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

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Scaled data based on original data using

LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: LUMARK

Report Number: P1460441

Luminaire Tested: PRV-PC1A-740-U-5WQ

Issue Date: 06/10/2026

**Test Information**

| | |
|---|---|
| Test Method: | LM-79-2024 |
| Report Number: | P1460441 |
| Test Lab: | INNOVATION CENTER(G3) |
| Issue Date: | 6/10/2026 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS |
| Product Line: | LUMARK |
| Catalog Number: | PRV-PC1A-740-U-5WQ |
| Description: | PREVAIL DISCRETE LED 1 SQUARE AT 425MA 70CRI 4000K FIXTURE w/ TYPE V SQUARE WIDE DISTRIBUTION OPTIC |
| Light Source: | (40) 4000K CCT, 70 CRI LEDS |
| Ballast/Driver: | ELECTRONIC DRIVER |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 8798.1 lumens |
| Efficiency: | N/A |
| Efficacy: | 169.2 lumens/watt |
| Luminous Opening: | Rectangular (W 0.67' x L: 0.67' x H: 0') |
| IES Classification: | Type V - Short |
| BUG Rating: | B3 - U0 - G2 |
| Input Watts (W): | 52 |
| Input Voltage (V): | 120 |
| Input Current (Ain): | NR |
| Voltage Rise (V): | NR |
| Power Factor: | 0.98 |
| Total Harmonic Distortion (THDi): | 3.35% |
| Frequency (hertz): | 60 |
| Stabilization Time: | NR |
| Operation Time: | NR |
| Ambient Temperature (°C): | NR |
| Test Distance: | 28.75 FT |

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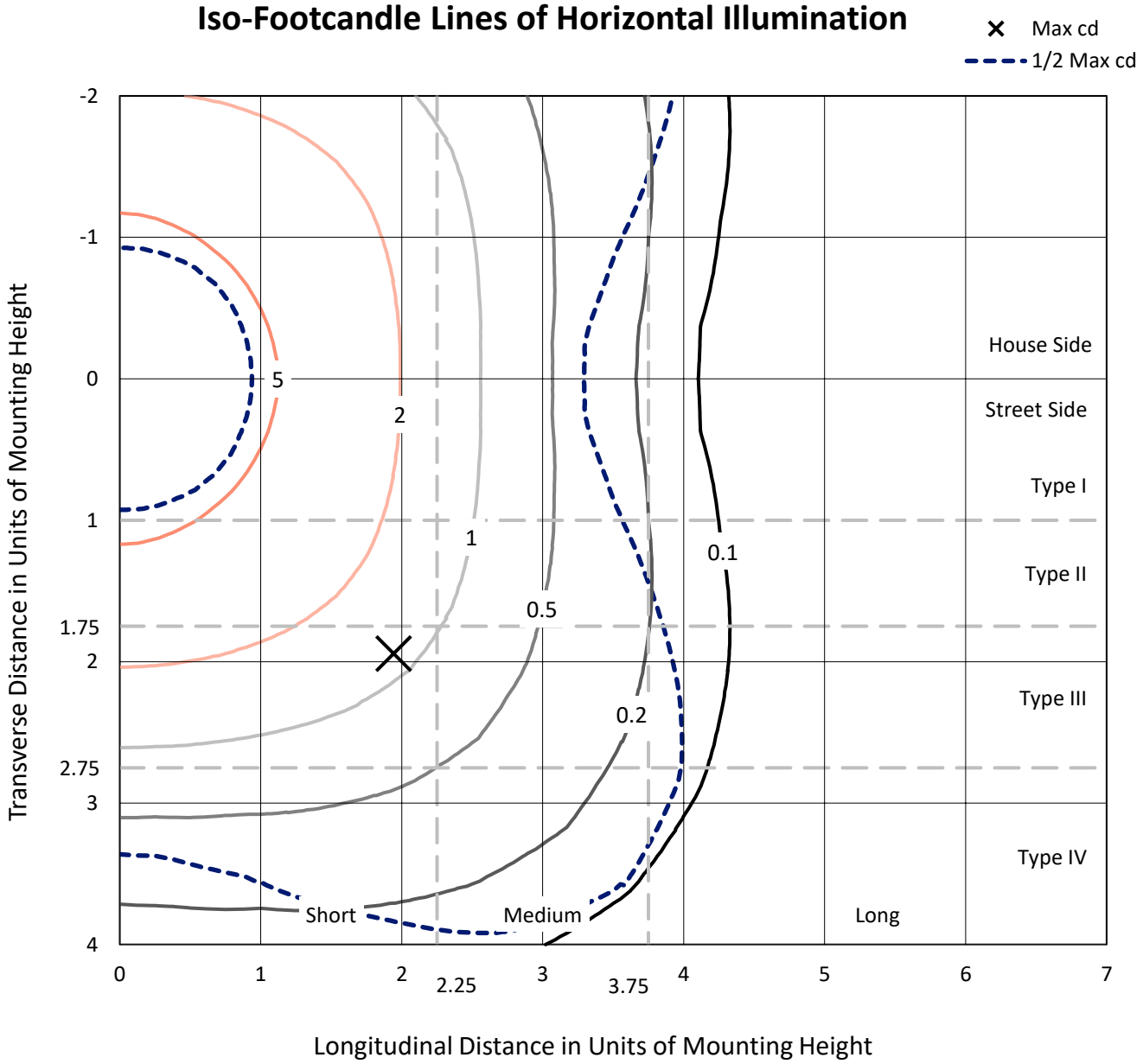
Scaled Data Report

REPORT NUMBER: P1460441
CATALOG NUMBER: PRV-PC1A-740-U-5WQ

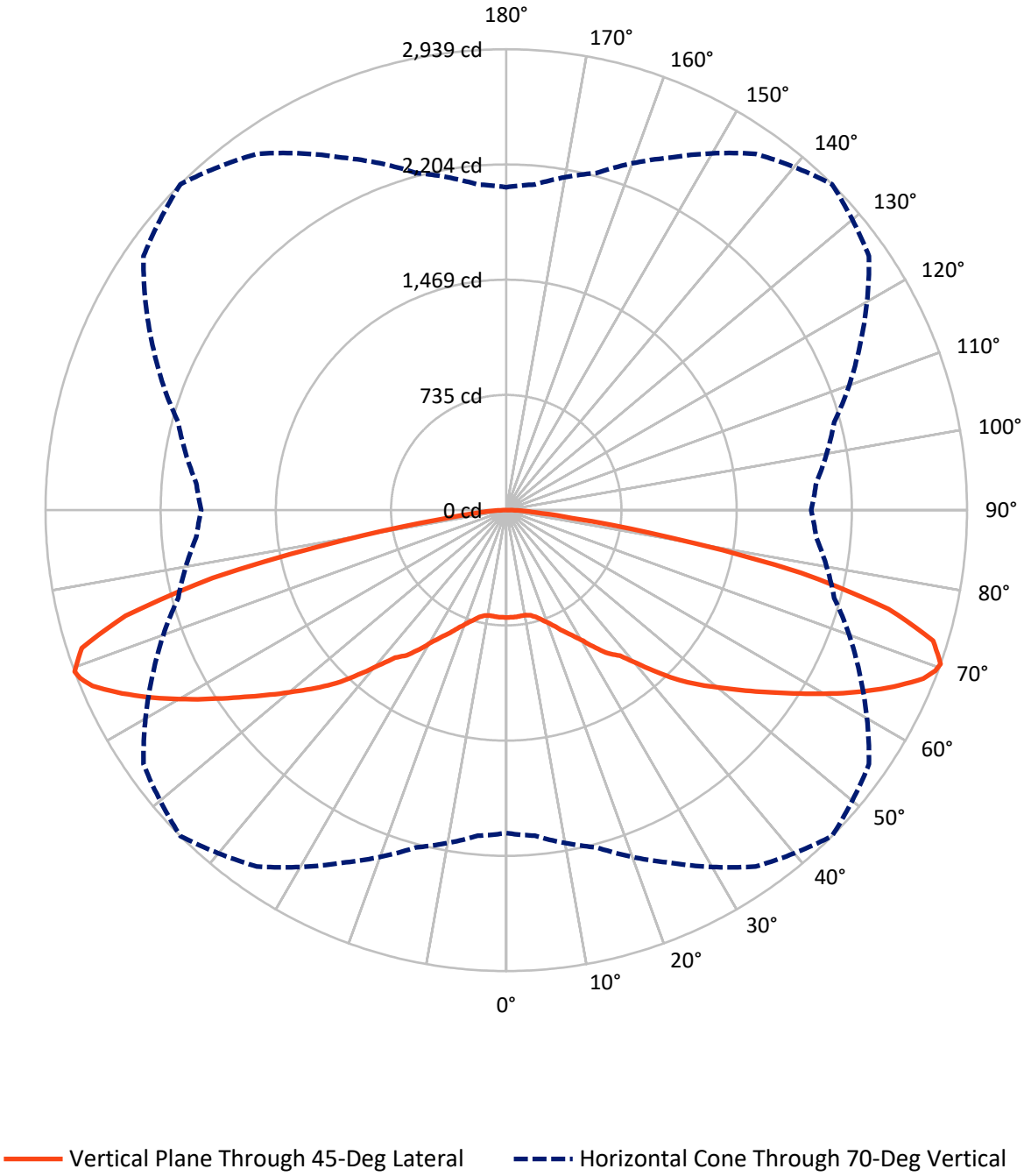
## Iso-Footcandle Lines of Horizontal Illumination




