

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

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Peachtree City, GA 30269

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: STREETWORKS

Report Number: P1462209

Luminaire Tested: PRV-P-30-740-U-T3R-HSS

Issue Date: 06/10/2026

**Test Information**

Test Method: LM-79-2024  
Report Number: P1462209  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 6/11/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: PRV-P-30-740-U-T3R-HSS  
Description: PREVAIL PETITE DISCRETE LED 1 SQUARE 30W 70CRI 4000K FIXTURE w/ TYPE III  
DISTRIBUTION OPTIC AND HOUSE SIDE SHIELD  
Light Source: (10) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3126.5 lumens  
Efficiency: N/A  
Efficacy: 95.0 lumens/watt  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B0 - U0 - G1

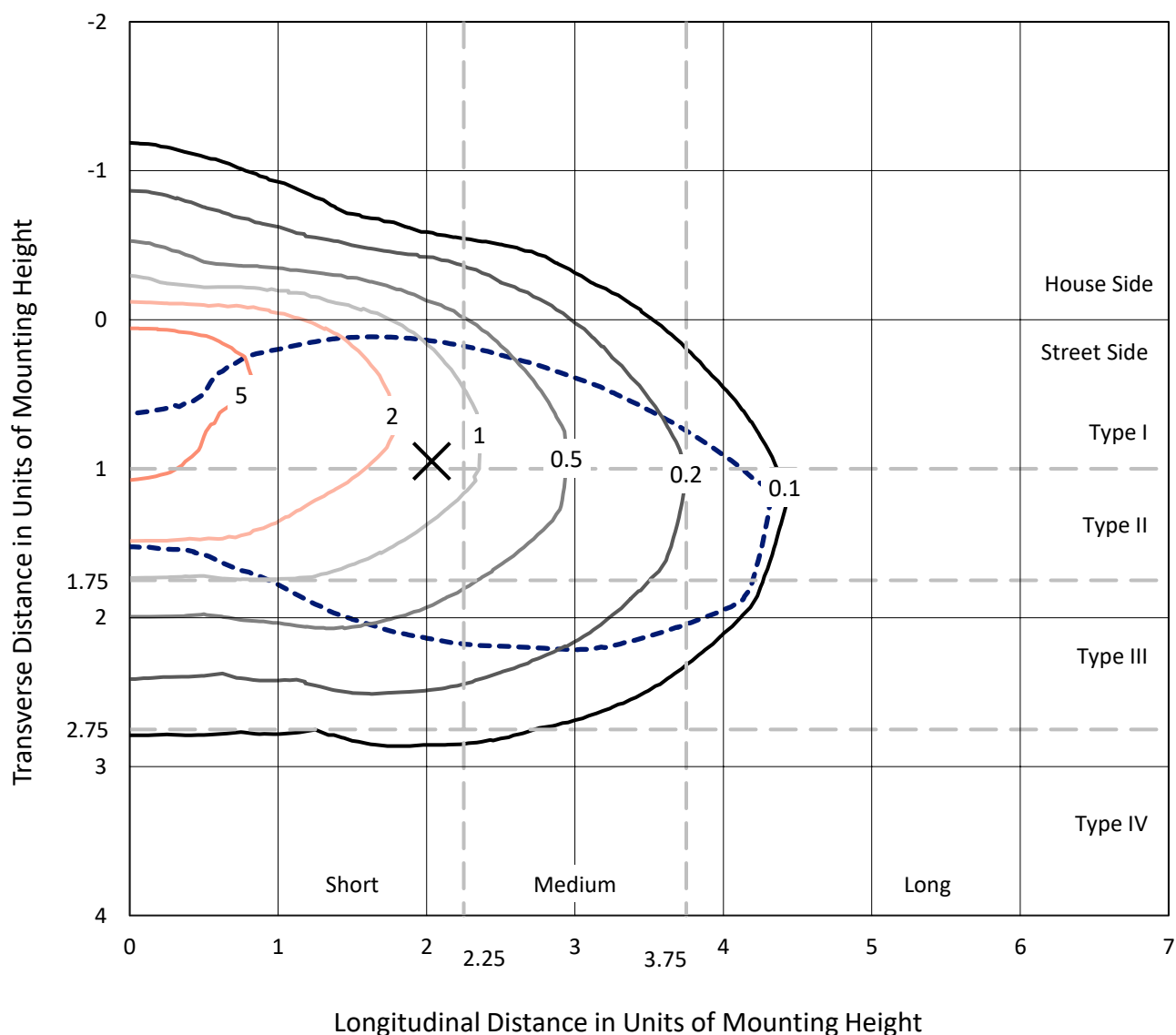
Input Watts (W): 32.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: 0.97  
Total Harmonic Distortion (THDi): 10.0%  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT

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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

