

Signify Classified - Internal
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: P856228

Luminaire Tested: **FFX-CLB-90-750-U-FR-T3-UPLR**

Issue Date: 07/16/2024



Test Information

Test Method: LM-79-08
Report Number: P856228
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: FFX-CLB-90-750-U-FR-T3-UPLR
Description: FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS AND UPLIGHT REFLECTOR
Light Source: (4) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

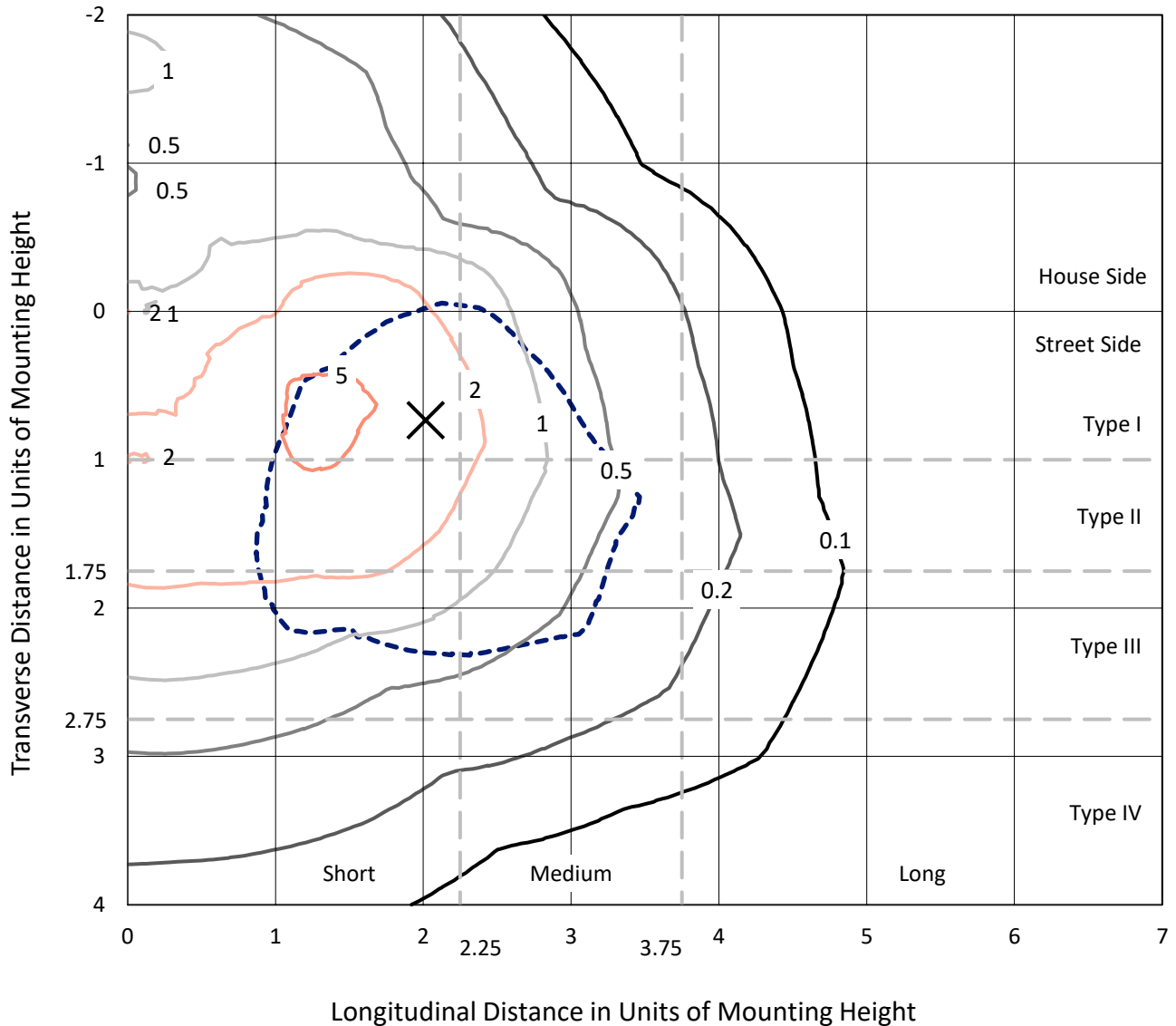
Lumens per Lamp: N/A
Luminaire Lumens: 13819.5 lumens
Efficiency: N/A
Efficacy: 153.0 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification: Type III - Short
BUG Rating: B3 - U5 - G4

Input Watts (W): 90.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 5.6%%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Iso-Footcandle Lines of Horizontal Illumination

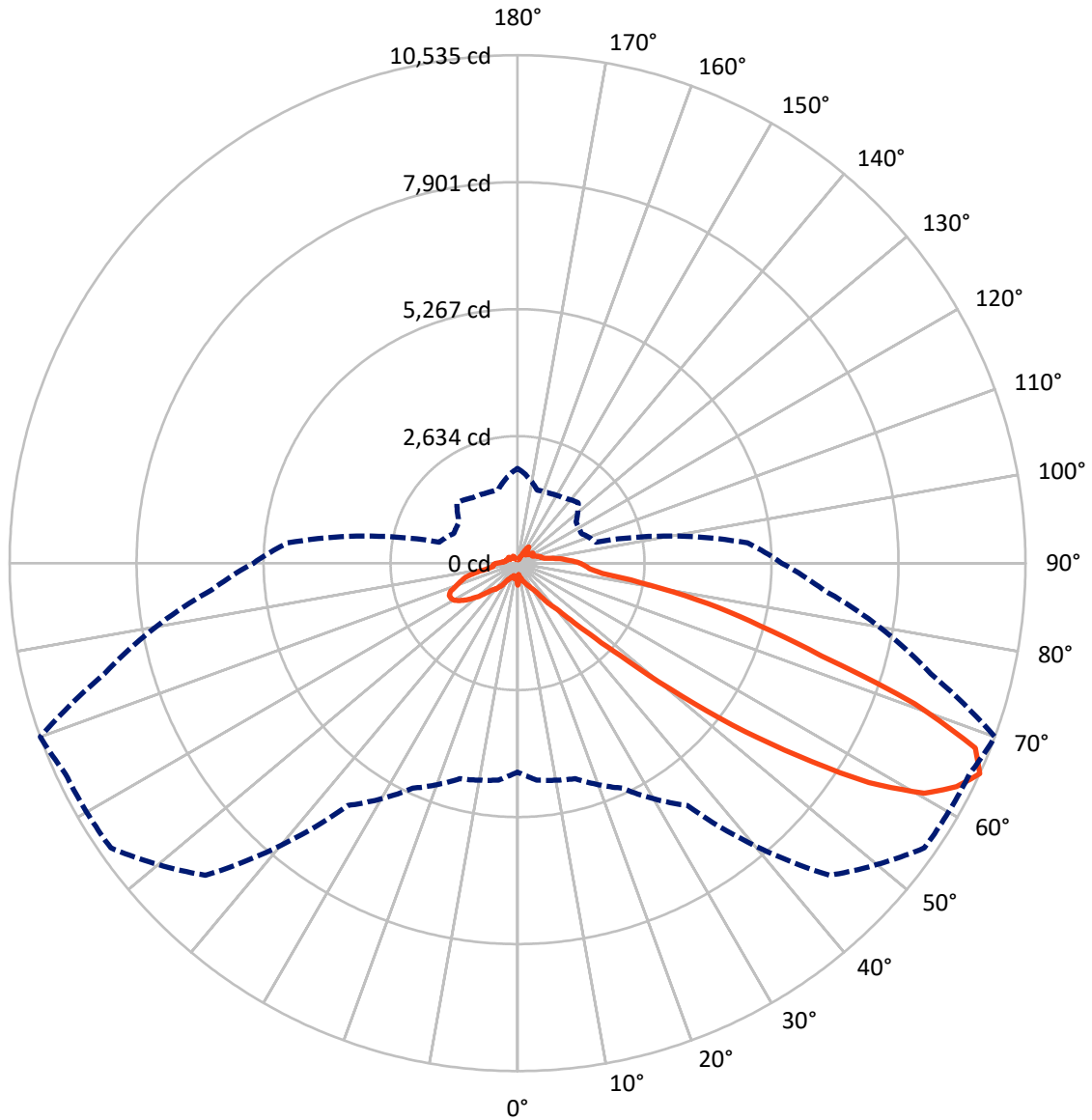
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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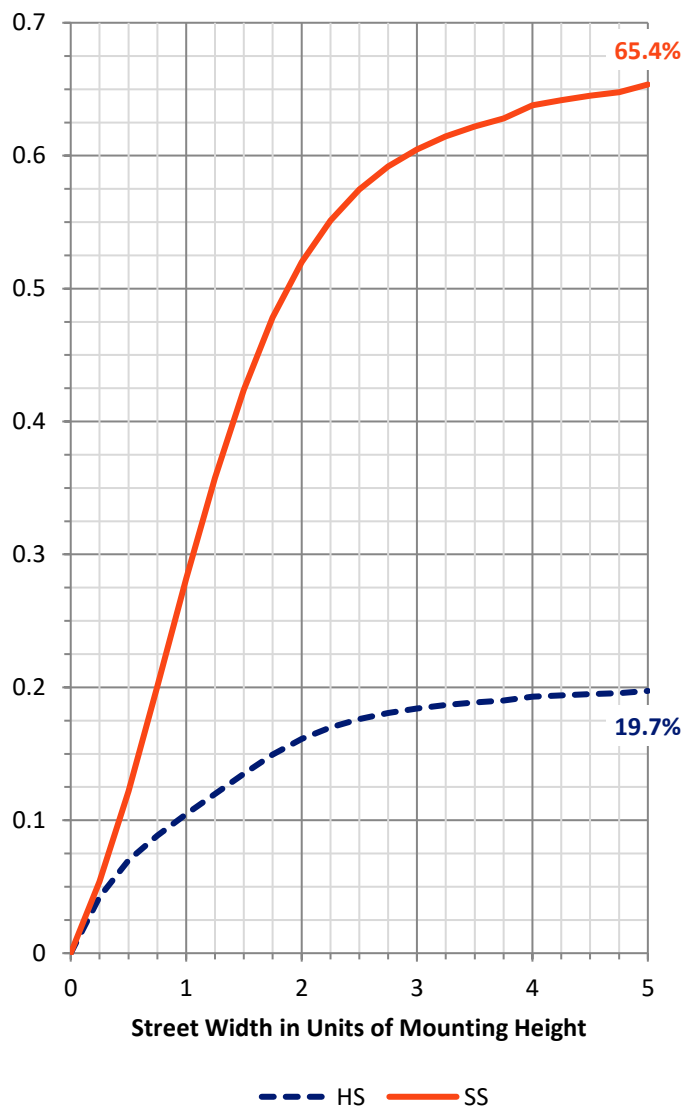
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2834.4 | 531.0 | 3365.4 |
| | % Fixture | 20.5 | 3.8 | 24.4 |
| Street Side | Lumens | 9346.4 | 1107.8 | 10454.2 |
| | % Fixture | 67.6 | 8.0 | 75.6 |
| Total | Lumens | 12180.8 | 1638.7 | 13819.5 |
| | % Fixture | 88.1 | 11.9 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 29.5 | 0.2 |
| 10°-20° | 92.4 | 0.7 |
| 20°-30° | 186.5 | 1.3 |
| 30°-40° | 394.7 | 2.9 |
| 40°-50° | 920.3 | 6.7 |
| 50°-60° | 2742.6 | 19.8 |
| 60°-70° | 4394.7 | 31.8 |
| 70°-80° | 2524.6 | 18.3 |
| 80°-90° | 895.4 | 6.5 |
| 90°-100° | 528.1 | 3.8 |
| 100°-110° | 319.0 | 2.3 |
| 110°-120° | 239.9 | 1.7 |
| 120°-130° | 203.1 | 1.5 |
| 130°-140° | 134.9 | 1.0 |
| 140°-150° | 126.7 | 0.9 |
| 150°-160° | 56.2 | 0.4 |
| 160°-170° | 23.2 | 0.2 |
| 170°-180° | 7.7 | 0.1 |
| 0°-90° | 12180.8 | 88.1 |
| 0°-180° | 13819.5 | 100.0 |