Based on 10 foot mounting height. Maximum calculated value = 6.8 fc
Type V - Short - N/A

REPORT NUMBER: P1460441
CATALOG NUMBER: PRV-PC1A-740-U-5WQ

## Luminous Intensity Polar Plot



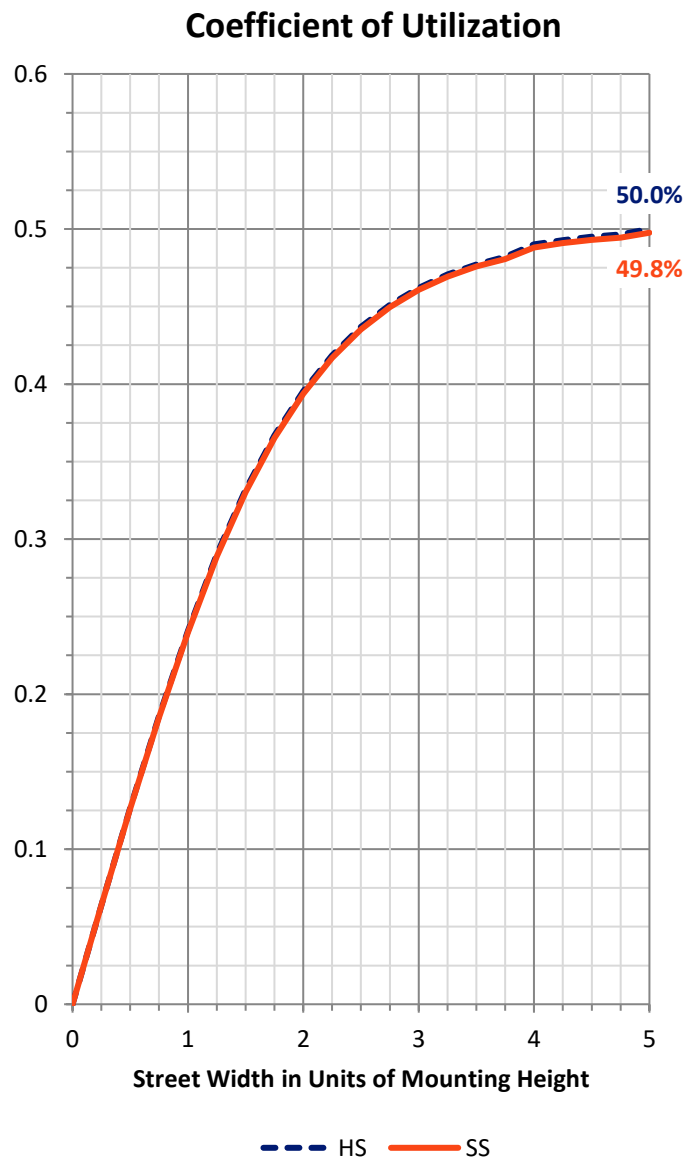
REPORT NUMBER: P1460441
CATALOG NUMBER: PRV-PC1A-740-U-5WQ

**FLUX DISTRIBUTION:**

| | | Downward | Upward | Total |
|---|---|---|---|---|
| **House Side** | Lumens | 4399.0 | 0.0 | 4399.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| **Street Side** | Lumens | 4399.0 | 0.0 | 4399.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| **Total** | Lumens | 8798.1 | 0.0 | 8798.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 64.8 | 0.7 |
| 10°-20° | 202.5 | 2.3 |
| 20°-30° | 394.5 | 4.5 |
| 30°-40° | 699.6 | 8.0 |
| 40°-50° | 1207.1 | 13.7 |
| 50°-60° | 1822.8 | 20.7 |
| 60°-70° | 2427.0 | 27.6 |
| 70°-80° | 1760.4 | 20.0 |
| 80°-90° | 219.3 | 2.5 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-90° | 8798.1 | 100.0 |
| 0°-180° | 8798.1 | 100.0 |

