

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: P856143

Luminaire Tested: **FFX-CLB-40-750-U-FR-T3**

Issue Date: 07/16/2024



Test Information

Test Method: LM-79-08
Report Number: P856143
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: FFX-CLB-40-750-U-FR-T3
Description: FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS
Light Source: (4) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

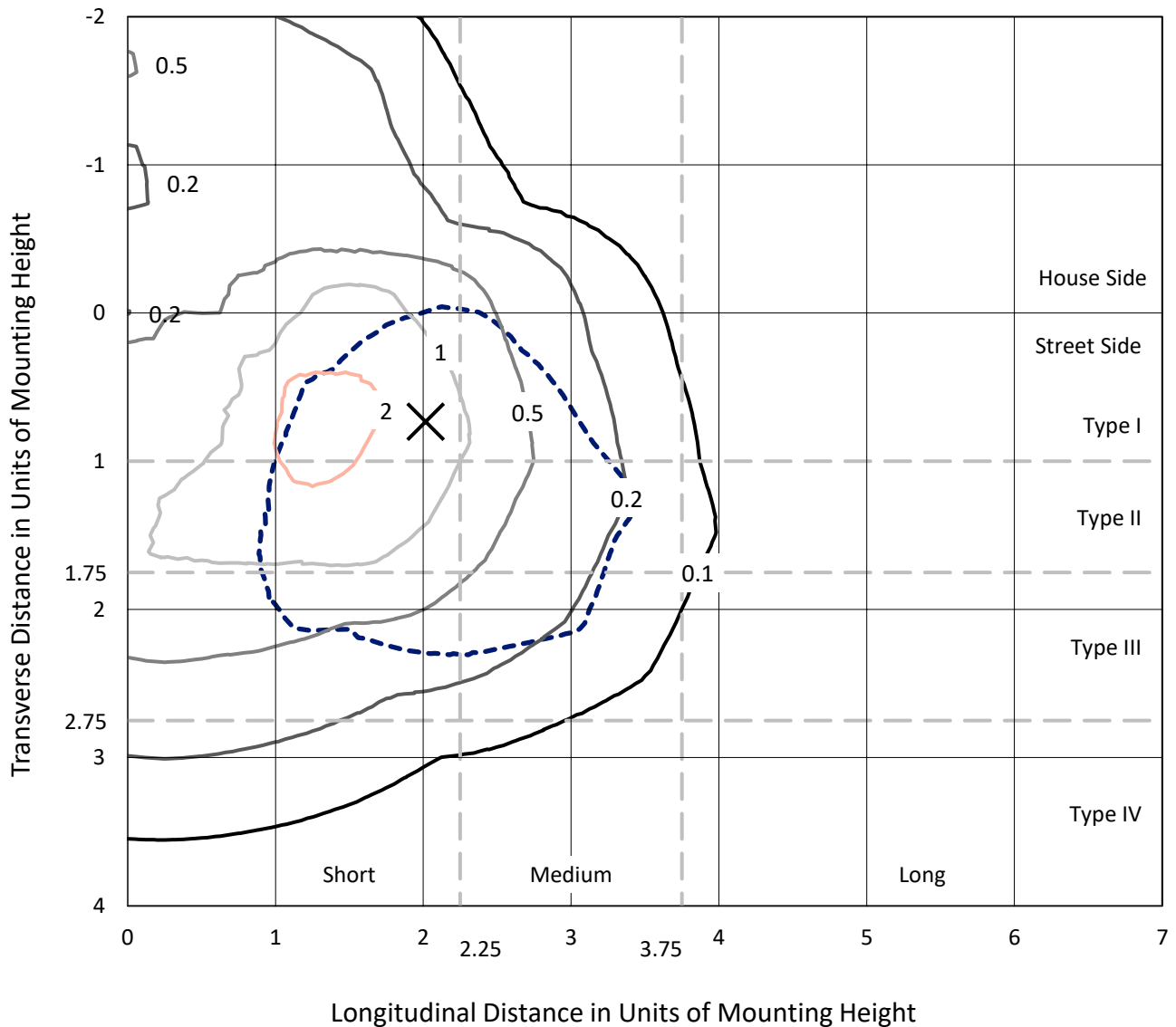
Lumens per Lamp: N/A
Luminaire Lumens: 6216.1 lumens
Efficiency: N/A
Efficacy: 158.2 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification: Type III - Short
BUG Rating: B2 - U4 - G3

Input Watts (W): 39.3
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: 24 FT

REPORT NUMBER: P856143
 CATALOG NUMBER: FFX-CLB-40-750-U-FR-T3

Iso-Footcandle Lines of Horizontal Illumination

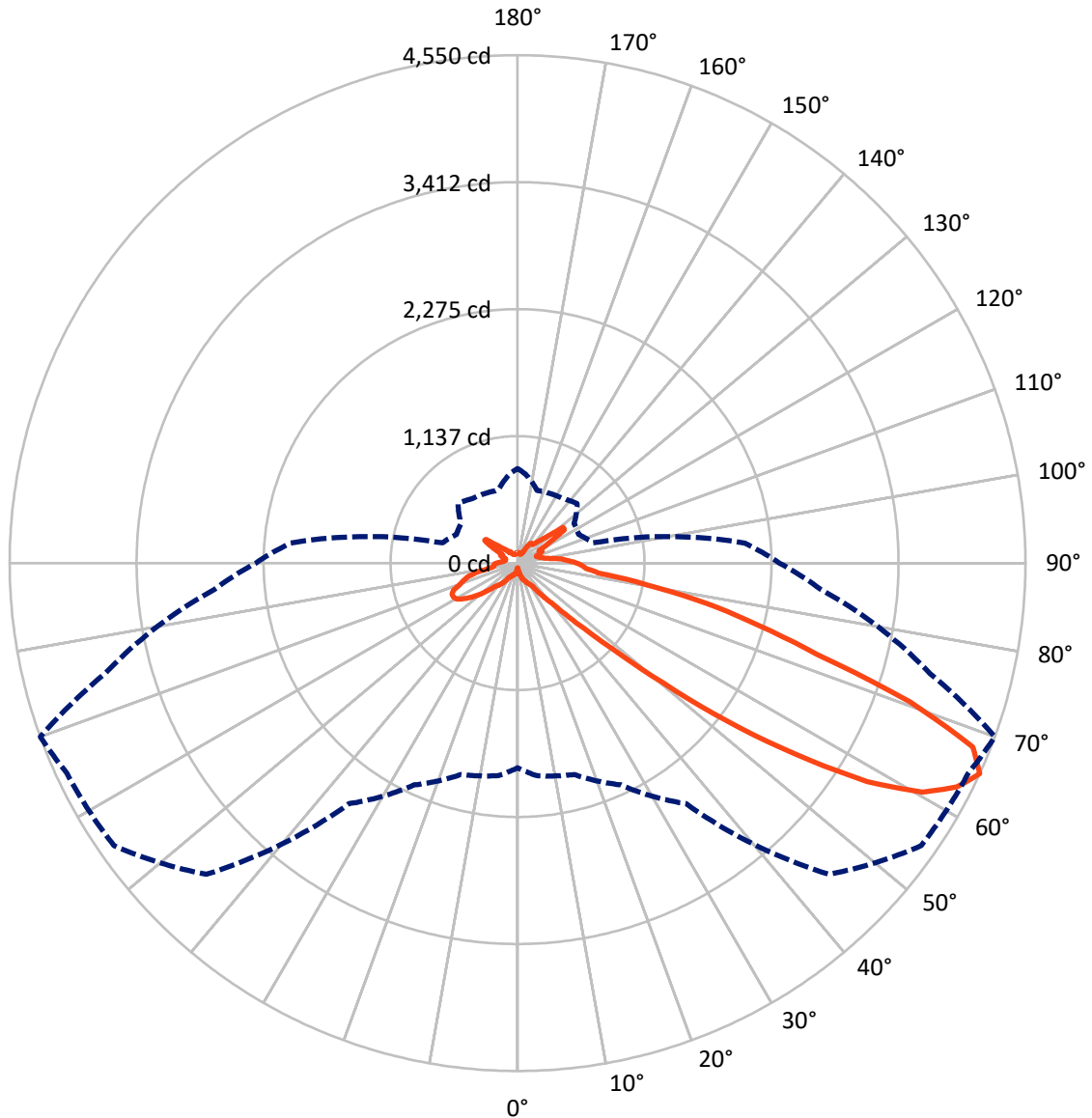
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.5 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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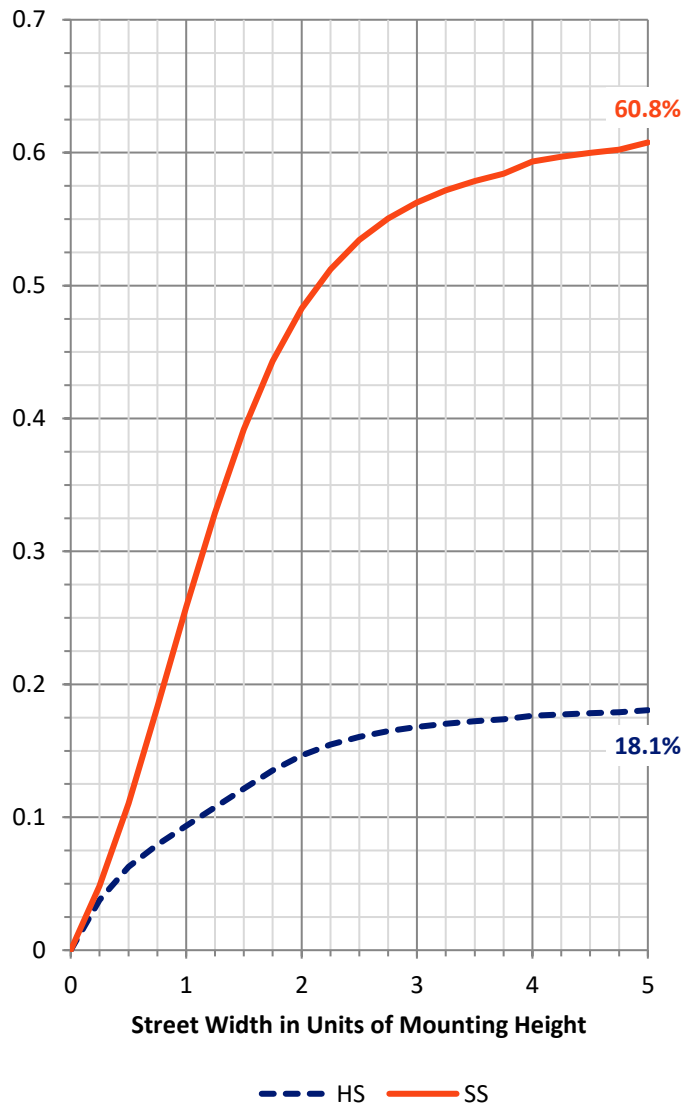
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1170.9 | 417.7 | 1588.6 |
| | % Fixture | 18.8 | 6.7 | 25.6 |
| Street Side | Lumens | 3904.6 | 722.8 | 4627.4 |
| | % Fixture | 62.8 | 11.6 | 74.4 |
| Total | Lumens | 5075.5 | 1140.6 | 6216.1 |
| | % Fixture | 81.7 | 18.3 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 6.6 | 0.1 |
| 10°-20° | 32.6 | 0.5 |
| 20°-30° | 69.1 | 1.1 |
| 30°-40° | 140.8 | 2.3 |
| 40°-50° | 357.9 | 5.8 |
| 50°-60° | 1150.4 | 18.5 |
| 60°-70° | 1877.4 | 30.2 |
| 70°-80° | 1068.8 | 17.2 |
| 80°-90° | 371.9 | 6.0 |
| 90°-100° | 231.4 | 3.7 |
| 100°-110° | 147.4 | 2.4 |
| 110°-120° | 162.1 | 2.6 |
| 120°-130° | 274.2 | 4.4 |
| 130°-140° | 161.7 | 2.6 |
| 140°-150° | 87.0 | 1.4 |
| 150°-160° | 44.0 | 0.7 |
| 160°-170° | 24.1 | 0.4 |
| 170°-180° | 8.7 | 0.1 |
| 0°-90° | 5075.5 | 81.7 |
| 0°-180° | 6216.1 | 100.0 |



