

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



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: METALUX

Report Number: P1433743

Luminaire Tested: EHBR1-18-UNV-TASM-L940-UPL30

Issue Date: 3/20/2026

Test Information

Test Method: LM-79-2019
Report Number: P1433743
REPORT IS A COMBINATION OF REPORTS P1431690 AND P1431635
Test Lab: INNOVATION CENTER
Issue Date: 3/20/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: EHBR1-18-UNV-TASM-L940-UPL30
Description: Elevate Round Highbay at, 18000 lumens, 4000K 90CRI LEDs with TASM lens
Light Source: -
Ballast/Driver: -

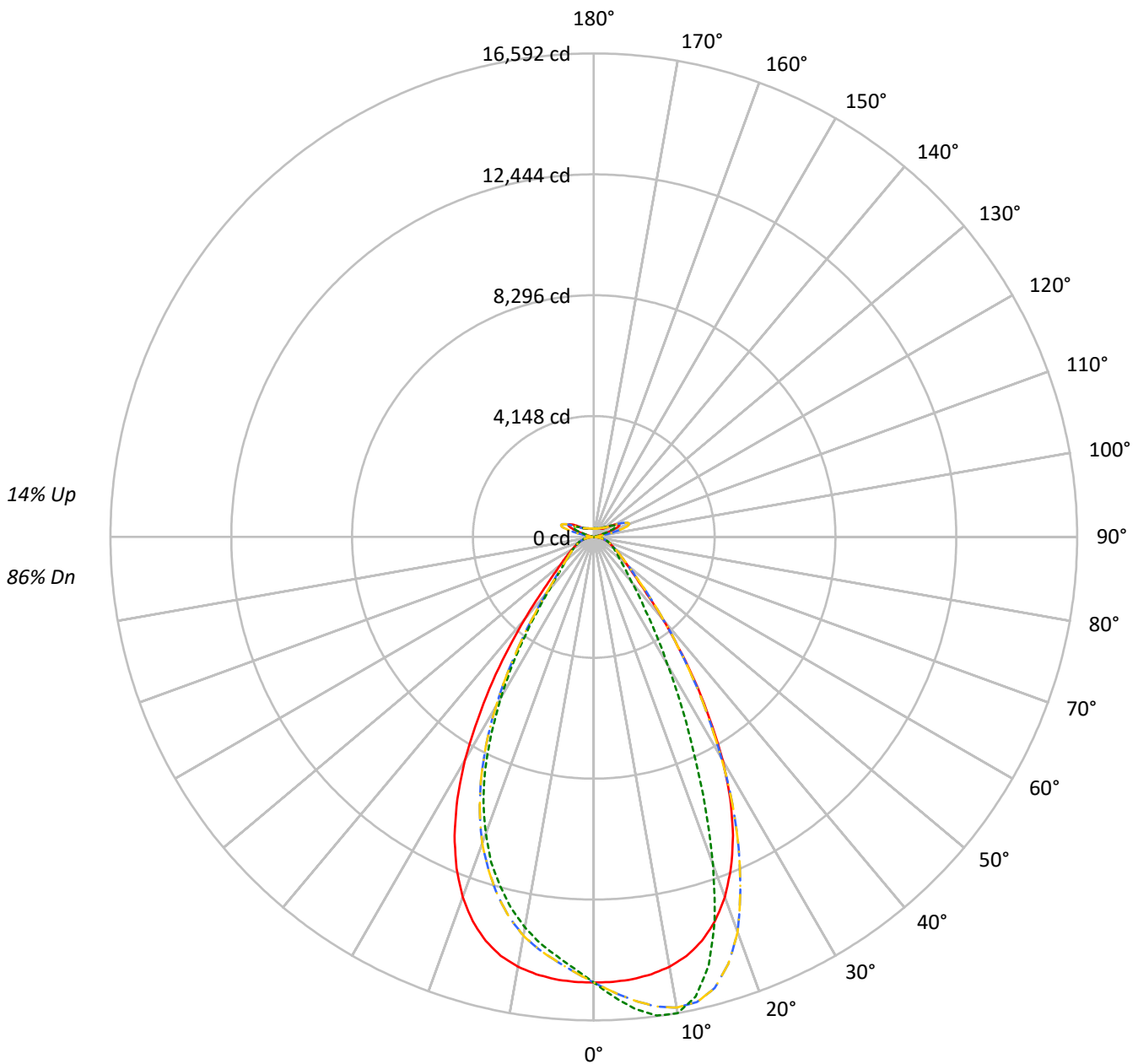
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19939.1 lumens
Efficiency: N/A
Efficacy: 170.9 lumens/watt
Spacing Criteria (0/90/45): 0.99 / 0.84 / 0.9
Luminous Opening: Vertical Cylinder (Dia: 1.71' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 116.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P1433743
CATALOG NUMBER: EHBR1-18-UNV-TASM-L940-UPL30

Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - - - 90°-270° - - - 135°-315°



TEST NUMBER: P1433743

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|
| RF | 20 | | | | 20 | | | | 20 | | | | 20 | | | | 20 | | | | |
| RC | 80 | | | | 70 | | | | 50 | | | | 30 | | | | 10 | | | 0 | |
| RW | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 |
| RCR | | | | | | | | | | | | | | | | | | | | | |
| 0 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 111 | 103 | 103 | 103 | 96 | 96 | 96 | 89 | 89 | 89 | 89 | 89 | 89 | 86 |
| 1 | 108 | 105 | 102 | 99 | 104 | 101 | 98 | 96 | 94 | 92 | 90 | 88 | 87 | 85 | 83 | 81 | 80 | 80 | 80 | 80 | 77 |
| 2 | 101 | 95 | 90 | 86 | 98 | 92 | 88 | 84 | 87 | 83 | 80 | 81 | 79 | 76 | 77 | 74 | 72 | 72 | 72 | 72 | 70 |
| 3 | 95 | 87 | 81 | 76 | 91 | 84 | 79 | 74 | 80 | 75 | 71 | 75 | 72 | 69 | 71 | 68 | 66 | 66 | 66 | 66 | 63 |
| 4 | 89 | 80 | 73 | 68 | 86 | 78 | 72 | 67 | 74 | 69 | 65 | 70 | 66 | 62 | 66 | 63 | 60 | 60 | 60 | 60 | 58 |
| 5 | 83 | 74 | 67 | 62 | 81 | 72 | 65 | 61 | 68 | 63 | 59 | 65 | 60 | 57 | 62 | 58 | 55 | 55 | 55 | 55 | 53 |
| 6 | 78 | 68 | 61 | 56 | 76 | 67 | 60 | 55 | 63 | 58 | 54 | 61 | 56 | 52 | 58 | 54 | 51 | 51 | 51 | 51 | 49 |
| 7 | 74 | 63 | 56 | 52 | 72 | 62 | 56 | 51 | 59 | 54 | 50 | 57 | 52 | 48 | 54 | 50 | 47 | 47 | 47 | 47 | 45 |
| 8 | 70 | 59 | 52 | 48 | 68 | 58 | 51 | 47 | 55 | 50 | 46 | 53 | 49 | 45 | 51 | 47 | 44 | 44 | 44 | 44 | 42 |
| 9 | 66 | 55 | 49 | 44 | 64 | 54 | 48 | 44 | 52 | 47 | 43 | 50 | 45 | 42 | 48 | 44 | 41 | 41 | 41 | 41 | 39 |
| 10 | 63 | 52 | 45 | 41 | 61 | 51 | 45 | 41 | 49 | 44 | 40 | 47 | 43 | 39 | 46 | 42 | 38 | 38 | 38 | 38 | 37 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° | 270° |
|-----|-------|-------|-------|-------|
| 0° | 71808 | 71808 | 71808 | 71808 |
| 5° | 71370 | 76139 | 71370 | 67667 |
| 10° | 70493 | 78094 | 70493 | 64041 |
| 15° | 68412 | 72573 | 68412 | 59156 |
| 20° | 63982 | 58194 | 63982 | 52692 |
| 25° | 56630 | 40320 | 56630 | 44158 |
| 30° | 45981 | 26231 | 45981 | 33039 |
| 35° | 32979 | 16987 | 32979 | 21995 |
| 40° | 21322 | 11709 | 21322 | 13871 |
| 45° | 13529 | 9069 | 13529 | 9883 |
| 50° | 10046 | 7707 | 10046 | 8232 |
| 55° | 8203 | 7021 | 8203 | 7267 |
| 60° | 7103 | 6688 | 7103 | 6729 |
| 65° | 6475 | 6450 | 6475 | 6423 |
| 70° | 6137 | 6319 | 6137 | 6237 |
| 75° | 5738 | 6114 | 5738 | 5931 |
| 80° | 5041 | 5771 | 5041 | 5397 |
| 85° | 3262 | 4120 | 3262 | 3931 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 19020 cd/sqm