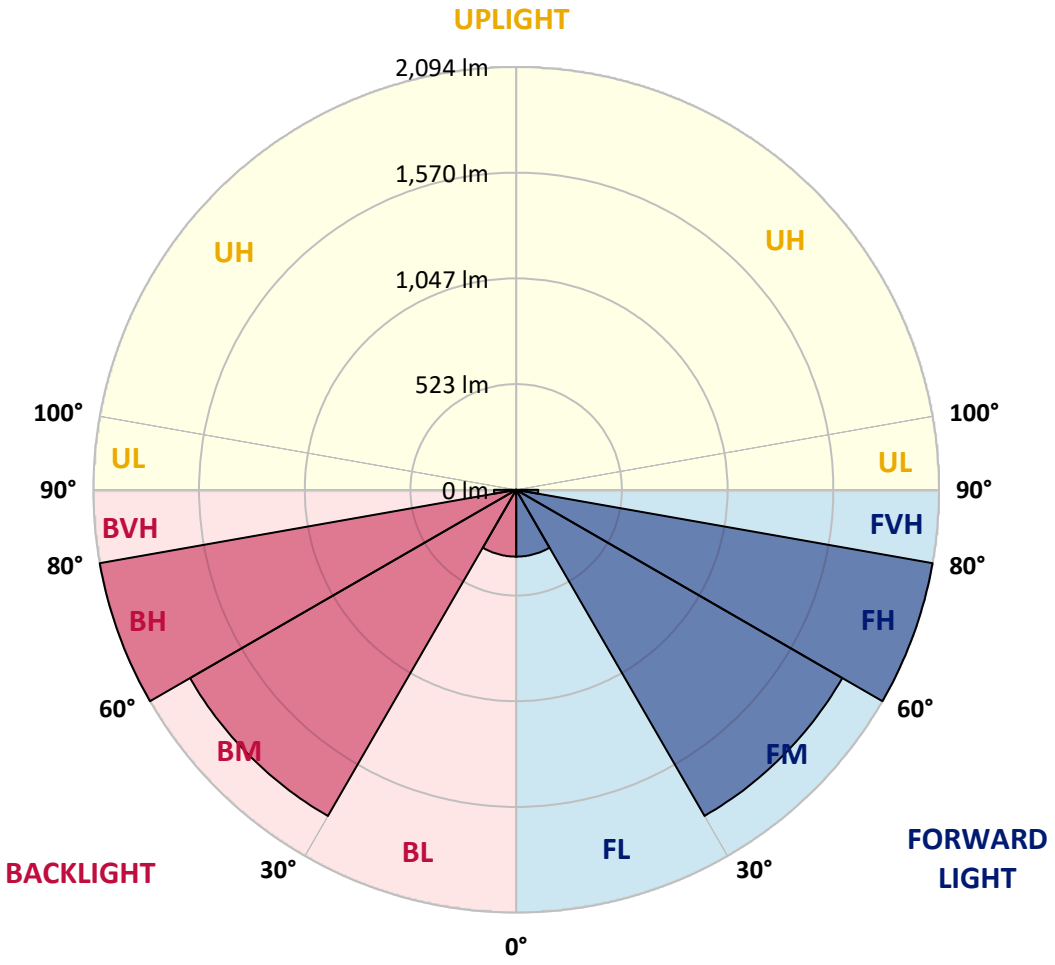


REPORT NUMBER: P1460441
CATALOG NUMBER: PRV-PC1A-740-U-5WQ

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit B | U | G |
|---|---|---|---|---|---|---|
| FL | (0°-30°) | 330.9 | 3.8 | | | |
| FM | (30°-60°) | 1864.8 | 21.2 | | | |
| FH | (60°-80°) | 2093.7 | 23.8 | | | G2/5000 |
| FVH | (80°-90°) | 109.7 | 1.2 | | | G2/225 |
| BL | (0°-30°) | 330.9 | 3.8 | B1/500 | | |
| BM | (30°-60°) | 1864.8 | 21.2 | B2/2500 | | |
| BH | (60°-80°) | 2093.7 | 23.8 | B3/2500 | | G2/5000 |
| BVH | (80°-90°) | 109.7 | 1.2 | | | G2/225 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

**BUG Rating: B3-U0-G2**
Type V Short



REPORT NUMBER: P1460441
CATALOG NUMBER: PRV-PC1A-740-U-5WQ

**CANDELA DISTRIBUTION (FULL):**

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 684.0 | 684.0 | 684.0 | 684.0 | 684.0 | *684.0* | 684.0 | 684.0 | 684.0 | 684.0 | 684.0 |
| 2.5° | 684.4 | 684.4 | 684.4 | 684.4 | 684.0 | *683.6* | 683.2 | 683.2 | 683.2 | 682.8 | 682.8 |
| 5° | 686.0 | 685.6 | 685.6 | 685.2 | 685.2 | *683.6* | 682.0 | 680.8 | 679.6 | 678.4 | 678.8 |
| 7.5° | 679.6 | 680.4 | 680.0 | 680.8 | 681.6 | *680.8* | 677.6 | 674.0 | 670.8 | 668.0 | 668.0 |
| 10° | 680.4 | 680.0 | 679.6 | 680.0 | 680.8 | *680.4* | 677.2 | 672.4 | 668.0 | 664.8 | 664.4 |
| 12.5° | 691.6 | 691.6 | 689.6 | 688.0 | 688.8 | *688.0* | 685.6 | 680.0 | 676.4 | 673.2 | 673.6 |
| 15° | 713.6 | 712.8 | 710.0 | 707.6 | 706.4 | *706.0* | 704.4 | 700.4 | 696.0 | 692.4 | 693.6 |
| 17.5° | 740.3 | 740.3 | 734.7 | 733.5 | 732.3 | *735.5* | 731.9 | 726.3 | 722.7 | 720.7 | 720.7 |
| 20° | 772.6 | 773.4 | 768.7 | 766.3 | 766.7 | *767.1* | 765.5 | 759.5 | 755.1 | 753.1 | 753.9 |
| 22.5° | 809.0 | 807.4 | 806.2 | 805.0 | 807.4 | *807.8* | 804.6 | 797.4 | 794.6 | 790.6 | 791.8 |
| 25° | 840.9 | 840.9 | 841.3 | 847.7 | 851.7 | *857.7* | 852.9 | 841.7 | 831.3 | 827.4 | 827.0 |
| 27.5° | 875.7 | 874.9 | 879.7 | 888.8 | 901.6 | *907.2* | 901.2 | 887.2 | 875.3 | 869.3 | 866.5 |
| 30° | 932.8 | 932.4 | 933.2 | 944.7 | 958.7 | *967.1* | 960.3 | 948.7 | 938.0 | 932.4 | 934.8 |
| 32.5° | 1017.4 | 1012.6 | 1019.8 | 1031.8 | 1043.0 | *1046.6* | 1047.4 | 1034.2 | 1020.6 | 1015.8 | 1017.8 |
| 35° | 1064.9 | 1063.7 | 1071.7 | 1086.1 | 1106.1 | *1122.4* | 1109.7 | 1098.1 | 1091.7 | 1084.9 | 1083.3 |
| 37.5° | 1173.1 | 1172.7 | 1179.1 | 1177.9 | 1181.1 | *1177.5* | 1183.5 | 1188.3 | 1194.3 | 1189.1 | 1190.3 |
| 40° | 1304.5 | 1301.3 | 1300.1 | 1297.7 | 1288.9 | *1283.4* | 1294.5 | 1302.9 | 1310.1 | 1320.1 | 1315.3 |
| 42.5° | 1442.3 | 1437.1 | 1433.1 | 1425.9 | 1416.7 | *1412.7* | 1414.3 | 1429.5 | 1435.9 | 1437.1 | 1437.5 |
| 45° | 1599.2 | 1589.6 | 1572.8 | 1560.1 | 1547.3 | *1546.1* | 1545.3 | 1548.5 | 1548.9 | 1548.9 | 1555.3 |
| 47.5° | 1737.0 | 1735.8 | 1711.8 | 1689.8 | 1664.3 | *1664.3* | 1655.5 | 1654.3 | 1659.5 | 1666.3 | 1662.7 |
| 50° | 1854.0 | 1850.0 | 1828.8 | 1810.0 | 1796.5 | *1780.1* | 1767.3 | 1757.3 | 1764.5 | 1770.5 | 1773.7 |
| 52.5° | 1948.6 | 1948.2 | 1933.8 | 1926.6 | 1921.4 | *1911.5* | 1881.9 | 1863.9 | 1865.5 | 1872.7 | 1870.7 |
| 55° | 2032.0 | 2037.6 | 2038.4 | 2047.6 | 2057.2 | *2050.0* | 2021.7 | 1994.5 | 1980.5 | 1970.2 | 1969.8 |
| 57.5° | 2127.5 | 2131.1 | 2142.3 | 2171.8 | 2199.4 | *2205.7* | 2177.0 | 2136.7 | 2097.9 | 2072.4 | 2062.8 |
| 60° | 2226.9 | 2227.7 | 2256.9 | 2303.6 | 2353.9 | *2375.0* | 2349.5 | 2283.2 | 2212.9 | 2157.4 | 2147.4 |
| 62.5° | 2316.3 | 2314.4 | 2358.3 | 2429.0 | 2513.6 | *2547.9* | 2514.0 | 2417.0 | 2295.6 | 2218.1 | 2204.9 |
| 65° | 2355.1 | 2360.3 | 2418.2 | 2526.8 | 2646.6 | *2713.7* | 2669.7 | 2508.4 | 2331.9 | 2227.3 | 2211.3 |
| 67.5° | 2284.8 | 2299.6 | 2392.2 | 2562.7 | 2750.4 | *2868.2* | 2791.1 | 2545.9 | 2301.6 | 2165.8 | 2144.6 |
| 69° | 2184.2 | 2187.8 | 2308.0 | 2531.2 | 2778.3 | *2922.1* | 2824.7 | 2526.4 | 2240.5 | 2068.0 | 2045.6 |
| 70° | *2058.8* | *2084.0* | *2226.1* | *2480.5* | *2773.5* | *2938.9* | *2824.3* | *2489.2* | *2166.2* | *1984.5* | *1945.0* |
| 72.5° | 1671.5 | 1680.7 | 1882.7 | 2272.0 | 2656.2 | *2847.4* | 2689.3 | 2284.0 | 1881.5 | 1611.2 | 1600.8 |
| 75° | 1119.6 | 1164.0 | 1407.1 | 1877.5 | 2319.9 | *2519.6* | 2321.9 | 1875.1 | 1410.7 | 1073.3 | 1026.2 |
| 77.5° | 580.6 | 605.7 | 821.8 | 1223.5 | 1686.6 | *1922.2* | 1731.4 | 1312.1 | 868.9 | 524.7 | 497.9 |
| 80° | 285.5 | 299.1 | 379.7 | 564.2 | 873.7 | *1059.3* | 970.3 | 689.6 | 406.9 | 259.9 | 244.4 |
| 82.5° | 160.5 | 165.7 | 210.8 | 262.7 | 364.2 | *424.1* | 396.9 | 336.2 | 204.4 | 154.1 | 149.7 |
| 85° | 83.5 | 87.8 | 131.4 | 162.1 | 181.3 | *183.3* | 182.9 | 180.5 | 129.0 | 94.2 | 89.8 |
| 87.5° | 39.5 | 43.5 | 67.5 | 89.0 | 93.8 | *90.6* | 96.2 | 83.5 | 61.1 | 42.7 | 37.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | *0.0* | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

