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: P981387

Luminaire Tested: **FFX-CLB-20-730-U-PG-T5**

Issue Date: 04/15/2025

Report Generated By 670245763

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

Scaled Data Report

**Test Information**

| | |
|---|---|
| Test Method: | LM-79-08 |
| Report Number: | P981387 |
| Test Lab: | INNOVATION CENTER(G3) |
| Issue Date: | 04/15/2025 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS (FORMERLY EATON) |
| Product Line: | STREETWORKS |
| Catalog Number: | FFX-CLB-20-730-U-PG-T5 |
| Description: | FAIRFAX POST TOP FIXTURE w/ PRISMATIC GLOBE |
| Light Source: | (4) 3000K CCT, 70 CRI LEDS |
| Ballast/Driver: | ELECTRONIC DRIVER |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 3360.4 lumens |
| Efficiency: | N/A |
| Efficacy: | 169.7 lumens/watt |
| Luminous Opening: | Vertical Cylinder (Dia: 1.58' x H: 1.5') |
| IES Classification: | Type V - Short |
| BUG Rating: | B1 - U4 - G2 |

| | |
|---|---|
| Input Watts (W): | 19.8 |
| Input Voltage (V): | 120 |
| Input Current (Ain): | NR |
| Voltage Rise (V): | NR |
| Power Factor: | 0.99 |
| Total Harmonic Distortion (THDi): | 9.1% |
| Frequency (hertz): | 60 |
| Stabilization Time: | NR |
| Operation Time: | NR |
| Ambient Temperature (°C): | NR |
| Test Distance: | 28.75 FT |

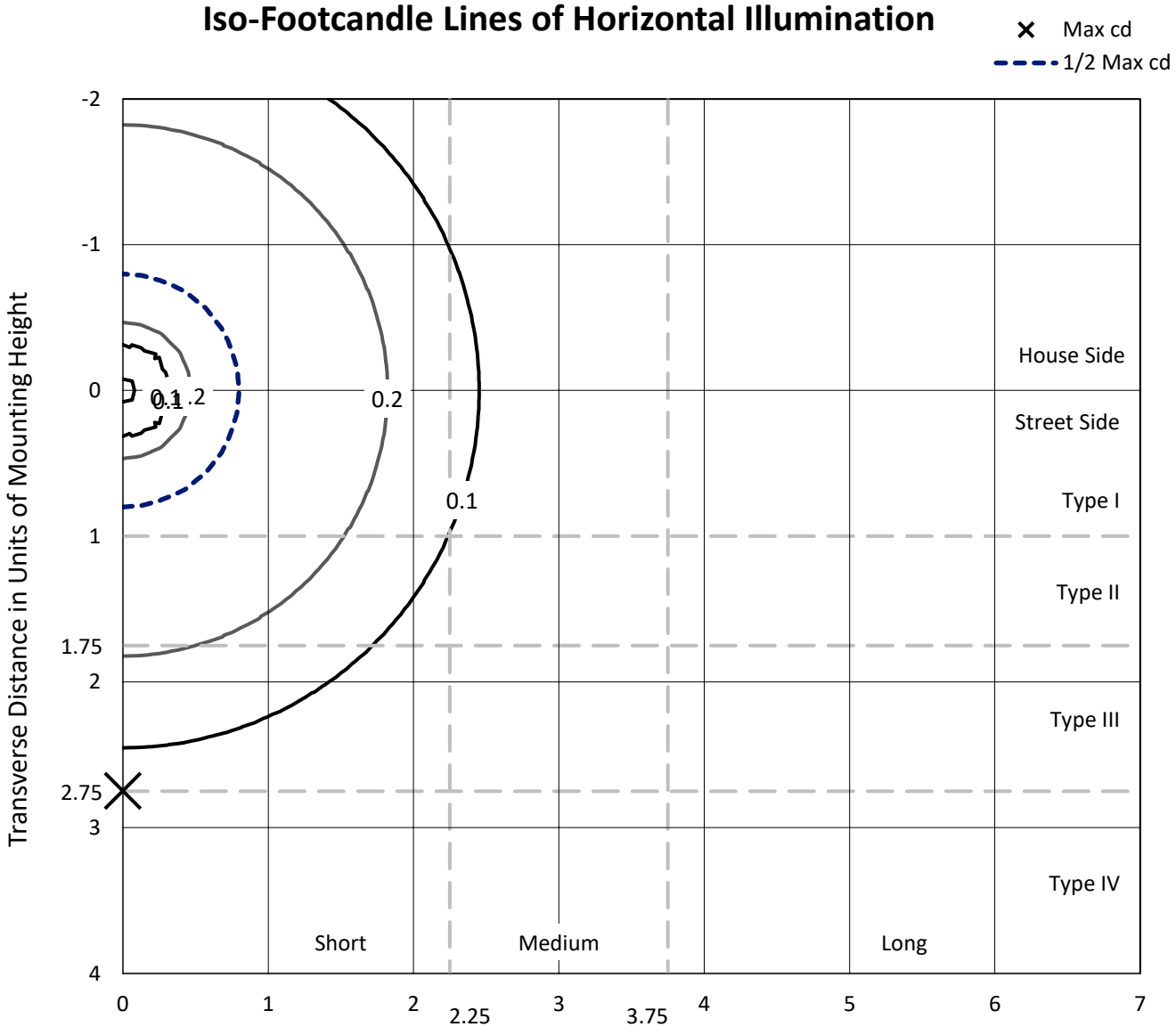


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Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P981387
CATALOG NUMBER: FFX-CLB-20-730-U-PG-T5