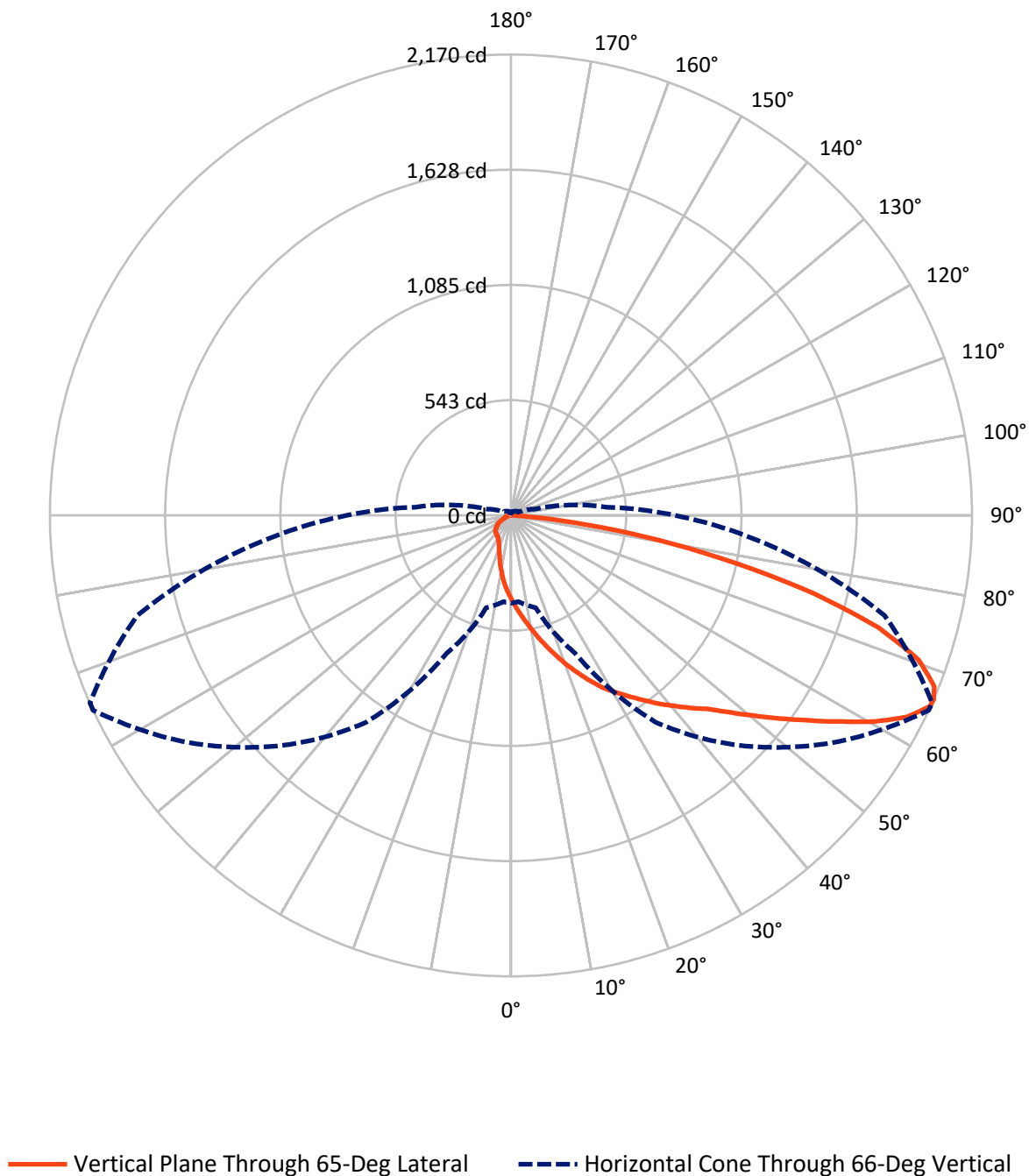


Based on 10 foot mounting height. Maximum calculated value = 7.4 fc  
 Type III - Short - N/A

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## Luminous Intensity Polar Plot



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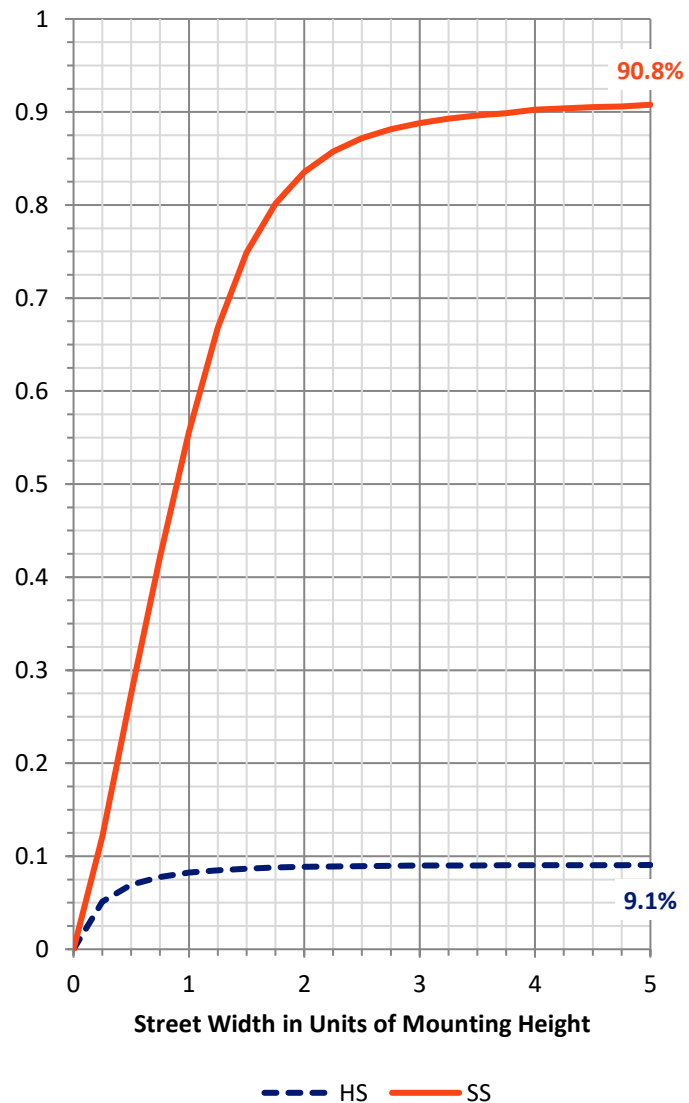
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 285.2    | 0.0    | 285.2  |
|                    | % Fixture | 9.1      | 0.0    | 9.1    |
| <b>Street Side</b> | Lumens    | 2841.3   | 0.0    | 2841.3 |
|                    | % Fixture | 90.9     | 0.0    | 90.9   |
| <b>Total</b>       | Lumens    | 3126.5   | 0.0    | 3126.5 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 38.9   | 1.2       |
| 10°-20°   | 128.2  | 4.1       |
| 20°-30°   | 234.2  | 7.5       |
| 30°-40°   | 365.9  | 11.7      |
| 40°-50°   | 550.4  | 17.6      |
| 50°-60°   | 698.0  | 22.3      |
| 60°-70°   | 669.9  | 21.4      |
| 70°-80°   | 387.0  | 12.4      |
| 80°-90°   | 53.9   | 1.7       |
| 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°    | 3126.5 | 100.0     |
| 0°-180°   | 3126.5 | 100.0     |