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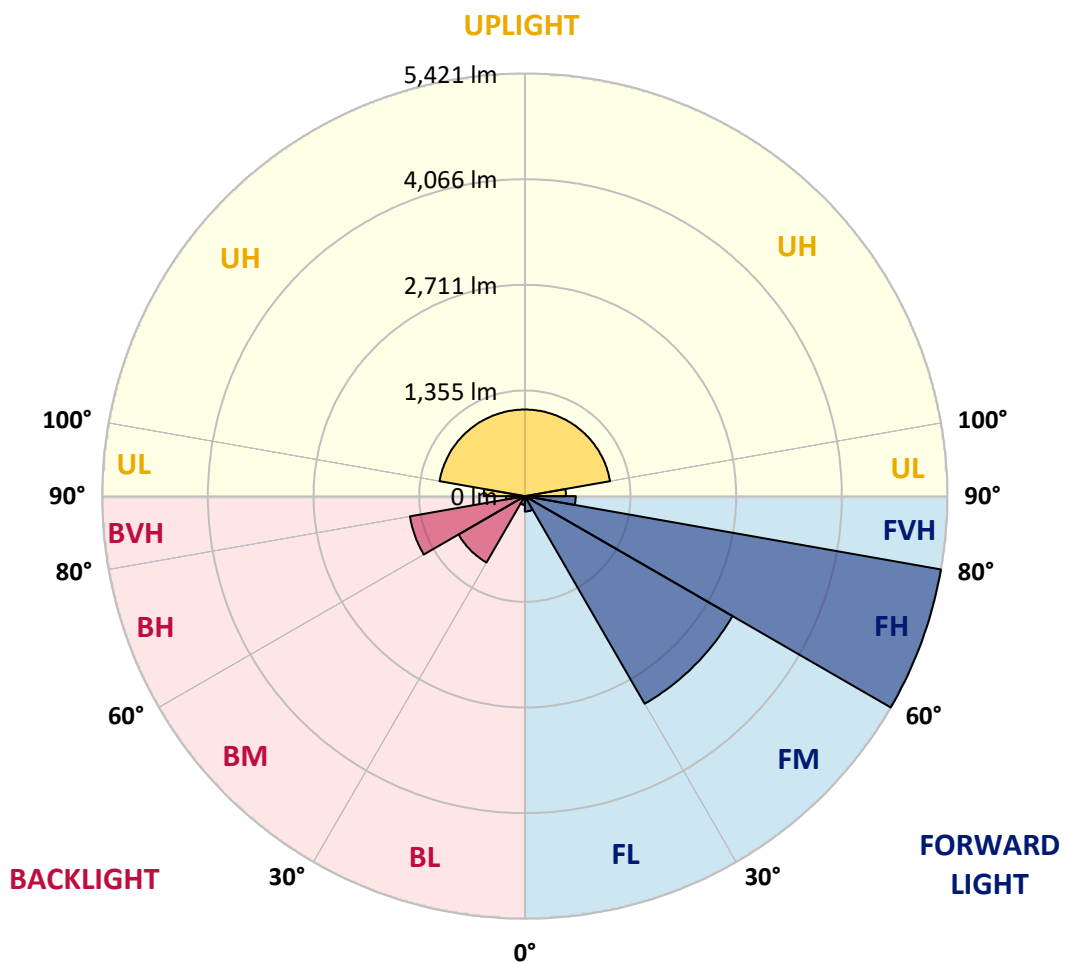
CATALOG NUMBER: FFX-CLB-90-750-U-FR-T3-UPLR

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|---------|---------|
| | | | B | U | G |
| FL (0°-30°) | 198.0 | 1.4 | | | |
| FM (30°-60°) | 3074.9 | 22.3 | | | |
| FH (60°-80°) | 5421.2 | 39.2 | | | G3/7500 |
| FVH (80°-90°) | 652.3 | 4.7 | | | G4/750 |
| BL (0°-30°) | 110.4 | 0.8 | B1/500 | | |
| BM (30°-60°) | 982.7 | 7.1 | B1/1000 | | |
| BH (60°-80°) | 1498.2 | 10.8 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 243.1 | 1.8 | | | G3/500 |
| UL (90°-100°) | 528.1 | 3.8 | | U4/1000 | |
| UH (100°-180°) | 1110.6 | 8.0 | | U5 | |

BUG Rating: B3-U5-G4

Type III Short





REPORT NUMBER: P856228

CATALOG NUMBER: FFX-CLB-90-750-U-FR-T3-UPLR

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 70° | 75° | 85° |
|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|--------|--------|
| 0° | 458.4 | 458.4 | 458.4 | 458.4 | 458.4 | 458.4 | 458.4 | 458.4 | 458.4 | 458.4 | 458.4 |
| 2.5° | 382.3 | 379.3 | 386.6 | 392.5 | 399.8 | 389.6 | 372.0 | 389.6 | 395.4 | 413.0 | 426.2 |
| 5° | 325.1 | 326.6 | 333.9 | 350.0 | 364.7 | 361.7 | 316.3 | 257.8 | 240.2 | 232.9 | 234.3 |
| 7.5° | 322.2 | 320.7 | 316.3 | 314.9 | 323.7 | 355.9 | 351.5 | 309.0 | 276.8 | 249.0 | 221.2 |
| 10° | 339.8 | 344.2 | 348.6 | 348.6 | 342.7 | 322.2 | 320.7 | 317.8 | 306.1 | 292.9 | 275.3 |
| 12.5° | 420.3 | 426.2 | 430.6 | 415.9 | 396.9 | 376.4 | 360.3 | 333.9 | 322.2 | 314.9 | 301.7 |
| 15° | 508.2 | 514.1 | 506.7 | 478.9 | 445.2 | 407.2 | 392.5 | 394.0 | 377.9 | 358.8 | 331.0 |
| 17.5° | 555.1 | 552.1 | 521.4 | 489.2 | 462.8 | 433.5 | 413.0 | 399.8 | 394.0 | 386.6 | 358.8 |
| 20° | 525.8 | 518.5 | 499.4 | 486.2 | 483.3 | 467.2 | 454.0 | 442.3 | 435.0 | 418.9 | 385.2 |
| 22.5° | 503.8 | 503.8 | 500.9 | 498.0 | 515.5 | 508.2 | 502.3 | 486.2 | 476.0 | 455.5 | 405.7 |
| 25° | 531.6 | 531.6 | 533.1 | 528.7 | 552.1 | 552.1 | 552.1 | 534.6 | 521.4 | 492.1 | 432.0 |
| 27.5° | 571.2 | 569.7 | 574.1 | 571.2 | 591.7 | 596.1 | 604.9 | 591.7 | 572.6 | 537.5 | 461.3 |
| 30° | 613.7 | 613.7 | 618.0 | 621.0 | 641.5 | 651.7 | 662.0 | 656.1 | 632.7 | 590.2 | 511.1 |
| 32.5° | 659.1 | 657.6 | 670.8 | 685.4 | 697.1 | 716.2 | 720.6 | 735.2 | 711.8 | 662.0 | 584.4 |
| 35° | 725.0 | 729.4 | 764.5 | 795.3 | 828.9 | 840.7 | 861.2 | 918.3 | 894.9 | 827.5 | 738.1 |
| 37.5° | 1048.6 | 1026.7 | 1017.9 | 982.7 | 978.3 | 1047.2 | 1072.1 | 1126.3 | 1079.4 | 988.6 | 852.4 |
| 40° | 1111.6 | 1085.2 | 1073.5 | 1039.8 | 1051.6 | 1193.6 | 1168.7 | 1363.5 | 1249.3 | 1104.3 | 1016.4 |
| 42.5° | 1047.2 | 1042.8 | 1180.4 | 1206.8 | 1192.2 | 1417.7 | 1369.4 | 1729.7 | 1608.1 | 1271.2 | 1173.1 |
| 45° | 1263.9 | 1252.2 | 1310.8 | 1357.7 | 1394.3 | 1800.0 | 1770.7 | 2150.0 | 2097.3 | 1548.1 | 1451.4 |
| 47.5° | 1426.5 | 1414.8 | 1482.1 | 1638.9 | 1852.7 | 2292.1 | 2463.4 | 3036.1 | 2857.4 | 2129.5 | 1909.8 |
| 50° | 1912.7 | 1905.4 | 2087.0 | 2255.4 | 2608.4 | 3257.2 | 3727.3 | 4345.4 | 4083.2 | 2974.5 | 2570.3 |
| 52.5° | 2372.6 | 2396.0 | 2608.4 | 2932.1 | 3305.5 | 4477.2 | 5148.0 | 5581.5 | 5578.6 | 3873.8 | 3299.7 |
| 55° | 2702.1 | 2781.2 | 3031.7 | 3616.0 | 4134.5 | 5559.5 | 6464.6 | 6785.4 | 7054.8 | 5168.5 | 4018.8 |
| 57.5° | 3342.2 | 3479.8 | 3720.0 | 4298.5 | 4967.8 | 6868.8 | 8160.6 | 8107.9 | 8592.6 | 6511.5 | 4800.9 |
| 60° | 3999.7 | 4160.8 | 4241.4 | 4773.0 | 5651.8 | 8129.8 | 9326.4 | 9203.4 | 9691.1 | 7680.2 | 5624.0 |
| 62.5° | 4204.8 | 4363.0 | 4442.0 | 5020.6 | 6145.3 | 8844.5 | 9863.9 | 9912.2 | 10215.4 | 8513.6 | 6111.7 |
| 65° | 4333.7 | 4515.3 | 4629.5 | 5150.9 | 6135.1 | 9156.5 | 10298.9 | 10344.3 | 10534.7 | 8872.4 | 6363.6 |
| 67.5° | 4310.2 | 4513.8 | 4660.3 | 5127.5 | 5795.3 | 8897.3 | 10190.5 | 9985.4 | 10240.3 | 8616.1 | 6098.5 |
| 70° | 3844.5 | 4021.7 | 4168.2 | 4528.5 | 4837.5 | 7495.7 | 8816.7 | 8478.4 | 8742.0 | 7198.4 | 5035.2 |
| 72.5° | 3141.5 | 3214.7 | 3342.2 | 3512.0 | 3665.8 | 5561.0 | 6725.3 | 6435.3 | 6587.6 | 5399.9 | 3772.7 |
| 75° | 2580.6 | 2565.9 | 2680.2 | 2803.2 | 2754.9 | 4062.7 | 5320.8 | 5055.7 | 5197.8 | 4100.8 | 3009.7 |
| 77.5° | 1912.7 | 1905.4 | 2070.9 | 2060.7 | 1987.4 | 2813.4 | 4218.0 | 4026.1 | 4045.1 | 3028.7 | 2254.0 |
| 80° | 1149.7 | 1171.7 | 1332.8 | 1365.0 | 1278.6 | 1764.8 | 3011.2 | 2920.4 | 2784.2 | 2069.4 | 1580.3 |
| 82.5° | 807.0 | 840.7 | 925.6 | 960.8 | 918.3 | 1288.8 | 1994.7 | 1931.8 | 1770.7 | 1501.2 | 1113.1 |
| 85° | 823.1 | 828.9 | 839.2 | 842.1 | 823.1 | 1157.0 | 1548.1 | 1512.9 | 1502.7 | 1258.1 | 918.3 |
| 87.5° | 823.1 | 836.3 | 845.1 | 843.6 | 809.9 | 1083.8 | 1428.0 | 1372.3 | 1385.5 | 1176.1 | 887.5 |
| 90° | 738.1 | 761.6 | 760.1 | 764.5 | 736.7 | 979.8 | 1294.7 | 1249.3 | 1266.9 | 1060.3 | 807.0 |
| 92.5° | 603.4 | 619.5 | 635.6 | 666.4 | 625.4 | 833.3 | 1094.0 | 1051.6 | 1073.5 | 902.2 | 686.9 |
| 95° | 560.9 | 575.6 | 585.8 | 601.9 | 560.9 | 741.1 | 968.1 | 916.8 | 925.6 | 766.0 | 581.4 |
| 97.5° | 454.0 | 462.8 | 474.5 | 477.5 | 448.2 | 569.7 | 736.7 | 692.7 | 698.6 | 594.6 | 456.9 |
| 100° | 380.8 | 388.1 | 398.4 | 398.4 | 379.3 | 471.6 | 582.9 | 559.5 | 556.5 | 486.2 | 386.6 |
| 102.5° | 360.3 | 363.2 | 379.3 | 376.4 | 357.4 | 435.0 | 527.2 | 512.6 | 514.1 | 451.1 | 363.2 |
| 105° | 354.4 | 354.4 | 370.5 | 363.2 | 347.1 | 414.5 | 493.6 | 489.2 | 487.7 | 429.1 | 348.6 |
| 107.5° | 348.6 | 348.6 | 364.7 | 357.4 | 344.2 | 391.0 | 464.3 | 449.6 | 448.2 | 408.6 | 329.5 |
| 110° | 325.1 | 329.5 | 347.1 | 338.3 | 328.1 | 369.1 | 426.2 | 415.9 | 415.9 | 385.2 | 314.9 |