## Iso-Footcandle Lines of Horizontal Illumination



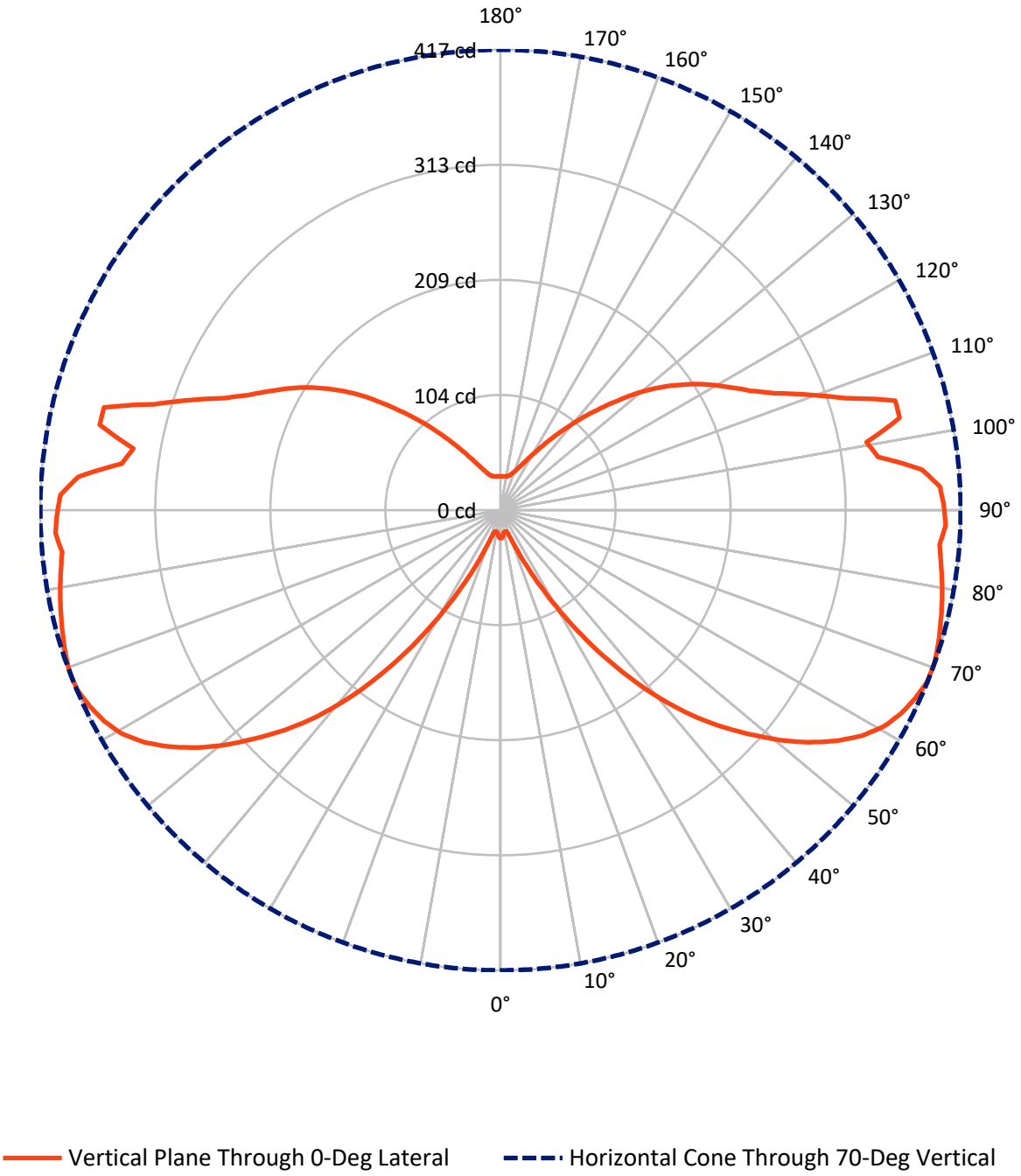

Based on 15 foot mounting height. Maximum calculated value = 0.5 fc
Type V - Short - N/A

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## Luminous Intensity Polar Plot



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Scaled Data Report

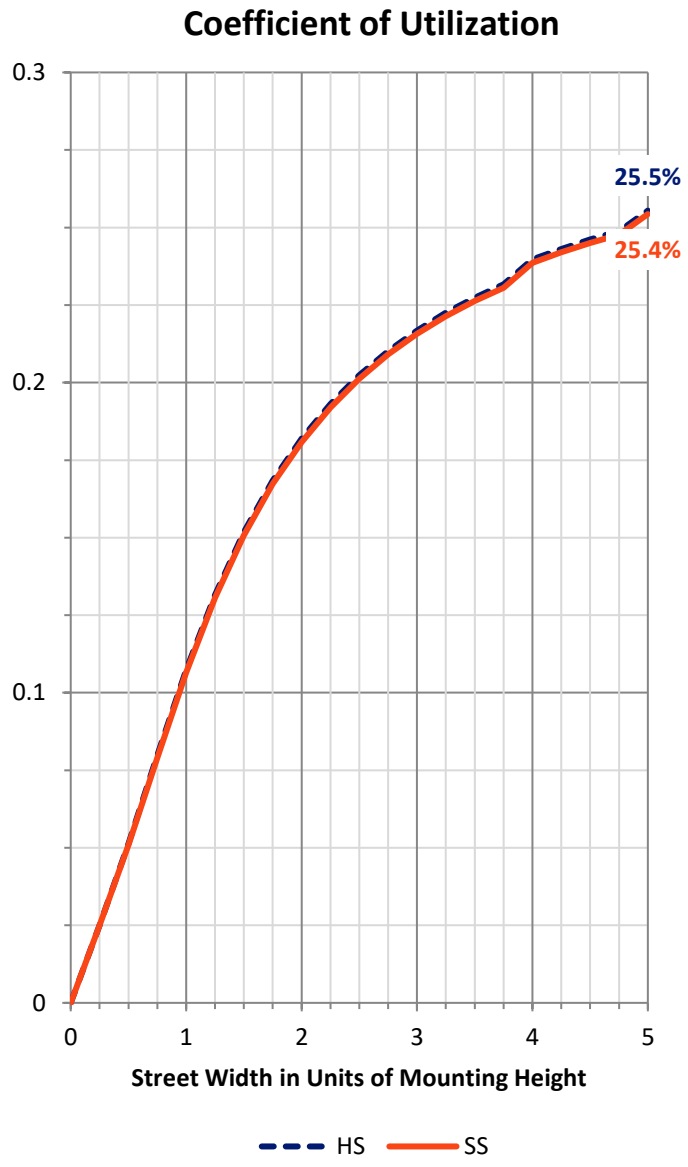
REPORT NUMBER: P981387
CATALOG NUMBER: FFX-CLB-20-730-U-PG-T5

**FLUX DISTRIBUTION:**

| | | Downward | Upward | Total |
|---|---|---|---|---|
| **House Side** | Lumens | 986.6 | 693.6 | 1680.2 |
| | % Fixture | 29.4 | 20.6 | 50.0 |
| **Street Side** | Lumens | 986.6 | 693.6 | 1680.2 |
| | % Fixture | 29.4 | 20.6 | 50.0 |
| **Total** | Lumens | 1973.3 | 1387.2 | 3360.4 |
| | % Fixture | 58.7 | 41.3 | 100.0 |

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 2.1 | 0.1 |
| 10°-20° | 6.3 | 0.2 |
| 20°-30° | 29.8 | 0.9 |
| 30°-40° | 105.5 | 3.1 |
| 40°-50° | 216.8 | 6.5 |
| 50°-60° | 329.9 | 9.8 |
| 60°-70° | 408.2 | 12.1 |
| 70°-80° | 435.7 | 13.0 |
| 80°-90° | 439.0 | 13.1 |
| 90°-100° | 408.7 | 12.2 |
| 100°-110° | 367.5 | 10.9 |
| 110°-120° | 253.3 | 7.5 |
| 120°-130° | 174.8 | 5.2 |
| 130°-140° | 101.3 | 3.0 |
| 140°-150° | 48.2 | 1.4 |
| 150°-160° | 21.1 | 0.6 |
| 160°-170° | 9.4 | 0.3 |
| 170°-180° | 2.9 | 0.1 |
| 0°-90° | 1973.3 | 58.7 |
| 0°-180° | 3360.4 | 100.0 |