**Coefficient of Utilization**



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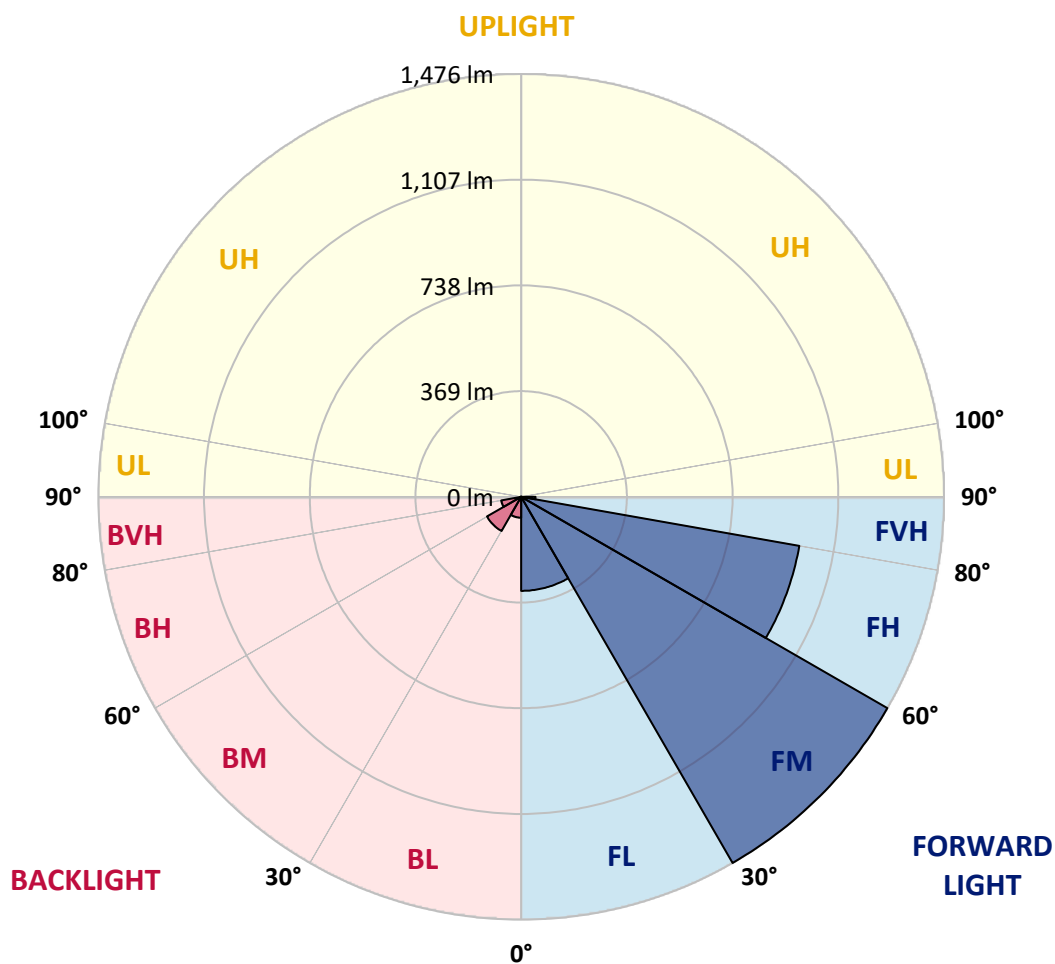
CATALOG NUMBER: PRV-P-30-740-U-T3R-HSS