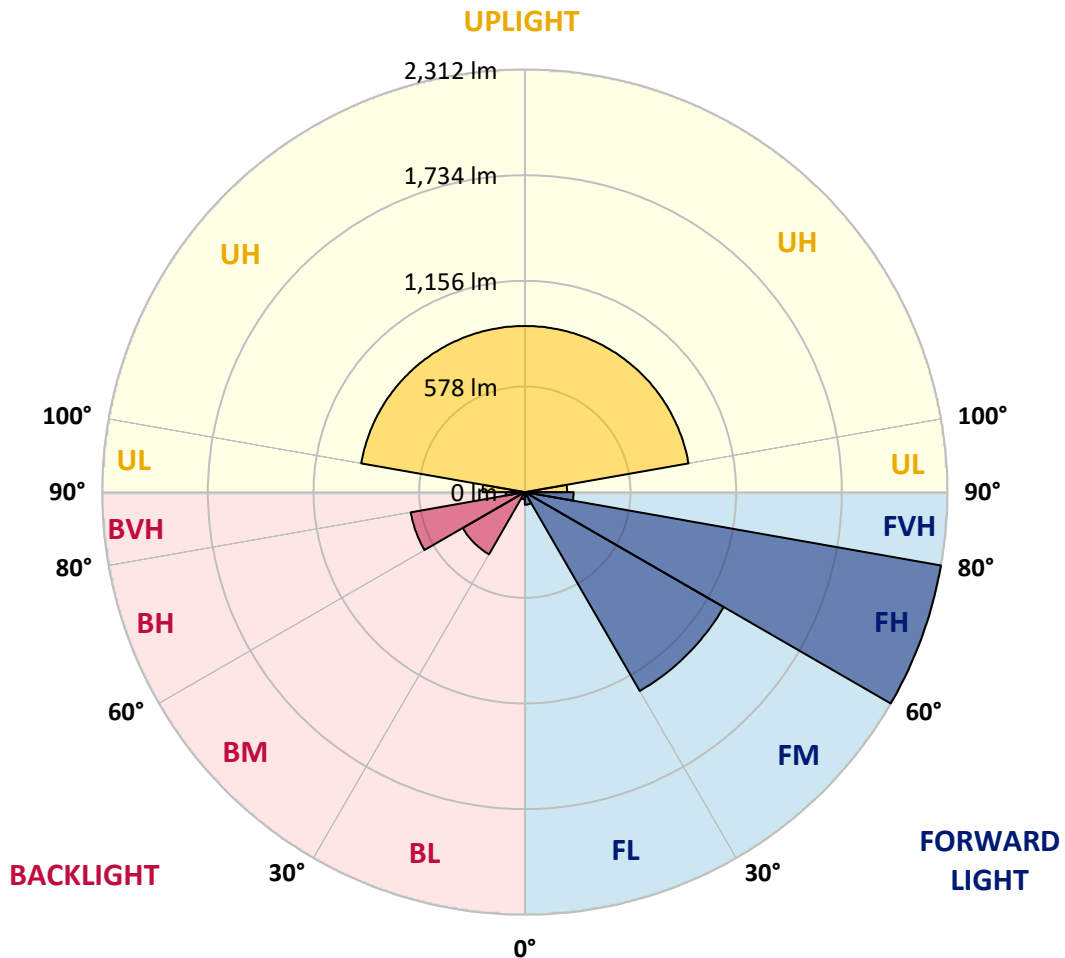
REPORT NUMBER: P856143
 CATALOG NUMBER: FFX-CLB-40-750-U-FR-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|---------|---------|
| | | | B | U | G |
| FL (0°-30°) | 69.0 | 1.1 | | | |
| FM (30°-60°) | 1256.7 | 20.2 | | | |
| FH (60°-80°) | 2312.3 | 37.2 | | | G2/5000 |
| FVH (80°-90°) | 266.7 | 4.3 | | | G3/500 |
| BL (0°-30°) | 39.3 | 0.6 | B0/110 | | |
| BM (30°-60°) | 392.4 | 6.3 | B1/1000 | | |
| BH (60°-80°) | 633.9 | 10.2 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 105.2 | 1.7 | | | G2/225 |
| UL (90°-100°) | 231.4 | 3.7 | | U3/500 | |
| UH (100°-180°) | 909.1 | 14.6 | | U4/1000 | |

