

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: P856234

Luminaire Tested: **FFX-CLB-30-750-U-FR-T3-UPLR**

Issue Date: 07/16/2024



Test Information

Test Method: LM-79-08
Report Number: P856234
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: FFX-CLB-30-750-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

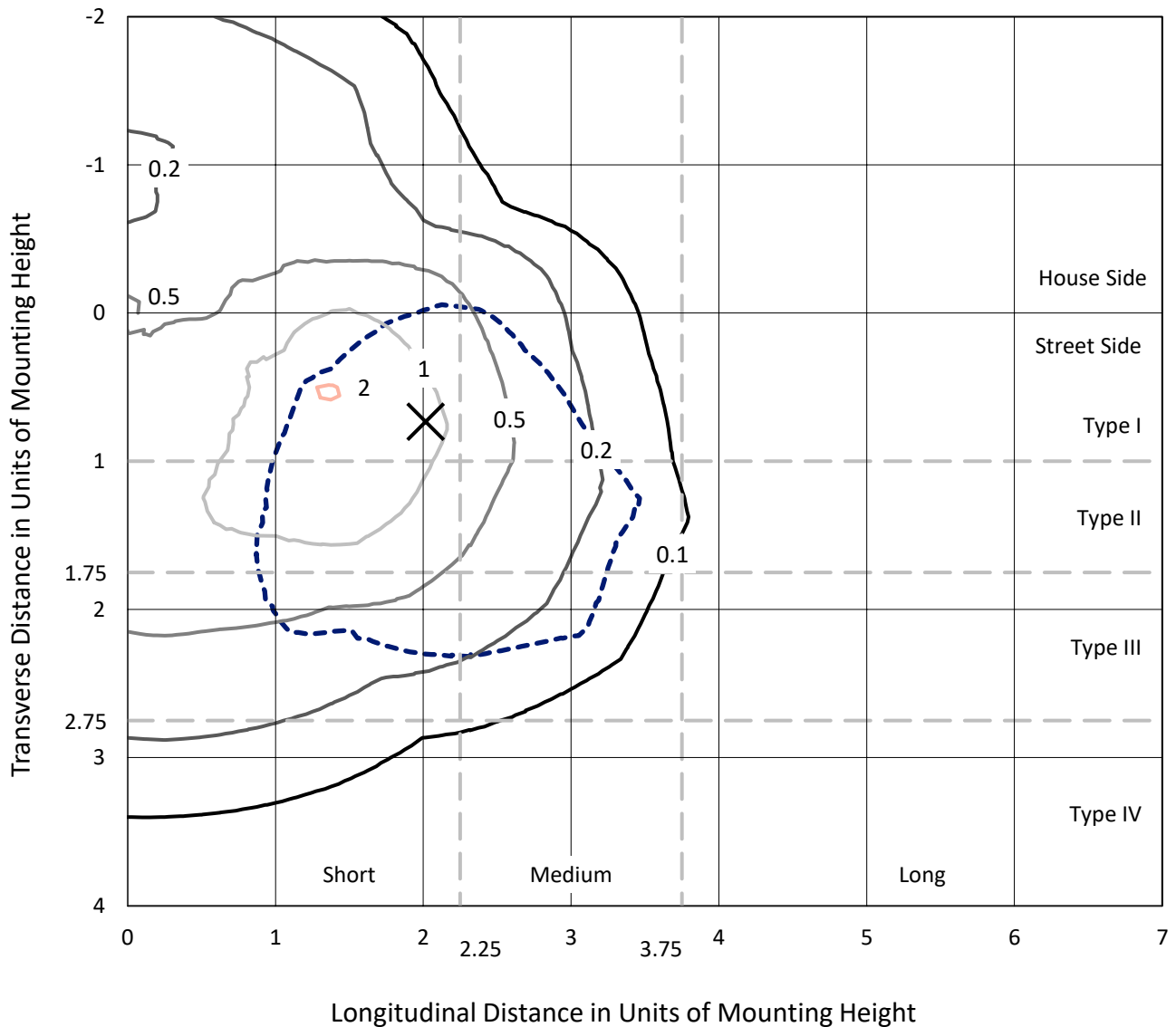
Lumens per Lamp: N/A
Luminaire Lumens: 4783.4 lumens
Efficiency: N/A
Efficacy: 156.8 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification: Type III - Short
BUG Rating: B2 - U3 - G3

Input Watts (W): 30.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 10.6%%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

REPORT NUMBER: P856234
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Iso-Footcandle Lines of Horizontal Illumination

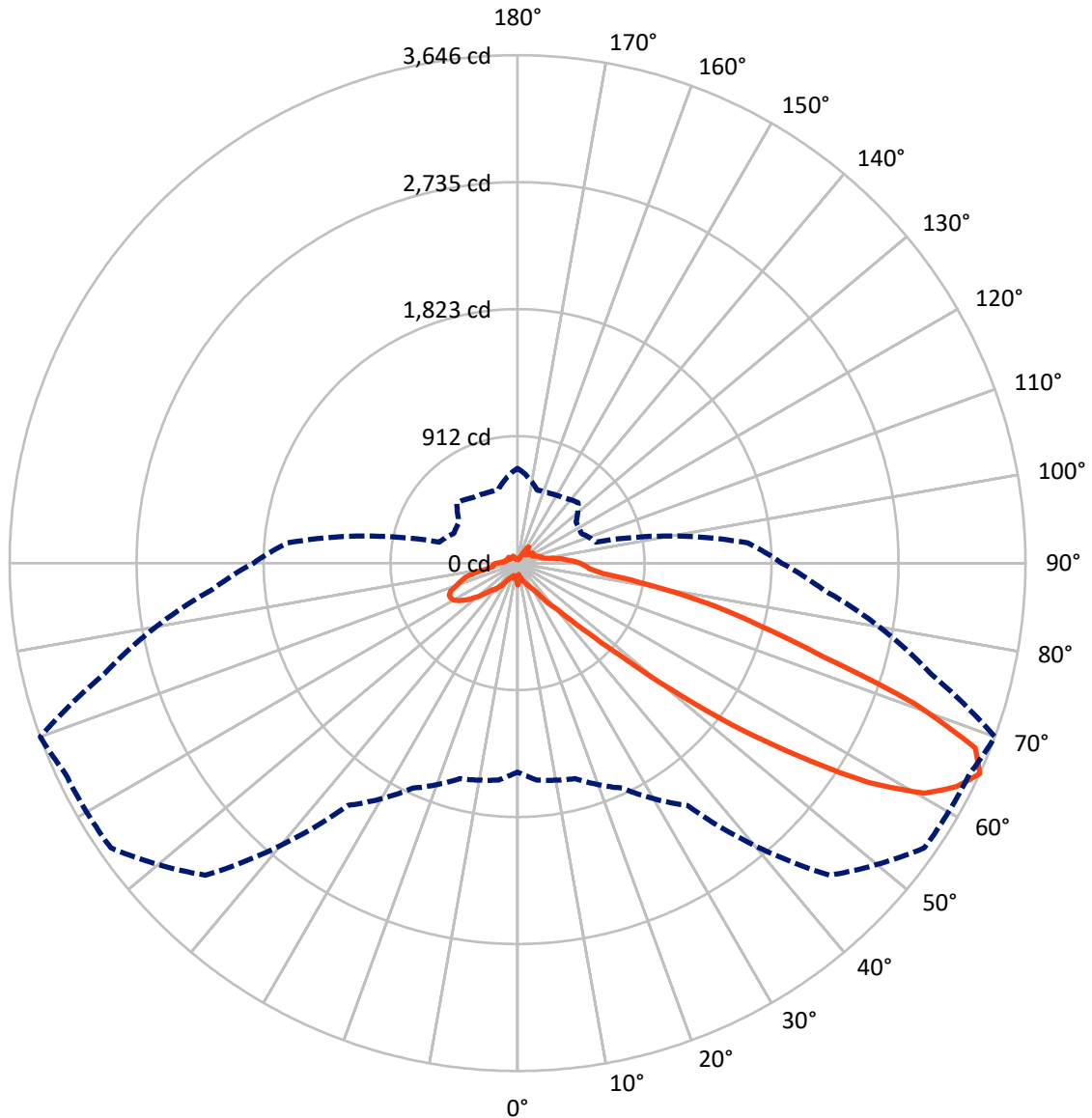
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.1 fc
 Type III - Short - N/A

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CATALOG NUMBER: FFX-CLB-30-750-U-FR-T3-UPLR