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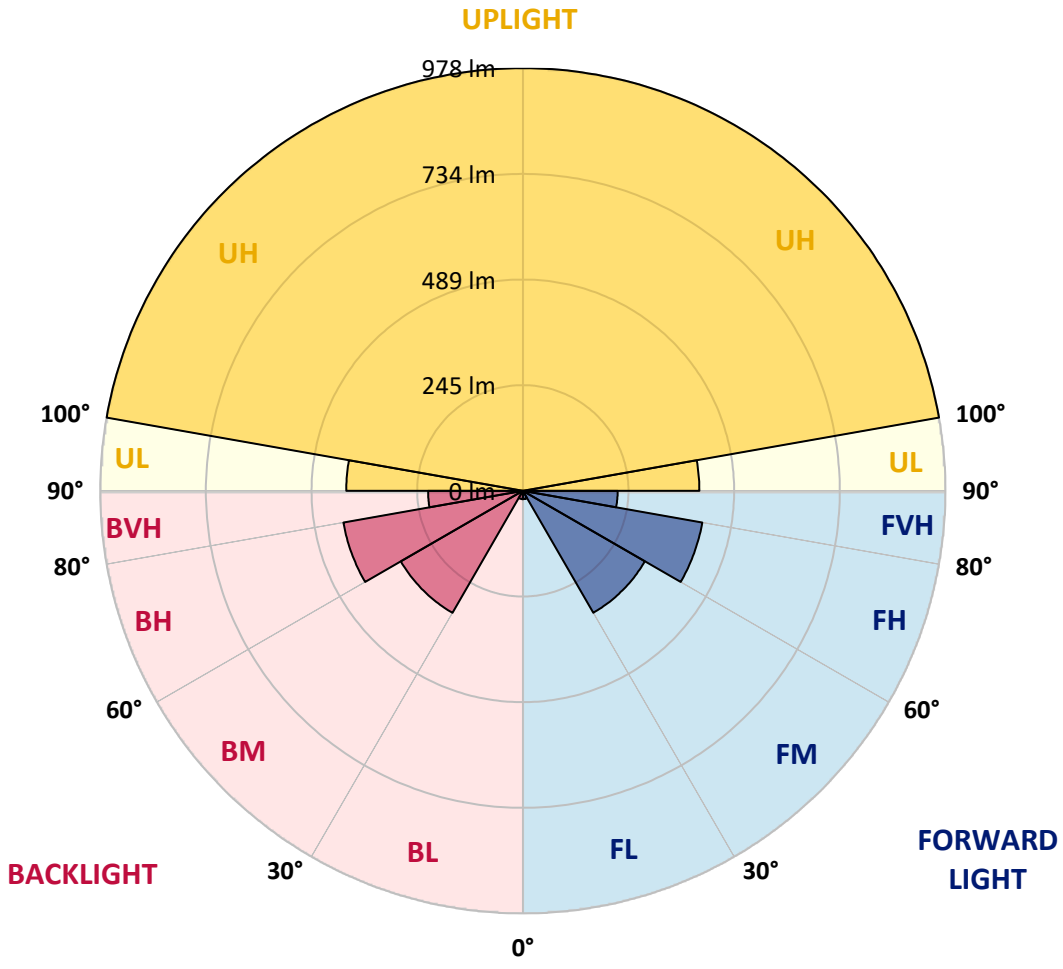
Scaled Data Report

REPORT NUMBER: P981387
CATALOG NUMBER: FFX-CLB-20-730-U-PG-T5

## LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit B | U | G |
|---|---|---|---|---|---|---|
| FL | (0°-30°) | 19.1 | 0.6 | | | |
| FM | (30°-60°) | 326.1 | 9.7 | | | |
| FH | (60°-80°) | 421.9 | 12.6 | | | G0/660 |
| FVH | (80°-90°) | 219.5 | 6.5 | | | G2/225 |
| BL | (0°-30°) | 19.1 | 0.6 | B0/110 | | |
| BM | (30°-60°) | 326.1 | 9.7 | B1/1000 | | |
| BH | (60°-80°) | 421.9 | 12.6 | B1/500 | | G0/660 |
| BVH | (80°-90°) | 219.5 | 6.5 | | | G2/225 |
| UL | (90°-100°) | 408.7 | 12.2 | | U3/500 | |
| UH | (100°-180°) | 978.4 | 29.1 | | U4/1000 | |

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



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CATALOG NUMBER: FFX-CLB-20-730-U-PG-T5

**CANDELA DISTRIBUTION (FULL):**

| | 0° |
|---|---|
| 0° | 25.6 |
| 2.5° | 25.2 |
| 5° | 23.3 |
| 7.5° | 20.8 |
| 10° | 20.5 |
| 12.5° | 19.9 |
| 15° | 20.1 |
| 17.5° | 22.6 |
| 20° | 29.4 |
| 22.5° | 41.7 |
| 25° | 58.7 |
| 27.5° | 80.1 |
| 30° | 106.3 |
| 32.5° | 134.8 |
| 35° | 165.4 |
| 37.5° | 196.0 |
| 40° | 226.2 |
| 42.5° | 254.3 |
| 45° | 279.7 |
| 47.5° | 303.4 |
| 50° | 327.7 |
| 52.5° | 349.7 |
| 55° | 369.2 |
| 57.5° | 386.0 |
| 60° | 398.8 |
| 62.5° | 407.0 |
| 65° | 412.6 |
| 67.5° | 416.8 |
| 70° | 417.2 |
| 72.5° | 414.9 |
| 75° | 412.0 |
| 77.5° | 409.1 |
| 80° | 405.9 |
| 82.5° | 402.4 |
| 85° | 399.2 |
| 87.5° | 403.8 |
| 90° | 401.9 |
| 92.5° | 399.0 |
| 95° | 383.7 |
| 97.5° | 345.7 |
| 100° | 337.4 |
| 102.5° | 371.3 |
| 105° | 371.3 |
| 107.5° | 328.1 |
| 110° | 298.1 |

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Scaled Data Report

REPORT NUMBER: P981387
CATALOG NUMBER: FFX-CLB-20-730-U-PG-T5

**CANDELA DISTRIBUTION (continued):**

| | 0° |
|---|---|
| 112.5° | 270.5 |
| 115° | 251.0 |
| 117.5° | 236.7 |
| 120° | 223.3 |
| 122.5° | 209.7 |
| 125° | 194.8 |
| 127.5° | 179.5 |
| 130° | 163.1 |
| 132.5° | 145.5 |
| 135° | 128.9 |
| 137.5° | 113.8 |
| 140° | 99.6 |
| 142.5° | 86.4 |
| 145° | 74.6 |
| 147.5° | 64.6 |
| 150° | 56.2 |
| 152.5° | 49.5 |
| 155° | 44.0 |
| 157.5° | 39.8 |
| 160° | 36.5 |
| 162.5° | 34.0 |
| 165° | 32.5 |
| 167.5° | 31.5 |
| 170° | 31.0 |
| 172.5° | 30.8 |
| 175° | 30.6 |
| 177.5° | 30.6 |
| 180° | 30.6 |

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

# LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

Streetworks

Report Number: SP1-2501-332-4

Test Date: 03/21/2025

Luminaire Tested: FFX-CLB-100-730-U-FR-T5

Data in this report applies to families of products including FFX-CLB-100-730-U-FR-T5

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

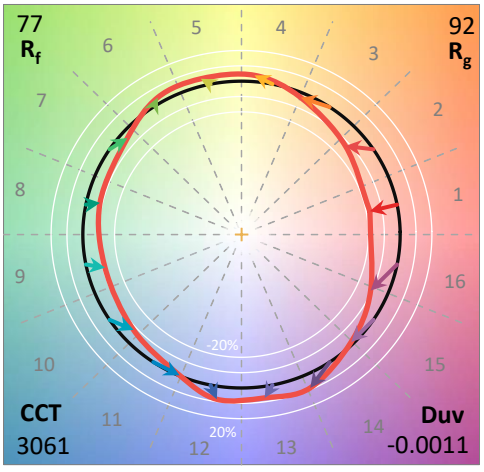
## Test Information

| | |
|---|---|
| Test Method: | LM-79-2019 |
| Report Number: | SP1-2501-332-4 |
| Test Lab: | COOPER LIGHTING SOLUTIONS |
| Photometer: | SP1 - 76IN SPHERE |
| Measurement Geometry: | 4π |
| Issue Date: | 03/31/2025 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS |
| Product Line: | Streetworks |
| Catalog Number: | **FFX-CLB-100-730-U-FR-T5** |
| Description: | FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5 |