Cooper Lighting Solutions Photometric Lab
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Peachtree City, GA 30269

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

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP2-2501-321-1

Test Date: 04/09/2025

Luminaire Tested: GKO-PB1E-740-U-T4W

Data in this report applies to families of products including GKO-PB1E-740-U-T4W

Report Generated By FNC07603 / LDUCLS01DT447
Version: v7.04

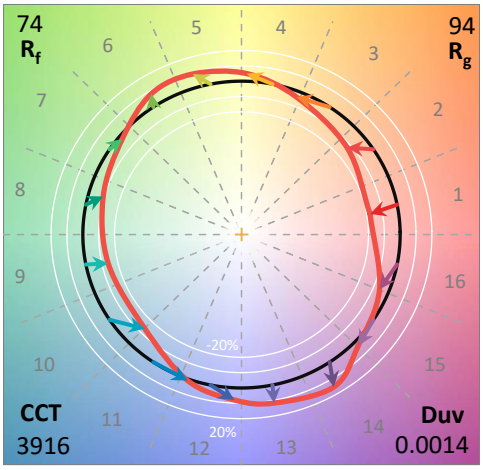
## Test Information

| | |
|---|---|
| Test Method: | LM-79-2019 |
| Report Number: | SP2-2501-321-1 |
| Test Lab: | COOPER LIGHTING SOLUTIONS |
| Photometer: | SP2 - 165CM SPHERE |
| Measurement Geometry: | 4π |
| Issue Date: | 04/10/2025 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS |
| Product Line: | McGraw-Edison |
| Catalog Number: | **GKO-PB1E-740-U-T4W** |
| Description: | Gekko Wedge Wall Pack Fixture 1 SQ w/ T4W distribution |

## Spectral Parameters

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| CCT (K): | 3916 | CRI (Ra): | | 71.0 | | | |
| CIE u': | 0.2259 | R1: | | 67.4 | R9: | | -37.9 |
| CIE v': | 0.5049 | R2: | | 78.3 | R10: | | 48.9 |
| Duv: | 0.0014 | R3: | | 87.2 | R11: | | 64.6 |
| CIE x: | 0.3853 | R4: | | 69.5 | R12: | | 40.9 |
| CIE y: | 0.3827 | R5: | | 67.2 | R13: | | 69.2 |
| CIE z: | 0.2321 | R6: | | 69.3 | R14: | | 92.7 |
| Peak Wavelength (nm): | 449 | R7: | | 79.9 | R15: | | 59.8 |
| Dominant Wavelength (nm): | 578 | R8: | | 48.9 | | | |
| Purity: | 30.46652 | | | | | | |

| | |
|---|---|
| Rf: | 73.5 |
| Rg: | 93.5 |



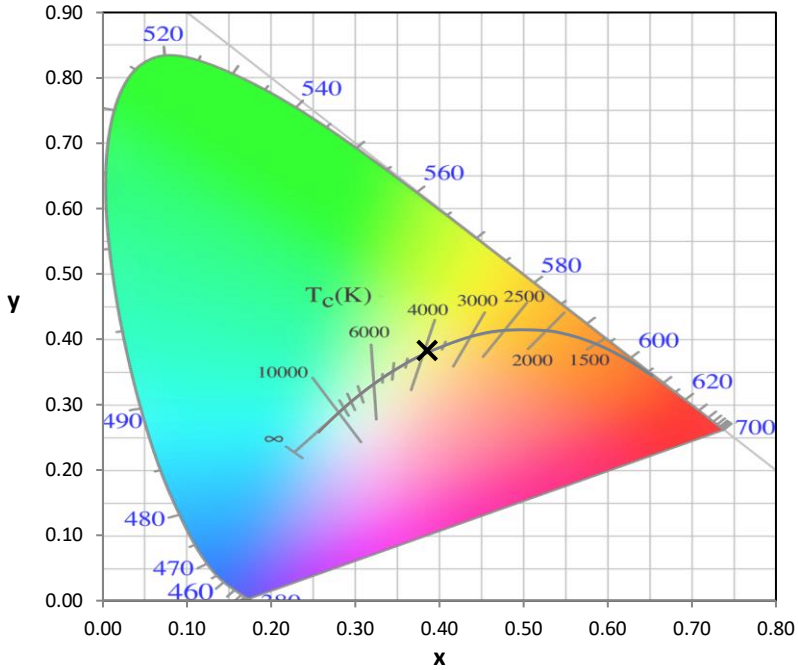

## Test Conditions

| | |
|---|---|
| Stabilization Time: | 33M |
| Operation Time: | 1H 33M |
| Sphere Temperature (°C): | 25.0 |

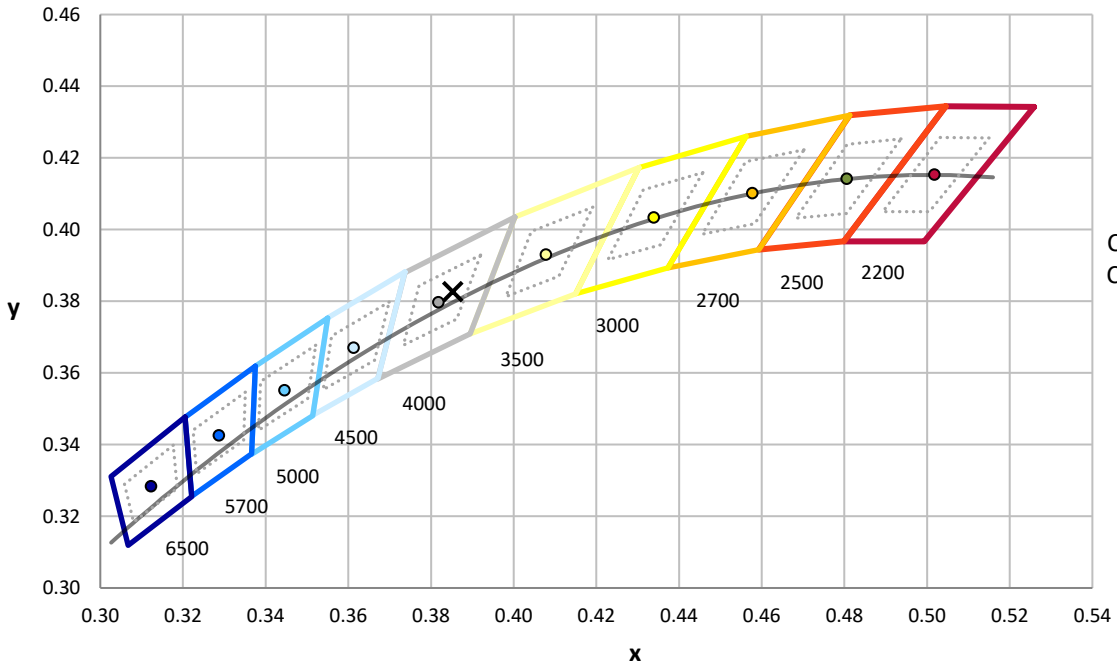
| Measurement and Test Equipment | | | |
|---|---|---|---|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | IN2187 | 1/6/2025 | 7/6/2025 |
| Power Meter | INXT2011002 | 1/21/2025 | 1/21/2026 |
| AC Power Source | IN0458 | 10/22/2024 | 10/22/2025 |
| DC Power Source | IN0212 | 10/22/2024 | 10/22/2025 |
| Sphere Thermometer | IN4036B | 10/22/2024 | 10/22/2025 |
| Room Thermometer | IN0046 | 10/22/2024 | 10/22/2025 |