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CATALOG NUMBER: FFX-CLB-90-750-U-FR-T3-UPLR

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 70° | 75° | 85° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 288.5 | 291.4 | 307.6 | 300.2 | 292.9 | 328.1 | 377.9 | 364.7 | 366.1 | 345.6 | 294.4 |
| 115° | 269.5 | 273.9 | 290.0 | 279.7 | 273.9 | 306.1 | 350.0 | 341.2 | 344.2 | 325.1 | 278.3 |
| 117.5° | 270.9 | 272.4 | 284.1 | 285.6 | 273.9 | 300.2 | 323.7 | 326.6 | 331.0 | 319.3 | 282.7 |
| 120° | 329.5 | 322.2 | 328.1 | 320.7 | 314.9 | 345.6 | 373.5 | 376.4 | 374.9 | 353.0 | 281.2 |
| 122.5° | 332.5 | 317.8 | 333.9 | 323.7 | 317.8 | 351.5 | 382.3 | 389.6 | 382.3 | 363.2 | 287.1 |
| 125° | 265.1 | 269.5 | 270.9 | 273.9 | 279.7 | 316.3 | 332.5 | 333.9 | 335.4 | 329.5 | 278.3 |
| 127.5° | 232.9 | 231.4 | 224.1 | 225.5 | 238.7 | 270.9 | 282.7 | 291.4 | 285.6 | 282.7 | 250.4 |
| 130° | 222.6 | 225.5 | 224.1 | 224.1 | 231.4 | 256.3 | 265.1 | 278.3 | 273.9 | 268.0 | 228.5 |
| 132.5° | 205.0 | 208.0 | 221.2 | 237.3 | 234.3 | 243.1 | 246.0 | 259.2 | 260.7 | 260.7 | 229.9 |
| 135° | 194.8 | 197.7 | 208.0 | 228.5 | 222.6 | 227.0 | 225.5 | 237.3 | 238.7 | 240.2 | 216.8 |
| 137.5° | 199.2 | 200.6 | 194.8 | 197.7 | 202.1 | 221.2 | 227.0 | 238.7 | 238.7 | 232.9 | 202.1 |
| 140° | 209.4 | 209.4 | 196.3 | 191.9 | 200.6 | 229.9 | 241.7 | 260.7 | 257.8 | 247.5 | 209.4 |
| 142.5° | 193.3 | 196.3 | 203.6 | 212.4 | 231.4 | 312.0 | 312.0 | 348.6 | 360.3 | 363.2 | 253.4 |
| 145° | 251.9 | 253.4 | 256.3 | 260.7 | 297.3 | 408.6 | 372.0 | 398.4 | 408.6 | 418.9 | 304.6 |
| 147.5° | 290.0 | 292.9 | 290.0 | 278.3 | 312.0 | 350.0 | 332.5 | 344.2 | 355.9 | 358.8 | 306.1 |
| 150° | 227.0 | 224.1 | 222.6 | 221.2 | 257.8 | 269.5 | 254.8 | 253.4 | 262.2 | 269.5 | 237.3 |
| 152.5° | 165.5 | 164.0 | 162.6 | 161.1 | 193.3 | 186.0 | 175.7 | 175.7 | 178.7 | 180.1 | 167.0 |
| 155° | 146.5 | 145.0 | 142.1 | 143.5 | 164.0 | 156.7 | 147.9 | 145.0 | 147.9 | 146.5 | 139.1 |
| 157.5° | 120.1 | 117.2 | 117.2 | 123.0 | 133.3 | 124.5 | 118.6 | 114.2 | 115.7 | 114.2 | 115.7 |
| 160° | 99.6 | 98.1 | 99.6 | 106.9 | 112.8 | 105.4 | 99.6 | 96.7 | 96.7 | 99.6 | 105.4 |
| 162.5° | 89.3 | 87.9 | 89.3 | 92.3 | 95.2 | 87.9 | 83.5 | 83.5 | 84.9 | 90.8 | 102.5 |
| 165° | 77.6 | 77.6 | 79.1 | 80.6 | 82.0 | 77.6 | 76.2 | 76.2 | 79.1 | 87.9 | 101.1 |
| 167.5° | 74.7 | 74.7 | 74.7 | 74.7 | 74.7 | 73.2 | 71.8 | 76.2 | 79.1 | 83.5 | 92.3 |
| 170° | 73.2 | 71.8 | 73.2 | 73.2 | 73.2 | 73.2 | 73.2 | 77.6 | 77.6 | 79.1 | 83.5 |
| 172.5° | 74.7 | 74.7 | 74.7 | 76.2 | 79.1 | 80.6 | 79.1 | 82.0 | 80.6 | 80.6 | 80.6 |
| 175° | 76.2 | 76.2 | 77.6 | 79.1 | 80.6 | 82.0 | 83.5 | 83.5 | 83.5 | 84.9 | 84.9 |
| 177.5° | 76.2 | 76.2 | 77.6 | 79.1 | 80.6 | 77.6 | 74.7 | 73.2 | 71.8 | 71.8 | 71.8 |
| 180° | 67.4 | 67.4 | 67.4 | 67.4 | 67.4 | 67.4 | 67.4 | 67.4 | 67.4 | 67.4 | 67.4 |



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CATALOG NUMBER: FFX-CLB-90-750-U-FR-T3-UPLR