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 328.4  | 10.5      |                         |      |         |
| FM   | (30°-60°)   | 1476.5 | 47.2      |                         |      |         |
| FH   | (60°-80°)   | 986.2  | 31.5      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 50.2   | 1.6       |                         |      | G1/100  |
| BL   | (0°-30°)    | 72.9   | 2.3       | B0/110                  |      |         |
| BM   | (30°-60°)   | 137.9  | 4.4       | B0/220                  |      |         |
| BH   | (60°-80°)   | 70.8   | 2.3       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 3.7    | 0.1       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B0-U0-G1**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 66°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 395.7  | 395.7  | 395.7  | 395.7  | 395.7  | 395.7  | 395.7  | 395.7  | 395.7  | 395.7  | 395.7  |
| 2.5°  | 476.8  | 475.4  | 471.1  | 468.3  | 459.8  | 453.5  | 441.5  | 429.5  | 427.4  | 416.8  | 404.1  |
| 5°    | 557.2  | 554.3  | 557.9  | 543.8  | 531.1  | 514.1  | 489.5  | 466.9  | 461.3  | 438.7  | 413.3  |
| 7.5°  | 646.0  | 643.2  | 643.9  | 627.0  | 608.7  | 579.7  | 543.1  | 505.0  | 497.9  | 463.4  | 423.2  |
| 10°   | 720.8  | 723.6  | 718.7  | 706.0  | 683.4  | 647.4  | 603.0  | 548.7  | 543.1  | 493.7  | 436.6  |
| 12.5° | 782.9  | 783.6  | 786.4  | 770.2  | 751.1  | 713.7  | 662.3  | 595.3  | 584.7  | 524.0  | 450.7  |
| 15°   | 832.2  | 829.4  | 830.1  | 822.4  | 806.1  | 773.0  | 720.8  | 644.6  | 635.5  | 557.9  | 466.9  |
| 17.5° | 856.2  | 856.2  | 861.1  | 858.3  | 852.0  | 829.4  | 778.6  | 695.4  | 686.9  | 588.9  | 483.1  |
| 20°   | 876.0  | 876.7  | 881.6  | 884.4  | 886.5  | 874.5  | 835.8  | 750.4  | 737.7  | 630.5  | 504.3  |
| 22.5° | 899.2  | 899.9  | 904.2  | 908.4  | 916.2  | 913.3  | 887.2  | 804.7  | 791.3  | 675.0  | 527.5  |
| 25°   | 935.2  | 935.2  | 936.6  | 935.2  | 943.0  | 950.0  | 934.5  | 861.1  | 848.4  | 724.3  | 555.1  |
| 27.5° | 973.3  | 980.3  | 978.2  | 974.0  | 974.0  | 980.3  | 978.9  | 917.6  | 904.2  | 770.2  | 583.3  |
| 30°   | 1026.9 | 1026.9 | 1026.2 | 1016.3 | 1010.7 | 1010.0 | 1013.5 | 964.8  | 952.8  | 817.4  | 610.8  |
| 32.5° | 1081.2 | 1086.8 | 1084.0 | 1070.6 | 1051.6 | 1038.9 | 1048.7 | 1014.9 | 1002.9 | 868.9  | 643.9  |
| 35°   | 1124.9 | 1123.5 | 1132.0 | 1117.2 | 1089.7 | 1074.1 | 1089.7 | 1066.4 | 1058.6 | 929.6  | 685.5  |
| 37.5° | 1201.8 | 1190.5 | 1194.0 | 1156.7 | 1115.8 | 1109.4 | 1129.9 | 1123.5 | 1112.9 | 993.0  | 728.6  |
| 40°   | 1322.4 | 1323.1 | 1319.6 | 1230.0 | 1156.7 | 1144.7 | 1177.8 | 1178.5 | 1172.2 | 1059.3 | 775.8  |
| 42.5° | 1477.6 | 1477.6 | 1444.4 | 1330.2 | 1231.4 | 1193.3 | 1231.4 | 1239.2 | 1233.5 | 1117.2 | 813.2  |
| 45°   | 1543.9 | 1534.7 | 1519.2 | 1421.8 | 1355.5 | 1258.2 | 1290.0 | 1299.8 | 1297.7 | 1183.5 | 859.7  |
| 47.5° | 1602.4 | 1594.6 | 1561.5 | 1500.8 | 1467.7 | 1343.6 | 1354.8 | 1383.8 | 1378.8 | 1261.7 | 919.0  |
| 50°   | 1618.6 | 1600.3 | 1594.6 | 1558.7 | 1541.7 | 1422.5 | 1432.4 | 1482.5 | 1478.3 | 1345.0 | 975.4  |
| 52.5° | 1499.4 | 1500.1 | 1546.7 | 1584.8 | 1557.3 | 1486.7 | 1510.0 | 1589.0 | 1580.5 | 1435.2 | 1031.8 |
| 55°   | 1230.0 | 1256.1 | 1373.9 | 1541.7 | 1558.0 | 1529.0 | 1605.2 | 1703.2 | 1700.4 | 1532.6 | 1080.5 |
| 57.5° | 1007.1 | 1011.4 | 1116.5 | 1430.3 | 1525.5 | 1567.8 | 1709.6 | 1831.6 | 1827.4 | 1630.6 | 1127.7 |
| 60°   | 797.7  | 802.6  | 876.0  | 1247.6 | 1471.9 | 1600.3 | 1806.9 | 1969.8 | 1967.0 | 1725.1 | 1154.5 |
| 62.5° | 605.1  | 612.9  | 679.9  | 1016.3 | 1387.3 | 1608.0 | 1877.5 | 2090.4 | 2081.3 | 1794.9 | 1163.0 |
| 65°   | 455.6  | 459.1  | 509.2  | 801.9  | 1257.5 | 1567.1 | 1879.6 | 2167.3 | 2168.0 | 1821.7 | 1136.9 |
| 66°   | 412.6  | 407.7  | 450.0  | 715.9  | 1188.4 | 1533.3 | 1862.6 | 2170.1 | 2169.4 | 1820.3 | 1112.9 |
| 67.5° | 352.6  | 348.4  | 386.5  | 589.6  | 1075.5 | 1455.7 | 1800.6 | 2149.0 | 2151.8 | 1805.5 | 1072.0 |
| 70°   | 266.6  | 268.7  | 299.7  | 410.5  | 862.6  | 1269.5 | 1640.5 | 2035.4 | 2043.9 | 1743.4 | 984.6  |
| 72.5° | 199.6  | 203.8  | 229.9  | 287.0  | 599.5  | 1020.5 | 1413.4 | 1810.4 | 1842.9 | 1617.2 | 851.3  |
| 75°   | 145.3  | 149.5  | 170.0  | 203.8  | 386.5  | 705.3  | 1141.1 | 1476.1 | 1495.2 | 1364.0 | 689.1  |
| 77.5° | 103.7  | 106.5  | 121.3  | 146.7  | 220.8  | 427.4  | 783.6  | 1079.1 | 1096.0 | 1066.4 | 529.0  |
| 80°   | 52.9   | 57.1   | 62.8   | 76.9   | 129.1  | 225.0  | 446.4  | 703.9  | 722.2  | 707.4  | 361.1  |
| 82.5° | 31.0   | 33.1   | 38.1   | 43.7   | 58.5   | 101.6  | 239.8  | 361.1  | 385.8  | 414.7  | 210.9  |
| 85°   | 12.7   | 14.8   | 19.0   | 23.3   | 26.8   | 37.4   | 69.1   | 99.4   | 94.5   | 103.0  | 59.2   |
| 87.5° | 0.7    | 0.7    | 1.4    | 2.8    | 4.9    | 5.6    | 7.1    | 6.3    | 5.6    | 4.2    | 2.8    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

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CATALOG NUMBER: PRV-P-30-740-U-T3R-HSS