Luminous Intensity Polar Plot



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

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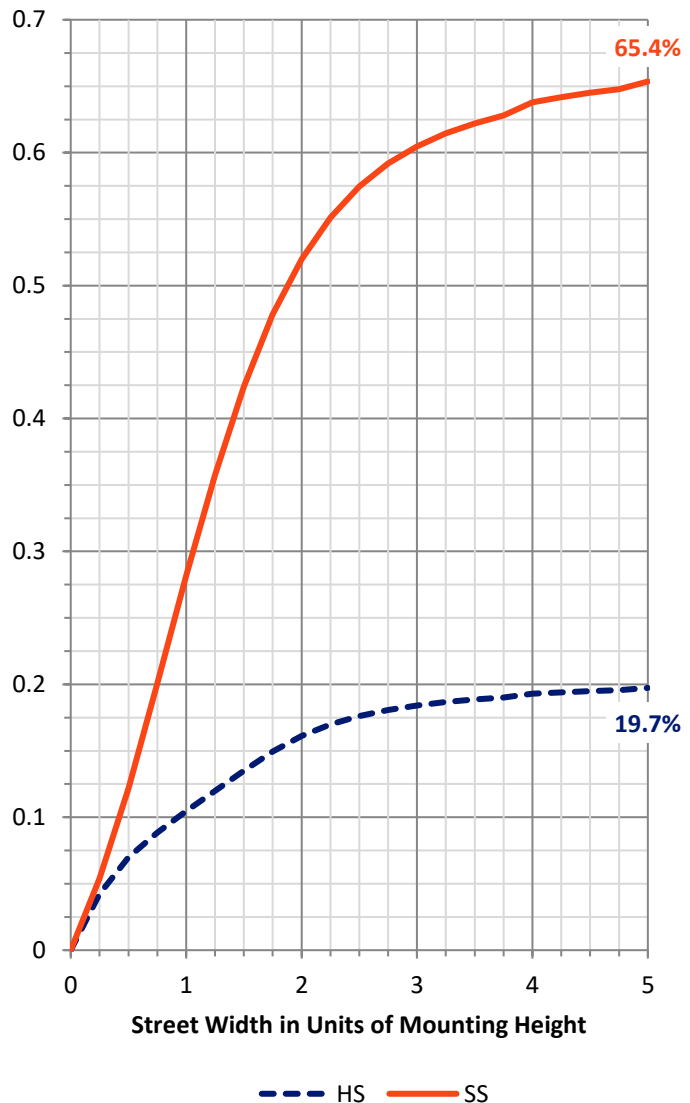
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 981.1 | 183.8 | 1164.9 |
| | % Fixture | 20.5 | 3.8 | 24.4 |
| Street Side | Lumens | 3235.1 | 383.4 | 3618.6 |
| | % Fixture | 67.6 | 8.0 | 75.6 |
| Total | Lumens | 4216.2 | 567.2 | 4783.4 |
| | % Fixture | 88.1 | 11.9 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 10.2 | 0.2 |
| 10°-20° | 32.0 | 0.7 |
| 20°-30° | 64.6 | 1.3 |
| 30°-40° | 136.6 | 2.9 |
| 40°-50° | 318.5 | 6.7 |
| 50°-60° | 949.3 | 19.8 |
| 60°-70° | 1521.2 | 31.8 |
| 70°-80° | 873.9 | 18.3 |
| 80°-90° | 309.9 | 6.5 |
| 90°-100° | 182.8 | 3.8 |
| 100°-110° | 110.4 | 2.3 |
| 110°-120° | 83.0 | 1.7 |
| 120°-130° | 70.3 | 1.5 |
| 130°-140° | 46.7 | 1.0 |
| 140°-150° | 43.8 | 0.9 |
| 150°-160° | 19.4 | 0.4 |
| 160°-170° | 8.0 | 0.2 |
| 170°-180° | 2.7 | 0.1 |
| 0°-90° | 4216.2 | 88.1 |
| 0°-180° | 4783.4 | 100.0 |



REPORT NUMBER: P856234

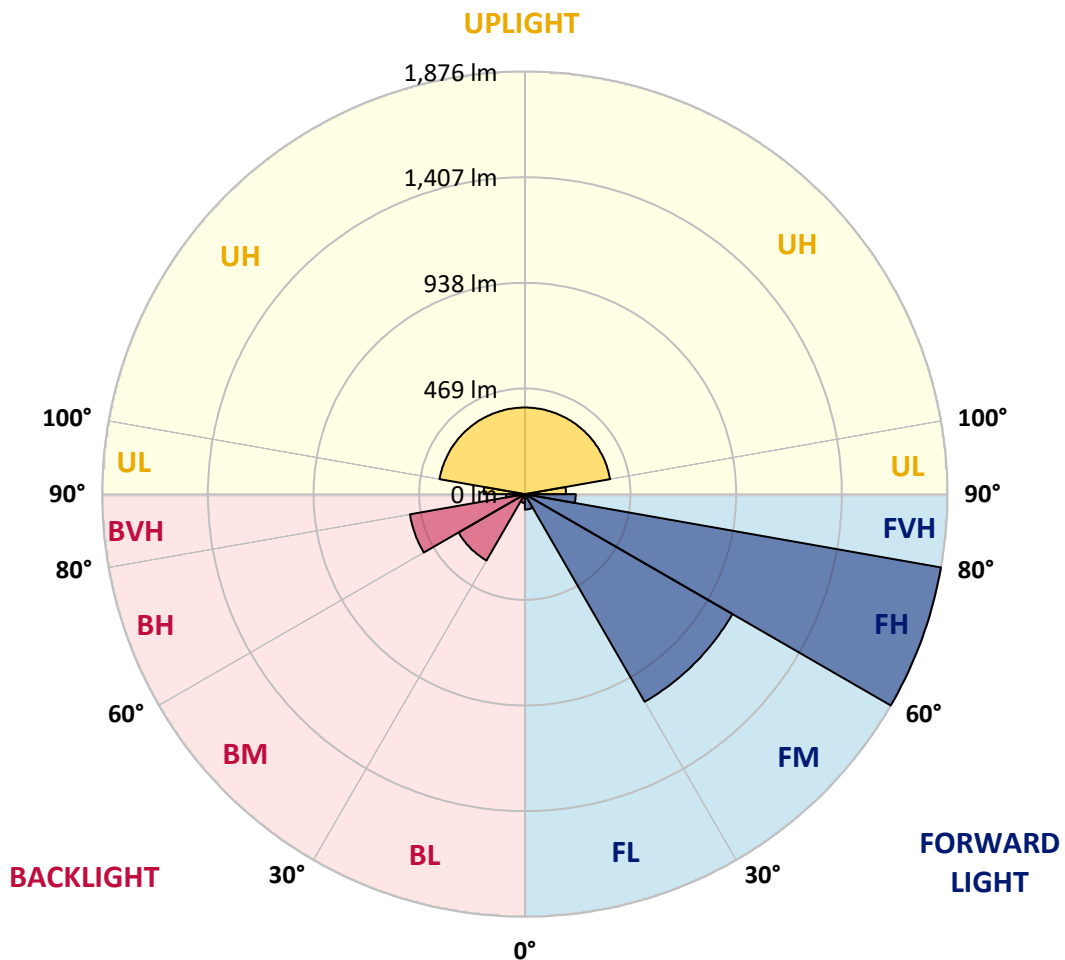
CATALOG NUMBER: FFX-CLB-30-750-U-FR-T3-UPLR

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|--------|---------|
| | | | B | U | G |
| FL (0°-30°) | 68.5 | 1.4 | | | |
| FM (30°-60°) | 1064.3 | 22.3 | | | |
| FH (60°-80°) | 1876.5 | 39.2 | | | G2/5000 |
| FVH (80°-90°) | 225.8 | 4.7 | | | G3/500 |
| BL (0°-30°) | 38.2 | 0.8 | B0/110 | | |
| BM (30°-60°) | 340.1 | 7.1 | B1/1000 | | |
| BH (60°-80°) | 518.6 | 10.8 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 84.2 | 1.8 | | | G1/100 |
| UL (90°-100°) | 182.8 | 3.8 | | U3/500 | |
| UH (100°-180°) | 384.4 | 8.0 | | U3/500 | |