BUG Rating: B2-U4-G3

Type III Short





REPORT NUMBER: P856143
 CATALOG NUMBER: FFX-CLB-40-750-U-FR-T3

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 70° | 75° | 85° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 |
| 2.5° | 49.3 | 49.3 | 50.6 | 50.6 | 50.6 | 49.3 | 48.7 | 47.4 | 47.4 | 47.4 | 46.8 |
| 5° | 64.1 | 63.4 | 64.1 | 66.0 | 66.6 | 64.7 | 63.4 | 61.5 | 61.5 | 60.9 | 60.9 |
| 7.5° | 86.5 | 85.8 | 84.6 | 82.6 | 83.3 | 85.2 | 87.8 | 82.6 | 81.4 | 78.1 | 76.9 |
| 10° | 108.3 | 107.0 | 108.3 | 105.1 | 101.8 | 97.4 | 99.9 | 98.6 | 96.1 | 92.9 | 90.3 |
| 12.5° | 132.0 | 132.6 | 135.2 | 132.6 | 127.5 | 120.4 | 119.1 | 115.9 | 113.4 | 112.7 | 108.9 |
| 15° | 156.3 | 156.9 | 159.5 | 158.9 | 153.7 | 144.1 | 140.3 | 137.1 | 135.8 | 132.0 | 123.6 |
| 17.5° | 169.1 | 169.7 | 170.4 | 171.0 | 167.8 | 160.1 | 154.4 | 148.6 | 146.7 | 145.4 | 135.2 |
| 20° | 175.5 | 174.2 | 175.5 | 178.1 | 180.6 | 174.2 | 168.5 | 165.3 | 163.3 | 158.9 | 145.4 |
| 22.5° | 185.8 | 184.5 | 183.8 | 185.8 | 193.4 | 189.0 | 183.2 | 180.0 | 178.1 | 172.3 | 151.8 |
| 25° | 196.7 | 195.4 | 197.3 | 196.0 | 205.6 | 203.7 | 197.9 | 194.7 | 192.2 | 185.1 | 161.4 |
| 27.5° | 208.8 | 207.5 | 209.5 | 208.2 | 215.9 | 217.2 | 213.3 | 210.7 | 206.9 | 196.7 | 168.5 |
| 30° | 219.1 | 217.8 | 219.7 | 219.1 | 226.8 | 231.2 | 229.3 | 228.7 | 222.9 | 210.7 | 180.6 |
| 32.5° | 227.4 | 226.8 | 231.2 | 233.2 | 235.1 | 245.3 | 244.1 | 249.8 | 243.4 | 228.7 | 198.6 |
| 35° | 246.6 | 248.5 | 260.7 | 273.5 | 275.4 | 295.9 | 298.5 | 319.6 | 313.2 | 294.0 | 257.5 |
| 37.5° | 381.1 | 374.1 | 361.9 | 349.7 | 345.3 | 385.0 | 390.7 | 411.9 | 395.9 | 360.0 | 301.1 |
| 40° | 406.1 | 394.6 | 380.5 | 370.9 | 372.2 | 443.3 | 431.1 | 511.2 | 465.7 | 411.9 | 367.7 |
| 42.5° | 385.6 | 381.8 | 431.1 | 454.2 | 437.5 | 541.3 | 520.8 | 673.2 | 621.3 | 489.4 | 443.9 |
| 45° | 483.6 | 475.9 | 493.2 | 516.3 | 521.4 | 712.3 | 698.2 | 857.7 | 836.6 | 611.7 | 569.5 |
| 47.5° | 553.4 | 546.4 | 569.5 | 647.6 | 714.9 | 921.1 | 998.0 | 1228.0 | 1153.7 | 869.2 | 771.2 |
| 50° | 762.9 | 761.6 | 832.7 | 925.6 | 1043.5 | 1340.1 | 1544.4 | 1802.5 | 1682.8 | 1230.5 | 1057.6 |
| 52.5° | 969.8 | 972.4 | 1059.5 | 1224.1 | 1346.5 | 1870.4 | 2160.6 | 2341.3 | 2357.3 | 1604.6 | 1370.8 |
| 55° | 1126.1 | 1142.1 | 1247.2 | 1523.3 | 1708.4 | 2342.5 | 2719.2 | 2859.5 | 3019.6 | 2168.3 | 1696.8 |
| 57.5° | 1431.0 | 1455.4 | 1555.3 | 1825.6 | 2084.4 | 2930.6 | 3439.2 | 3454.6 | 3693.5 | 2793.5 | 2046.6 |
| 60° | 1697.5 | 1754.5 | 1789.7 | 2035.1 | 2388.0 | 3492.3 | 3974.0 | 3943.3 | 4167.5 | 3311.7 | 2401.5 |
| 62.5° | 1780.1 | 1845.5 | 1878.8 | 2140.1 | 2628.2 | 3807.5 | 4223.9 | 4262.3 | 4416.7 | 3675.5 | 2618.6 |
| 65° | 1833.9 | 1910.8 | 1960.8 | 2192.0 | 2630.8 | 3942.0 | 4413.5 | 4454.5 | 4549.9 | 3828.0 | 2726.9 |
| 67.5° | 1806.4 | 1904.4 | 1968.4 | 2174.1 | 2492.4 | 3838.2 | 4375.7 | 4296.9 | 4398.1 | 3700.5 | 2605.8 |
| 70° | 1577.1 | 1679.6 | 1744.3 | 1897.3 | 2083.7 | 3227.2 | 3772.3 | 3640.3 | 3729.4 | 3088.8 | 2142.7 |
| 72.5° | 1285.0 | 1335.6 | 1375.3 | 1459.2 | 1570.7 | 2380.3 | 2866.5 | 2757.0 | 2810.1 | 2324.0 | 1605.9 |
| 75° | 1055.6 | 1071.0 | 1120.3 | 1168.4 | 1187.0 | 1741.0 | 2270.8 | 2170.9 | 2233.0 | 1769.2 | 1277.9 |
| 77.5° | 766.8 | 775.7 | 846.2 | 853.9 | 849.4 | 1194.6 | 1789.7 | 1702.0 | 1721.8 | 1315.1 | 953.8 |
| 80° | 445.2 | 462.5 | 554.7 | 550.2 | 542.6 | 736.0 | 1260.0 | 1224.8 | 1163.3 | 892.9 | 660.4 |
| 82.5° | 313.9 | 331.2 | 373.4 | 383.1 | 377.9 | 528.5 | 818.0 | 794.9 | 728.3 | 621.3 | 456.7 |
| 85° | 330.5 | 332.5 | 334.4 | 338.9 | 330.5 | 471.5 | 626.5 | 614.9 | 615.6 | 513.7 | 376.7 |
| 87.5° | 326.0 | 333.7 | 336.9 | 338.9 | 330.5 | 447.8 | 582.3 | 567.5 | 574.6 | 488.1 | 365.8 |
| 90° | 286.3 | 300.4 | 301.7 | 304.9 | 300.4 | 399.7 | 522.7 | 508.6 | 517.6 | 440.1 | 333.1 |
| 92.5° | 233.8 | 241.5 | 250.5 | 262.6 | 257.5 | 342.1 | 444.5 | 434.3 | 445.2 | 381.1 | 292.7 |
| 95° | 221.6 | 230.0 | 235.7 | 244.1 | 236.4 | 312.0 | 401.6 | 381.1 | 390.1 | 333.7 | 252.4 |
| 97.5° | 183.2 | 190.2 | 195.4 | 198.6 | 192.8 | 246.0 | 308.1 | 294.0 | 293.4 | 258.1 | 201.8 |
| 100° | 156.3 | 160.8 | 165.3 | 168.5 | 163.3 | 203.7 | 244.1 | 238.9 | 240.2 | 213.3 | 173.6 |
| 102.5° | 148.6 | 151.2 | 158.2 | 158.9 | 153.1 | 185.8 | 219.7 | 217.8 | 220.4 | 197.3 | 162.7 |
| 105° | 145.4 | 147.3 | 153.1 | 151.2 | 146.0 | 173.6 | 202.4 | 203.7 | 203.7 | 183.8 | 152.5 |
| 107.5° | 135.8 | 139.0 | 145.4 | 142.2 | 139.6 | 160.1 | 186.4 | 181.9 | 183.2 | 171.0 | 144.8 |
| 110° | 134.5 | 137.1 | 143.5 | 140.9 | 139.0 | 156.3 | 179.4 | 178.1 | 180.0 | 169.1 | 148.6 |



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 CATALOG NUMBER: FFX-CLB-40-750-U-FR-T3