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 458.4 | 458.4 | 458.4 | 458.4 | 458.4 | 458.4 | 458.4 | 458.4 | 458.4 | 458.4 | 458.4 |
| 2.5° | 414.5 | 377.9 | 326.6 | 348.6 | 415.9 | 402.8 | 335.4 | 294.4 | 297.3 | 326.6 | 329.5 |
| 5° | 241.7 | 249.0 | 282.7 | 353.0 | 366.1 | 303.2 | 244.6 | 235.8 | 284.1 | 351.5 | 364.7 |
| 7.5° | 218.2 | 218.2 | 246.0 | 342.7 | 385.2 | 316.3 | 238.7 | 215.3 | 251.9 | 307.6 | 316.3 |
| 10° | 263.6 | 254.8 | 257.8 | 292.9 | 309.0 | 253.4 | 213.8 | 203.6 | 224.1 | 231.4 | 228.5 |
| 12.5° | 297.3 | 303.2 | 331.0 | 323.7 | 253.4 | 206.5 | 193.3 | 191.9 | 203.6 | 210.9 | 209.4 |
| 15° | 319.3 | 309.0 | 288.5 | 265.1 | 241.7 | 215.3 | 196.3 | 184.5 | 171.4 | 165.5 | 165.5 |
| 17.5° | 339.8 | 319.3 | 282.7 | 260.7 | 237.3 | 218.2 | 200.6 | 183.1 | 177.2 | 178.7 | 178.7 |
| 20° | 364.7 | 339.8 | 306.1 | 281.2 | 253.4 | 227.0 | 205.0 | 186.0 | 181.6 | 183.1 | 181.6 |
| 22.5° | 383.7 | 361.7 | 326.6 | 294.4 | 265.1 | 235.8 | 213.8 | 194.8 | 188.9 | 187.5 | 187.5 |
| 25° | 407.2 | 388.1 | 351.5 | 312.0 | 276.8 | 249.0 | 229.9 | 208.0 | 197.7 | 194.8 | 194.8 |
| 27.5° | 437.9 | 421.8 | 380.8 | 338.3 | 297.3 | 265.1 | 244.6 | 221.2 | 206.5 | 200.6 | 199.2 |
| 30° | 484.8 | 462.8 | 417.4 | 364.7 | 322.2 | 288.5 | 263.6 | 234.3 | 216.8 | 206.5 | 205.0 |
| 32.5° | 555.1 | 527.2 | 467.2 | 401.3 | 350.0 | 314.9 | 284.1 | 247.5 | 225.5 | 213.8 | 212.4 |
| 35° | 704.5 | 673.7 | 597.5 | 505.3 | 430.6 | 358.8 | 310.5 | 262.2 | 234.3 | 219.7 | 218.2 |
| 37.5° | 798.2 | 742.5 | 650.3 | 566.8 | 476.0 | 433.5 | 372.0 | 307.6 | 246.0 | 227.0 | 224.1 |
| 40° | 934.4 | 862.6 | 746.9 | 634.2 | 474.5 | 473.1 | 432.0 | 374.9 | 290.0 | 240.2 | 235.8 |
| 42.5° | 1035.5 | 943.2 | 798.2 | 672.2 | 478.9 | 492.1 | 456.9 | 407.2 | 344.2 | 279.7 | 272.4 |
| 45° | 1242.0 | 1124.8 | 894.9 | 705.9 | 484.8 | 514.1 | 478.9 | 426.2 | 370.5 | 325.1 | 320.7 |
| 47.5° | 1628.6 | 1466.0 | 1082.3 | 770.4 | 550.7 | 587.3 | 524.3 | 462.8 | 408.6 | 363.2 | 353.0 |
| 50° | 2169.0 | 1974.2 | 1309.3 | 827.5 | 663.5 | 746.9 | 644.4 | 550.7 | 486.2 | 451.1 | 440.8 |
| 52.5° | 2803.2 | 2585.0 | 1451.4 | 916.8 | 799.7 | 943.2 | 830.4 | 720.6 | 635.6 | 641.5 | 635.6 |
| 55° | 3510.6 | 3252.8 | 1575.9 | 1051.6 | 973.9 | 1161.4 | 1038.4 | 943.2 | 897.8 | 1025.2 | 1032.5 |
| 57.5° | 4193.1 | 3917.7 | 1653.5 | 1193.6 | 1168.7 | 1413.3 | 1269.8 | 1202.4 | 1220.0 | 1593.5 | 1681.3 |
| 60° | 4844.8 | 4409.8 | 1713.5 | 1326.9 | 1332.8 | 1611.0 | 1501.2 | 1488.0 | 1542.2 | 2021.1 | 2154.4 |
| 62.5° | 5221.2 | 4661.7 | 1710.6 | 1413.3 | 1435.3 | 1732.6 | 1635.9 | 1643.2 | 1684.3 | 2091.4 | 2202.7 |
| 65° | 5477.5 | 4789.1 | 1681.3 | 1457.2 | 1479.2 | 1776.5 | 1652.0 | 1594.9 | 1568.6 | 1846.8 | 1965.5 |
| 67.5° | 5323.7 | 4543.1 | 1611.0 | 1419.2 | 1448.5 | 1706.2 | 1551.0 | 1407.5 | 1362.1 | 1512.9 | 1583.2 |
| 70° | 4500.6 | 3796.2 | 1435.3 | 1290.3 | 1309.3 | 1439.7 | 1307.9 | 1151.2 | 1105.8 | 1184.8 | 1217.1 |
| 72.5° | 3400.7 | 2914.5 | 1287.4 | 1192.2 | 1146.8 | 1190.7 | 1061.8 | 897.8 | 887.5 | 930.0 | 935.9 |
| 75° | 2716.8 | 2287.7 | 1173.1 | 1075.0 | 953.4 | 998.8 | 843.6 | 667.8 | 654.7 | 657.6 | 642.9 |
| 77.5° | 2047.5 | 1701.8 | 987.1 | 846.5 | 722.0 | 796.7 | 626.8 | 461.3 | 439.4 | 430.6 | 414.5 |
| 80° | 1401.6 | 1181.9 | 670.8 | 566.8 | 512.6 | 584.4 | 446.7 | 338.3 | 336.9 | 333.9 | 316.3 |
| 82.5° | 994.4 | 912.4 | 547.7 | 481.8 | 435.0 | 459.9 | 388.1 | 316.3 | 309.0 | 310.5 | 291.4 |
| 85° | 870.0 | 826.0 | 528.7 | 487.7 | 442.3 | 440.8 | 370.5 | 295.8 | 292.9 | 294.4 | 276.8 |
| 87.5° | 831.9 | 783.5 | 517.0 | 465.7 | 421.8 | 399.8 | 326.6 | 260.7 | 268.0 | 272.4 | 256.3 |
| 90° | 745.5 | 695.7 | 468.7 | 415.9 | 373.5 | 335.4 | 276.8 | 235.8 | 247.5 | 250.4 | 235.8 |
| 92.5° | 628.3 | 577.0 | 364.7 | 333.9 | 313.4 | 307.6 | 259.2 | 224.1 | 232.9 | 234.3 | 222.6 |
| 95° | 531.6 | 484.8 | 317.8 | 294.4 | 279.7 | 278.3 | 234.3 | 203.6 | 208.0 | 206.5 | 196.3 |
| 97.5° | 427.7 | 394.0 | 278.3 | 256.3 | 240.2 | 231.4 | 200.6 | 177.2 | 183.1 | 186.0 | 178.7 |
| 100° | 364.7 | 345.6 | 259.2 | 240.2 | 221.2 | 209.4 | 183.1 | 164.0 | 169.9 | 175.7 | 169.9 |
| 102.5° | 342.7 | 328.1 | 254.8 | 234.3 | 213.8 | 199.2 | 174.3 | 153.8 | 156.7 | 164.0 | 159.6 |
| 105° | 325.1 | 312.0 | 247.5 | 225.5 | 206.5 | 190.4 | 169.9 | 145.0 | 143.5 | 150.9 | 149.4 |
| 107.5° | 306.1 | 294.4 | 243.1 | 216.8 | 196.3 | 181.6 | 162.6 | 139.1 | 133.3 | 137.7 | 136.2 |
| 110° | 295.8 | 284.1 | 234.3 | 206.5 | 184.5 | 171.4 | 153.8 | 134.7 | 127.4 | 128.9 | 128.9 |



REPORT NUMBER: P856228

CATALOG NUMBER: FFX-CLB-90-750-U-FR-T3-UPLR

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 275.3 | 262.2 | 215.3 | 188.9 | 171.4 | 159.6 | 142.1 | 128.9 | 120.1 | 123.0 | 124.5 |
| 115° | 262.2 | 244.6 | 197.7 | 178.7 | 159.6 | 149.4 | 139.1 | 127.4 | 117.2 | 117.2 | 118.6 |
| 117.5° | 270.9 | 237.3 | 184.5 | 169.9 | 159.6 | 156.7 | 153.8 | 136.2 | 115.7 | 114.2 | 114.2 |
| 120° | 259.2 | 238.7 | 200.6 | 196.3 | 186.0 | 177.2 | 158.2 | 134.7 | 112.8 | 109.8 | 109.8 |
| 122.5° | 253.4 | 249.0 | 227.0 | 212.4 | 193.3 | 175.7 | 147.9 | 123.0 | 108.4 | 105.4 | 105.4 |
| 125° | 250.4 | 246.0 | 219.7 | 191.9 | 167.0 | 149.4 | 131.8 | 115.7 | 106.9 | 102.5 | 102.5 |
| 127.5° | 229.9 | 209.4 | 177.2 | 161.1 | 145.0 | 137.7 | 123.0 | 112.8 | 102.5 | 96.7 | 96.7 |
| 130° | 212.4 | 193.3 | 165.5 | 147.9 | 134.7 | 128.9 | 118.6 | 108.4 | 98.1 | 92.3 | 90.8 |
| 132.5° | 209.4 | 190.4 | 161.1 | 139.1 | 127.4 | 121.6 | 115.7 | 104.0 | 92.3 | 86.4 | 84.9 |
| 135° | 194.8 | 172.8 | 143.5 | 131.8 | 124.5 | 120.1 | 115.7 | 101.1 | 89.3 | 83.5 | 83.5 |
| 137.5° | 180.1 | 158.2 | 136.2 | 130.3 | 124.5 | 120.1 | 106.9 | 92.3 | 83.5 | 79.1 | 79.1 |
| 140° | 181.6 | 156.7 | 139.1 | 134.7 | 126.0 | 112.8 | 101.1 | 90.8 | 83.5 | 77.6 | 76.2 |
| 142.5° | 193.3 | 162.6 | 140.6 | 127.4 | 121.6 | 114.2 | 109.8 | 98.1 | 83.5 | 73.2 | 70.3 |
| 145° | 212.4 | 175.7 | 158.2 | 152.3 | 142.1 | 128.9 | 112.8 | 90.8 | 76.2 | 67.4 | 65.9 |
| 147.5° | 234.3 | 197.7 | 177.2 | 161.1 | 140.6 | 118.6 | 96.7 | 79.1 | 67.4 | 64.4 | 63.0 |
| 150° | 203.6 | 168.4 | 152.3 | 130.3 | 112.8 | 95.2 | 79.1 | 70.3 | 64.4 | 63.0 | 63.0 |
| 152.5° | 153.8 | 126.0 | 112.8 | 102.5 | 92.3 | 83.5 | 74.7 | 68.8 | 64.4 | 61.5 | 61.5 |
| 155° | 133.3 | 118.6 | 105.4 | 95.2 | 84.9 | 76.2 | 68.8 | 65.9 | 61.5 | 61.5 | 60.0 |
| 157.5° | 117.2 | 109.8 | 92.3 | 83.5 | 76.2 | 71.8 | 68.8 | 64.4 | 63.0 | 61.5 | 61.5 |
| 160° | 106.9 | 102.5 | 84.9 | 77.6 | 73.2 | 70.3 | 70.3 | 67.4 | 63.0 | 61.5 | 61.5 |
| 162.5° | 104.0 | 99.6 | 82.0 | 74.7 | 70.3 | 71.8 | 74.7 | 73.2 | 67.4 | 64.4 | 64.4 |
| 165° | 102.5 | 99.6 | 83.5 | 73.2 | 70.3 | 71.8 | 79.1 | 80.6 | 73.2 | 68.8 | 67.4 |
| 167.5° | 93.7 | 92.3 | 87.9 | 80.6 | 76.2 | 76.2 | 80.6 | 82.0 | 79.1 | 79.1 | 77.6 |
| 170° | 84.9 | 84.9 | 86.4 | 87.9 | 84.9 | 80.6 | 77.6 | 77.6 | 82.0 | 86.4 | 87.9 |
| 172.5° | 82.0 | 83.5 | 86.4 | 90.8 | 90.8 | 84.9 | 80.6 | 79.1 | 83.5 | 89.3 | 90.8 |
| 175° | 86.4 | 87.9 | 89.3 | 89.3 | 86.4 | 84.9 | 83.5 | 82.0 | 84.9 | 90.8 | 92.3 |
| 177.5° | 71.8 | 71.8 | 73.2 | 73.2 | 71.8 | 73.2 | 71.8 | 68.8 | 68.8 | 68.8 | 68.8 |
| 180° | 67.4 | 67.4 | 67.4 | 67.4 | 67.4 | 67.4 | 67.4 | 67.4 | 67.4 | 67.4 | 67.4 |