**CANDELA DISTRIBUTION (continued):**

|       | 90°   | 95°   | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 395.7 | 395.7 | 395.7 | 395.7 | 395.7 | 395.7 | 395.7 | 395.7 | 395.7 | 395.7 | 395.7 |
| 2.5°  | 397.1 | 390.7 | 376.6 | 363.9 | 354.0 | 339.9 | 332.9 | 323.7 | 320.9 | 314.6 | 313.8 |
| 5°    | 399.2 | 385.8 | 358.3 | 332.9 | 307.5 | 287.8 | 272.9 | 258.1 | 246.8 | 243.3 | 244.0 |
| 7.5°  | 403.4 | 382.3 | 342.1 | 301.2 | 265.2 | 237.7 | 216.5 | 199.6 | 190.4 | 186.9 | 186.9 |
| 10°   | 407.7 | 378.7 | 323.0 | 268.0 | 224.3 | 194.0 | 172.1 | 158.7 | 152.3 | 149.5 | 149.5 |
| 12.5° | 414.7 | 377.3 | 304.7 | 239.8 | 190.4 | 160.1 | 145.3 | 136.1 | 133.3 | 130.5 | 130.5 |
| 15°   | 421.1 | 375.9 | 285.6 | 209.5 | 162.2 | 139.6 | 127.7 | 122.0 | 119.2 | 118.5 | 117.8 |
| 17.5° | 429.5 | 375.9 | 268.0 | 184.8 | 141.8 | 123.4 | 115.0 | 110.7 | 107.9 | 107.9 | 107.9 |
| 20°   | 440.1 | 376.6 | 251.1 | 166.4 | 129.1 | 112.1 | 104.4 | 100.9 | 98.7  | 98.0  | 98.0  |
| 22.5° | 454.2 | 379.4 | 235.6 | 150.2 | 117.8 | 103.7 | 94.5  | 91.7  | 90.3  | 89.6  | 89.6  |
| 25°   | 471.1 | 384.4 | 221.5 | 138.2 | 109.3 | 94.5  | 86.0  | 83.2  | 81.1  | 80.4  | 80.4  |
| 27.5° | 488.1 | 389.3 | 209.5 | 128.4 | 100.9 | 86.0  | 78.3  | 74.8  | 73.3  | 71.9  | 72.6  |
| 30°   | 505.7 | 393.5 | 199.6 | 122.0 | 92.4  | 78.3  | 71.2  | 67.0  | 64.9  | 64.9  | 64.9  |
| 32.5° | 526.8 | 398.5 | 193.2 | 117.8 | 86.0  | 72.6  | 64.9  | 59.9  | 59.2  | 58.5  | 58.5  |
| 35°   | 554.3 | 413.3 | 191.1 | 115.0 | 81.1  | 67.0  | 59.2  | 54.3  | 53.6  | 53.6  | 53.6  |
| 37.5° | 586.8 | 429.5 | 194.0 | 112.1 | 76.9  | 62.8  | 55.7  | 50.8  | 50.1  | 50.1  | 50.1  |
| 40°   | 616.4 | 440.8 | 197.5 | 109.3 | 73.3  | 58.5  | 52.2  | 48.0  | 47.3  | 47.3  | 47.3  |
| 42.5° | 635.5 | 439.4 | 191.8 | 106.5 | 70.5  | 56.4  | 49.4  | 45.1  | 44.4  | 44.4  | 44.4  |
| 45°   | 663.7 | 445.7 | 186.9 | 104.4 | 68.4  | 53.6  | 47.3  | 43.0  | 41.6  | 42.3  | 42.3  |
| 47.5° | 698.9 | 458.4 | 181.3 | 98.7  | 67.0  | 51.5  | 45.1  | 40.9  | 39.5  | 39.5  | 39.5  |
| 50°   | 734.2 | 469.0 | 177.0 | 91.7  | 65.6  | 48.7  | 42.3  | 38.1  | 36.7  | 36.7  | 36.7  |
| 52.5° | 765.9 | 476.1 | 173.5 | 84.6  | 62.1  | 45.8  | 39.5  | 36.0  | 34.6  | 34.6  | 34.6  |
| 55°   | 789.9 | 480.3 | 167.9 | 79.0  | 57.1  | 43.0  | 36.7  | 33.9  | 31.7  | 30.3  | 30.3  |
| 57.5° | 813.2 | 483.8 | 162.2 | 73.3  | 51.5  | 39.5  | 34.6  | 31.0  | 27.5  | 26.8  | 26.8  |
| 60°   | 823.1 | 485.2 | 153.8 | 64.2  | 45.1  | 36.0  | 31.7  | 27.5  | 24.0  | 22.6  | 22.6  |
| 62.5° | 816.7 | 476.1 | 141.8 | 52.2  | 40.2  | 33.1  | 28.2  | 24.0  | 19.7  | 18.3  | 19.0  |
| 65°   | 791.3 | 459.1 | 123.4 | 40.2  | 36.0  | 29.6  | 24.7  | 20.5  | 16.2  | 14.8  | 14.8  |
| 66°   | 772.3 | 450.0 | 113.5 | 37.4  | 34.6  | 28.2  | 23.3  | 19.0  | 14.8  | 12.7  | 12.0  |
| 67.5° | 739.1 | 430.9 | 99.4  | 34.6  | 32.4  | 26.1  | 21.9  | 16.2  | 11.3  | 9.9   | 9.9   |
| 70°   | 670.0 | 391.4 | 75.5  | 30.3  | 28.9  | 23.3  | 17.6  | 12.7  | 8.5   | 7.1   | 7.1   |
| 72.5° | 571.3 | 322.3 | 53.6  | 26.8  | 25.4  | 19.0  | 14.8  | 10.6  | 7.1   | 4.9   | 4.9   |
| 75°   | 447.9 | 232.0 | 40.9  | 24.0  | 21.2  | 16.2  | 12.0  | 8.5   | 4.9   | 3.5   | 3.5   |
| 77.5° | 314.6 | 148.8 | 33.9  | 21.2  | 17.6  | 14.1  | 9.9   | 5.6   | 3.5   | 2.1   | 2.1   |
| 80°   | 190.4 | 83.2  | 26.1  | 17.6  | 15.5  | 10.6  | 6.3   | 3.5   | 2.1   | 0.7   | 0.7   |
| 82.5° | 103.7 | 43.0  | 15.5  | 12.7  | 9.9   | 6.3   | 3.5   | 1.4   | 0.7   | 0.0   | 0.0   |
| 85°   | 26.1  | 13.4  | 5.6   | 3.5   | 2.8   | 1.4   | 0.7   | 0.7   | 0.0   | 0.0   | 0.0   |
| 87.5° | 2.1   | 2.1   | 2.1   | 2.1   | 1.4   | 0.7   | 0.7   | 0.0   | 0.0   | 0.0   | 0.7   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