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 70° | 75° | 85° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 167.2 | 164.6 | 169.7 | 164.6 | 167.8 | 182.6 | 206.9 | 204.3 | 210.1 | 206.3 | 185.8 |
| 115° | 206.3 | 207.5 | 212.7 | 202.4 | 205.6 | 220.4 | 233.8 | 238.3 | 243.4 | 237.6 | 216.5 |
| 117.5° | 190.9 | 201.8 | 195.4 | 194.1 | 191.5 | 203.1 | 201.1 | 212.7 | 217.8 | 213.3 | 205.0 |
| 120° | 204.3 | 217.8 | 199.2 | 189.6 | 185.8 | 214.6 | 228.7 | 228.0 | 224.2 | 215.2 | 197.9 |
| 122.5° | 305.5 | 307.5 | 308.8 | 337.6 | 327.3 | 355.5 | 363.8 | 352.9 | 352.9 | 364.5 | 329.2 |
| 125° | 476.6 | 478.5 | 477.2 | 490.0 | 483.0 | 509.9 | 520.8 | 520.1 | 513.7 | 508.0 | 473.4 |
| 127.5° | 481.7 | 481.7 | 477.2 | 470.2 | 476.6 | 502.8 | 503.5 | 527.8 | 519.5 | 504.1 | 472.1 |
| 130° | 336.3 | 338.9 | 354.9 | 360.0 | 369.0 | 374.7 | 368.3 | 389.5 | 393.3 | 390.7 | 369.0 |
| 132.5° | 278.6 | 283.1 | 300.4 | 306.8 | 312.6 | 313.2 | 310.7 | 327.3 | 331.2 | 331.2 | 321.6 |
| 135° | 240.9 | 246.0 | 247.9 | 244.7 | 253.0 | 259.4 | 264.6 | 278.0 | 276.7 | 274.2 | 265.8 |
| 137.5° | 210.1 | 212.0 | 206.3 | 199.2 | 203.7 | 222.3 | 232.5 | 246.6 | 246.0 | 241.5 | 227.4 |
| 140° | 177.4 | 178.1 | 174.9 | 171.7 | 176.2 | 192.2 | 201.8 | 217.2 | 215.2 | 212.0 | 195.4 |
| 142.5° | 134.5 | 136.4 | 144.8 | 151.2 | 162.1 | 195.4 | 190.2 | 203.7 | 213.3 | 221.0 | 182.6 |
| 145° | 141.6 | 139.0 | 137.7 | 144.8 | 158.9 | 206.9 | 192.2 | 209.5 | 213.9 | 219.1 | 174.9 |
| 147.5° | 163.3 | 164.6 | 162.7 | 158.2 | 177.4 | 192.8 | 184.5 | 199.9 | 202.4 | 201.1 | 183.2 |
| 150° | 128.1 | 130.0 | 130.7 | 128.8 | 152.5 | 151.8 | 143.5 | 155.0 | 156.3 | 156.3 | 144.1 |
| 152.5° | 104.4 | 105.1 | 103.8 | 102.5 | 117.9 | 115.3 | 111.5 | 115.3 | 114.7 | 114.0 | 111.5 |
| 155° | 99.3 | 99.3 | 98.0 | 98.6 | 108.9 | 106.3 | 103.8 | 106.3 | 105.1 | 103.1 | 100.6 |
| 157.5° | 91.6 | 92.2 | 92.2 | 94.2 | 100.6 | 96.1 | 93.5 | 94.8 | 93.5 | 92.2 | 92.2 |
| 160° | 86.5 | 86.5 | 87.1 | 89.7 | 93.5 | 89.0 | 87.1 | 87.8 | 87.1 | 85.8 | 86.5 |
| 162.5° | 84.6 | 84.6 | 85.2 | 86.5 | 87.1 | 84.6 | 82.6 | 82.6 | 82.6 | 82.6 | 84.6 |
| 165° | 83.3 | 83.3 | 83.3 | 83.9 | 83.9 | 82.0 | 81.4 | 82.0 | 82.6 | 83.3 | 85.8 |
| 167.5° | 85.8 | 85.8 | 85.8 | 85.8 | 85.2 | 83.9 | 83.3 | 83.9 | 84.6 | 85.2 | 87.1 |
| 170° | 89.7 | 89.0 | 89.0 | 88.4 | 87.8 | 86.5 | 85.8 | 85.2 | 85.2 | 85.8 | 86.5 |
| 172.5° | 92.2 | 92.2 | 91.6 | 91.6 | 91.0 | 89.7 | 88.4 | 87.8 | 87.8 | 87.8 | 87.8 |
| 175° | 95.4 | 95.4 | 95.4 | 95.4 | 94.8 | 93.5 | 92.9 | 91.6 | 91.6 | 91.6 | 91.6 |
| 177.5° | 99.3 | 99.3 | 99.3 | 99.3 | 98.0 | 96.7 | 95.4 | 94.2 | 94.2 | 94.2 | 93.5 |
| 180° | 94.8 | 94.8 | 94.8 | 94.8 | 94.8 | 94.8 | 94.8 | 94.8 | 94.8 | 94.8 | 94.8 |



REPORT NUMBER: P856143

CATALOG NUMBER: FFX-CLB-40-750-U-FR-T3

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 |
| 2.5° | 46.1 | 45.5 | 43.6 | 42.9 | 42.3 | 41.0 | 39.7 | 39.1 | 38.4 | 38.4 | 39.1 |
| 5° | 61.5 | 60.9 | 60.9 | 58.9 | 57.0 | 53.8 | 52.5 | 52.5 | 53.2 | 53.8 | 55.1 |
| 7.5° | 77.5 | 78.8 | 80.1 | 76.9 | 71.1 | 63.4 | 58.9 | 60.2 | 63.4 | 66.0 | 66.0 |
| 10° | 89.7 | 89.7 | 94.2 | 90.3 | 80.7 | 71.1 | 64.7 | 63.4 | 64.1 | 64.7 | 65.3 |
| 12.5° | 107.0 | 107.0 | 104.4 | 94.2 | 84.6 | 74.9 | 69.8 | 68.5 | 68.5 | 66.0 | 65.3 |
| 15° | 119.8 | 115.9 | 107.0 | 97.4 | 89.0 | 79.4 | 73.7 | 71.7 | 69.8 | 67.9 | 67.3 |
| 17.5° | 127.5 | 120.4 | 108.3 | 99.3 | 91.0 | 83.3 | 77.5 | 73.7 | 71.7 | 72.4 | 72.4 |
| 20° | 136.4 | 128.8 | 117.9 | 108.3 | 98.0 | 87.8 | 80.7 | 74.9 | 73.0 | 73.7 | 73.0 |
| 22.5° | 143.5 | 135.8 | 124.9 | 114.0 | 103.1 | 92.2 | 83.9 | 76.9 | 74.3 | 74.9 | 74.9 |
| 25° | 151.8 | 145.4 | 133.9 | 121.1 | 107.6 | 97.4 | 89.0 | 80.7 | 76.9 | 76.2 | 76.2 |
| 27.5° | 160.1 | 155.7 | 143.5 | 128.1 | 114.0 | 101.8 | 93.5 | 83.9 | 79.4 | 77.5 | 77.5 |
| 30° | 171.0 | 165.9 | 153.7 | 135.2 | 119.8 | 108.3 | 99.3 | 89.0 | 82.6 | 79.4 | 78.8 |
| 32.5° | 188.3 | 182.6 | 167.8 | 148.0 | 126.2 | 114.7 | 105.1 | 93.5 | 85.2 | 81.4 | 80.7 |
| 35° | 244.7 | 235.7 | 212.7 | 189.6 | 154.4 | 128.1 | 112.1 | 97.4 | 87.8 | 82.6 | 82.0 |
| 37.5° | 279.9 | 258.1 | 227.4 | 212.0 | 173.6 | 156.9 | 135.2 | 111.5 | 91.6 | 85.2 | 83.9 |
| 40° | 336.9 | 306.8 | 268.4 | 238.3 | 169.1 | 171.7 | 158.2 | 139.0 | 108.9 | 89.7 | 87.8 |
| 42.5° | 385.0 | 347.2 | 288.9 | 249.8 | 169.7 | 179.4 | 169.1 | 153.1 | 130.7 | 106.3 | 102.5 |
| 45° | 474.7 | 426.0 | 335.7 | 268.4 | 174.2 | 190.9 | 178.1 | 161.4 | 141.6 | 124.9 | 123.0 |
| 47.5° | 641.2 | 575.2 | 419.6 | 299.1 | 203.7 | 221.6 | 198.6 | 176.8 | 158.9 | 139.6 | 136.4 |
| 50° | 877.6 | 798.8 | 516.3 | 323.5 | 254.3 | 292.1 | 250.5 | 213.9 | 193.4 | 179.4 | 177.4 |
| 52.5° | 1149.8 | 1067.2 | 587.4 | 368.3 | 315.8 | 379.2 | 331.2 | 288.9 | 262.0 | 262.0 | 265.8 |
| 55° | 1466.2 | 1383.6 | 644.4 | 430.5 | 391.4 | 475.3 | 423.4 | 388.8 | 376.0 | 430.5 | 445.2 |
| 57.5° | 1780.1 | 1675.1 | 682.8 | 493.9 | 479.8 | 588.0 | 525.9 | 496.4 | 520.1 | 681.6 | 731.5 |
| 60° | 2066.5 | 1892.9 | 712.9 | 554.1 | 555.4 | 677.7 | 631.6 | 629.7 | 666.2 | 872.4 | 935.9 |
| 62.5° | 2231.7 | 1995.4 | 711.0 | 588.7 | 599.6 | 733.4 | 695.0 | 705.3 | 725.8 | 904.5 | 952.5 |
| 65° | 2345.1 | 2044.0 | 696.3 | 604.0 | 618.1 | 753.3 | 705.3 | 688.0 | 674.5 | 800.7 | 846.8 |
| 67.5° | 2266.9 | 1930.0 | 663.0 | 581.6 | 606.6 | 724.5 | 661.1 | 611.7 | 585.5 | 649.5 | 680.9 |
| 70° | 1898.6 | 1609.7 | 586.8 | 523.3 | 546.4 | 610.5 | 549.6 | 500.9 | 473.4 | 508.0 | 522.7 |
| 72.5° | 1438.1 | 1224.8 | 529.1 | 489.4 | 479.1 | 504.8 | 447.1 | 392.7 | 376.0 | 398.4 | 401.6 |
| 75° | 1145.3 | 958.3 | 486.8 | 442.6 | 402.3 | 427.3 | 356.8 | 290.8 | 281.2 | 281.2 | 276.1 |
| 77.5° | 859.0 | 710.4 | 415.1 | 344.6 | 296.6 | 337.6 | 265.8 | 202.4 | 189.6 | 187.0 | 180.0 |
| 80° | 575.9 | 483.6 | 279.3 | 228.7 | 213.3 | 250.5 | 189.0 | 148.6 | 149.3 | 148.6 | 140.3 |
| 82.5° | 402.3 | 373.4 | 226.8 | 199.2 | 182.6 | 197.3 | 171.0 | 142.8 | 141.6 | 142.8 | 133.9 |
| 85° | 356.8 | 342.1 | 219.7 | 205.6 | 188.3 | 190.2 | 164.0 | 135.2 | 135.8 | 138.4 | 130.7 |
| 87.5° | 342.7 | 326.0 | 220.4 | 198.6 | 183.8 | 176.2 | 148.6 | 124.9 | 128.8 | 131.3 | 124.9 |
| 90° | 308.8 | 292.1 | 202.4 | 179.4 | 164.0 | 153.1 | 131.3 | 118.5 | 123.6 | 126.2 | 120.4 |
| 92.5° | 267.8 | 250.5 | 168.5 | 158.2 | 154.4 | 154.4 | 137.7 | 126.2 | 129.4 | 130.7 | 125.6 |
| 95° | 230.6 | 213.9 | 149.9 | 139.0 | 135.8 | 136.4 | 123.0 | 113.4 | 115.3 | 114.7 | 110.8 |
| 97.5° | 186.4 | 176.2 | 130.7 | 123.6 | 120.4 | 119.1 | 110.2 | 103.1 | 107.0 | 109.5 | 106.3 |
| 100° | 164.6 | 159.5 | 126.2 | 121.1 | 116.6 | 115.9 | 108.3 | 103.8 | 107.0 | 110.8 | 108.3 |
| 102.5° | 153.7 | 149.9 | 120.4 | 113.4 | 110.2 | 108.9 | 103.8 | 98.6 | 101.8 | 105.7 | 103.8 |
| 105° | 144.8 | 139.0 | 115.3 | 108.9 | 104.4 | 103.8 | 98.6 | 92.2 | 94.2 | 99.3 | 98.0 |
| 107.5° | 137.1 | 133.2 | 114.7 | 107.6 | 101.8 | 101.8 | 96.1 | 91.0 | 91.6 | 93.5 | 93.5 |
| 110° | 143.5 | 139.0 | 119.1 | 114.0 | 106.3 | 103.8 | 102.5 | 98.6 | 95.4 | 94.2 | 94.2 |