REPORT NUMBER: SP2-2501-321-1

**CIE 1931 Chromaticity Diagram**




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

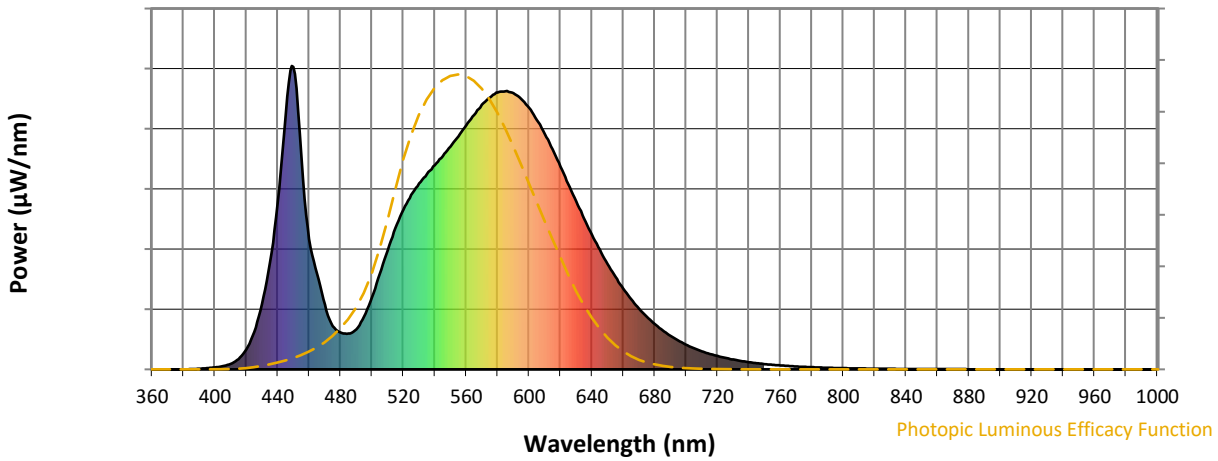



CCT = 3916K
CIE x = 0.3853
CIE y = 0.3827
Duv = 0.0014

Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP2-2501-321-1

## Photopic Flux vs. Wavelength

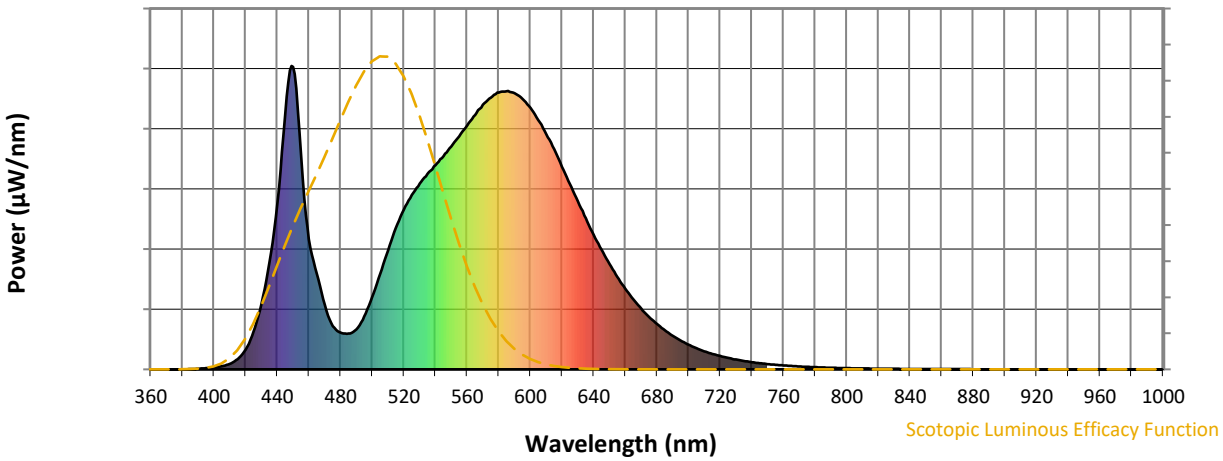



## Photopic Lumens: NR

| 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 | 132 | NR | 620 | 668 | NR | 750 | 17 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 174 | NR | 625 | 611 | NR | 755 | 15 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 238 | NR | 630 | 554 | NR | 760 | 13 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 314 | NR | 635 | 498 | NR | 765 | 11 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 392 | NR | 640 | 445 | NR | 770 | 10 | NR | 900 | 0 | NR |
| 385 | 1 | NR | 515 | 467 | NR | 645 | 394 | NR | 775 | 8 | NR | 905 | 0 | NR |
| 390 | 2 | NR | 520 | 526 | NR | 650 | 347 | NR | 780 | 7 | NR | 910 | 0 | NR |
| 395 | 4 | NR | 525 | 575 | NR | 655 | 305 | NR | 785 | 6 | NR | 915 | 0 | NR |
| 400 | 6 | NR | 530 | 613 | NR | 660 | 266 | NR | 790 | 5 | NR | 920 | 0 | NR |
| 405 | 10 | NR | 535 | 644 | NR | 665 | 231 | NR | 795 | 5 | NR | 925 | 0 | NR |
| 410 | 18 | NR | 540 | 673 | NR | 670 | 200 | NR | 800 | 4 | NR | 930 | 0 | NR |
| 415 | 34 | NR | 545 | 703 | NR | 675 | 174 | NR | 805 | 4 | NR | 935 | 0 | NR |
| 420 | 66 | NR | 550 | 734 | NR | 680 | 150 | NR | 810 | 3 | NR | 940 | 0 | NR |
| 425 | 124 | NR | 555 | 768 | NR | 685 | 129 | NR | 815 | 3 | NR | 945 | 0 | NR |
| 430 | 216 | NR | 560 | 804 | NR | 690 | 111 | NR | 820 | 2 | NR | 950 | 0 | NR |
| 435 | 352 | NR | 565 | 838 | NR | 695 | 95 | NR | 825 | 2 | NR | 955 | 0 | NR |
| 440 | 548 | NR | 570 | 872 | NR | 700 | 81 | NR | 830 | 2 | NR | 960 | 0 | NR |
| 445 | 836 | NR | 575 | 896 | NR | 705 | 69 | NR | 835 | 2 | NR | 965 | 0 | NR |
| 450 | 997 | NR | 580 | 913 | NR | 710 | 60 | NR | 840 | 1 | NR | 970 | 0 | NR |
| 455 | 705 | NR | 585 | 917 | NR | 715 | 51 | NR | 845 | 1 | NR | 975 | 0 | NR |
| 460 | 429 | NR | 590 | 911 | NR | 720 | 44 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 316 | NR | 595 | 891 | NR | 725 | 38 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 213 | NR | 600 | 862 | NR | 730 | 32 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 143 | NR | 605 | 822 | NR | 735 | 28 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 121 | NR | 610 | 776 | NR | 740 | 24 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 118 | NR | 615 | 725 | NR | 745 | 20 | NR | 875 | 1 | NR | | | |