BUG Rating: B2-U3-G3

Type III Short





REPORT NUMBER: P856234

CATALOG NUMBER: FFX-CLB-30-750-U-FR-T3-UPLR

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 70° | 75° | 85° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 158.7 | 158.7 | 158.7 | 158.7 | 158.7 | 158.7 | 158.7 | 158.7 | 158.7 | 158.7 | 158.7 |
| 2.5° | 132.3 | 131.3 | 133.8 | 135.9 | 138.4 | 134.8 | 128.8 | 134.8 | 136.9 | 143.0 | 147.5 |
| 5° | 112.5 | 113.0 | 115.6 | 121.2 | 126.2 | 125.2 | 109.5 | 89.2 | 83.1 | 80.6 | 81.1 |
| 7.5° | 111.5 | 111.0 | 109.5 | 109.0 | 112.0 | 123.2 | 121.7 | 107.0 | 95.8 | 86.2 | 76.5 |
| 10° | 117.6 | 119.1 | 120.7 | 120.7 | 118.6 | 111.5 | 111.0 | 110.0 | 106.0 | 101.4 | 95.3 |
| 12.5° | 145.5 | 147.5 | 149.0 | 144.0 | 137.4 | 130.3 | 124.7 | 115.6 | 111.5 | 109.0 | 104.4 |
| 15° | 175.9 | 177.9 | 175.4 | 165.8 | 154.1 | 140.9 | 135.9 | 136.4 | 130.8 | 124.2 | 114.6 |
| 17.5° | 192.1 | 191.1 | 180.5 | 169.3 | 160.2 | 150.1 | 143.0 | 138.4 | 136.4 | 133.8 | 124.2 |
| 20° | 182.0 | 179.5 | 172.9 | 168.3 | 167.3 | 161.7 | 157.2 | 153.1 | 150.6 | 145.0 | 133.3 |
| 22.5° | 174.4 | 174.4 | 173.4 | 172.4 | 178.4 | 175.9 | 173.9 | 168.3 | 164.8 | 157.7 | 140.4 |
| 25° | 184.0 | 184.0 | 184.5 | 183.0 | 191.1 | 191.1 | 191.1 | 185.0 | 180.5 | 170.3 | 149.5 |
| 27.5° | 197.7 | 197.2 | 198.7 | 197.7 | 204.8 | 206.3 | 209.4 | 204.8 | 198.2 | 186.0 | 159.7 |
| 30° | 212.4 | 212.4 | 213.9 | 214.9 | 222.0 | 225.6 | 229.1 | 227.1 | 219.0 | 204.3 | 176.9 |
| 32.5° | 228.1 | 227.6 | 232.2 | 237.2 | 241.3 | 247.9 | 249.4 | 254.5 | 246.4 | 229.1 | 202.3 |
| 35° | 250.9 | 252.5 | 264.6 | 275.3 | 286.9 | 291.0 | 298.1 | 317.9 | 309.7 | 286.4 | 255.5 |
| 37.5° | 363.0 | 355.4 | 352.3 | 340.2 | 338.6 | 362.5 | 371.1 | 389.8 | 373.6 | 342.2 | 295.0 |
| 40° | 384.8 | 375.6 | 371.6 | 359.9 | 364.0 | 413.2 | 404.5 | 472.0 | 432.4 | 382.2 | 351.8 |
| 42.5° | 362.5 | 360.9 | 408.6 | 417.7 | 412.6 | 490.7 | 474.0 | 598.7 | 556.6 | 440.0 | 406.1 |
| 45° | 437.5 | 433.4 | 453.7 | 469.9 | 482.6 | 623.0 | 612.9 | 744.2 | 725.9 | 535.8 | 502.4 |
| 47.5° | 493.8 | 489.7 | 513.0 | 567.3 | 641.3 | 793.4 | 852.7 | 1050.9 | 989.0 | 737.1 | 661.1 |
| 50° | 662.1 | 659.5 | 722.4 | 780.7 | 902.9 | 1127.4 | 1290.2 | 1504.1 | 1413.3 | 1029.6 | 889.7 |
| 52.5° | 821.2 | 829.4 | 902.9 | 1014.9 | 1144.2 | 1549.7 | 1781.9 | 1931.9 | 1930.9 | 1340.9 | 1142.1 |
| 55° | 935.3 | 962.7 | 1049.4 | 1251.6 | 1431.1 | 1924.3 | 2237.6 | 2348.7 | 2441.9 | 1789.0 | 1391.0 |
| 57.5° | 1156.8 | 1204.5 | 1287.6 | 1487.9 | 1719.5 | 2377.5 | 2824.7 | 2806.4 | 2974.2 | 2253.9 | 1661.8 |
| 60° | 1384.5 | 1440.2 | 1468.1 | 1652.1 | 1956.3 | 2814.0 | 3228.2 | 3185.6 | 3354.4 | 2658.4 | 1946.7 |
| 62.5° | 1455.4 | 1510.2 | 1537.5 | 1737.8 | 2127.1 | 3061.4 | 3414.2 | 3431.0 | 3535.9 | 2946.8 | 2115.5 |
| 65° | 1500.0 | 1562.9 | 1602.4 | 1782.9 | 2123.6 | 3169.4 | 3564.8 | 3580.5 | 3646.4 | 3071.0 | 2202.7 |
| 67.5° | 1491.9 | 1562.4 | 1613.1 | 1774.8 | 2006.0 | 3079.7 | 3527.3 | 3456.3 | 3544.5 | 2982.3 | 2110.9 |
| 70° | 1330.7 | 1392.1 | 1442.8 | 1567.5 | 1674.4 | 2594.5 | 3051.8 | 2934.7 | 3025.9 | 2491.6 | 1742.9 |
| 72.5° | 1087.4 | 1112.7 | 1156.8 | 1215.6 | 1268.9 | 1924.9 | 2327.9 | 2227.5 | 2280.2 | 1869.1 | 1305.9 |
| 75° | 893.2 | 888.2 | 927.7 | 970.3 | 953.6 | 1406.3 | 1841.7 | 1750.0 | 1799.1 | 1419.4 | 1041.8 |
| 77.5° | 662.1 | 659.5 | 716.8 | 713.3 | 687.9 | 973.8 | 1460.0 | 1393.6 | 1400.2 | 1048.4 | 780.2 |
| 80° | 397.9 | 405.6 | 461.3 | 472.5 | 442.6 | 610.9 | 1042.3 | 1010.8 | 963.7 | 716.3 | 547.0 |
| 82.5° | 279.3 | 291.0 | 320.4 | 332.6 | 317.9 | 446.1 | 690.5 | 668.7 | 612.9 | 519.6 | 385.3 |
| 85° | 284.9 | 286.9 | 290.5 | 291.5 | 284.9 | 400.5 | 535.8 | 523.7 | 520.1 | 435.5 | 317.9 |
| 87.5° | 284.9 | 289.5 | 292.5 | 292.0 | 280.3 | 375.1 | 494.3 | 475.0 | 479.6 | 407.1 | 307.2 |
| 90° | 255.5 | 263.6 | 263.1 | 264.6 | 255.0 | 339.1 | 448.1 | 432.4 | 438.5 | 367.0 | 279.3 |
| 92.5° | 208.9 | 214.4 | 220.0 | 230.7 | 216.5 | 288.4 | 378.7 | 364.0 | 371.6 | 312.3 | 237.8 |
| 95° | 194.2 | 199.2 | 202.8 | 208.4 | 194.2 | 256.5 | 335.1 | 317.3 | 320.4 | 265.1 | 201.3 |
| 97.5° | 157.2 | 160.2 | 164.2 | 165.3 | 155.1 | 197.2 | 255.0 | 239.8 | 241.8 | 205.8 | 158.2 |
| 100° | 131.8 | 134.3 | 137.9 | 137.9 | 131.3 | 163.2 | 201.8 | 193.7 | 192.6 | 168.3 | 133.8 |
| 102.5° | 124.7 | 125.7 | 131.3 | 130.3 | 123.7 | 150.6 | 182.5 | 177.4 | 177.9 | 156.1 | 125.7 |
| 105° | 122.7 | 122.7 | 128.3 | 125.7 | 120.1 | 143.5 | 170.8 | 169.3 | 168.8 | 148.5 | 120.7 |
| 107.5° | 120.7 | 120.7 | 126.2 | 123.7 | 119.1 | 135.4 | 160.7 | 155.6 | 155.1 | 141.4 | 114.1 |
| 110° | 112.5 | 114.1 | 120.1 | 117.1 | 113.6 | 127.7 | 147.5 | 144.0 | 144.0 | 133.3 | 109.0 |



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 CATALOG NUMBER: FFX-CLB-30-750-U-FR-T3-UPLR