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: SP1-2406-133-5

Test Date: 07/12/2024

Luminaire Tested: FFX-CLB-100-750-U-FR-T5

Data in this report applies to families of products including FFX-CLB-100-750-U-FR-T5.

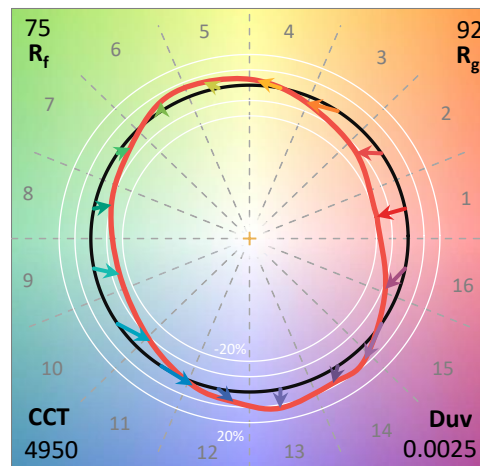
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2406-133-5
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 07/12/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: Streetworks
 Catalog Number: **FFX-CLB-100-750-U-FR-T5**
 Description: FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5

Spectral Parameters

CCT (K): 4950
 CIE u': 0.2102
 CIE v': 0.4882
 Duv: 0.0025
 CIE x: 0.3471
 CIE y: 0.3583
 CIE z: 0.2946
 Peak Wavelength (nm): 452
 Dominant Wavelength (nm): 571
 Purity: 11.64963
 Rf: 74.8
 Rg: 92.4

| | | | |
|-----------|------|------|-------|
| CRI (Ra): | 73.0 | | |
| R1: | 69.1 | R9: | -35.4 |
| R2: | 80.1 | R10: | 51.9 |
| R3: | 87.3 | R11: | 66.1 |
| R4: | 70.6 | R12: | 40.1 |
| R5: | 69.4 | R13: | 71.5 |
| R6: | 71.2 | R14: | 93.0 |
| R7: | 82.5 | R15: | 62.2 |
| R8: | 53.6 | | |



Test Conditions

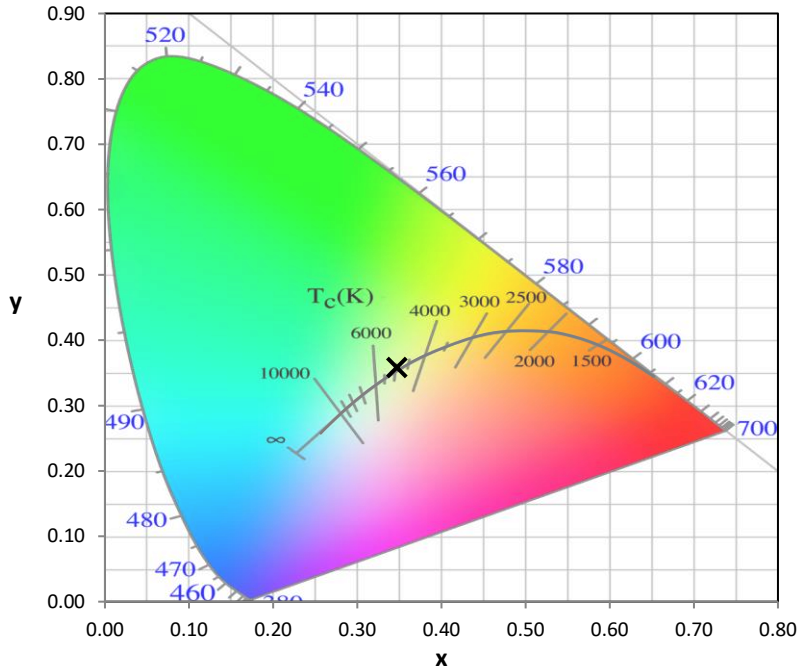
Stabilization Time: 0.803355M
 Operation Time: 1H
 Sphere Temperature (°C): 24.7

REPORT NUMBER: SP1-2406-133-5

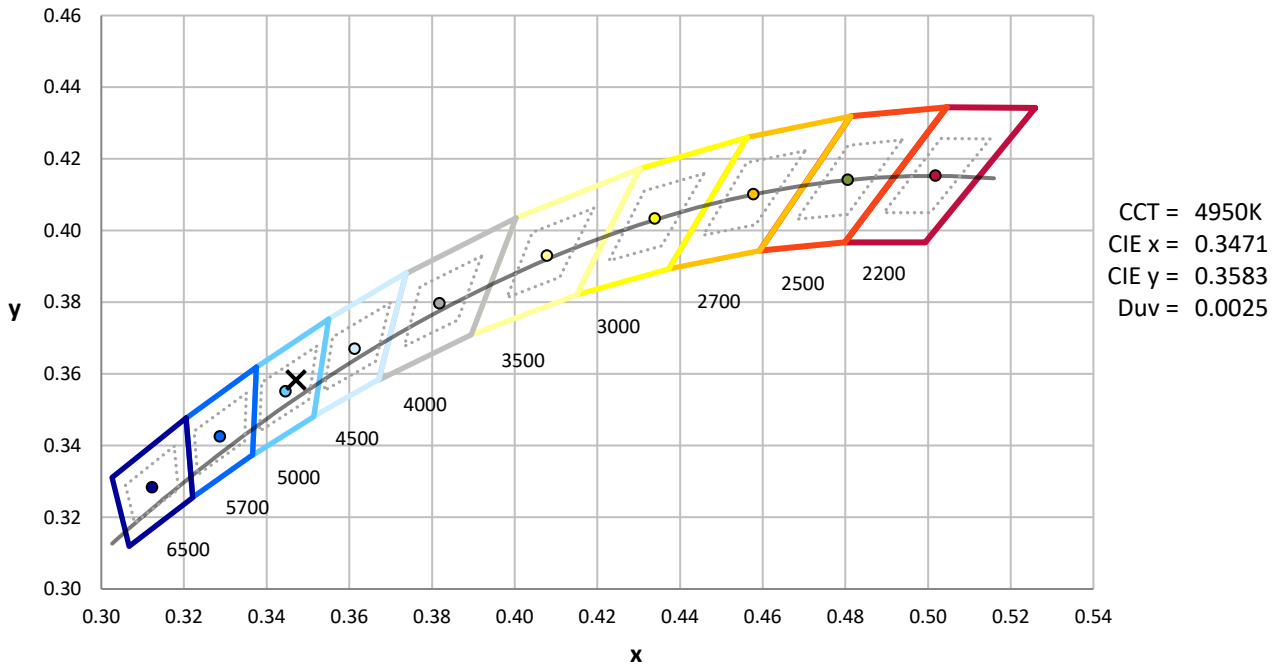
| Measurement and Test Equipment | | | |
|--------------------------------|-----------------------|------------------|----------------------|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | IN0058 | 6/18/2024 | 12/18/2024 |
| Power Meter | INXT2011004 |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

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CIE 1931 Chromaticity Diagram



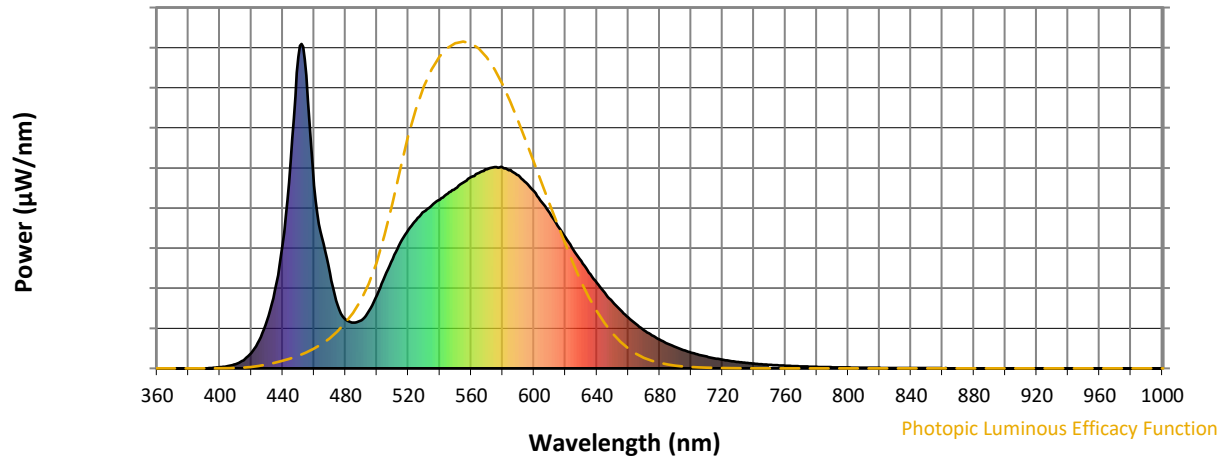
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2406-133-5