REPORT NUMBER: P856143
 CATALOG NUMBER: FFX-CLB-40-750-U-FR-T3

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 177.4 | 169.1 | 149.3 | 143.5 | 130.7 | 121.7 | 113.4 | 105.7 | 100.6 | 98.6 | 97.4 |
| 115° | 209.5 | 199.9 | 176.2 | 161.4 | 144.1 | 130.7 | 119.1 | 110.8 | 103.1 | 100.6 | 103.1 |
| 117.5° | 215.9 | 190.2 | 153.7 | 141.6 | 131.3 | 123.0 | 116.6 | 110.2 | 104.4 | 106.3 | 104.4 |
| 120° | 213.9 | 182.6 | 155.0 | 172.3 | 155.0 | 135.8 | 120.4 | 120.4 | 118.5 | 108.9 | 110.8 |
| 122.5° | 329.2 | 307.5 | 274.2 | 263.9 | 215.2 | 196.7 | 167.8 | 143.5 | 119.8 | 106.3 | 99.9 |
| 125° | 451.0 | 429.8 | 378.6 | 339.5 | 290.8 | 239.6 | 183.8 | 141.6 | 110.8 | 98.0 | 99.9 |
| 127.5° | 453.5 | 434.3 | 385.6 | 319.6 | 255.6 | 205.0 | 153.1 | 125.6 | 108.3 | 99.9 | 98.6 |
| 130° | 353.6 | 335.0 | 293.4 | 242.8 | 202.4 | 169.1 | 137.7 | 113.4 | 98.0 | 91.6 | 89.7 |
| 132.5° | 306.2 | 289.5 | 251.1 | 205.0 | 175.5 | 149.3 | 123.0 | 98.6 | 88.4 | 83.9 | 84.6 |
| 135° | 257.5 | 237.6 | 201.1 | 176.2 | 157.6 | 133.9 | 110.2 | 90.3 | 85.2 | 83.9 | 83.3 |
| 137.5° | 218.4 | 204.3 | 178.7 | 159.5 | 141.6 | 120.4 | 96.7 | 84.6 | 82.6 | 83.9 | 82.6 |
| 140° | 185.8 | 174.2 | 160.1 | 143.5 | 121.7 | 101.8 | 86.5 | 80.7 | 83.9 | 84.6 | 83.9 |
| 142.5° | 160.1 | 148.6 | 133.9 | 111.5 | 101.2 | 92.2 | 88.4 | 83.9 | 83.9 | 83.3 | 82.6 |
| 145° | 133.9 | 118.5 | 111.5 | 114.7 | 108.3 | 99.3 | 92.2 | 83.3 | 80.1 | 80.1 | 80.7 |
| 147.5° | 153.7 | 137.7 | 128.8 | 121.7 | 109.5 | 96.7 | 85.8 | 77.5 | 76.2 | 78.8 | 78.1 |
| 150° | 132.6 | 117.9 | 111.5 | 101.8 | 94.2 | 84.6 | 77.5 | 74.3 | 74.9 | 78.1 | 78.1 |
| 152.5° | 105.7 | 95.4 | 91.6 | 89.0 | 85.2 | 79.4 | 75.6 | 74.3 | 75.6 | 76.9 | 76.9 |
| 155° | 99.3 | 93.5 | 89.0 | 87.1 | 82.6 | 78.1 | 74.9 | 74.3 | 75.6 | 76.9 | 78.1 |
| 157.5° | 92.9 | 91.0 | 85.2 | 83.3 | 79.4 | 77.5 | 75.6 | 75.6 | 76.2 | 77.5 | 78.8 |
| 160° | 88.4 | 87.8 | 82.6 | 82.0 | 79.4 | 78.1 | 78.1 | 78.8 | 79.4 | 79.4 | 79.4 |
| 162.5° | 85.8 | 85.8 | 83.9 | 82.6 | 82.0 | 81.4 | 83.3 | 83.9 | 83.3 | 83.3 | 83.3 |
| 165° | 86.5 | 87.1 | 85.2 | 83.9 | 83.3 | 84.6 | 87.8 | 87.8 | 86.5 | 85.8 | 85.2 |
| 167.5° | 87.1 | 87.8 | 86.5 | 85.8 | 85.8 | 87.1 | 88.4 | 87.8 | 87.1 | 86.5 | 85.8 |
| 170° | 86.5 | 87.1 | 87.1 | 87.8 | 87.8 | 87.8 | 89.0 | 89.0 | 87.8 | 87.1 | 87.1 |
| 172.5° | 87.8 | 88.4 | 89.0 | 89.7 | 90.3 | 89.7 | 90.3 | 90.3 | 90.3 | 90.3 | 91.0 |
| 175° | 91.6 | 91.6 | 92.2 | 92.2 | 91.6 | 92.2 | 92.2 | 92.2 | 92.9 | 94.2 | 94.2 |
| 177.5° | 93.5 | 93.5 | 92.9 | 92.9 | 92.2 | 92.9 | 92.9 | 92.9 | 92.9 | 93.5 | 92.9 |
| 180° | 94.8 | 94.8 | 94.8 | 94.8 | 94.8 | 94.8 | 94.8 | 94.8 | 94.8 | 94.8 | 94.8 |

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.

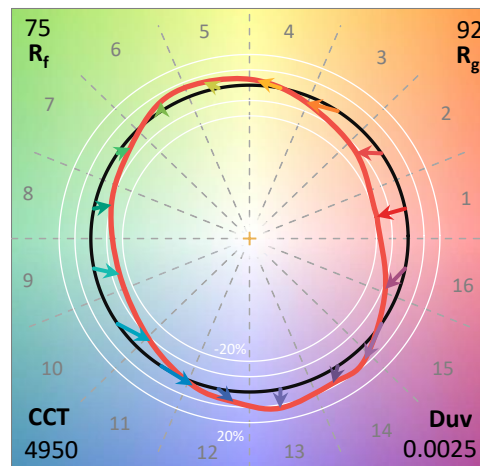
Test Information

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

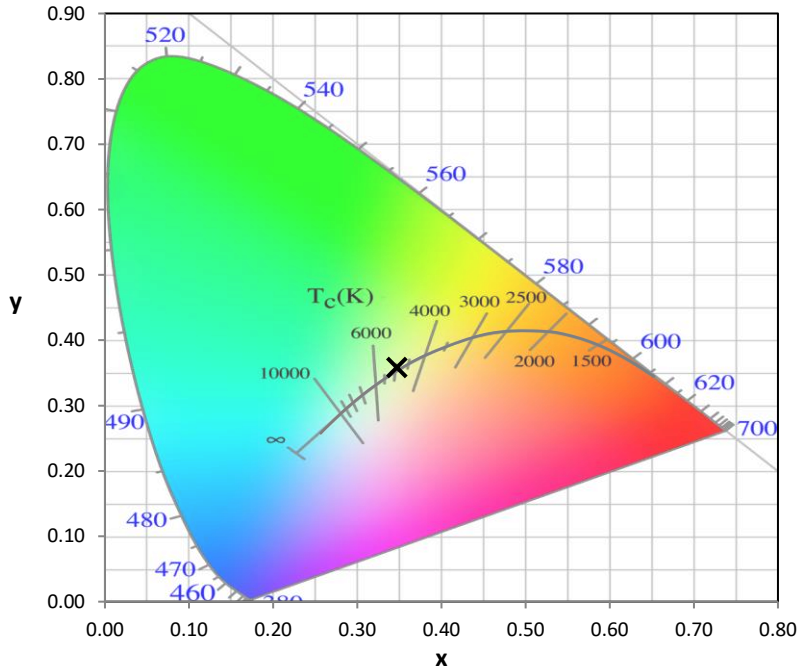
Stabilization Time: 0.803355M
 Operation Time: 1H
 Sphere Temperature (°C): 24.7