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 70° | 75° | 85° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 99.9 | 100.9 | 106.5 | 103.9 | 101.4 | 113.6 | 130.8 | 126.2 | 126.7 | 119.6 | 101.9 |
| 115° | 93.3 | 94.8 | 100.4 | 96.8 | 94.8 | 106.0 | 121.2 | 118.1 | 119.1 | 112.5 | 96.3 |
| 117.5° | 93.8 | 94.3 | 98.3 | 98.9 | 94.8 | 103.9 | 112.0 | 113.0 | 114.6 | 110.5 | 97.8 |
| 120° | 114.1 | 111.5 | 113.6 | 111.0 | 109.0 | 119.6 | 129.3 | 130.3 | 129.8 | 122.2 | 97.3 |
| 122.5° | 115.1 | 110.0 | 115.6 | 112.0 | 110.0 | 121.7 | 132.3 | 134.8 | 132.3 | 125.7 | 99.4 |
| 125° | 91.8 | 93.3 | 93.8 | 94.8 | 96.8 | 109.5 | 115.1 | 115.6 | 116.1 | 114.1 | 96.3 |
| 127.5° | 80.6 | 80.1 | 77.6 | 78.1 | 82.6 | 93.8 | 97.8 | 100.9 | 98.9 | 97.8 | 86.7 |
| 130° | 77.1 | 78.1 | 77.6 | 77.6 | 80.1 | 88.7 | 91.8 | 96.3 | 94.8 | 92.8 | 79.1 |
| 132.5° | 71.0 | 72.0 | 76.5 | 82.1 | 81.1 | 84.2 | 85.2 | 89.7 | 90.2 | 90.2 | 79.6 |
| 135° | 67.4 | 68.4 | 72.0 | 79.1 | 77.1 | 78.6 | 78.1 | 82.1 | 82.6 | 83.1 | 75.0 |
| 137.5° | 68.9 | 69.5 | 67.4 | 68.4 | 70.0 | 76.5 | 78.6 | 82.6 | 82.6 | 80.6 | 70.0 |
| 140° | 72.5 | 72.5 | 67.9 | 66.4 | 69.5 | 79.6 | 83.6 | 90.2 | 89.2 | 85.7 | 72.5 |
| 142.5° | 66.9 | 67.9 | 70.5 | 73.5 | 80.1 | 108.0 | 108.0 | 120.7 | 124.7 | 125.7 | 87.7 |
| 145° | 87.2 | 87.7 | 88.7 | 90.2 | 102.9 | 141.4 | 128.8 | 137.9 | 141.4 | 145.0 | 105.4 |
| 147.5° | 100.4 | 101.4 | 100.4 | 96.3 | 108.0 | 121.2 | 115.1 | 119.1 | 123.2 | 124.2 | 106.0 |
| 150° | 78.6 | 77.6 | 77.1 | 76.5 | 89.2 | 93.3 | 88.2 | 87.7 | 90.7 | 93.3 | 82.1 |
| 152.5° | 57.3 | 56.8 | 56.3 | 55.8 | 66.9 | 64.4 | 60.8 | 60.8 | 61.8 | 62.4 | 57.8 |
| 155° | 50.7 | 50.2 | 49.2 | 49.7 | 56.8 | 54.2 | 51.2 | 50.2 | 51.2 | 50.7 | 48.2 |
| 157.5° | 41.6 | 40.6 | 40.6 | 42.6 | 46.1 | 43.1 | 41.1 | 39.5 | 40.0 | 39.5 | 40.0 |
| 160° | 34.5 | 34.0 | 34.5 | 37.0 | 39.0 | 36.5 | 34.5 | 33.5 | 33.5 | 34.5 | 36.5 |
| 162.5° | 30.9 | 30.4 | 30.9 | 31.9 | 33.0 | 30.4 | 28.9 | 28.9 | 29.4 | 31.4 | 35.5 |
| 165° | 26.9 | 26.9 | 27.4 | 27.9 | 28.4 | 26.9 | 26.4 | 26.4 | 27.4 | 30.4 | 35.0 |
| 167.5° | 25.9 | 25.9 | 25.9 | 25.9 | 25.9 | 25.3 | 24.8 | 26.4 | 27.4 | 28.9 | 31.9 |
| 170° | 25.3 | 24.8 | 25.3 | 25.3 | 25.3 | 25.3 | 25.3 | 26.9 | 26.9 | 27.4 | 28.9 |
| 172.5° | 25.9 | 25.9 | 25.9 | 26.4 | 27.4 | 27.9 | 27.4 | 28.4 | 27.9 | 27.9 | 27.9 |
| 175° | 26.4 | 26.4 | 26.9 | 27.4 | 27.9 | 28.4 | 28.9 | 28.9 | 28.9 | 29.4 | 29.4 |
| 177.5° | 26.4 | 26.4 | 26.9 | 27.4 | 27.9 | 26.9 | 25.9 | 25.3 | 24.8 | 24.8 | 24.8 |
| 180° | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 |



REPORT NUMBER: P856234

CATALOG NUMBER: FFX-CLB-30-750-U-FR-T3-UPLR

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 158.7 | 158.7 | 158.7 | 158.7 | 158.7 | 158.7 | 158.7 | 158.7 | 158.7 | 158.7 | 158.7 |
| 2.5° | 143.5 | 130.8 | 113.0 | 120.7 | 144.0 | 139.4 | 116.1 | 101.9 | 102.9 | 113.0 | 114.1 |
| 5° | 83.6 | 86.2 | 97.8 | 122.2 | 126.7 | 104.9 | 84.7 | 81.6 | 98.3 | 121.7 | 126.2 |
| 7.5° | 75.5 | 75.5 | 85.2 | 118.6 | 133.3 | 109.5 | 82.6 | 74.5 | 87.2 | 106.5 | 109.5 |
| 10° | 91.2 | 88.2 | 89.2 | 101.4 | 107.0 | 87.7 | 74.0 | 70.5 | 77.6 | 80.1 | 79.1 |
| 12.5° | 102.9 | 104.9 | 114.6 | 112.0 | 87.7 | 71.5 | 66.9 | 66.4 | 70.5 | 73.0 | 72.5 |
| 15° | 110.5 | 107.0 | 99.9 | 91.8 | 83.6 | 74.5 | 67.9 | 63.9 | 59.3 | 57.3 | 57.3 |
| 17.5° | 117.6 | 110.5 | 97.8 | 90.2 | 82.1 | 75.5 | 69.5 | 63.4 | 61.3 | 61.8 | 61.8 |
| 20° | 126.2 | 117.6 | 106.0 | 97.3 | 87.7 | 78.6 | 71.0 | 64.4 | 62.9 | 63.4 | 62.9 |
| 22.5° | 132.8 | 125.2 | 113.0 | 101.9 | 91.8 | 81.6 | 74.0 | 67.4 | 65.4 | 64.9 | 64.9 |
| 25° | 140.9 | 134.3 | 121.7 | 108.0 | 95.8 | 86.2 | 79.6 | 72.0 | 68.4 | 67.4 | 67.4 |
| 27.5° | 151.6 | 146.0 | 131.8 | 117.1 | 102.9 | 91.8 | 84.7 | 76.5 | 71.5 | 69.5 | 68.9 |
| 30° | 167.8 | 160.2 | 144.5 | 126.2 | 111.5 | 99.9 | 91.2 | 81.1 | 75.0 | 71.5 | 71.0 |
| 32.5° | 192.1 | 182.5 | 161.7 | 138.9 | 121.2 | 109.0 | 98.3 | 85.7 | 78.1 | 74.0 | 73.5 |
| 35° | 243.8 | 233.2 | 206.8 | 174.9 | 149.0 | 124.2 | 107.5 | 90.7 | 81.1 | 76.0 | 75.5 |
| 37.5° | 276.3 | 257.0 | 225.1 | 196.2 | 164.8 | 150.1 | 128.8 | 106.5 | 85.2 | 78.6 | 77.6 |
| 40° | 323.4 | 298.6 | 258.5 | 219.5 | 164.2 | 163.7 | 149.5 | 129.8 | 100.4 | 83.1 | 81.6 |
| 42.5° | 358.4 | 326.5 | 276.3 | 232.7 | 165.8 | 170.3 | 158.2 | 140.9 | 119.1 | 96.8 | 94.3 |
| 45° | 429.9 | 389.3 | 309.7 | 244.3 | 167.8 | 177.9 | 165.8 | 147.5 | 128.3 | 112.5 | 111.0 |
| 47.5° | 563.7 | 507.4 | 374.6 | 266.7 | 190.6 | 203.3 | 181.5 | 160.2 | 141.4 | 125.7 | 122.2 |
| 50° | 750.8 | 683.4 | 453.2 | 286.4 | 229.6 | 258.5 | 223.1 | 190.6 | 168.3 | 156.1 | 152.6 |
| 52.5° | 970.3 | 894.7 | 502.4 | 317.3 | 276.8 | 326.5 | 287.4 | 249.4 | 220.0 | 222.0 | 220.0 |
| 55° | 1215.1 | 1125.9 | 545.5 | 364.0 | 337.1 | 402.0 | 359.4 | 326.5 | 310.8 | 354.9 | 357.4 |
| 57.5° | 1451.4 | 1356.1 | 572.3 | 413.2 | 404.5 | 489.2 | 439.5 | 416.2 | 422.3 | 551.6 | 582.0 |
| 60° | 1677.0 | 1526.4 | 593.1 | 459.3 | 461.3 | 557.6 | 519.6 | 515.1 | 533.8 | 699.6 | 745.7 |
| 62.5° | 1807.2 | 1613.6 | 592.1 | 489.2 | 496.8 | 599.7 | 566.3 | 568.8 | 583.0 | 723.9 | 762.4 |
| 65° | 1896.0 | 1657.7 | 582.0 | 504.4 | 512.0 | 614.9 | 571.8 | 552.1 | 542.9 | 639.3 | 680.3 |
| 67.5° | 1842.7 | 1572.5 | 557.6 | 491.2 | 501.4 | 590.6 | 536.8 | 487.2 | 471.5 | 523.7 | 548.0 |
| 70° | 1557.8 | 1314.0 | 496.8 | 446.6 | 453.2 | 498.3 | 452.7 | 398.5 | 382.7 | 410.1 | 421.3 |
| 72.5° | 1177.1 | 1008.8 | 445.6 | 412.6 | 396.9 | 412.1 | 367.5 | 310.8 | 307.2 | 321.9 | 323.9 |
| 75° | 940.4 | 791.8 | 406.1 | 372.1 | 330.0 | 345.7 | 292.0 | 231.2 | 226.6 | 227.6 | 222.5 |
| 77.5° | 708.7 | 589.1 | 341.7 | 293.0 | 249.9 | 275.8 | 217.0 | 159.7 | 152.1 | 149.0 | 143.5 |
| 80° | 485.1 | 409.1 | 232.2 | 196.2 | 177.4 | 202.3 | 154.6 | 117.1 | 116.6 | 115.6 | 109.5 |
| 82.5° | 344.2 | 315.8 | 189.6 | 166.8 | 150.6 | 159.2 | 134.3 | 109.5 | 107.0 | 107.5 | 100.9 |
| 85° | 301.1 | 285.9 | 183.0 | 168.8 | 153.1 | 152.6 | 128.3 | 102.4 | 101.4 | 101.9 | 95.8 |
| 87.5° | 287.9 | 271.2 | 178.9 | 161.2 | 146.0 | 138.4 | 113.0 | 90.2 | 92.8 | 94.3 | 88.7 |
| 90° | 258.0 | 240.8 | 162.2 | 144.0 | 129.3 | 116.1 | 95.8 | 81.6 | 85.7 | 86.7 | 81.6 |
| 92.5° | 217.5 | 199.7 | 126.2 | 115.6 | 108.5 | 106.5 | 89.7 | 77.6 | 80.6 | 81.1 | 77.1 |
| 95° | 184.0 | 167.8 | 110.0 | 101.9 | 96.8 | 96.3 | 81.1 | 70.5 | 72.0 | 71.5 | 67.9 |
| 97.5° | 148.0 | 136.4 | 96.3 | 88.7 | 83.1 | 80.1 | 69.5 | 61.3 | 63.4 | 64.4 | 61.8 |
| 100° | 126.2 | 119.6 | 89.7 | 83.1 | 76.5 | 72.5 | 63.4 | 56.8 | 58.8 | 60.8 | 58.8 |
| 102.5° | 118.6 | 113.6 | 88.2 | 81.1 | 74.0 | 68.9 | 60.3 | 53.2 | 54.2 | 56.8 | 55.3 |
| 105° | 112.5 | 108.0 | 85.7 | 78.1 | 71.5 | 65.9 | 58.8 | 50.2 | 49.7 | 52.2 | 51.7 |
| 107.5° | 106.0 | 101.9 | 84.2 | 75.0 | 67.9 | 62.9 | 56.3 | 48.2 | 46.1 | 47.7 | 47.1 |
| 110° | 102.4 | 98.3 | 81.1 | 71.5 | 63.9 | 59.3 | 53.2 | 46.6 | 44.1 | 44.6 | 44.6 |