REPORT NUMBER: SP2-2501-321-1

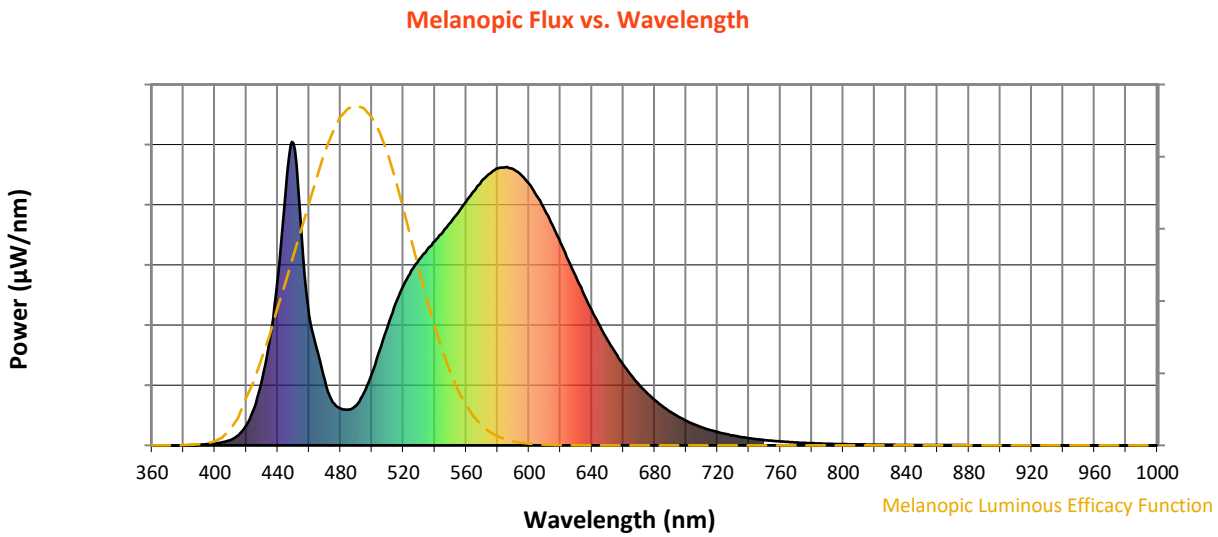
## Scotopic Flux vs. Wavelength




**Scotopic Lumens: NR** **S/P: 1.49**

| 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 | 132 | NR | 620 | 668 | NR | 750 | 17 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 174 | NR | 625 | 611 | NR | 755 | 15 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 238 | NR | 630 | 554 | NR | 760 | 13 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 314 | NR | 635 | 498 | NR | 765 | 11 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 392 | NR | 640 | 445 | NR | 770 | 10 | NR | 900 | 0 | NR |
| 385 | 1 | NR | 515 | 467 | NR | 645 | 394 | NR | 775 | 8 | NR | 905 | 0 | NR |
| 390 | 2 | NR | 520 | 526 | NR | 650 | 347 | NR | 780 | 7 | NR | 910 | 0 | NR |
| 395 | 4 | NR | 525 | 575 | NR | 655 | 305 | NR | 785 | 6 | NR | 915 | 0 | NR |
| 400 | 6 | NR | 530 | 613 | NR | 660 | 266 | NR | 790 | 5 | NR | 920 | 0 | NR |
| 405 | 10 | NR | 535 | 644 | NR | 665 | 231 | NR | 795 | 5 | NR | 925 | 0 | NR |
| 410 | 18 | NR | 540 | 673 | NR | 670 | 200 | NR | 800 | 4 | NR | 930 | 0 | NR |
| 415 | 34 | NR | 545 | 703 | NR | 675 | 174 | NR | 805 | 4 | NR | 935 | 0 | NR |
| 420 | 66 | NR | 550 | 734 | NR | 680 | 150 | NR | 810 | 3 | NR | 940 | 0 | NR |
| 425 | 124 | NR | 555 | 768 | NR | 685 | 129 | NR | 815 | 3 | NR | 945 | 0 | NR |
| 430 | 216 | NR | 560 | 804 | NR | 690 | 111 | NR | 820 | 2 | NR | 950 | 0 | NR |
| 435 | 352 | NR | 565 | 838 | NR | 695 | 95 | NR | 825 | 2 | NR | 955 | 0 | NR |
| 440 | 548 | NR | 570 | 872 | NR | 700 | 81 | NR | 830 | 2 | NR | 960 | 0 | NR |
| 445 | 836 | NR | 575 | 896 | NR | 705 | 69 | NR | 835 | 2 | NR | 965 | 0 | NR |
| 450 | 997 | NR | 580 | 913 | NR | 710 | 60 | NR | 840 | 1 | NR | 970 | 0 | NR |
| 455 | 705 | NR | 585 | 917 | NR | 715 | 51 | NR | 845 | 1 | NR | 975 | 0 | NR |
| 460 | 429 | NR | 590 | 911 | NR | 720 | 44 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 316 | NR | 595 | 891 | NR | 725 | 38 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 213 | NR | 600 | 862 | NR | 730 | 32 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 143 | NR | 605 | 822 | NR | 735 | 28 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 121 | NR | 610 | 776 | NR | 740 | 24 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 118 | NR | 615 | 725 | NR | 745 | 20 | NR | 875 | 1 | NR | | | |

REPORT NUMBER: SP2-2501-321-1




**Melanopic Lumens: NR** **M/P: 2.88**

| 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 | 132 | NR | 620 | 668 | NR | 750 | 17 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 174 | NR | 625 | 611 | NR | 755 | 15 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 238 | NR | 630 | 554 | NR | 760 | 13 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 314 | NR | 635 | 498 | NR | 765 | 11 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 392 | NR | 640 | 445 | NR | 770 | 10 | NR | 900 | 0 | NR |
| 385 | 1 | NR | 515 | 467 | NR | 645 | 394 | NR | 775 | 8 | NR | 905 | 0 | NR |
| 390 | 2 | NR | 520 | 526 | NR | 650 | 347 | NR | 780 | 7 | NR | 910 | 0 | NR |
| 395 | 4 | NR | 525 | 575 | NR | 655 | 305 | NR | 785 | 6 | NR | 915 | 0 | NR |
| 400 | 6 | NR | 530 | 613 | NR | 660 | 266 | NR | 790 | 5 | NR | 920 | 0 | NR |
| 405 | 10 | NR | 535 | 644 | NR | 665 | 231 | NR | 795 | 5 | NR | 925 | 0 | NR |
| 410 | 18 | NR | 540 | 673 | NR | 670 | 200 | NR | 800 | 4 | NR | 930 | 0 | NR |
| 415 | 34 | NR | 545 | 703 | NR | 675 | 174 | NR | 805 | 4 | NR | 935 | 0 | NR |
| 420 | 66 | NR | 550 | 734 | NR | 680 | 150 | NR | 810 | 3 | NR | 940 | 0 | NR |
| 425 | 124 | NR | 555 | 768 | NR | 685 | 129 | NR | 815 | 3 | NR | 945 | 0 | NR |
| 430 | 216 | NR | 560 | 804 | NR | 690 | 111 | NR | 820 | 2 | NR | 950 | 0 | NR |
| 435 | 352 | NR | 565 | 838 | NR | 695 | 95 | NR | 825 | 2 | NR | 955 | 0 | NR |
| 440 | 548 | NR | 570 | 872 | NR | 700 | 81 | NR | 830 | 2 | NR | 960 | 0 | NR |
| 445 | 836 | NR | 575 | 896 | NR | 705 | 69 | NR | 835 | 2 | NR | 965 | 0 | NR |
| 450 | 997 | NR | 580 | 913 | NR | 710 | 60 | NR | 840 | 1 | NR | 970 | 0 | NR |
| 455 | 705 | NR | 585 | 917 | NR | 715 | 51 | NR | 845 | 1 | NR | 975 | 0 | NR |
| 460 | 429 | NR | 590 | 911 | NR | 720 | 44 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 316 | NR | 595 | 891 | NR | 725 | 38 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 213 | NR | 600 | 862 | NR | 730 | 32 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 143 | NR | 605 | 822 | NR | 735 | 28 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 121 | NR | 610 | 776 | NR | 740 | 24 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 118 | NR | 615 | 725 | NR | 745 | 20 | NR | 875 | 1 | NR | | | |