REPORT NUMBER: SP1-2406-133-5

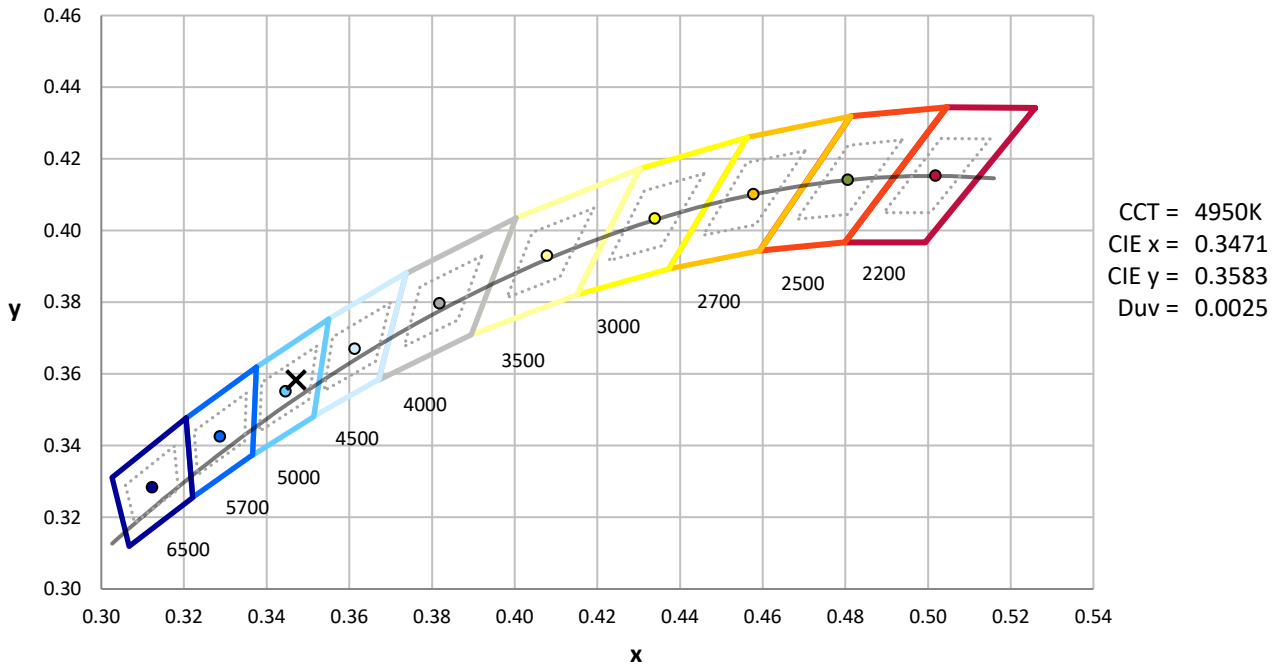
| Measurement and Test Equipment | | | |
|--------------------------------|-----------------------|------------------|----------------------|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | IN0058 | 6/18/2024 | 12/18/2024 |
| Power Meter | INXT2011004 |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



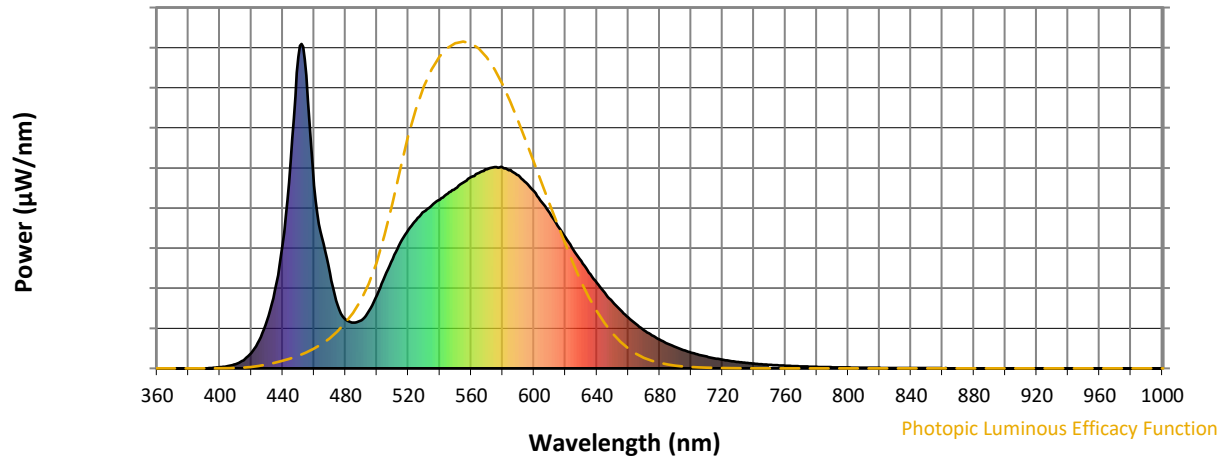
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2406-133-5