REPORT NUMBER: P856234

CATALOG NUMBER: FFX-CLB-30-750-U-FR-T3-UPLR

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 112.5° | 95.3 | 90.7 | 74.5 | 65.4 | 59.3 | 55.3 | 49.2 | 44.6 | 41.6 | 42.6 | 43.1 |
| 115° | 90.7 | 84.7 | 68.4 | 61.8 | 55.3 | 51.7 | 48.2 | 44.1 | 40.6 | 40.6 | 41.1 |
| 117.5° | 93.8 | 82.1 | 63.9 | 58.8 | 55.3 | 54.2 | 53.2 | 47.1 | 40.0 | 39.5 | 39.5 |
| 120° | 89.7 | 82.6 | 69.5 | 67.9 | 64.4 | 61.3 | 54.7 | 46.6 | 39.0 | 38.0 | 38.0 |
| 122.5° | 87.7 | 86.2 | 78.6 | 73.5 | 66.9 | 60.8 | 51.2 | 42.6 | 37.5 | 36.5 | 36.5 |
| 125° | 86.7 | 85.2 | 76.0 | 66.4 | 57.8 | 51.7 | 45.6 | 40.0 | 37.0 | 35.5 | 35.5 |
| 127.5° | 79.6 | 72.5 | 61.3 | 55.8 | 50.2 | 47.7 | 42.6 | 39.0 | 35.5 | 33.5 | 33.5 |
| 130° | 73.5 | 66.9 | 57.3 | 51.2 | 46.6 | 44.6 | 41.1 | 37.5 | 34.0 | 31.9 | 31.4 |
| 132.5° | 72.5 | 65.9 | 55.8 | 48.2 | 44.1 | 42.1 | 40.0 | 36.0 | 31.9 | 29.9 | 29.4 |
| 135° | 67.4 | 59.8 | 49.7 | 45.6 | 43.1 | 41.6 | 40.0 | 35.0 | 30.9 | 28.9 | 28.9 |
| 137.5° | 62.4 | 54.7 | 47.1 | 45.1 | 43.1 | 41.6 | 37.0 | 31.9 | 28.9 | 27.4 | 27.4 |
| 140° | 62.9 | 54.2 | 48.2 | 46.6 | 43.6 | 39.0 | 35.0 | 31.4 | 28.9 | 26.9 | 26.4 |
| 142.5° | 66.9 | 56.3 | 48.7 | 44.1 | 42.1 | 39.5 | 38.0 | 34.0 | 28.9 | 25.3 | 24.3 |
| 145° | 73.5 | 60.8 | 54.7 | 52.7 | 49.2 | 44.6 | 39.0 | 31.4 | 26.4 | 23.3 | 22.8 |
| 147.5° | 81.1 | 68.4 | 61.3 | 55.8 | 48.7 | 41.1 | 33.5 | 27.4 | 23.3 | 22.3 | 21.8 |
| 150° | 70.5 | 58.3 | 52.7 | 45.1 | 39.0 | 33.0 | 27.4 | 24.3 | 22.3 | 21.8 | 21.8 |
| 152.5° | 53.2 | 43.6 | 39.0 | 35.5 | 31.9 | 28.9 | 25.9 | 23.8 | 22.3 | 21.3 | 21.3 |
| 155° | 46.1 | 41.1 | 36.5 | 33.0 | 29.4 | 26.4 | 23.8 | 22.8 | 21.3 | 21.3 | 20.8 |
| 157.5° | 40.6 | 38.0 | 31.9 | 28.9 | 26.4 | 24.8 | 23.8 | 22.3 | 21.8 | 21.3 | 21.3 |
| 160° | 37.0 | 35.5 | 29.4 | 26.9 | 25.3 | 24.3 | 24.3 | 23.3 | 21.8 | 21.3 | 21.3 |
| 162.5° | 36.0 | 34.5 | 28.4 | 25.9 | 24.3 | 24.8 | 25.9 | 25.3 | 23.3 | 22.3 | 22.3 |
| 165° | 35.5 | 34.5 | 28.9 | 25.3 | 24.3 | 24.8 | 27.4 | 27.9 | 25.3 | 23.8 | 23.3 |
| 167.5° | 32.4 | 31.9 | 30.4 | 27.9 | 26.4 | 26.4 | 27.9 | 28.4 | 27.4 | 27.4 | 26.9 |
| 170° | 29.4 | 29.4 | 29.9 | 30.4 | 29.4 | 27.9 | 26.9 | 26.9 | 28.4 | 29.9 | 30.4 |
| 172.5° | 28.4 | 28.9 | 29.9 | 31.4 | 31.4 | 29.4 | 27.9 | 27.4 | 28.9 | 30.9 | 31.4 |
| 175° | 29.9 | 30.4 | 30.9 | 30.9 | 29.9 | 29.4 | 28.9 | 28.4 | 29.4 | 31.4 | 31.9 |
| 177.5° | 24.8 | 24.8 | 25.3 | 25.3 | 24.8 | 25.3 | 24.8 | 23.8 | 23.8 | 23.8 | 23.8 |
| 180° | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 |

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.

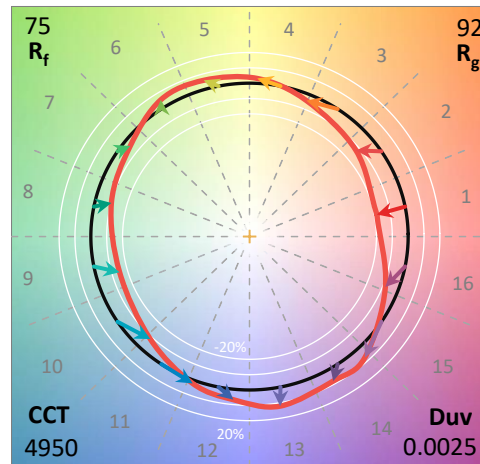
Test Information

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

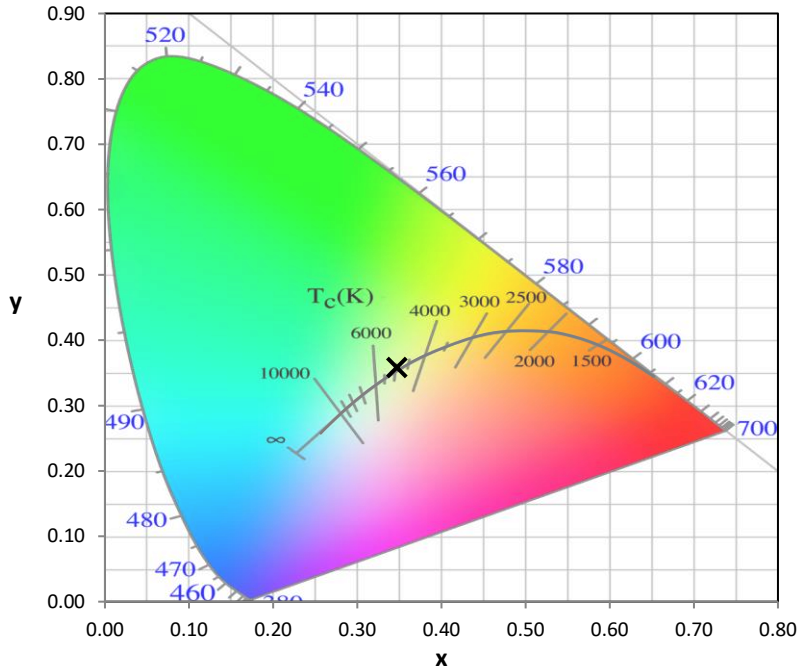
Stabilization Time: 0.803355M
 Operation Time: 1H
 Sphere Temperature (°C): 24.7