Photopic Flux vs. Wavelength

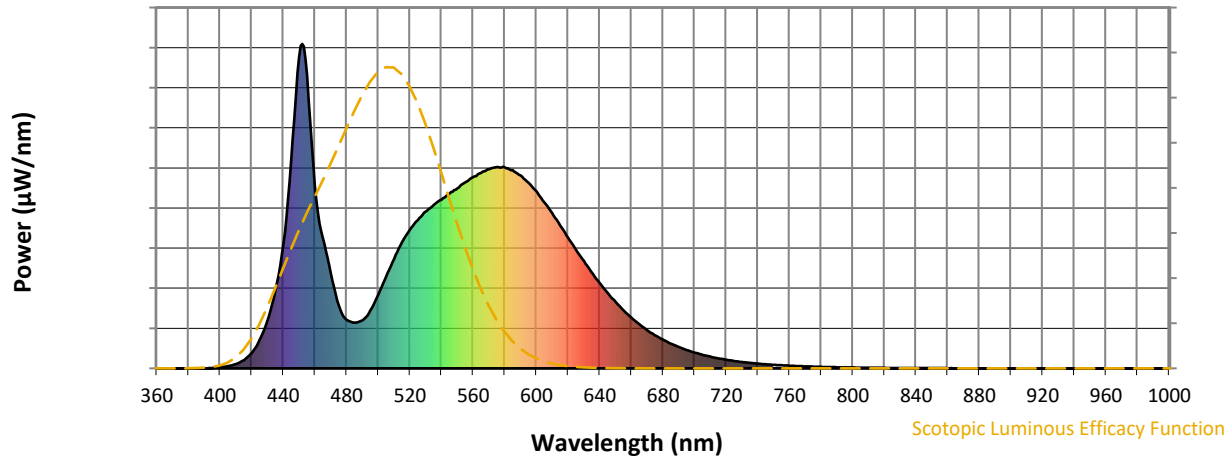


Photopic Lumens: NR

| 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 | 148 | NR | 620 | 403 | NR | 750 | 11 | NR | 880 | 0 | NR |
| 365 | 0 | NR | 495 | 178 | NR | 625 | 366 | NR | 755 | 9 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 226 | NR | 630 | 331 | NR | 760 | 8 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 283 | NR | 635 | 295 | NR | 765 | 7 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 338 | NR | 640 | 263 | NR | 770 | 6 | NR | 900 | 0 | NR |
| 385 | 0 | NR | 515 | 387 | NR | 645 | 232 | NR | 775 | 5 | NR | 905 | 0 | NR |
| 390 | 0 | NR | 520 | 428 | NR | 650 | 205 | NR | 780 | 5 | NR | 910 | 0 | NR |
| 395 | 1 | NR | 525 | 457 | NR | 655 | 179 | NR | 785 | 4 | NR | 915 | 0 | NR |
| 400 | 4 | NR | 530 | 484 | NR | 660 | 156 | NR | 790 | 3 | NR | 920 | 0 | NR |
| 405 | 7 | NR | 535 | 503 | NR | 665 | 136 | NR | 795 | 3 | NR | 925 | 0 | NR |
| 410 | 13 | NR | 540 | 520 | NR | 670 | 118 | NR | 800 | 3 | NR | 930 | 0 | NR |
| 415 | 25 | NR | 545 | 538 | NR | 675 | 102 | NR | 805 | 2 | NR | 935 | 0 | NR |
| 420 | 48 | NR | 550 | 555 | NR | 680 | 89 | NR | 810 | 2 | NR | 940 | 0 | NR |
| 425 | 87 | NR | 555 | 573 | NR | 685 | 76 | NR | 815 | 2 | NR | 945 | 0 | NR |
| 430 | 147 | NR | 560 | 590 | NR | 690 | 66 | NR | 820 | 2 | NR | 950 | 0 | NR |
| 435 | 242 | NR | 565 | 603 | NR | 695 | 56 | NR | 825 | 1 | NR | 955 | 0 | NR |
| 440 | 384 | NR | 570 | 614 | NR | 700 | 49 | NR | 830 | 1 | NR | 960 | 0 | NR |
| 445 | 638 | NR | 575 | 621 | NR | 705 | 42 | NR | 835 | 1 | NR | 965 | 0 | NR |
| 450 | 960 | NR | 580 | 619 | NR | 710 | 36 | NR | 840 | 1 | NR | 970 | 0 | NR |
| 455 | 902 | NR | 585 | 611 | NR | 715 | 31 | NR | 845 | 1 | NR | 975 | 0 | NR |
| 460 | 564 | NR | 590 | 594 | NR | 720 | 27 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 402 | NR | 595 | 572 | NR | 725 | 23 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 293 | NR | 600 | 546 | NR | 730 | 20 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 194 | NR | 605 | 511 | NR | 735 | 17 | NR | 865 | 0 | NR | 995 | 0 | NR |
| 480 | 150 | NR | 610 | 478 | NR | 740 | 14 | NR | 870 | 0 | NR | 1000 | 0 | NR |
| 485 | 141 | NR | 615 | 440 | NR | 745 | 13 | NR | 875 | 0 | NR | | | |

REPORT NUMBER: SP1-2406-133-5

Scotopic Flux vs. Wavelength



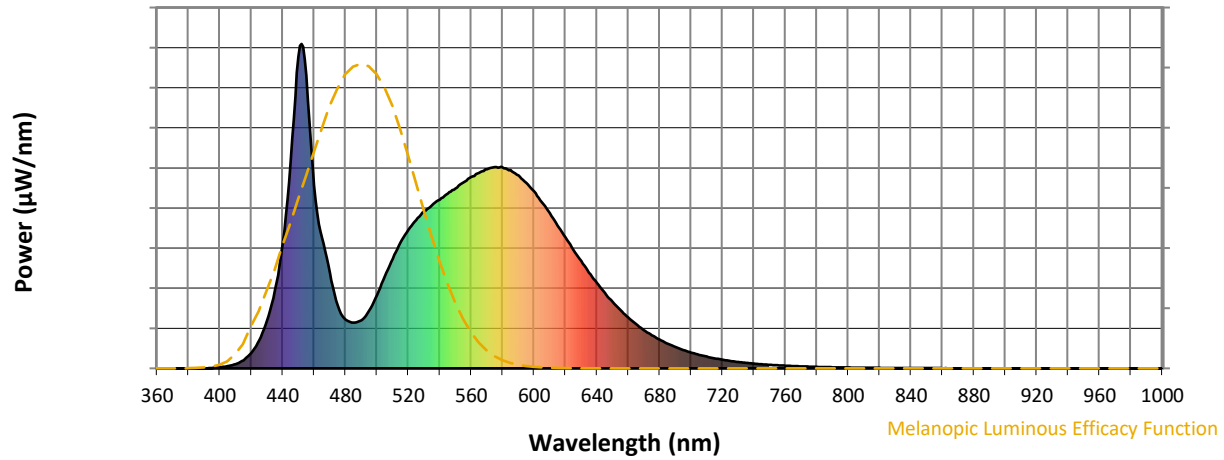
Scotopic Lumens: NR

S/P: 1.8

| 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 | 148 | NR | 620 | 403 | NR | 750 | 11 | NR | 880 | 0 | NR |
| 365 | 0 | NR | 495 | 178 | NR | 625 | 366 | NR | 755 | 9 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 226 | NR | 630 | 331 | NR | 760 | 8 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 283 | NR | 635 | 295 | NR | 765 | 7 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 338 | NR | 640 | 263 | NR | 770 | 6 | NR | 900 | 0 | NR |
| 385 | 0 | NR | 515 | 387 | NR | 645 | 232 | NR | 775 | 5 | NR | 905 | 0 | NR |
| 390 | 0 | NR | 520 | 428 | NR | 650 | 205 | NR | 780 | 5 | NR | 910 | 0 | NR |
| 395 | 1 | NR | 525 | 457 | NR | 655 | 179 | NR | 785 | 4 | NR | 915 | 0 | NR |
| 400 | 4 | NR | 530 | 484 | NR | 660 | 156 | NR | 790 | 3 | NR | 920 | 0 | NR |
| 405 | 7 | NR | 535 | 503 | NR | 665 | 136 | NR | 795 | 3 | NR | 925 | 0 | NR |
| 410 | 13 | NR | 540 | 520 | NR | 670 | 118 | NR | 800 | 3 | NR | 930 | 0 | NR |
| 415 | 25 | NR | 545 | 538 | NR | 675 | 102 | NR | 805 | 2 | NR | 935 | 0 | NR |
| 420 | 48 | NR | 550 | 555 | NR | 680 | 89 | NR | 810 | 2 | NR | 940 | 0 | NR |
| 425 | 87 | NR | 555 | 573 | NR | 685 | 76 | NR | 815 | 2 | NR | 945 | 0 | NR |
| 430 | 147 | NR | 560 | 590 | NR | 690 | 66 | NR | 820 | 2 | NR | 950 | 0 | NR |
| 435 | 242 | NR | 565 | 603 | NR | 695 | 56 | NR | 825 | 1 | NR | 955 | 0 | NR |
| 440 | 384 | NR | 570 | 614 | NR | 700 | 49 | NR | 830 | 1 | NR | 960 | 0 | NR |
| 445 | 638 | NR | 575 | 621 | NR | 705 | 42 | NR | 835 | 1 | NR | 965 | 0 | NR |
| 450 | 960 | NR | 580 | 619 | NR | 710 | 36 | NR | 840 | 1 | NR | 970 | 0 | NR |
| 455 | 902 | NR | 585 | 611 | NR | 715 | 31 | NR | 845 | 1 | NR | 975 | 0 | NR |
| 460 | 564 | NR | 590 | 594 | NR | 720 | 27 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 402 | NR | 595 | 572 | NR | 725 | 23 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 293 | NR | 600 | 546 | NR | 730 | 20 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 194 | NR | 605 | 511 | NR | 735 | 17 | NR | 865 | 0 | NR | 995 | 0 | NR |
| 480 | 150 | NR | 610 | 478 | NR | 740 | 14 | NR | 870 | 0 | NR | 1000 | 0 | NR |
| 485 | 141 | NR | 615 | 440 | NR | 745 | 13 | NR | 875 | 0 | NR | | | |