## Spectral Parameters

| | | | | | |
|---|---|---|---|---|---|
| CCT (K): | 3061 | CRI (Ra): | 71.7 | | |
| CIE u': | 0.2489 | R1: | 67.8 | R9: | -40.3 |
| CIE v': | 0.5187 | R2: | 85.0 | R10: | 67.2 |
| Duv: | -0.0011 | R3: | 92.9 | R11: | 61.6 |
| CIE x: | 0.4312 | R4: | 66.0 | R12: | 59.9 |
| CIE y: | 0.3995 | R5: | 68.5 | R13: | 71.4 |
| CIE z: | 0.1693 | R6: | 80.2 | R14: | 96.3 |
| Peak Wavelength (nm): | 592 | R7: | 74.5 | R15: | 58.8 |
| Dominant Wavelength (nm): | 582 | R8: | 39.0 | | |
| Purity: | 49.32381 | | | | |

| | |
|---|---|
| Rf: | 76.8 |
| Rg: | 92.2 |




## Test Conditions

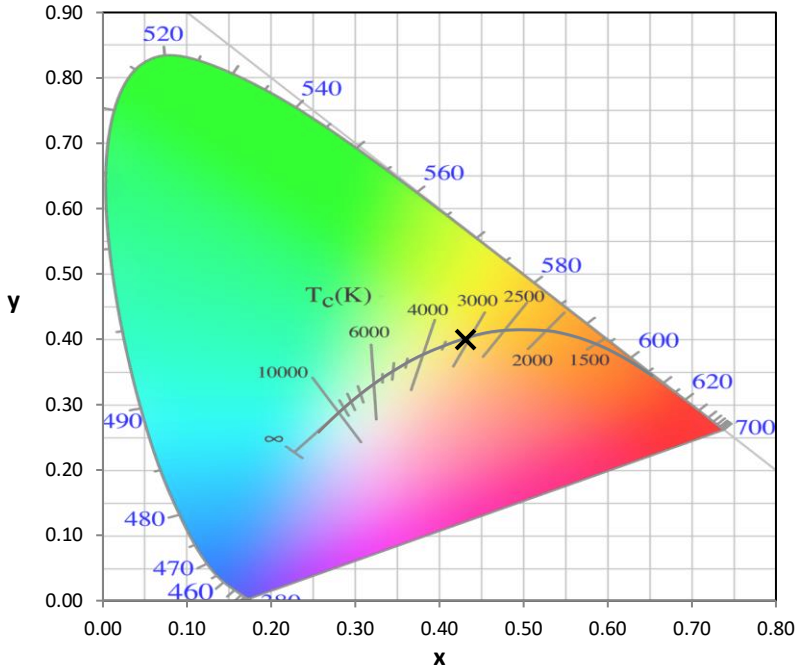
| | |
|---|---|
| Stabilization Time: | 56M |
| Operation Time: | 1H 56M |
| Sphere Temperature (°C): | 24.8 |

REPORT NUMBER: SP1-2501-332-4

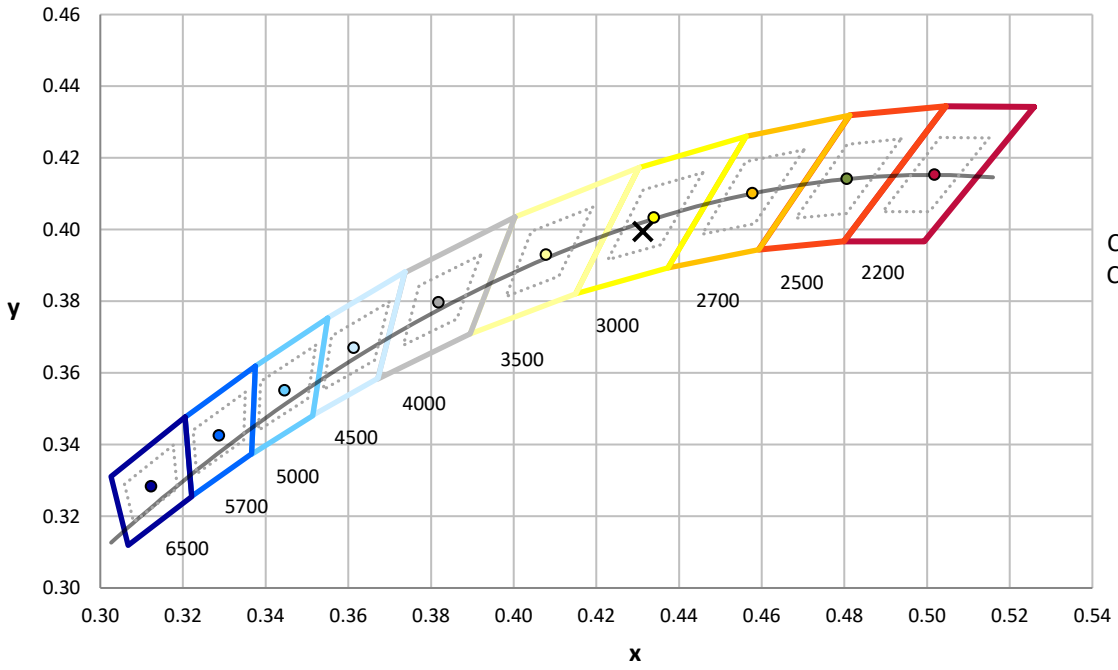
| Measurement and Test Equipment | | | |
|---|---|---|---|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | IN0058 | 12/16/2024 | 6/16/2025 |
| Power Meter | INXT2011004 | 1/21/2025 | 1/21/2026 |
| AC Power Source | IN0063 | 10/22/2024 | 10/22/2025 |
| DC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

