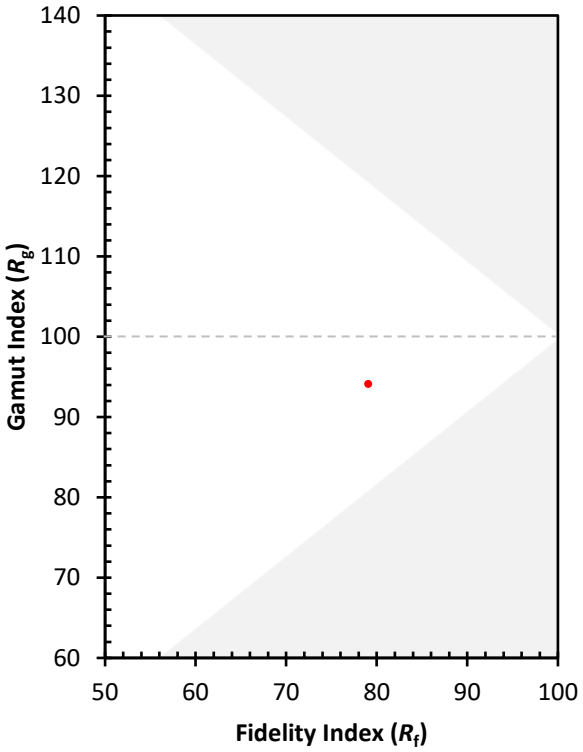



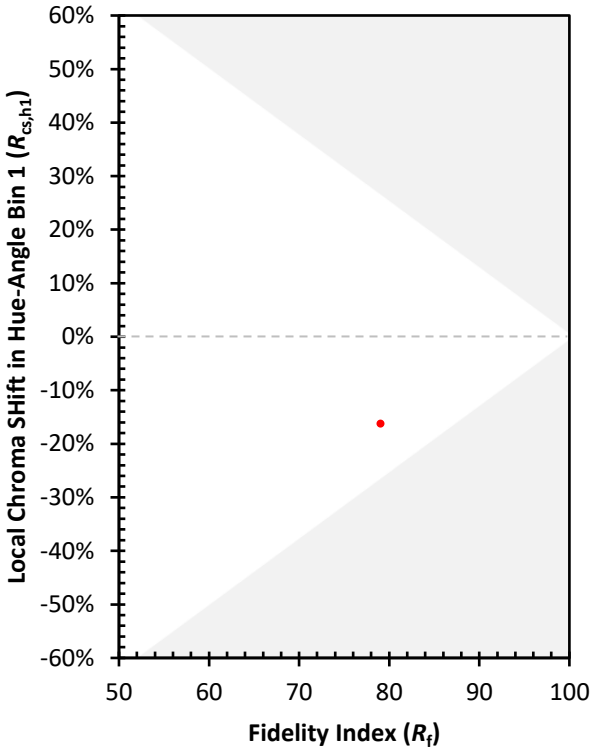



REPORT NUMBER: SP1-2501-332-11

# TM-30-18

## Measure Comparisons




(END OF REPORT)