REPORT NUMBER: SP1-2406-133-5

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 3.74

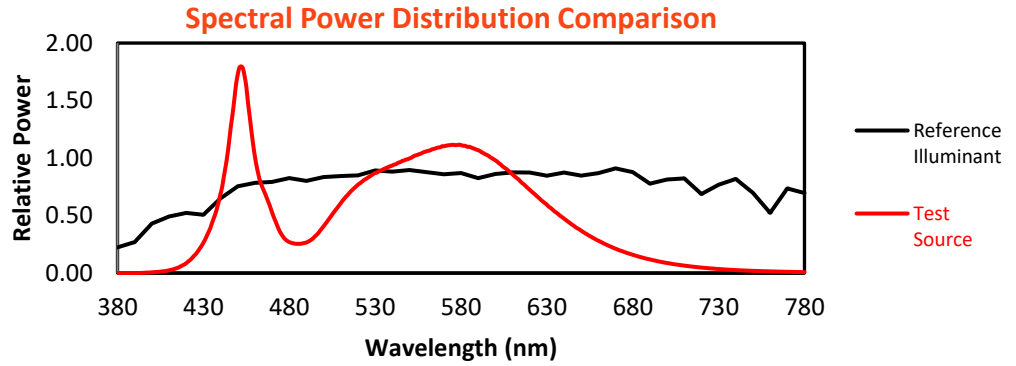
| λ (nm) | Power W [^] /nm | Lumens (φ/nm) | λ (nm) | Power W [^] /nm | Lumens (φ/nm) | λ (nm) | Power W [^] /nm | Lumens (φ/nm) | λ (nm) | Power W [^] /nm | Lumens (φ/nm) | λ (nm) | Power W [^] /nm | Lumens (φ/nm) |
|--------|--------------------------|---------------|--------|--------------------------|---------------|--------|--------------------------|---------------|--------|--------------------------|---------------|--------|--------------------------|---------------|
| 360 | 0 | NR | 490 | 148 | NR | 620 | 403 | NR | 750 | 11 | NR | 880 | 0 | NR |
| 365 | 0 | NR | 495 | 178 | NR | 625 | 366 | NR | 755 | 9 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 226 | NR | 630 | 331 | NR | 760 | 8 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 283 | NR | 635 | 295 | NR | 765 | 7 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 338 | NR | 640 | 263 | NR | 770 | 6 | NR | 900 | 0 | NR |
| 385 | 0 | NR | 515 | 387 | NR | 645 | 232 | NR | 775 | 5 | NR | 905 | 0 | NR |
| 390 | 0 | NR | 520 | 428 | NR | 650 | 205 | NR | 780 | 5 | NR | 910 | 0 | NR |
| 395 | 1 | NR | 525 | 457 | NR | 655 | 179 | NR | 785 | 4 | NR | 915 | 0 | NR |
| 400 | 4 | NR | 530 | 484 | NR | 660 | 156 | NR | 790 | 3 | NR | 920 | 0 | NR |
| 405 | 7 | NR | 535 | 503 | NR | 665 | 136 | NR | 795 | 3 | NR | 925 | 0 | NR |
| 410 | 13 | NR | 540 | 520 | NR | 670 | 118 | NR | 800 | 3 | NR | 930 | 0 | NR |
| 415 | 25 | NR | 545 | 538 | NR | 675 | 102 | NR | 805 | 2 | NR | 935 | 0 | NR |
| 420 | 48 | NR | 550 | 555 | NR | 680 | 89 | NR | 810 | 2 | NR | 940 | 0 | NR |
| 425 | 87 | NR | 555 | 573 | NR | 685 | 76 | NR | 815 | 2 | NR | 945 | 0 | NR |
| 430 | 147 | NR | 560 | 590 | NR | 690 | 66 | NR | 820 | 2 | NR | 950 | 0 | NR |
| 435 | 242 | NR | 565 | 603 | NR | 695 | 56 | NR | 825 | 1 | NR | 955 | 0 | NR |
| 440 | 384 | NR | 570 | 614 | NR | 700 | 49 | NR | 830 | 1 | NR | 960 | 0 | NR |
| 445 | 638 | NR | 575 | 621 | NR | 705 | 42 | NR | 835 | 1 | NR | 965 | 0 | NR |
| 450 | 960 | NR | 580 | 619 | NR | 710 | 36 | NR | 840 | 1 | NR | 970 | 0 | NR |
| 455 | 902 | NR | 585 | 611 | NR | 715 | 31 | NR | 845 | 1 | NR | 975 | 0 | NR |
| 460 | 564 | NR | 590 | 594 | NR | 720 | 27 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 402 | NR | 595 | 572 | NR | 725 | 23 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 293 | NR | 600 | 546 | NR | 730 | 20 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 194 | NR | 605 | 511 | NR | 735 | 17 | NR | 865 | 0 | NR | 995 | 0 | NR |
| 480 | 150 | NR | 610 | 478 | NR | 740 | 14 | NR | 870 | 0 | NR | 1000 | 0 | NR |
| 485 | 141 | NR | 615 | 440 | NR | 745 | 13 | NR | 875 | 0 | NR | | | |

REPORT NUMBER: SP1-2406-133-5

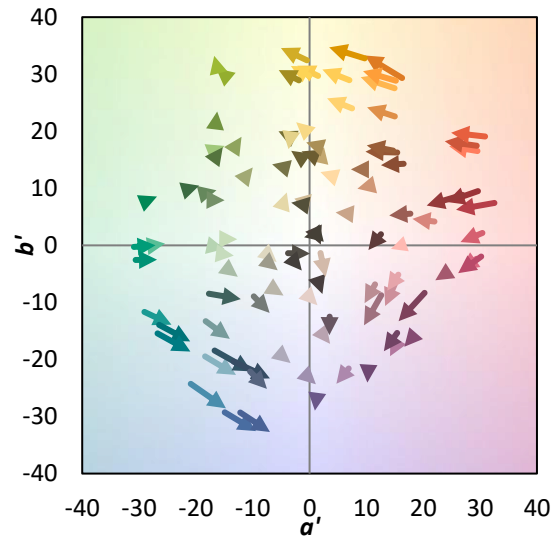
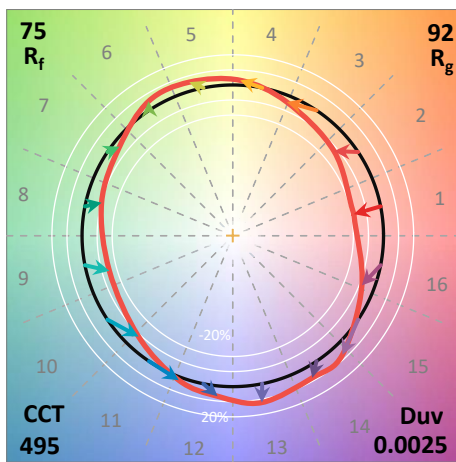
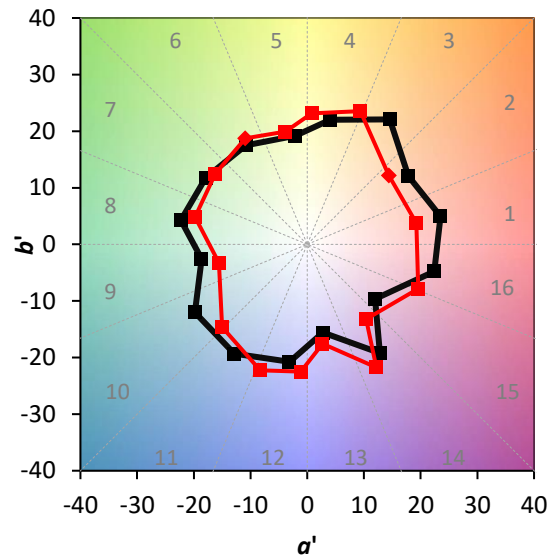
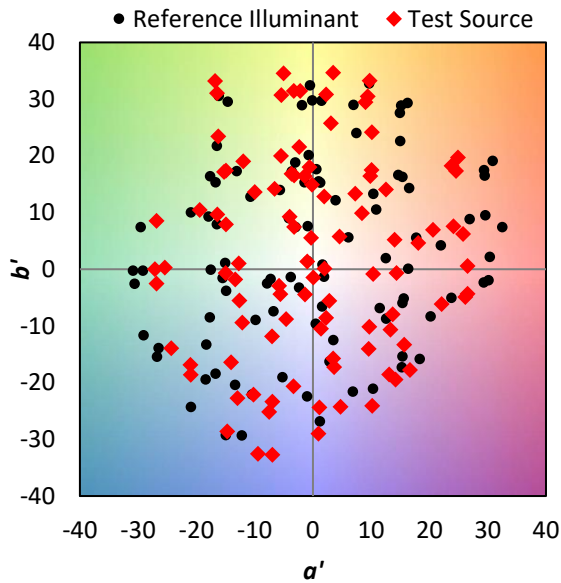
TM-30-18