Photopic Flux vs. Wavelength

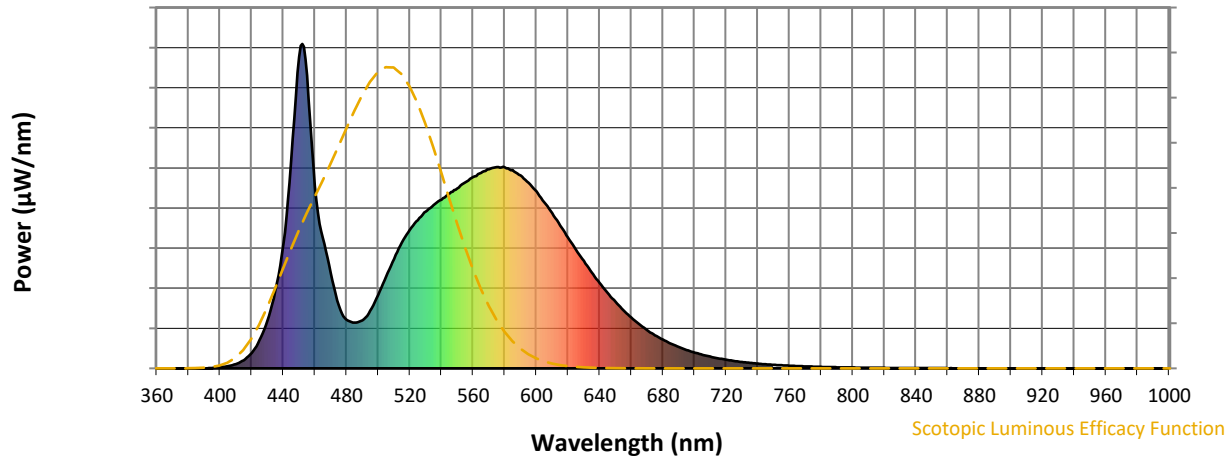


Photopic Lumens: NR

| 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



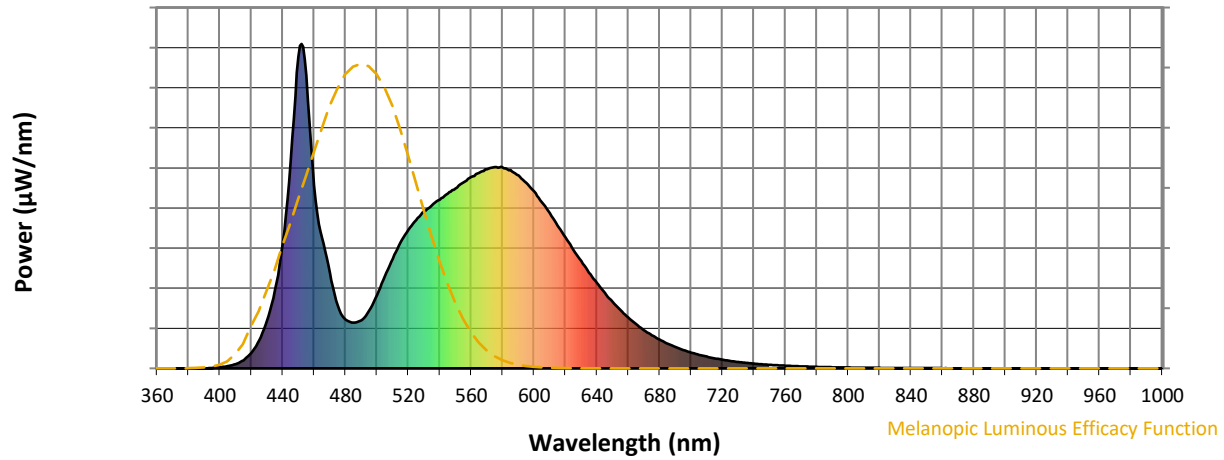
Scotopic Lumens: NR

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

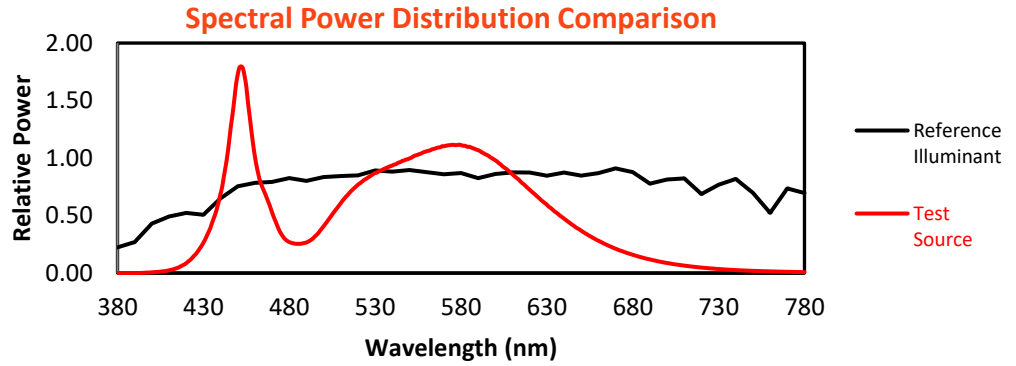
| λ (nm) | Power W [^] /nm | Lumens (φ/nm) | λ (nm) | Power W [^] /nm | Lumens (φ/nm) | λ (nm) | Power W [^] /nm | Lumens (φ/nm) | λ (nm) | Power W [^] /nm | Lumens (φ/nm) | λ (nm) | Power W [^] /nm | Lumens (φ/nm) |
|--------|--------------------------|---------------|--------|--------------------------|---------------|--------|--------------------------|------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

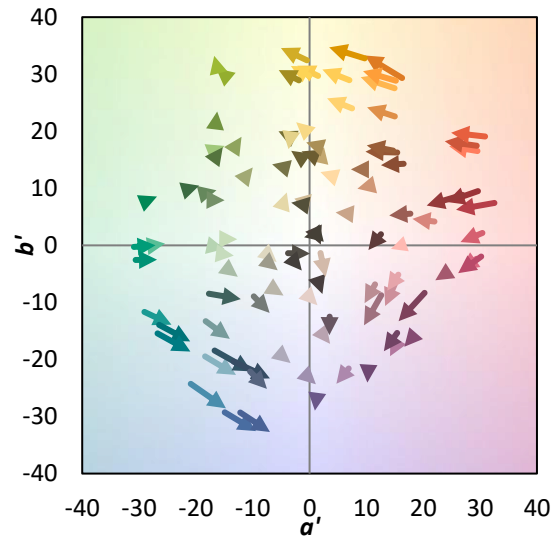
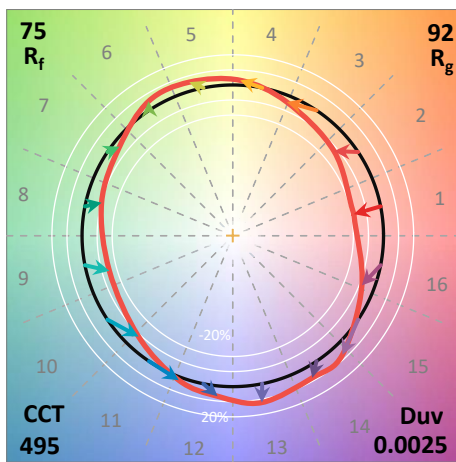
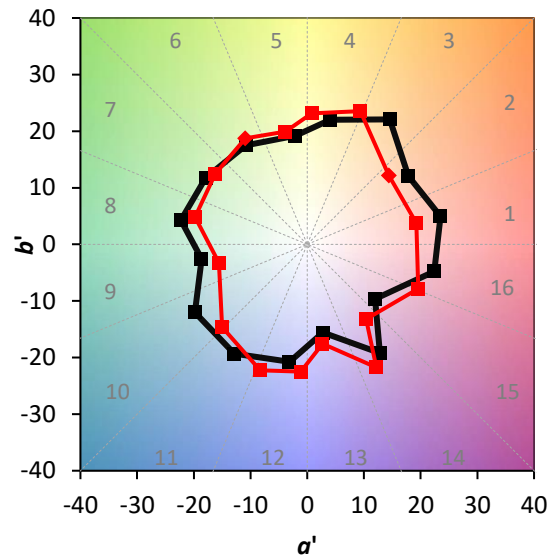
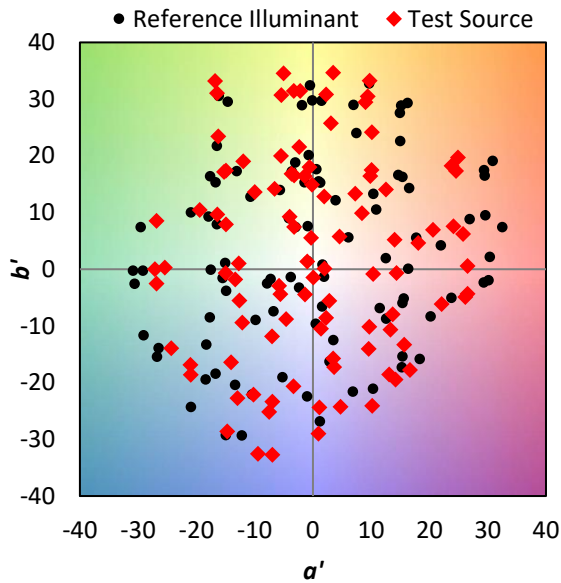
TM-30-18