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

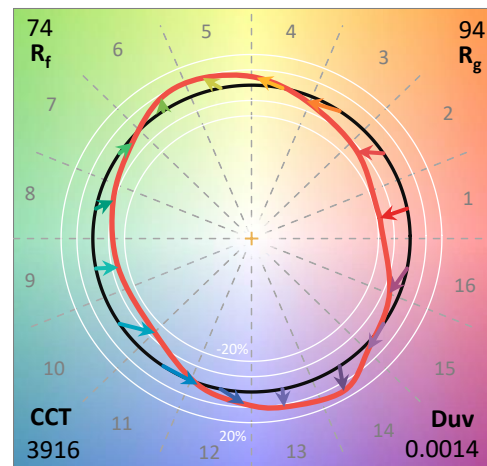
Data in this report applies to families of products including GKO-PB1E-740-U-T4W

### Test Information

Test Method: LM-79-2019  
 Report Number: SP2-2501-321-1  
 Test Lab: COOPER LIGHTING SOLUTIONS  
 Photometer: SP2 - 165CM SPHERE  
 Measurement Geometry:  $4\pi$   
 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

REPORT NUMBER: SP2-2501-321-1

| 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

### Photopic Flux vs. Wavelength



### Photopic Lumens: NR

| λ (nm) | Power W <sup>λ</sup> /nm | Lumens (φ/nm) | λ (nm) | Power W <sup>λ</sup> /nm | Lumens (φ/nm) | λ (nm) | Power W <sup>λ</sup> /nm | Lumens (φ/nm) | λ (nm) | Power W <sup>λ</sup> /nm | Lumens (φ/nm) | λ (nm) | Power W <sup>λ</sup> /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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### Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

S/P: 1.49

| λ (nm) | Power W <sup>^</sup> /nm | Lumens (Φ/nm) | λ (nm) | Power W <sup>^</sup> /nm | Lumens (Φ/nm) | λ (nm) | Power W <sup>^</sup> /nm | Lumens (Φ/nm) | λ (nm) | Power W <sup>^</sup> /nm | Lumens (Φ/nm) | λ (nm) | Power W <sup>^</sup> /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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### Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.88

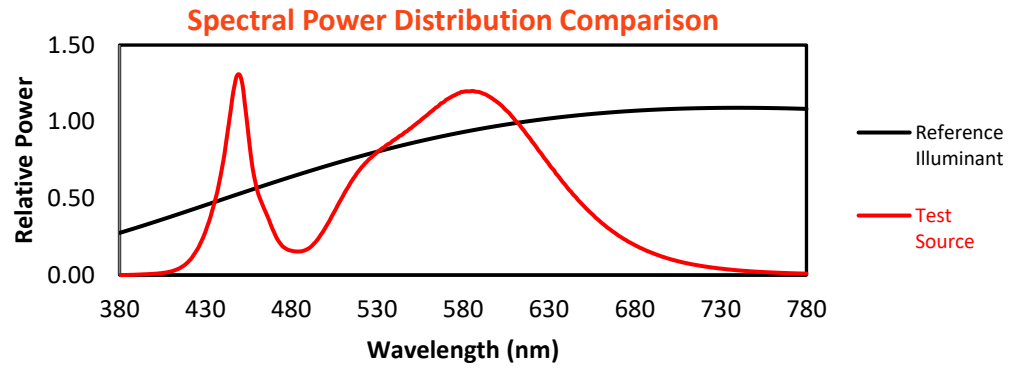
| $\lambda$<br>(nm) | Power<br>$\text{W}^{\wedge}/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^{\wedge}/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^{\wedge}/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^{\wedge}/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^{\wedge}/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) |
|-------------------|----------------------------------------|--------------------------------|-------------------|----------------------------------------|--------------------------------|-------------------|----------------------------------------|--------------------------------|-------------------|----------------------------------------|--------------------------------|-------------------|----------------------------------------|--------------------------------|
| 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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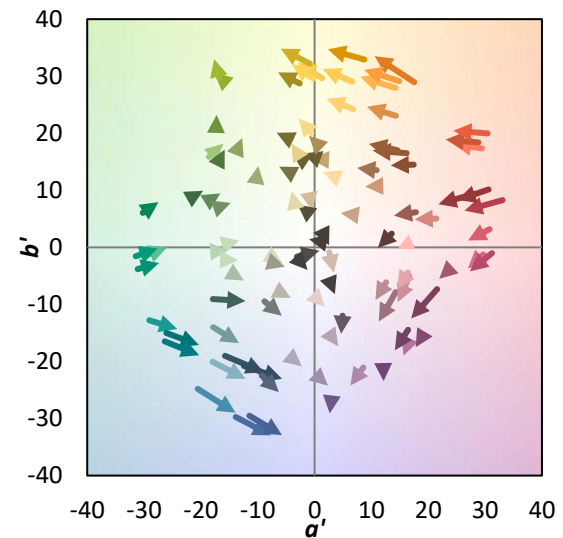
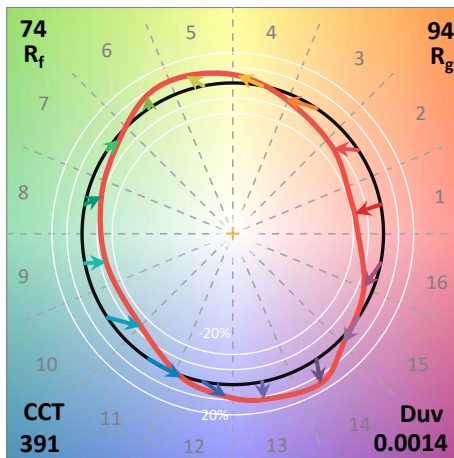
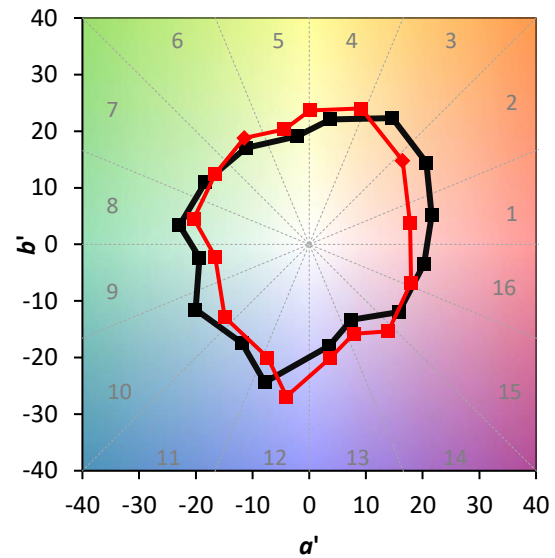
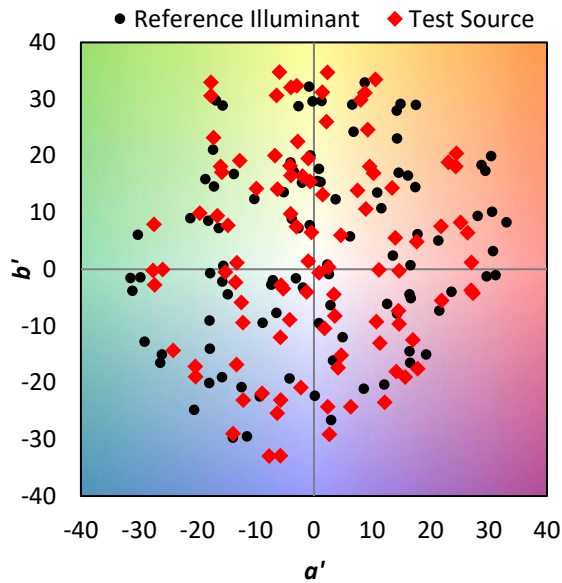
TM-30-18