Summary

$R_f = 74.8$
 $R_g = 92.4$
 CIE $R_a = 73.0$
 $R_9 = -35.4$



Color Vector Graphics

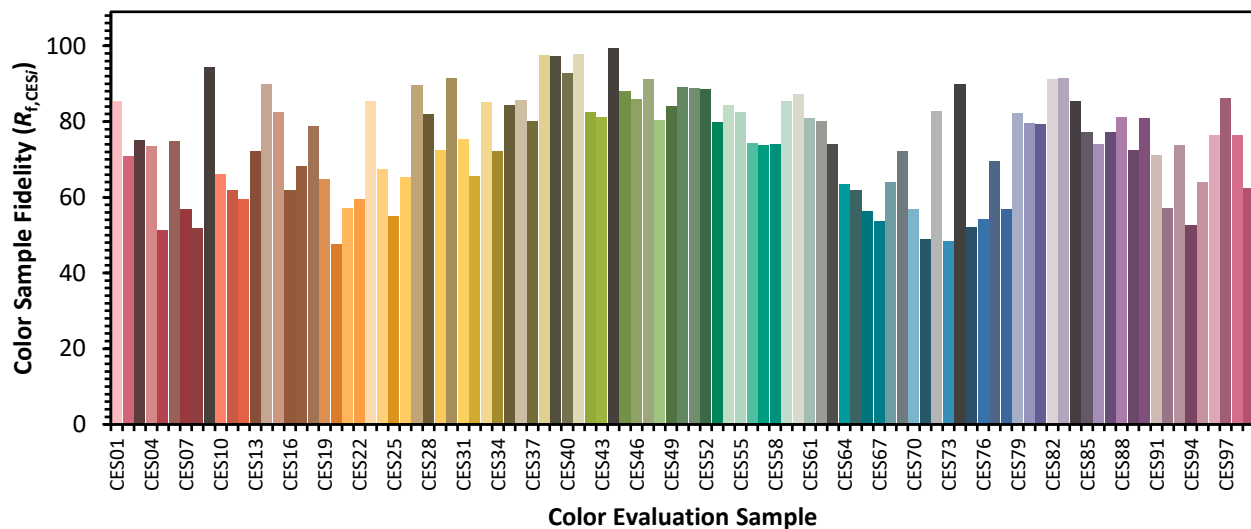


REPORT NUMBER: SP1-2406-133-5

TM-30-18

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

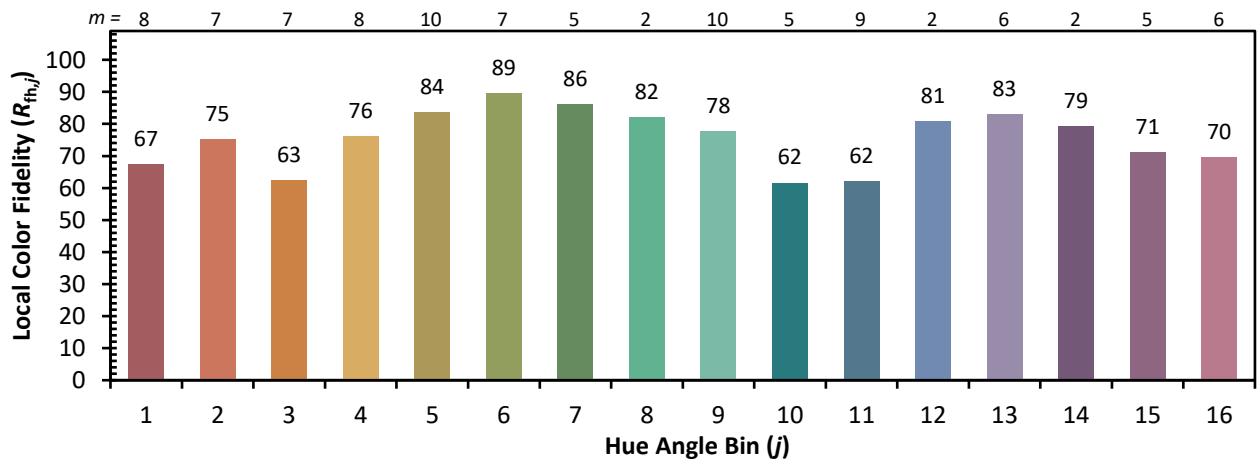
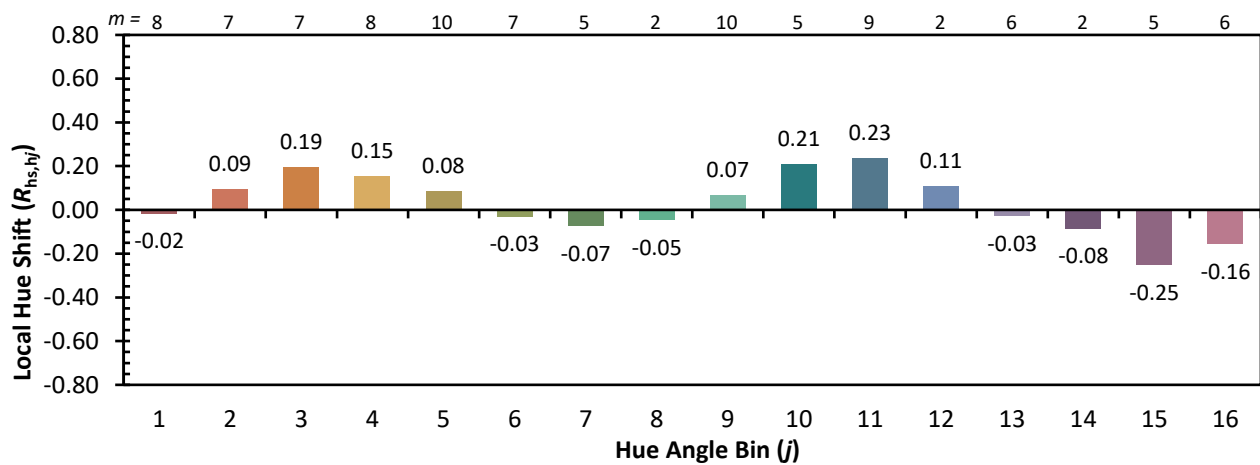
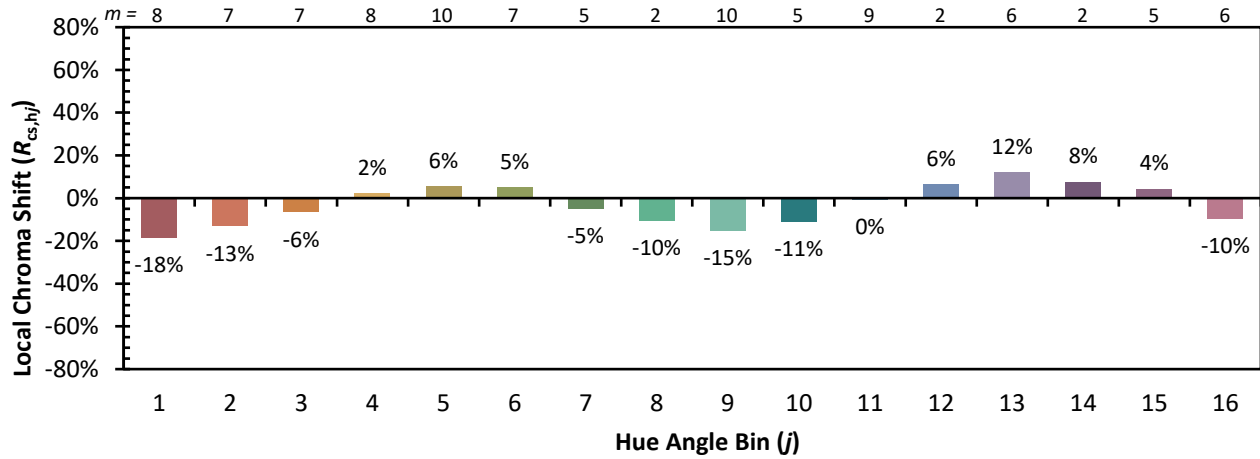
| | | | |
|------------|------------|------------|------------|
| CES01 = 85 | CES26 = 65 | CES51 = 89 | CES76 = 54 |
| CES02 = 60 | CES27 = 90 | CES52 = 88 | CES77 = 69 |
| CES03 = 30 | CES28 = 82 | CES53 = 80 | CES78 = 57 |
| CES04 = 69 | CES29 = 72 | CES54 = 84 | CES79 = 82 |
| CES05 = 46 | CES30 = 91 | CES55 = 82 | CES80 = 79 |
| CES06 = 50 | CES31 = 75 | CES56 = 74 | CES81 = 79 |
| CES07 = 39 | CES32 = 66 | CES57 = 74 | CES82 = 91 |
| CES08 = 38 | CES33 = 85 | CES58 = 74 | CES83 = 91 |
| CES09 = 29 | CES34 = 72 | CES59 = 85 | CES84 = 85 |
| CES10 = 73 | CES35 = 84 | CES60 = 87 | CES85 = 77 |
| CES11 = 56 | CES36 = 86 | CES61 = 81 | CES86 = 74 |
| CES12 = 62 | CES37 = 80 | CES62 = 80 | CES87 = 77 |
| CES13 = 41 | CES38 = 98 | CES63 = 74 | CES88 = 81 |
| CES14 = 74 | CES39 = 97 | CES64 = 63 | CES89 = 72 |
| CES15 = 70 | CES40 = 93 | CES65 = 62 | CES90 = 81 |
| CES16 = 46 | CES41 = 98 | CES66 = 56 | CES91 = 71 |
| CES17 = 49 | CES42 = 83 | CES67 = 54 | CES92 = 57 |
| CES18 = 55 | CES43 = 81 | CES68 = 64 | CES93 = 74 |
| CES19 = 71 | CES44 = 99 | CES69 = 72 | CES94 = 53 |
| CES20 = 64 | CES45 = 88 | CES70 = 57 | CES95 = 64 |
| CES21 = 85 | CES46 = 86 | CES71 = 49 | CES96 = 76 |
| CES22 = 77 | CES47 = 91 | CES72 = 83 | CES97 = 86 |
| CES23 = 91 | CES48 = 80 | CES73 = 48 | CES98 = 77 |
| CES24 = 90 | CES49 = 84 | CES74 = 90 | CES99 = 62 |
| CES25 = 71 | CES50 = 89 | CES75 = 52 | |



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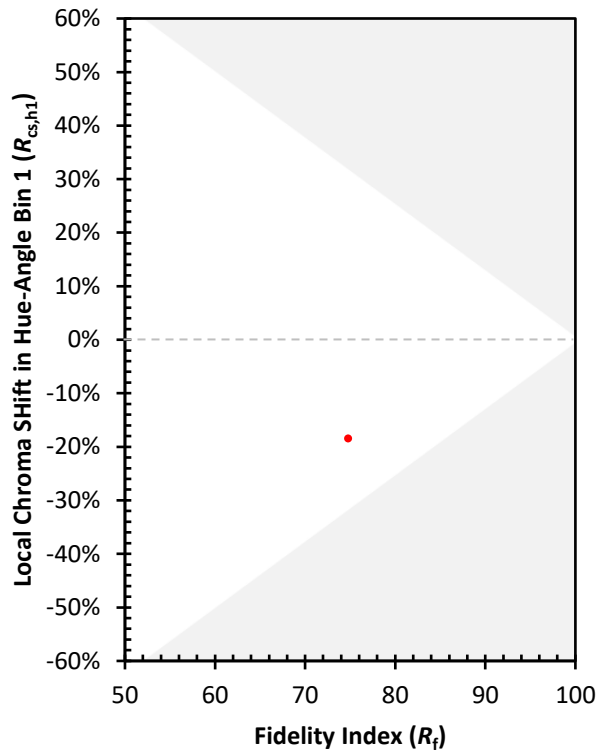
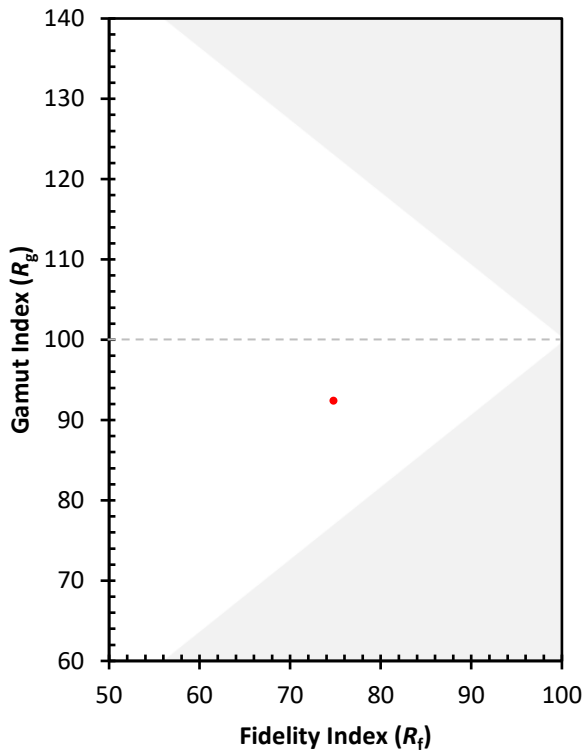
Color Rendition by Hue-Angle Bin



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Measure Comparisons



(END OF REPORT)