REPORT NUMBER: SP1-2501-332-4

## CIE 1931 Chromaticity Diagram




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

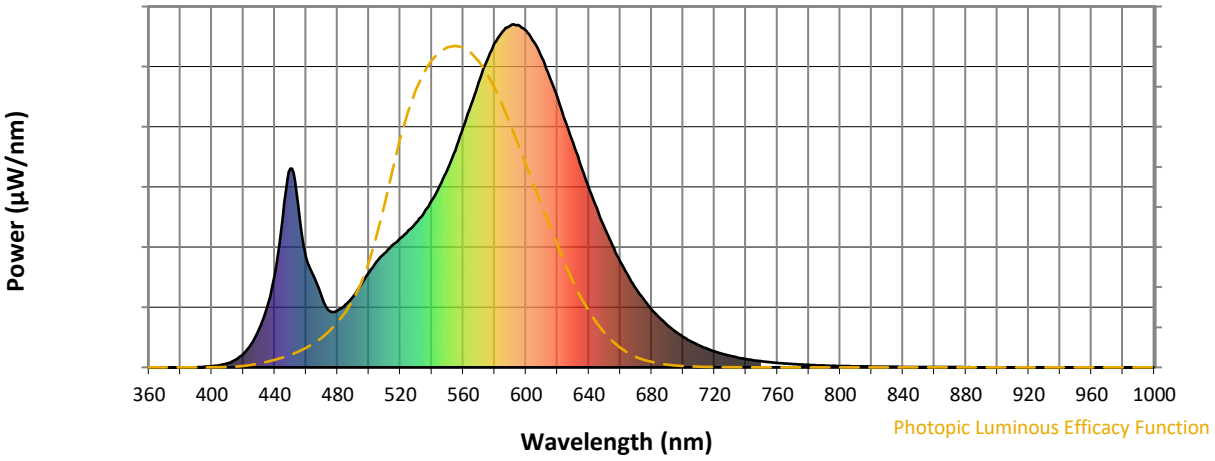



CCT = 3061K
CIE x = 0.4312
CIE y = 0.3995
Duv = -0.0011

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-4

## Photopic Flux vs. Wavelength

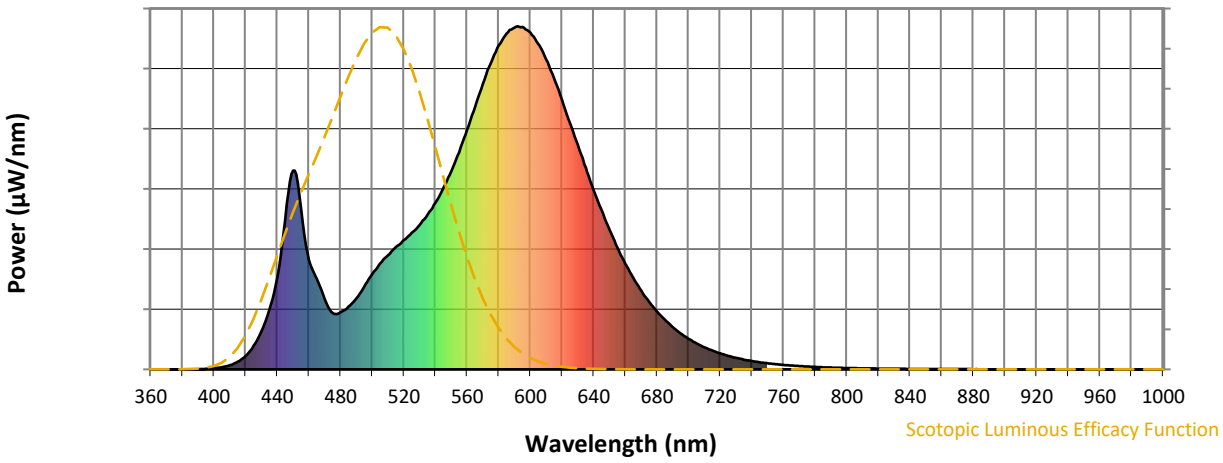



## Photopic Lumens: NR

| 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 | 207 | NR | 620 | 786 | NR | 750 | 18 | NR | 880 | 0 | NR |
| 365 | 0 | NR | 495 | 241 | NR | 625 | 718 | NR | 755 | 15 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 277 | NR | 630 | 654 | NR | 760 | 13 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 309 | NR | 635 | 588 | NR | 765 | 11 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 333 | NR | 640 | 523 | NR | 770 | 10 | NR | 900 | 0 | NR |
| 385 | 0 | NR | 515 | 356 | NR | 645 | 465 | NR | 775 | 8 | NR | 905 | 0 | NR |
| 390 | 0 | NR | 520 | 376 | NR | 650 | 407 | NR | 780 | 7 | NR | 910 | 0 | NR |
| 395 | 2 | NR | 525 | 398 | NR | 655 | 356 | NR | 785 | 6 | NR | 915 | 0 | NR |
| 400 | 4 | NR | 530 | 422 | NR | 660 | 308 | NR | 790 | 5 | NR | 920 | 0 | NR |
| 405 | 6 | NR | 535 | 450 | NR | 665 | 267 | NR | 795 | 5 | NR | 925 | 0 | NR |
| 410 | 12 | NR | 540 | 486 | NR | 670 | 229 | NR | 800 | 4 | NR | 930 | 0 | NR |
| 415 | 22 | NR | 545 | 530 | NR | 675 | 197 | NR | 805 | 3 | NR | 935 | 0 | NR |
| 420 | 39 | NR | 550 | 577 | NR | 680 | 169 | NR | 810 | 3 | NR | 940 | 0 | NR |
| 425 | 68 | NR | 555 | 633 | NR | 685 | 145 | NR | 815 | 3 | NR | 945 | 0 | NR |
| 430 | 111 | NR | 560 | 700 | NR | 690 | 123 | NR | 820 | 2 | NR | 950 | 0 | NR |
| 435 | 175 | NR | 565 | 766 | NR | 695 | 105 | NR | 825 | 2 | NR | 955 | 0 | NR |
| 440 | 269 | NR | 570 | 832 | NR | 700 | 89 | NR | 830 | 2 | NR | 960 | 0 | NR |
| 445 | 434 | NR | 575 | 893 | NR | 705 | 76 | NR | 835 | 2 | NR | 965 | 0 | NR |
| 450 | 579 | NR | 580 | 945 | NR | 710 | 64 | NR | 840 | 1 | NR | 970 | 0 | NR |
| 455 | 468 | NR | 585 | 979 | NR | 715 | 55 | NR | 845 | 1 | NR | 975 | 0 | NR |
| 460 | 320 | NR | 590 | 996 | NR | 720 | 47 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 264 | NR | 595 | 998 | NR | 725 | 40 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 204 | NR | 600 | 981 | NR | 730 | 33 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 164 | NR | 605 | 949 | NR | 735 | 28 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 166 | NR | 610 | 903 | NR | 740 | 24 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 183 | NR | 615 | 847 | NR | 745 | 21 | NR | 875 | 1 | NR | | | |

REPORT NUMBER: SP1-2501-332-4

## Scotopic Flux vs. Wavelength

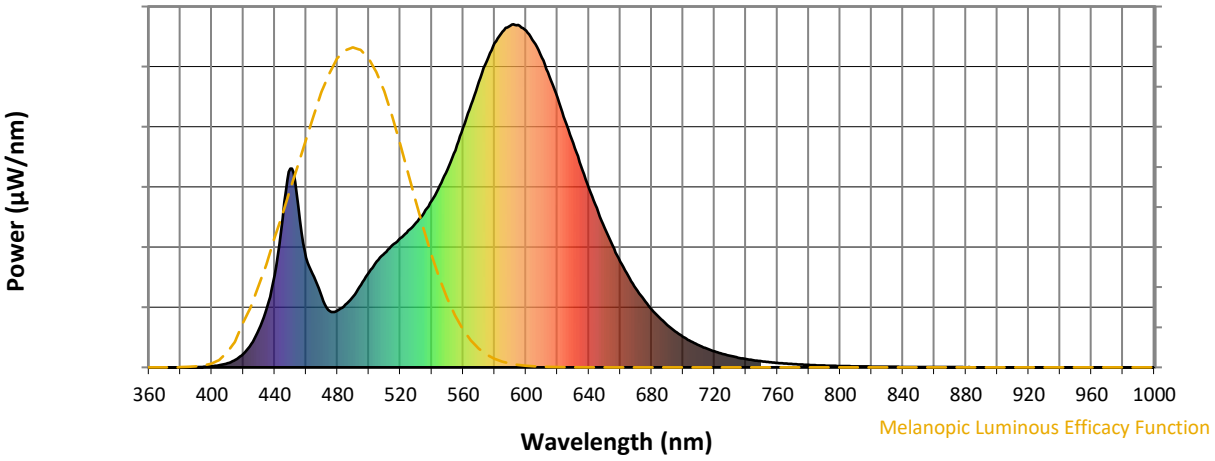



**Scotopic Lumens: NR** **S/P: 1.29**

| 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 | 207 | NR | 620 | 786 | NR | 750 | 18 | NR | 880 | 0 | NR |
| 365 | 0 | NR | 495 | 241 | NR | 625 | 718 | NR | 755 | 15 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 277 | NR | 630 | 654 | NR | 760 | 13 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 309 | NR | 635 | 588 | NR | 765 | 11 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 333 | NR | 640 | 523 | NR | 770 | 10 | NR | 900 | 0 | NR |
| 385 | 0 | NR | 515 | 356 | NR | 645 | 465 | NR | 775 | 8 | NR | 905 | 0 | NR |
| 390 | 0 | NR | 520 | 376 | NR | 650 | 407 | NR | 780 | 7 | NR | 910 | 0 | NR |
| 395 | 2 | NR | 525 | 398 | NR | 655 | 356 | NR | 785 | 6 | NR | 915 | 0 | NR |
| 400 | 4 | NR | 530 | 422 | NR | 660 | 308 | NR | 790 | 5 | NR | 920 | 0 | NR |
| 405 | 6 | NR | 535 | 450 | NR | 665 | 267 | NR | 795 | 5 | NR | 925 | 0 | NR |
| 410 | 12 | NR | 540 | 486 | NR | 670 | 229 | NR | 800 | 4 | NR | 930 | 0 | NR |
| 415 | 22 | NR | 545 | 530 | NR | 675 | 197 | NR | 805 | 3 | NR | 935 | 0 | NR |
| 420 | 39 | NR | 550 | 577 | NR | 680 | 169 | NR | 810 | 3 | NR | 940 | 0 | NR |
| 425 | 68 | NR | 555 | 633 | NR | 685 | 145 | NR | 815 | 3 | NR | 945 | 0 | NR |
| 430 | 111 | NR | 560 | 700 | NR | 690 | 123 | NR | 820 | 2 | NR | 950 | 0 | NR |
| 435 | 175 | NR | 565 | 766 | NR | 695 | 105 | NR | 825 | 2 | NR | 955 | 0 | NR |
| 440 | 269 | NR | 570 | 832 | NR | 700 | 89 | NR | 830 | 2 | NR | 960 | 0 | NR |
| 445 | 434 | NR | 575 | 893 | NR | 705 | 76 | NR | 835 | 2 | NR | 965 | 0 | NR |
| 450 | 579 | NR | 580 | 945 | NR | 710 | 64 | NR | 840 | 1 | NR | 970 | 0 | NR |
| 455 | 468 | NR | 585 | 979 | NR | 715 | 55 | NR | 845 | 1 | NR | 975 | 0 | NR |
| 460 | 320 | NR | 590 | 996 | NR | 720 | 47 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 264 | NR | 595 | 998 | NR | 725 | 40 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 204 | NR | 600 | 981 | NR | 730 | 33 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 164 | NR | 605 | 949 | NR | 735 | 28 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 166 | NR | 610 | 903 | NR | 740 | 24 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 183 | NR | 615 | 847 | NR | 745 | 21 | NR | 875 | 1 | NR | | | |