### Summary

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



### Color Vector Graphics

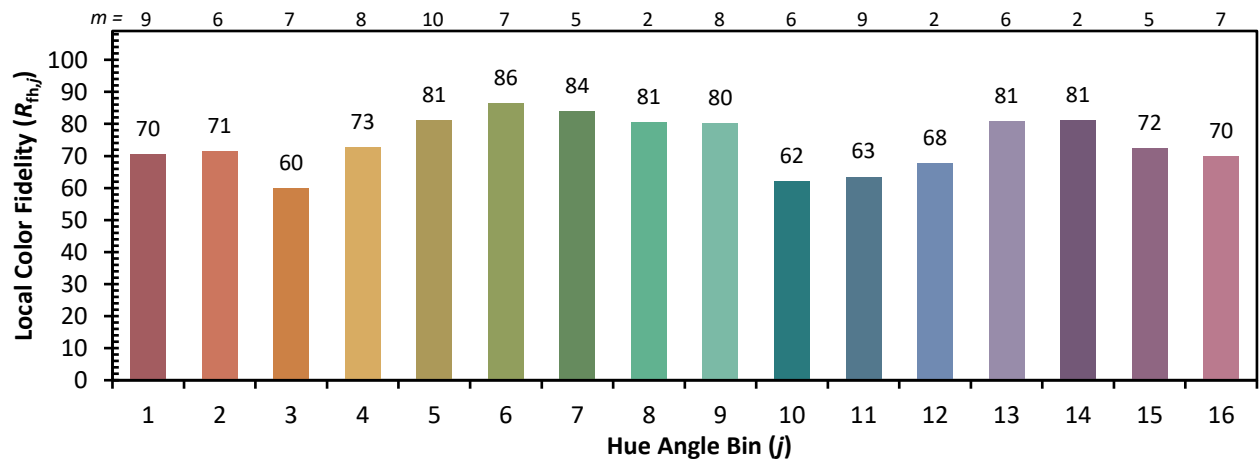
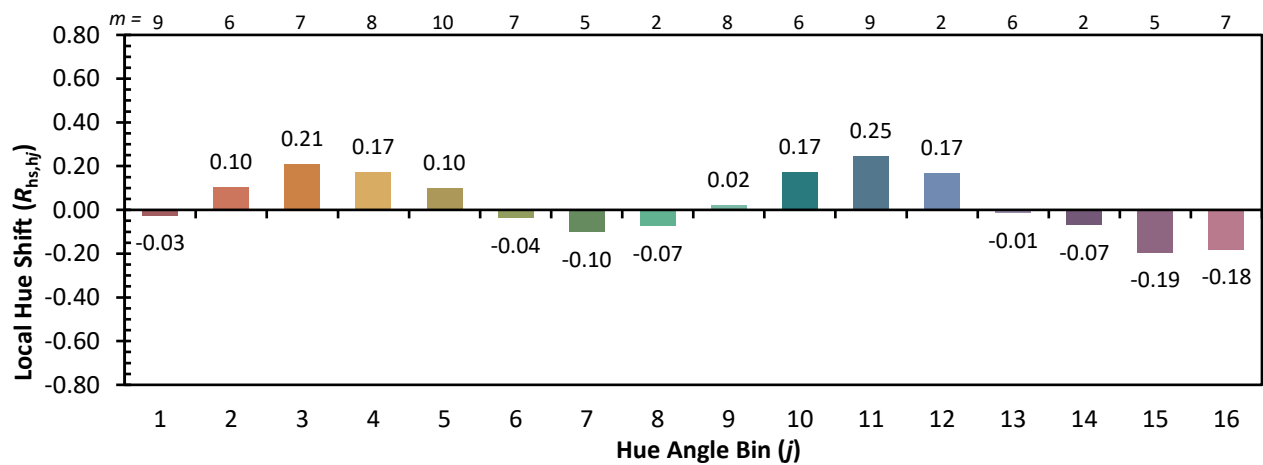
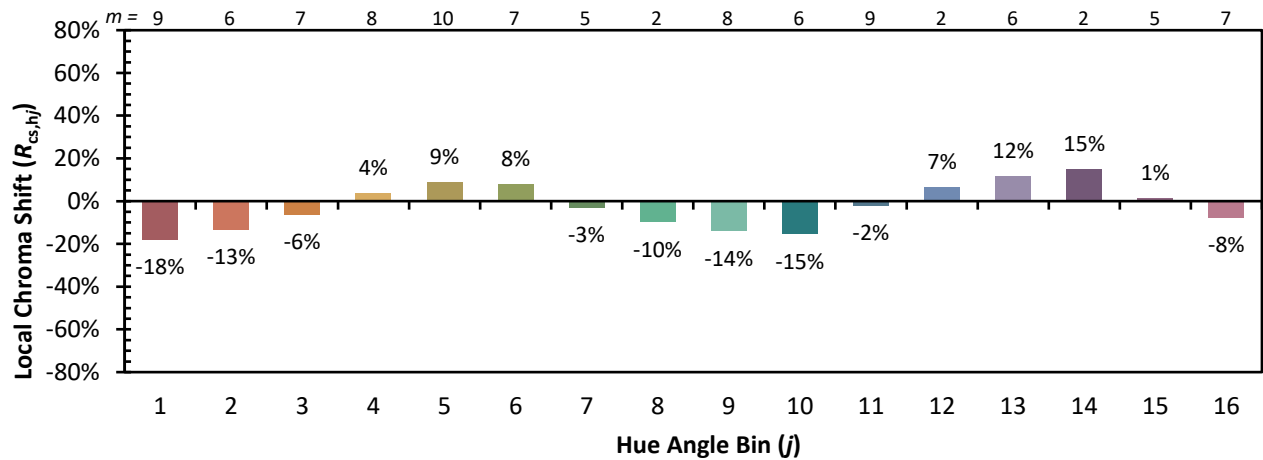