REPORT NUMBER: SP1-2406-133-5

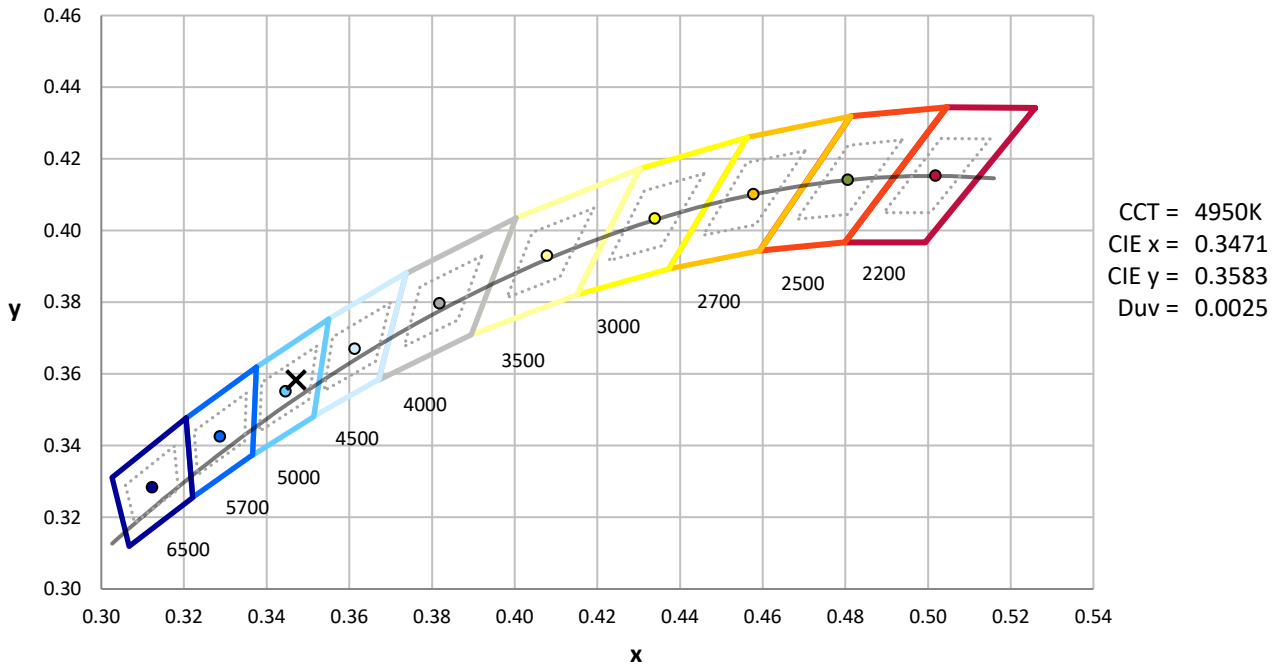
| Measurement and Test Equipment | | | |
|--------------------------------|-----------------------|------------------|----------------------|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | IN0058 | 6/18/2024 | 12/18/2024 |
| Power Meter | INXT2011004 | 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 |

REPORT NUMBER: SP1-2406-133-5

CIE 1931 Chromaticity Diagram



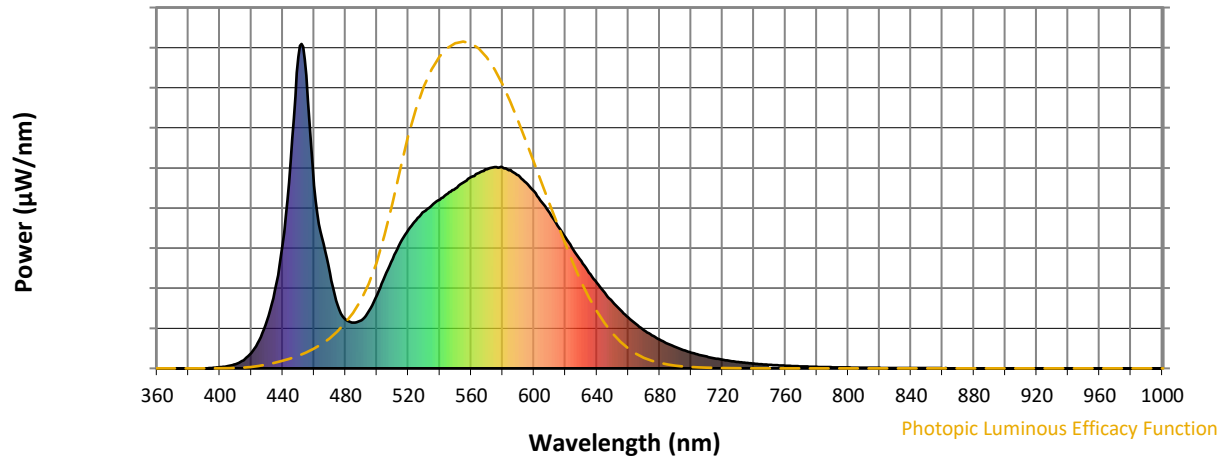
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2406-133-5