REPORT NUMBER: SP1-2501-332-4

## Melanopic Flux vs. Wavelength




**Melanopic Lumens: NR** **M/P: 2.47**

| 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 | 207 | NR | 620 | 786 | NR | 750 | 18 | NR | 880 | 0 | NR |
| 365 | 0 | NR | 495 | 241 | NR | 625 | 718 | NR | 755 | 15 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 277 | NR | 630 | 654 | NR | 760 | 13 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 309 | NR | 635 | 588 | NR | 765 | 11 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 333 | NR | 640 | 523 | NR | 770 | 10 | NR | 900 | 0 | NR |
| 385 | 0 | NR | 515 | 356 | NR | 645 | 465 | NR | 775 | 8 | NR | 905 | 0 | NR |
| 390 | 0 | NR | 520 | 376 | NR | 650 | 407 | NR | 780 | 7 | NR | 910 | 0 | NR |
| 395 | 2 | NR | 525 | 398 | NR | 655 | 356 | NR | 785 | 6 | NR | 915 | 0 | NR |
| 400 | 4 | NR | 530 | 422 | NR | 660 | 308 | NR | 790 | 5 | NR | 920 | 0 | NR |
| 405 | 6 | NR | 535 | 450 | NR | 665 | 267 | NR | 795 | 5 | NR | 925 | 0 | NR |
| 410 | 12 | NR | 540 | 486 | NR | 670 | 229 | NR | 800 | 4 | NR | 930 | 0 | NR |
| 415 | 22 | NR | 545 | 530 | NR | 675 | 197 | NR | 805 | 3 | NR | 935 | 0 | NR |
| 420 | 39 | NR | 550 | 577 | NR | 680 | 169 | NR | 810 | 3 | NR | 940 | 0 | NR |
| 425 | 68 | NR | 555 | 633 | NR | 685 | 145 | NR | 815 | 3 | NR | 945 | 0 | NR |
| 430 | 111 | NR | 560 | 700 | NR | 690 | 123 | NR | 820 | 2 | NR | 950 | 0 | NR |
| 435 | 175 | NR | 565 | 766 | NR | 695 | 105 | NR | 825 | 2 | NR | 955 | 0 | NR |
| 440 | 269 | NR | 570 | 832 | NR | 700 | 89 | NR | 830 | 2 | NR | 960 | 0 | NR |
| 445 | 434 | NR | 575 | 893 | NR | 705 | 76 | NR | 835 | 2 | NR | 965 | 0 | NR |
| 450 | 579 | NR | 580 | 945 | NR | 710 | 64 | NR | 840 | 1 | NR | 970 | 0 | NR |
| 455 | 468 | NR | 585 | 979 | NR | 715 | 55 | NR | 845 | 1 | NR | 975 | 0 | NR |
| 460 | 320 | NR | 590 | 996 | NR | 720 | 47 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 264 | NR | 595 | 998 | NR | 725 | 40 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 204 | NR | 600 | 981 | NR | 730 | 33 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 164 | NR | 605 | 949 | NR | 735 | 28 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 166 | NR | 610 | 903 | NR | 740 | 24 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 183 | NR | 615 | 847 | NR | 745 | 21 | NR | 875 | 1 | NR | | | |

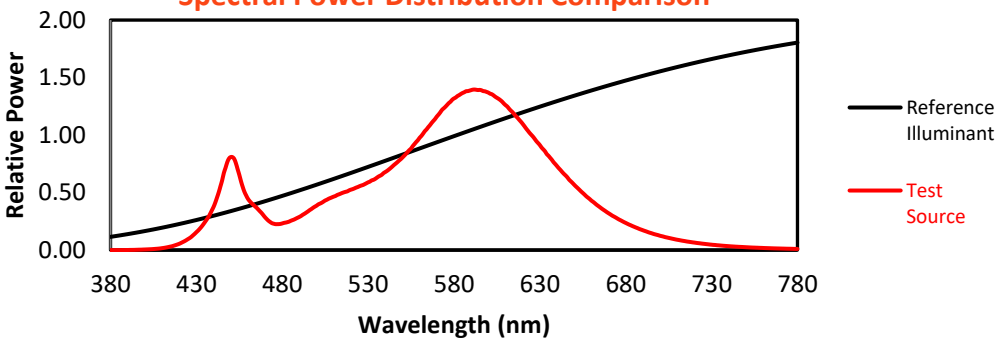
REPORT NUMBER: SP1-2501-332-4

# TM-30-18

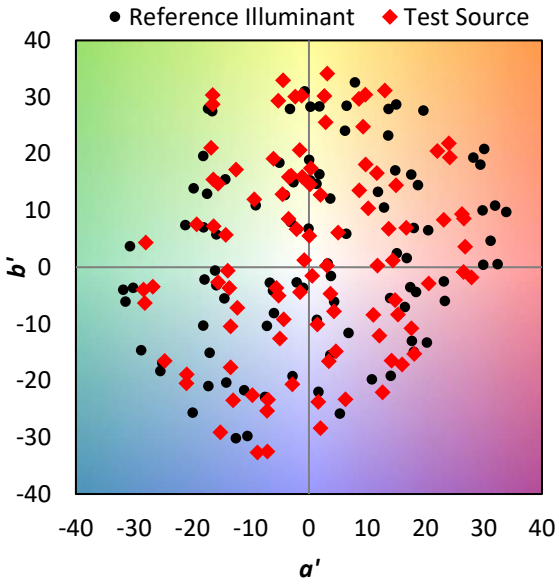
## Summary

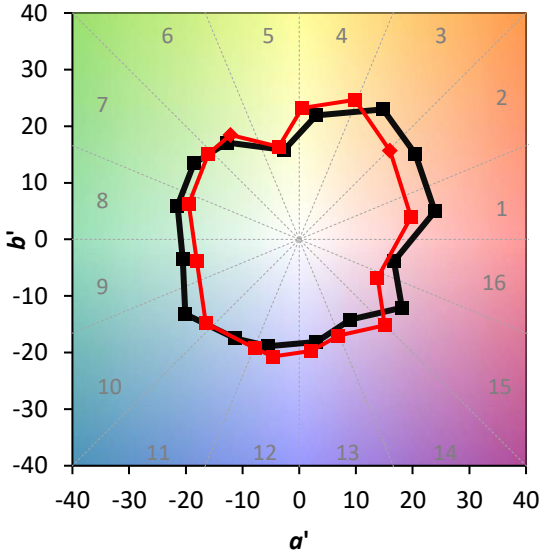
$R_f$ = 76.8
$R_g$ = 92.2
CIE $R_a$ = 71.7
$R_9$ = -40.3