**Individual Sample Fidelity Index ( $R_{f,i}$ )**

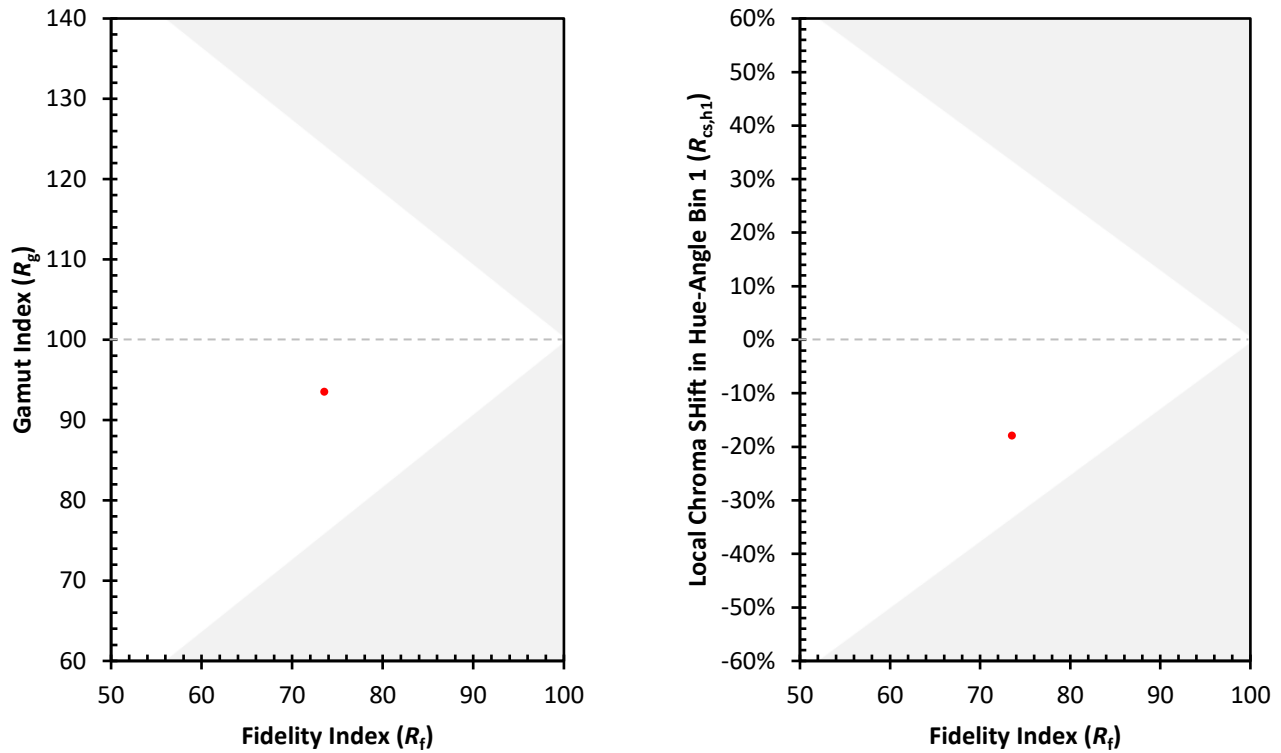
|            |            |            |            |
|------------|------------|------------|------------|
| CES01 = 85 | CES26 = 62 | CES51 = 88 | CES76 = 51 |
| CES02 = 61 | CES27 = 88 | CES52 = 87 | CES77 = 70 |
| CES03 = 30 | CES28 = 81 | CES53 = 77 | CES78 = 54 |
| CES04 = 70 | CES29 = 66 | CES54 = 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



**Measure Comparisons**



(END OF REPORT)