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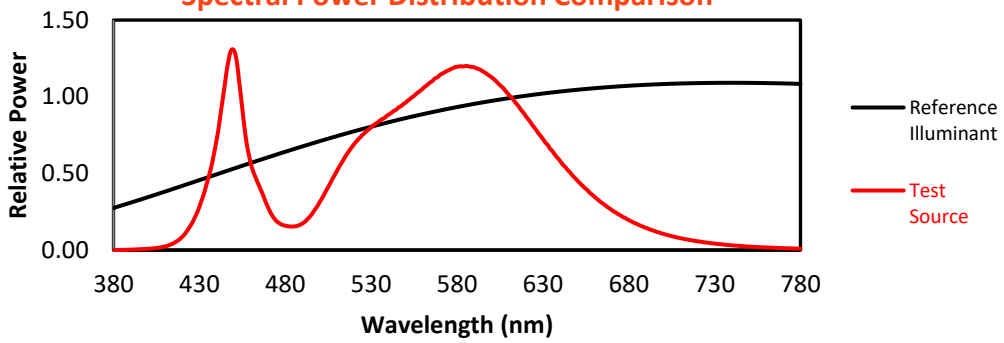
# TM-30-18

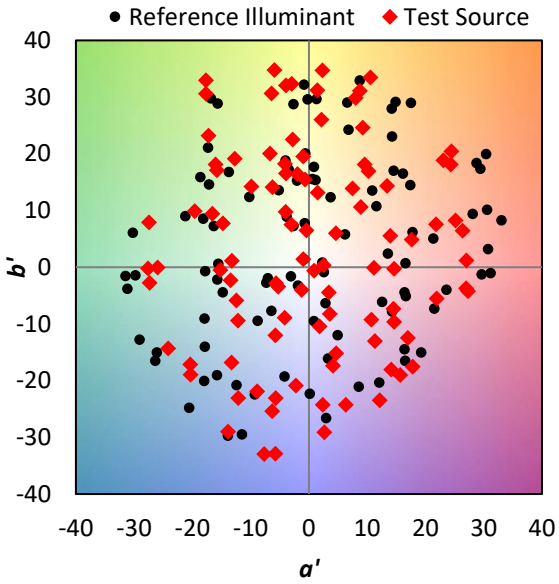
## Summary

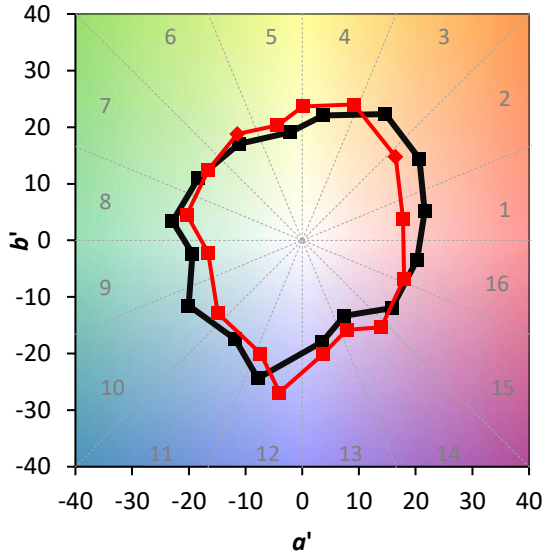
$R_f$ = 73.5
$R_g$ = 93.5
CIE $R_a$ = 71.0
$R_9$ = -37.9

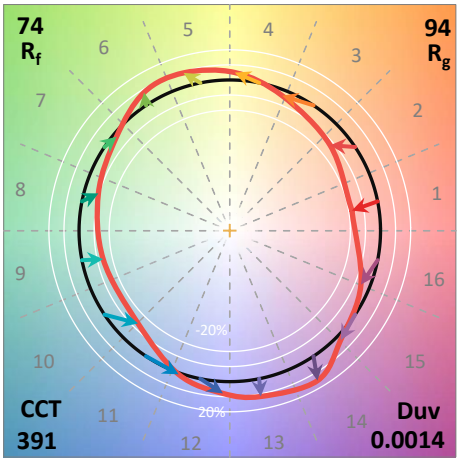
## Spectral Power Distribution Comparison