Summary

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



Color Vector Graphics

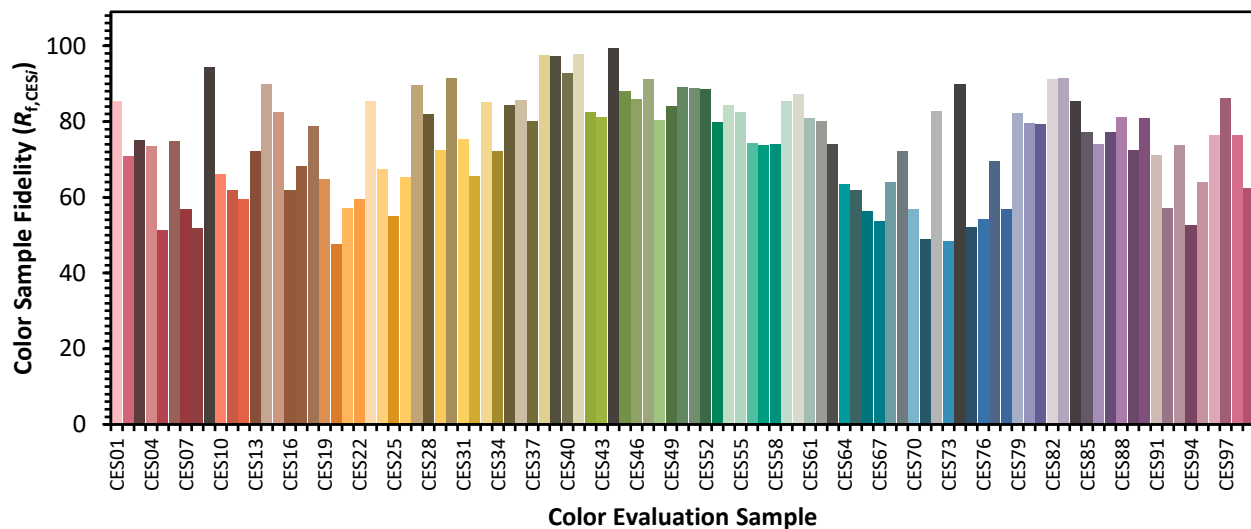


REPORT NUMBER: SP1-2406-133-5

TM-30-18

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

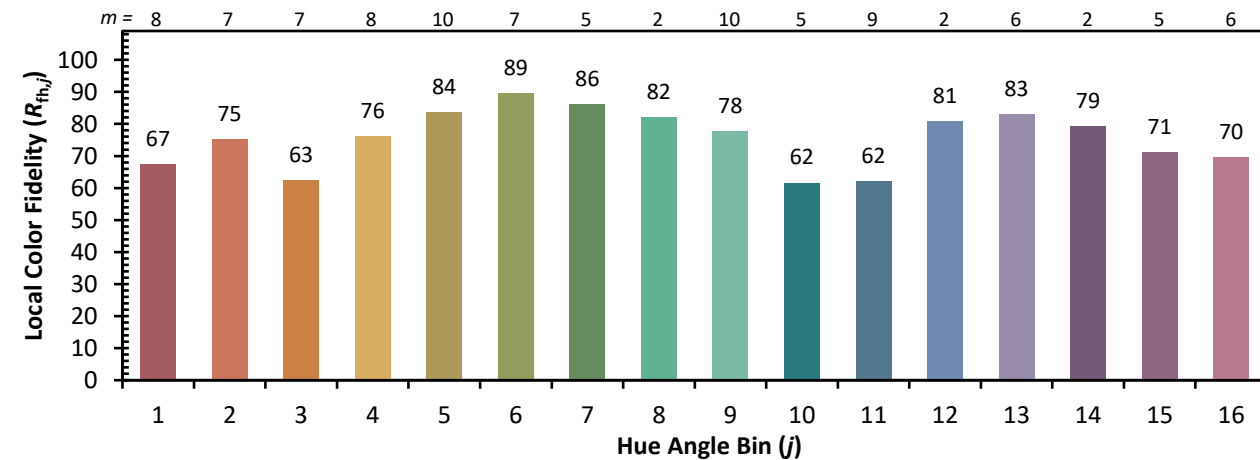
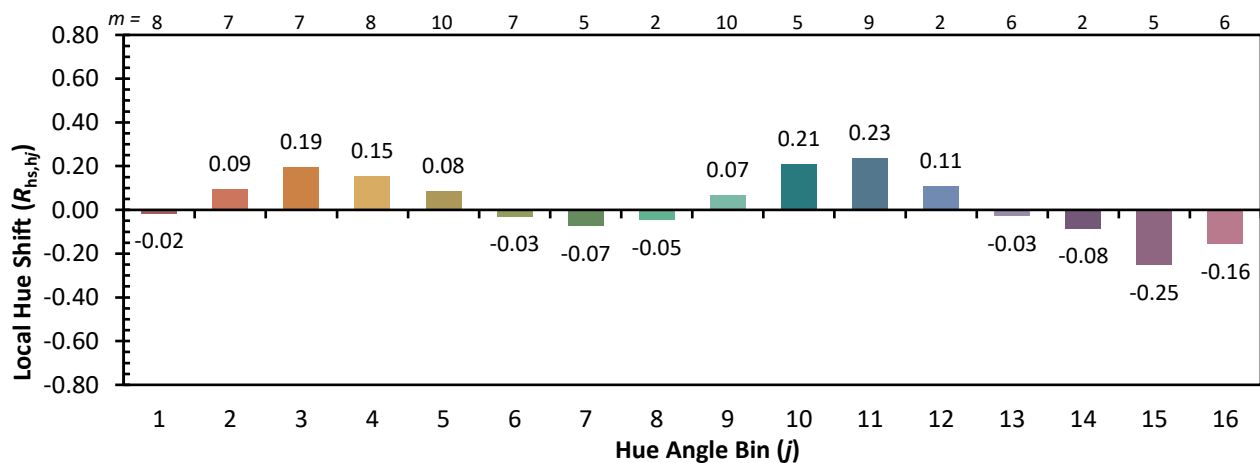
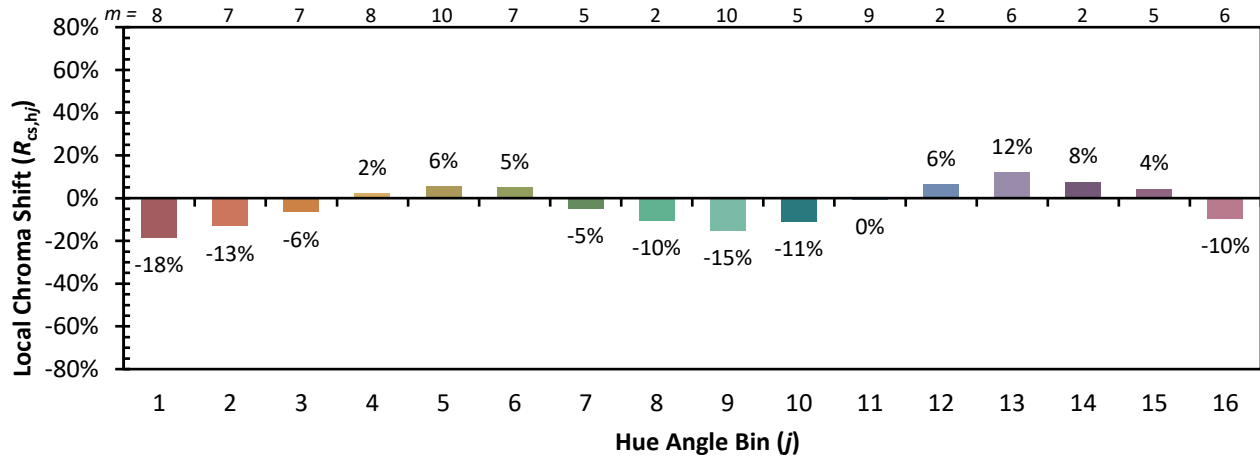
| | | | |
|------------|------------|------------|------------|
| CES01 = 85 | CES26 = 65 | CES51 = 89 | CES76 = 54 |
| CES02 = 60 | CES27 = 90 | CES52 = 88 | CES77 = 69 |
| CES03 = 30 | CES28 = 82 | CES53 = 80 | CES78 = 57 |
| CES04 = 69 | CES29 = 72 | CES54 = 84 | CES79 = 82 |
| CES05 = 46 | CES30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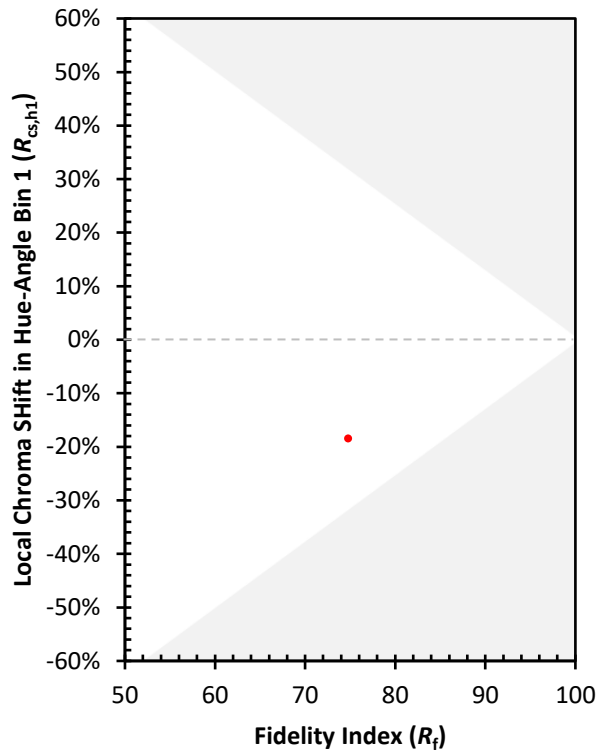
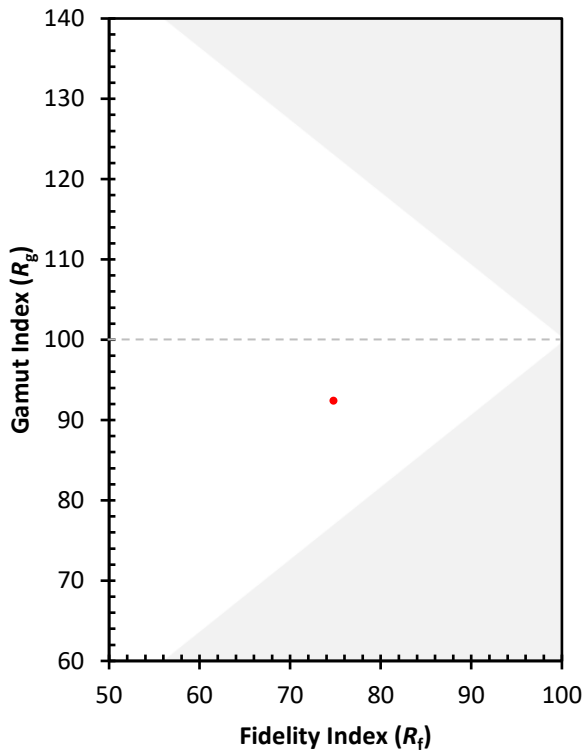
Color Rendition by Hue-Angle Bin



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Measure Comparisons



(END OF REPORT)