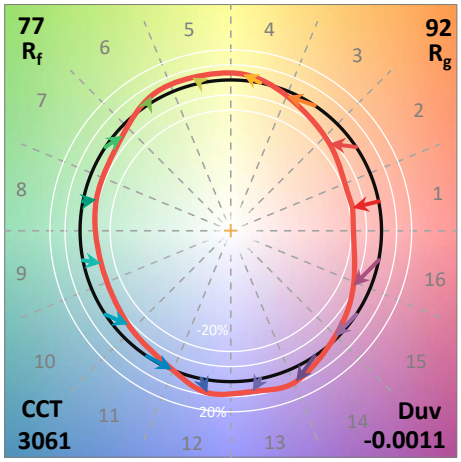
## Spectral Power Distribution Comparison

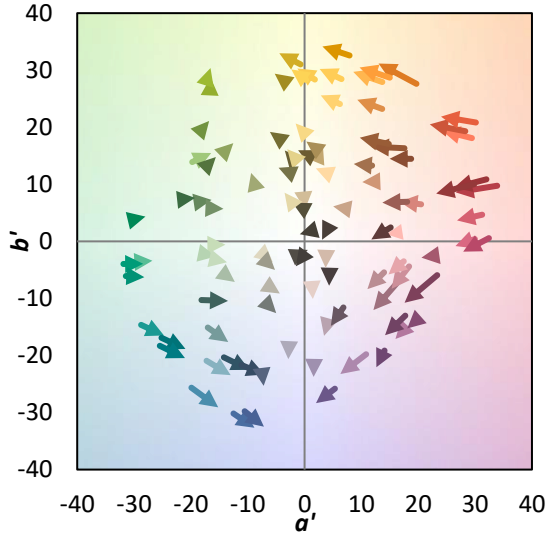



## Color Vector Graphics



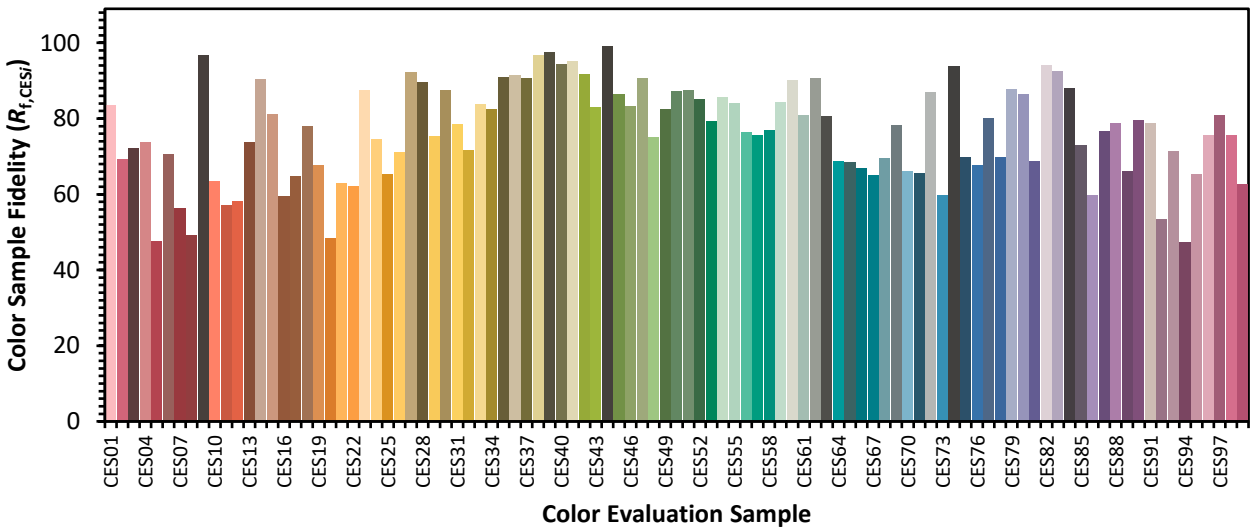



REPORT NUMBER: SP1-2501-332-4

## TM-30-18

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

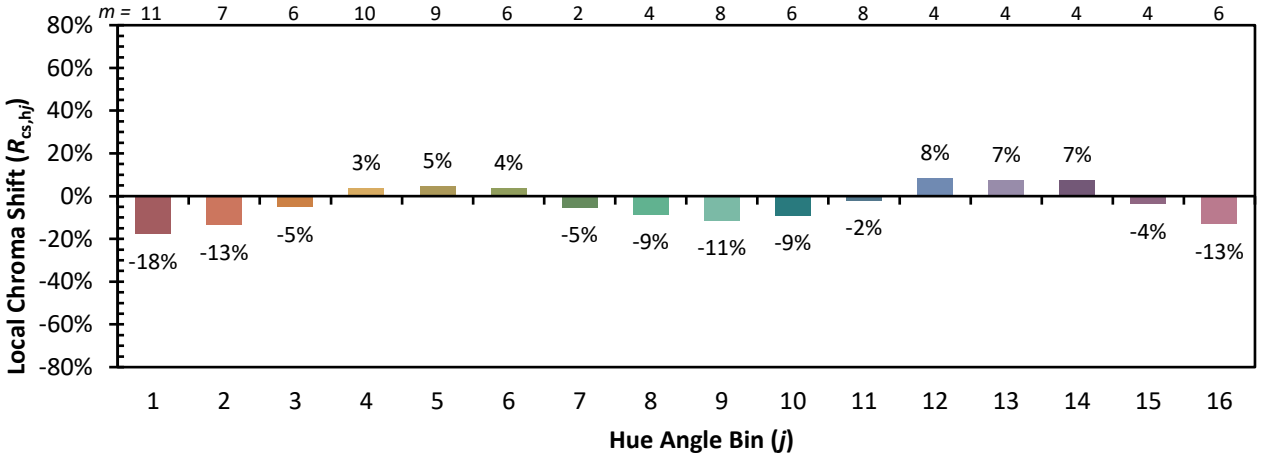
| | | | |
|---|---|---|---|
| CES01 = 86 | CES26 = 71 | CES51 = 88 | CES76 = 68 |
| CES02 = 62 | CES27 = 92 | CES52 = 85 | CES77 = 80 |
| CES03 = 31 | CES28 = 90 | CES53 = 79 | CES78 = 70 |
| CES04 = 71 | CES29 = 75 | CES54 = 86 | CES79 = 88 |
| CES05 = 49 | CES30 = 87 | CES55 = 84 | CES80 = 87 |
| CES06 = 51 | CES31 = 79 | CES56 = 76 | CES81 = 69 |
| CES07 = 41 | CES32 = 72 | CES57 = 76 | CES82 = 94 |
| CES08 = 40 | CES33 = 84 | CES58 = 77 | CES83 = 92 |
| CES09 = 29 | CES34 = 83 | CES59 = 84 | CES84 = 88 |
| CES10 = 76 | CES35 = 91 | CES60 = 90 | CES85 = 73 |
| CES11 = 59 | CES36 = 92 | CES61 = 81 | CES86 = 60 |
| CES12 = 65 | CES37 = 91 | CES62 = 91 | CES87 = 77 |
| CES13 = 43 | CES38 = 97 | CES63 = 81 | CES88 = 79 |
| CES14 = 74 | CES39 = 98 | CES64 = 69 | CES89 = 66 |
| CES15 = 71 | CES40 = 94 | CES65 = 69 | CES90 = 80 |
| CES16 = 47 | CES41 = 95 | CES66 = 67 | CES91 = 79 |
| CES17 = 50 | CES42 = 92 | CES67 = 65 | CES92 = 53 |
| CES18 = 56 | CES43 = 83 | CES68 = 70 | CES93 = 71 |
| CES19 = 73 | CES44 = 99 | CES69 = 78 | CES94 = 47 |
| CES20 = 66 | CES45 = 87 | CES70 = 66 | CES95 = 65 |
| CES21 = 87 | CES46 = 83 | CES71 = 66 | CES96 = 76 |
| CES22 = 79 | CES47 = 91 | CES72 = 87 | CES97 = 81 |
| CES23 = 92 | CES48 = 75 | CES73 = 60 | CES98 = 76 |
| CES24 = 91 | CES49 = 83 | CES74 = 94 | CES99 = 63 |
| CES25 = 73 | CES50 = 87 | CES75 = 70 | |