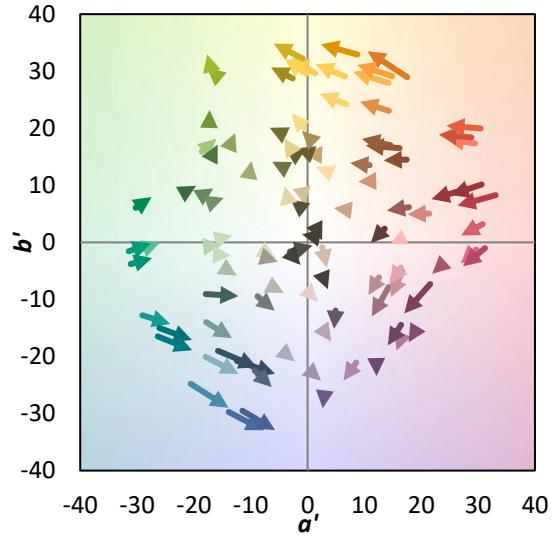



## Color Vector Graphics



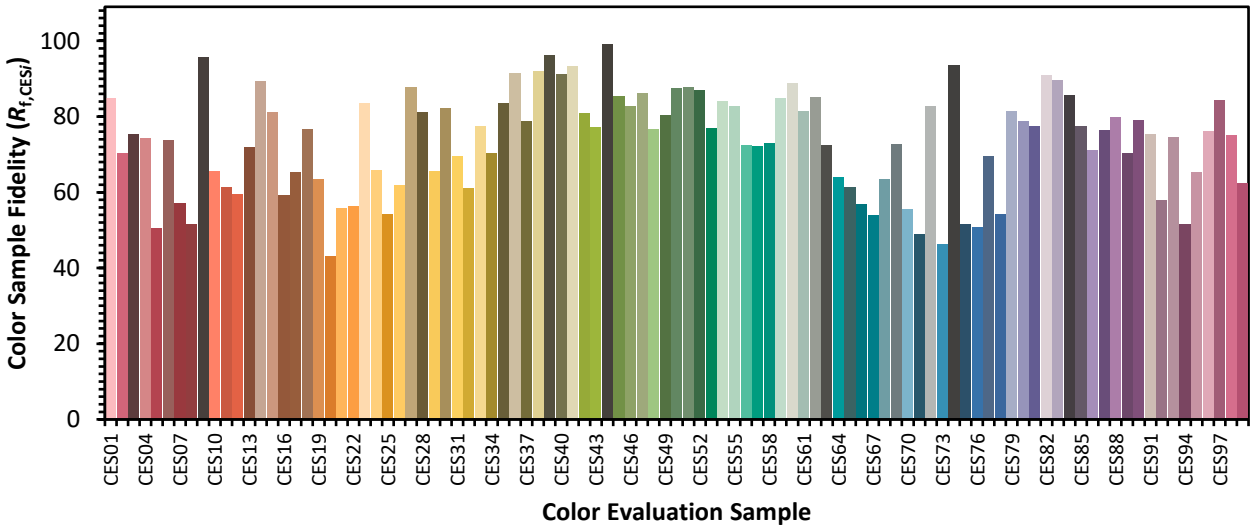



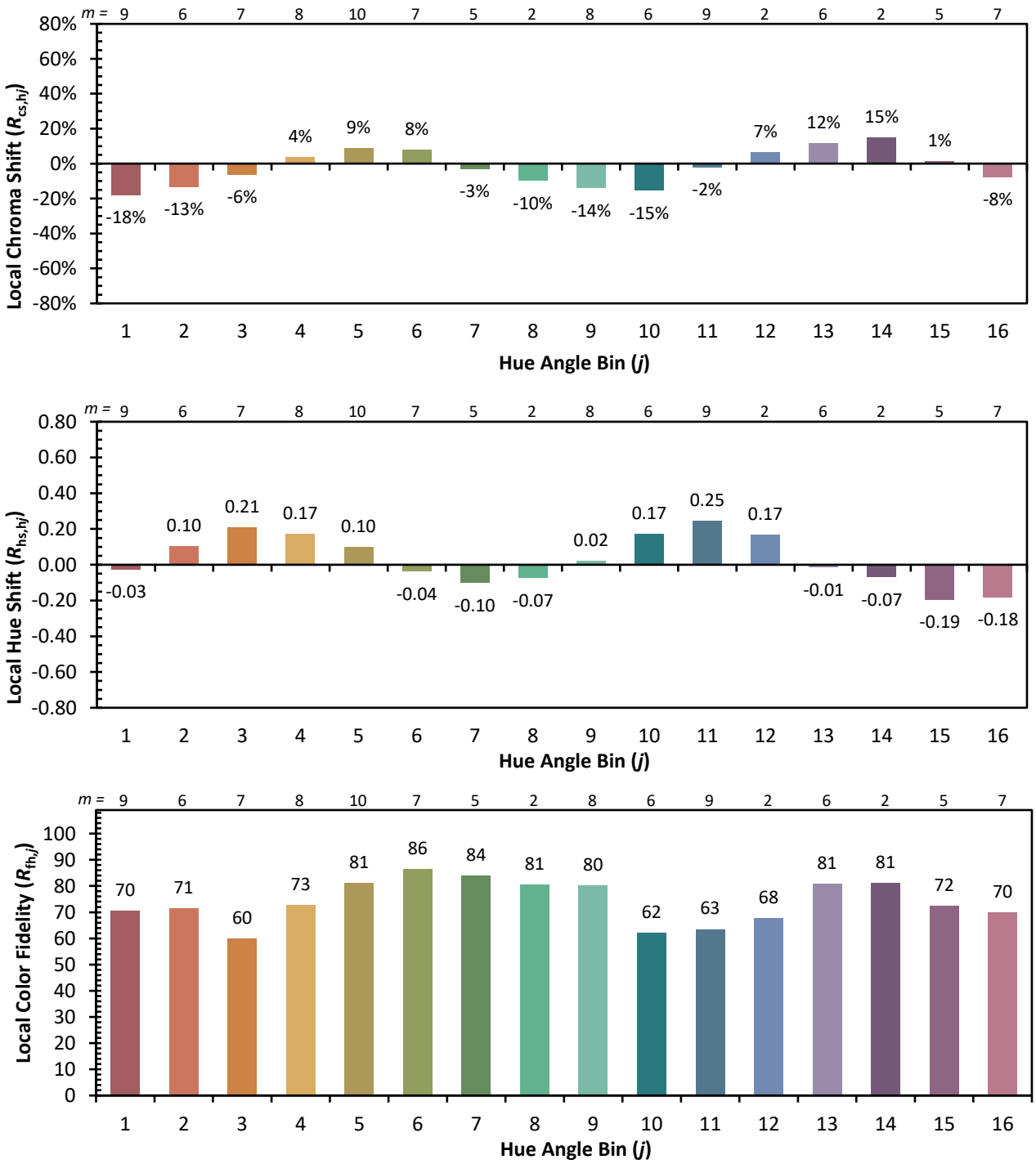



**Individual Sample Fidelity Index ($R_{f,i}$)**

| | | | |
|---|---|---|---|
| CES01 = 85 | CES26 = 62 | CES51 = 88 | CES76 = 51 |
| CES02 = 61 | CES27 = 88 | CES52 = 87 | CES77 = 70 |
| CES03 = 30 | CES28 = 81 | CES53 = 77 | CES78 = 54 |
| CES04 = 70 | CES29 = 66 | CES54 = 84 | CES79 = 81 |
| CES05 = 47 | CES30 = 82 | CES55 = 83 | CES80 = 79 |
| CES06 = 50 | CES31 = 69 | CES56 = 73 | CES81 = 77 |
| CES07 = 40 | CES32 = 61 | CES57 = 72 | CES82 = 91 |
| CES08 = 39 | CES33 = 77 | CES58 = 73 | CES83 = 90 |
| CES09 = 29 | CES34 = 70 | CES59 = 85 | CES84 = 86 |
| CES10 = 74 | CES35 = 84 | CES60 = 89 | CES85 = 77 |
| CES11 = 57 | CES36 = 91 | CES61 = 81 | CES86 = 71 |
| CES12 = 63 | CES37 = 79 | CES62 = 85 | CES87 = 76 |
| CES13 = 42 | CES38 = 92 | CES63 = 72 | CES88 = 80 |
| CES14 = 74 | CES39 = 96 | CES64 = 64 | CES89 = 70 |
| CES15 = 71 | CES40 = 91 | CES65 = 61 | CES90 = 79 |
| CES16 = 46 | CES41 = 93 | CES66 = 57 | CES91 = 75 |
| CES17 = 49 | CES42 = 81 | CES67 = 54 | CES92 = 58 |
| CES18 = 56 | CES43 = 77 | CES68 = 63 | CES93 = 75 |
| CES19 = 72 | CES44 = 99 | CES69 = 73 | CES94 = 52 |
| CES20 = 65 | CES45 = 85 | CES70 = 56 | CES95 = 65 |
| CES21 = 86 | CES46 = 83 | CES71 = 49 | CES96 = 76 |
| CES22 = 78 | CES47 = 86 | CES72 = 83 | CES97 = 84 |
| CES23 = 92 | CES48 = 77 | CES73 = 46 | CES98 = 75 |
| CES24 = 91 | CES49 = 81 | CES74 = 93 | CES99 = 62 |
| CES25 = 72 | CES50 = 87 | CES75 = 52 | |

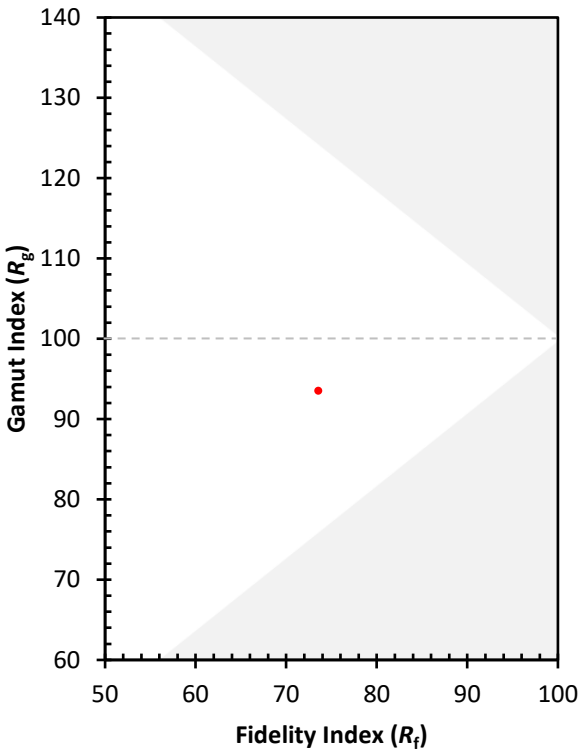


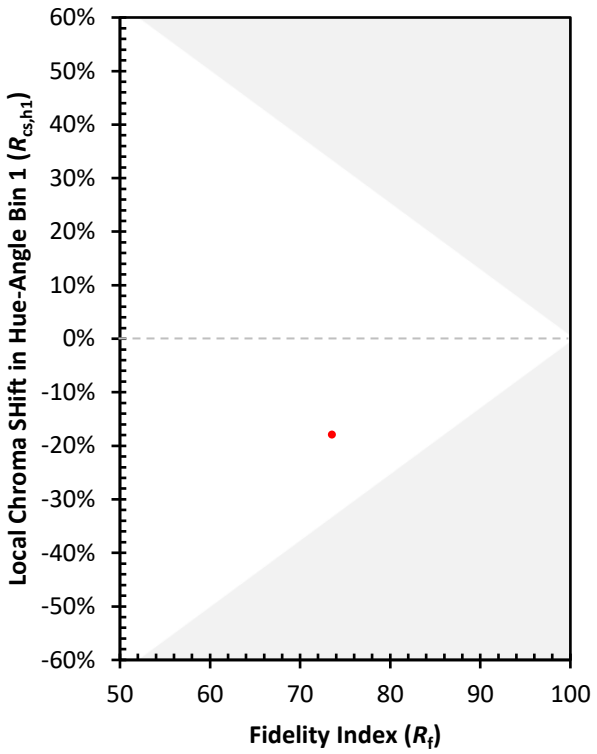
## Color Rendition by Hue-Angle Bin



## TM-30-18

### Measure Comparisons




(END OF REPORT)