Photopic Flux vs. Wavelength

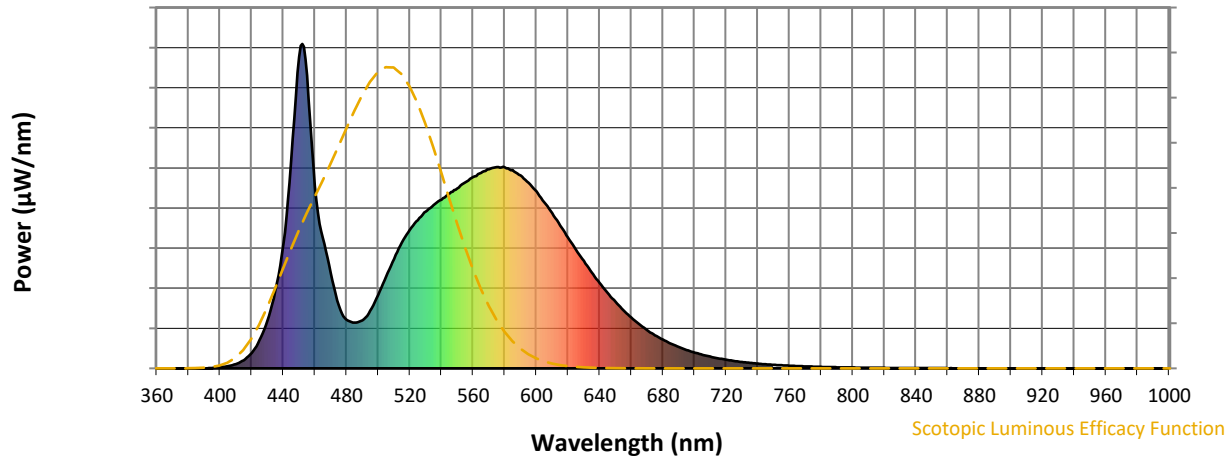


Photopic Lumens: NR

| 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



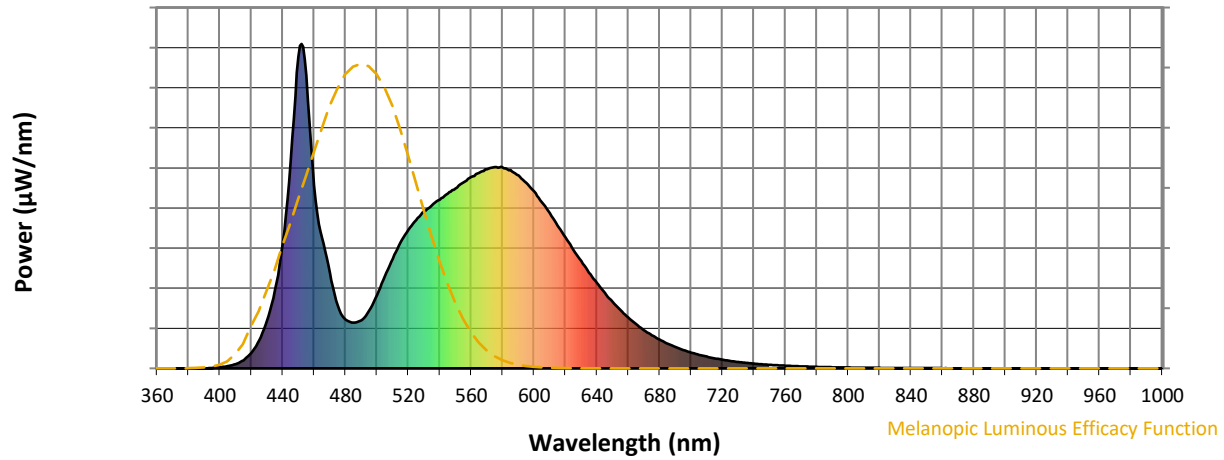
Scotopic Lumens: NR

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

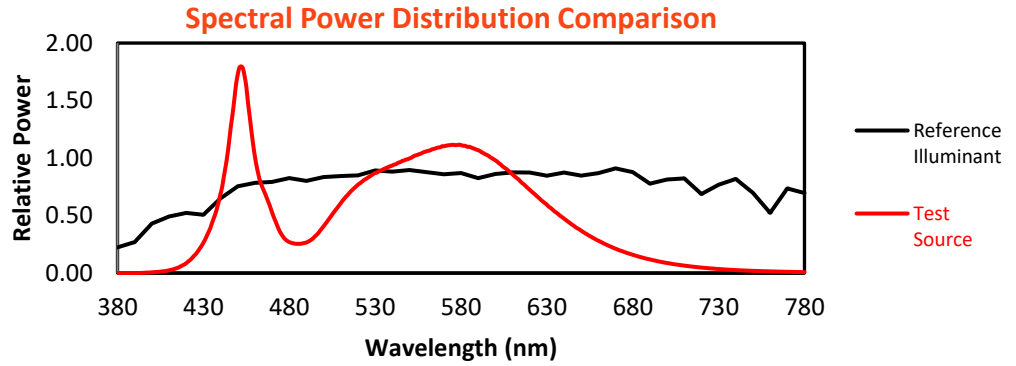
| λ (nm) | Power W [^] /nm | Lumens (φ/nm) | λ (nm) | Power W [^] /nm | Lumens (φ/nm) | λ (nm) | Power W [^] /nm | Lumens (φ/nm) | λ (nm) | Power W [^] /nm | Lumens (φ/nm) | λ (nm) | Power W [^] /nm | Lumens (φ/nm) |
|--------|--------------------------|---------------|--------|--------------------------|---------------|--------|--------------------------|---------------|--------|--------------------------|---------------|--------|--------------------------|---------------|
| 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

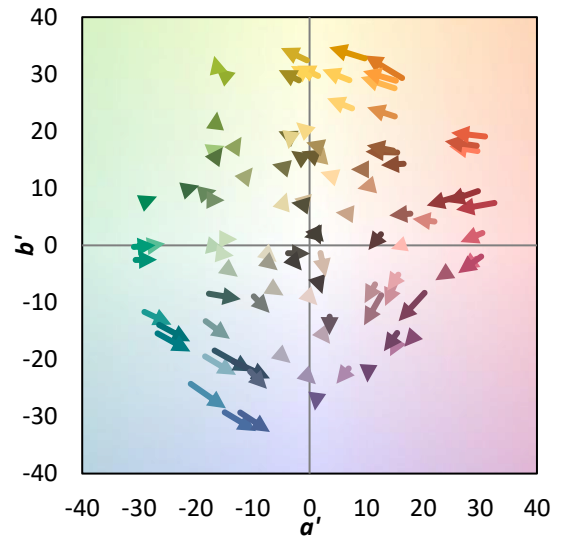
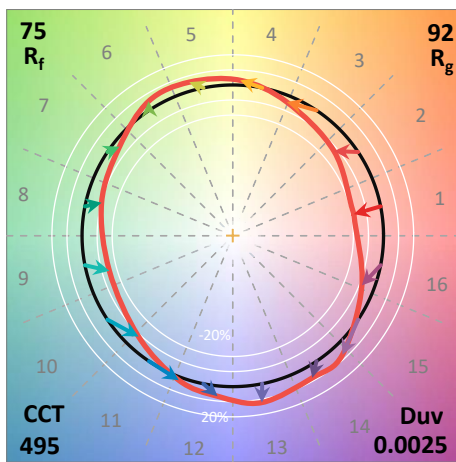
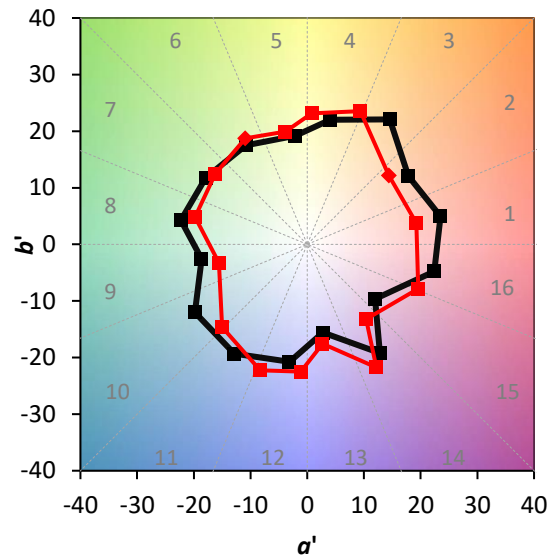
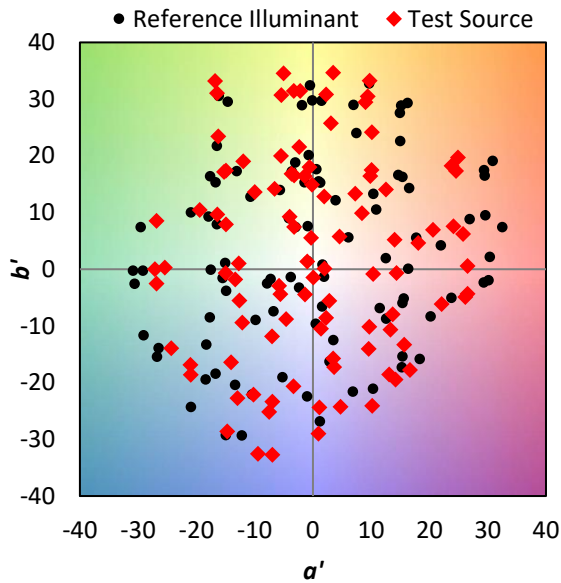
TM-30-18