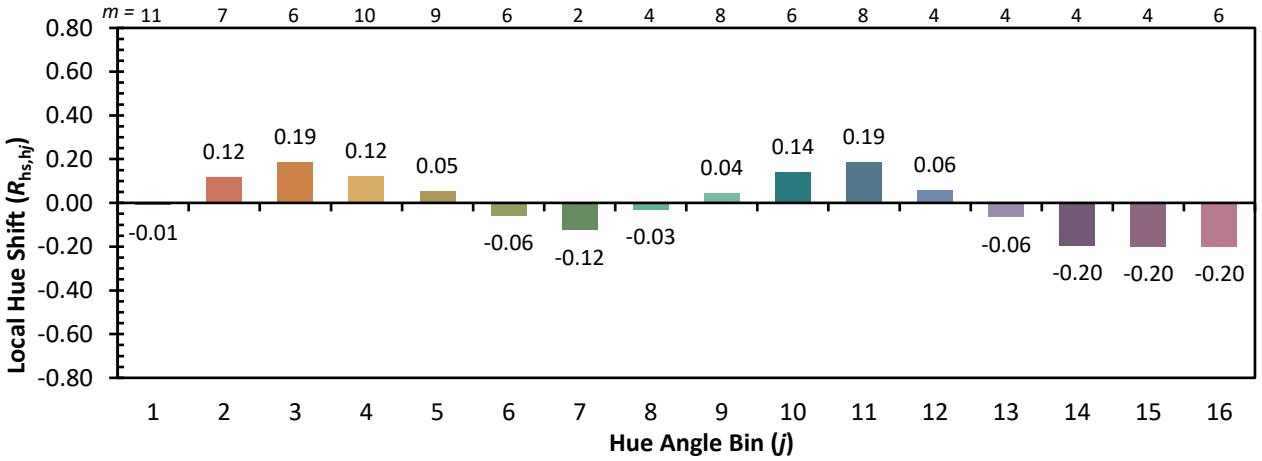


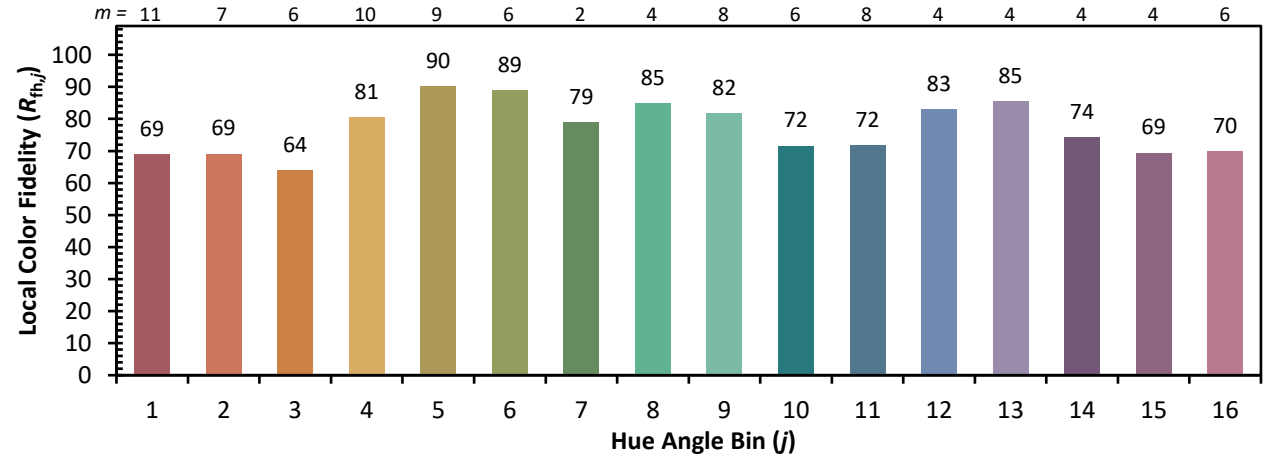
REPORT NUMBER: SP1-2501-332-4

# TM-30-18

## Color Rendition by Hue-Angle Bin



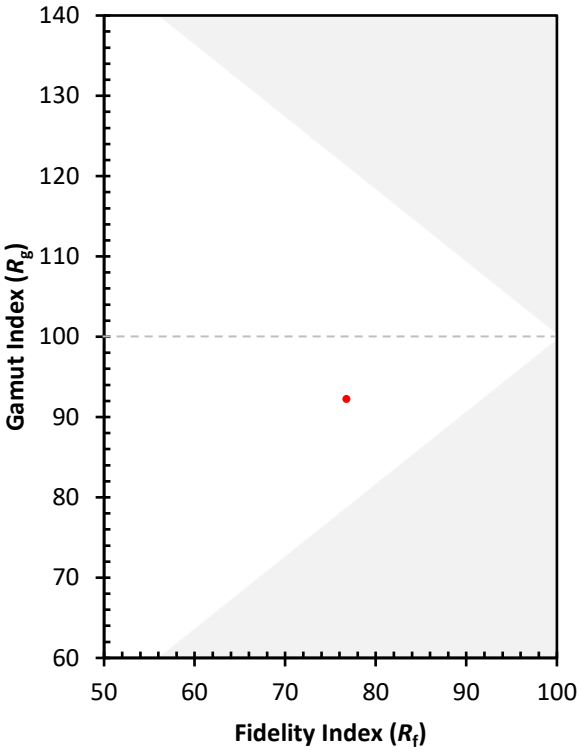



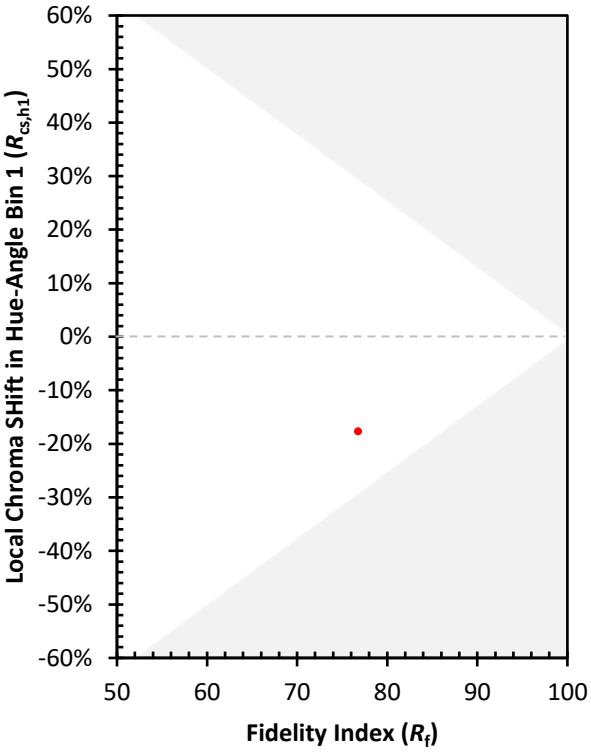



REPORT NUMBER: SP1-2501-332-4

# TM-30-18

## Measure Comparisons




(END OF REPORT)