Summary

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



Color Vector Graphics

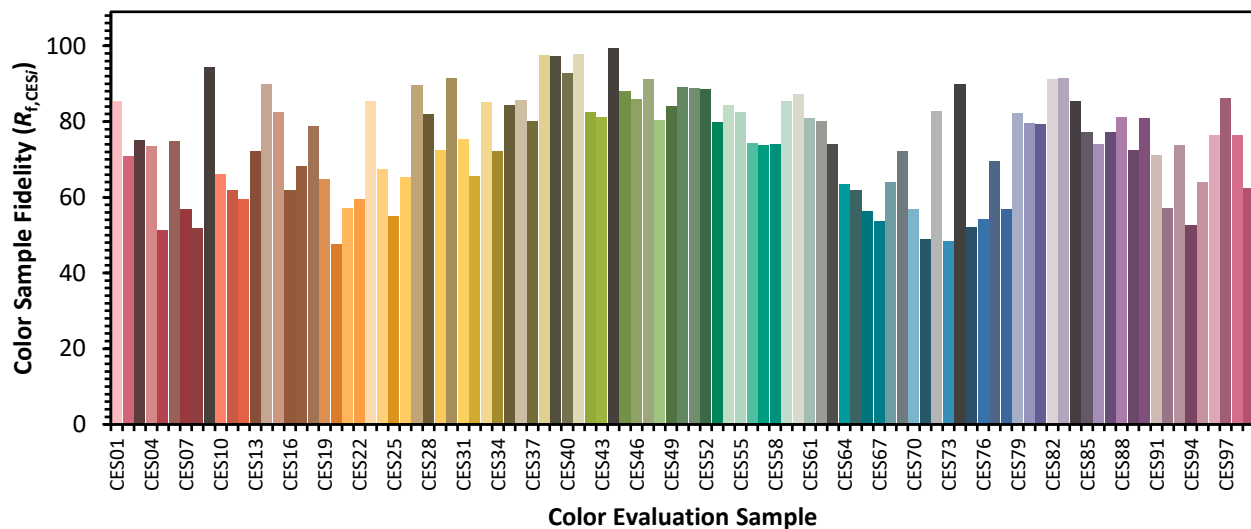


REPORT NUMBER: SP1-2406-133-5

TM-30-18

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

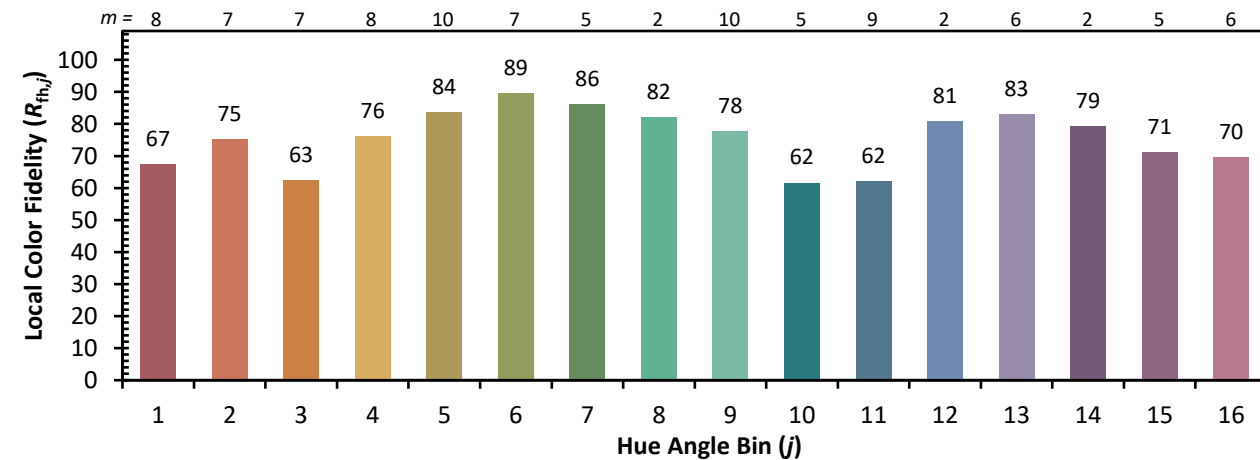
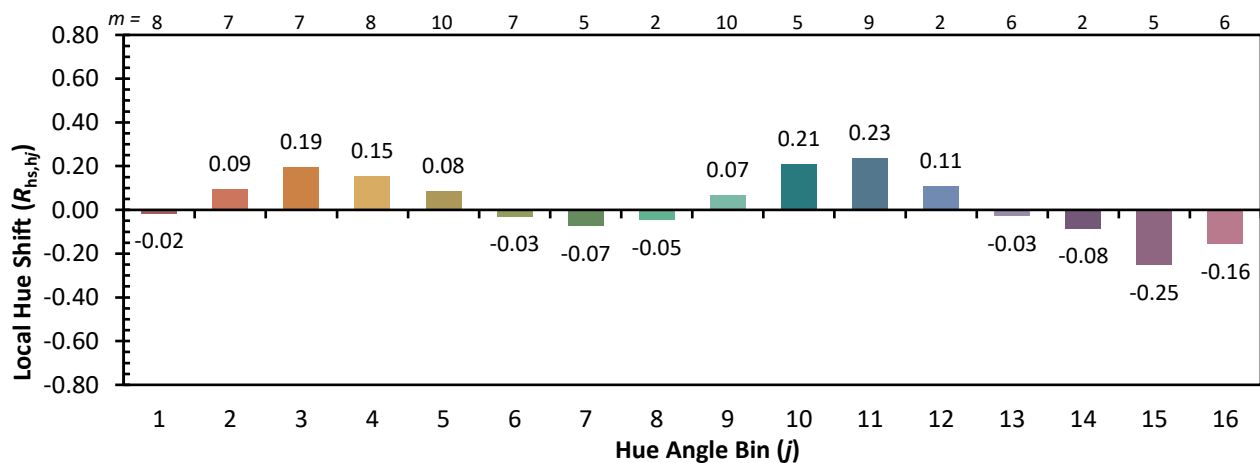
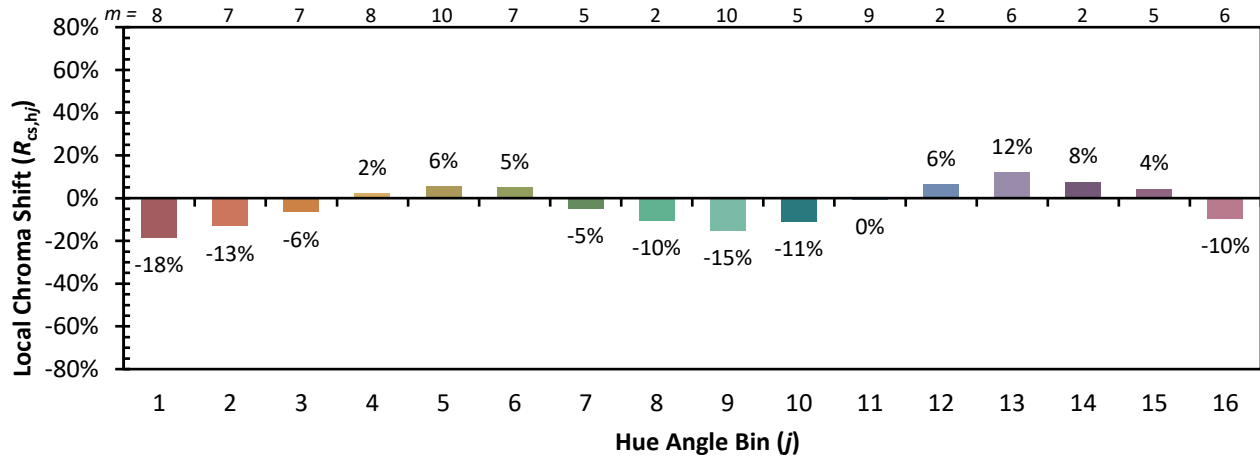
| | | | |
|------------|------------|------------|------------|
| CES01 = 85 | CES26 = 65 | CES51 = 89 | CES76 = 54 |
| CES02 = 60 | CES27 = 90 | CES52 = 88 | CES77 = 69 |
| CES03 = 30 | CES28 = 82 | CES53 = 80 | CES78 = 57 |
| CES04 = 69 | CES29 = 72 | CES54 = 84 | CES79 = 82 |
| CES05 = 46 | CES30 = 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 | |



REPORT NUMBER: SP1-2406-133-5

TM-30-18

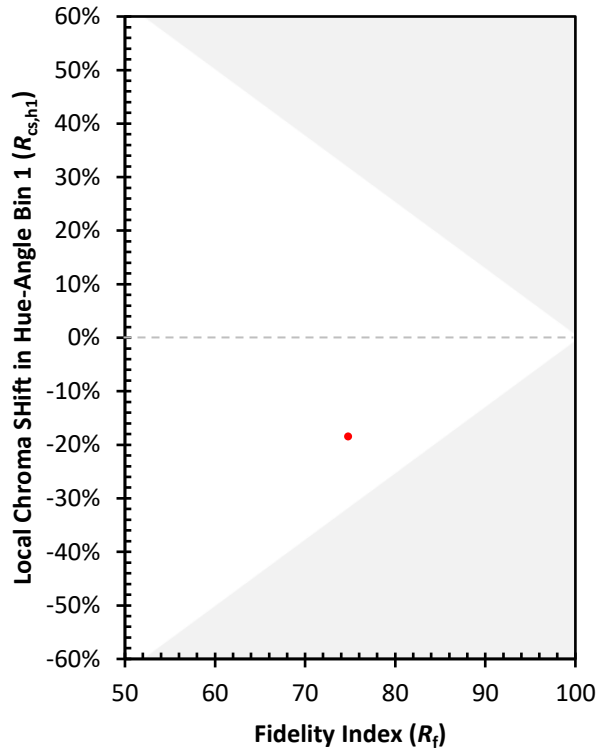
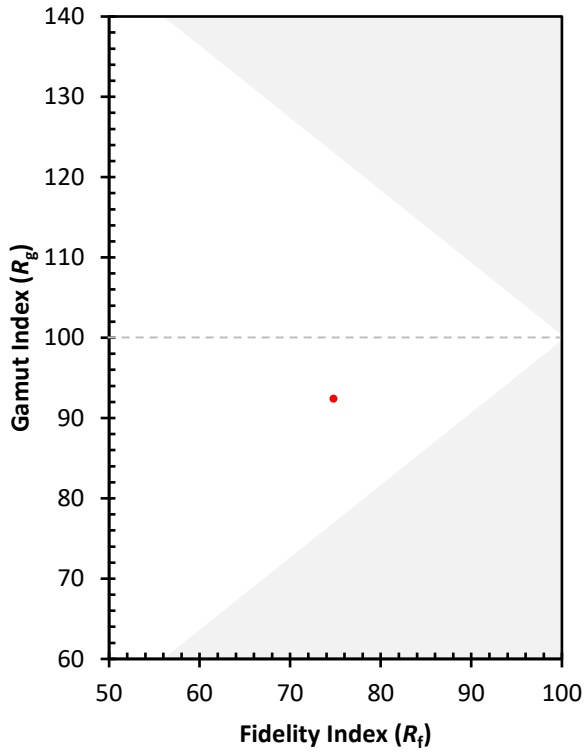
Color Rendition by Hue-Angle Bin



REPORT NUMBER: SP1-2406-133-5

TM-30-18

Measure Comparisons



(END OF REPORT)