TEST NUMBER: P1433743

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1453.9 | 7.3 |
| 10°-20° | 3955.5 | 19.8 |
| 20°-30° | 4639.0 | 23.3 |
| 30°-40° | 3226.1 | 16.2 |
| 40°-50° | 1603.2 | 8.0 |
| 50°-60° | 958.9 | 4.8 |
| 60°-70° | 674.9 | 3.4 |
| 70°-80° | 434.8 | 2.2 |
| 80°-90° | 143.1 | 0.7 |
| 90°-100° | 75.6 | 0.4 |
| 100°-110° | 496.3 | 2.5 |
| 110°-120° | 917.3 | 4.6 |
| 120°-130° | 544.8 | 2.7 |
| 130°-140° | 328.9 | 1.6 |
| 140°-150° | 227.0 | 1.1 |
| 150°-160° | 147.6 | 0.7 |
| 160°-170° | 84.2 | 0.4 |
| 170°-180° | 27.9 | 0.1 |
| 0°-30° | 10048.5 | 50.4 |
| 0°-40° | 13274.6 | 66.6 |
| 0°-60° | 15836.7 | 79.4 |
| 0°-90° | 17089.5 | 85.7 |
| 90°-120° | 1489.2 | 7.5 |
| 90°-150° | 2589.8 | 13.0 |
| 90°-180° | 2850.0 | 14.3 |
| 0°-180° | 19939.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 90° | 180° | 270° | 360° | Flux |
|------|-------|-------|-------|-------|-------|------|
| 0° | 15291 | 15291 | 15291 | 15291 | 15291 | |
| 5° | 15239 | 16257 | 15239 | 14448 | 15239 | 1446 |
| 15° | 14352 | 15226 | 14352 | 12411 | 14352 | 4011 |
| 25° | 11309 | 8052 | 11309 | 8818 | 11309 | 5120 |
| 35° | 6053 | 3118 | 6053 | 4037 | 6053 | 3779 |
| 45° | 2189 | 1467 | 2189 | 1599 | 2189 | 1791 |
| 55° | 1108 | 949 | 1108 | 982 | 1108 | 1014 |
| 65° | 676 | 673 | 676 | 670 | 676 | 679 |
| 75° | 404 | 431 | 404 | 418 | 404 | 424 |
| 85° | 112 | 142 | 112 | 135 | 112 | 125 |
| 90° | 21 | 23 | 21 | 21 | 21 | 15 |
| 95° | 40 | 37 | 40 | 35 | 40 | 43 |
| 105° | 228 | 115 | 228 | 173 | 228 | 307 |
| 115° | 976 | 833 | 976 | 793 | 976 | 890 |
| 125° | 625 | 653 | 625 | 572 | 625 | 575 |
| 135° | 394 | 455 | 394 | 418 | 394 | 312 |
| 145° | 355 | 372 | 355 | 346 | 355 | 223 |
| 155° | 316 | 329 | 316 | 305 | 316 | 147 |
| 165° | 295 | 303 | 295 | 289 | 295 | 84 |
| 175° | 293 | 296 | 293 | 288 | 293 | 28 |
| 180° | 292 | 292 | 292 | 292 | 292 | |



TEST NUMBER: P1433743
 CATALOG NUMBER: EHBR1-18-UNV-TASM-L940-UPL30

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 15290.9 | 15290.9 | 15290.9 | 15290.9 | 15290.9 | 15290.9 | 15290.9 | 15290.9 | 15290.9 | 15290.9 | 15290.9 |
| 2.5° | 15282.0 | 15479.6 | 15639.5 | 15745.1 | 15797.3 | 15745.1 | 15639.5 | 15479.6 | 15282.0 | 15085.6 | 14950.6 |
| 5° | 15238.7 | 15634.4 | 15969.6 | 16188.9 | 16256.9 | 16188.9 | 15969.6 | 15634.4 | 15238.7 | 14864.9 | 14616.8 |
| 7.5° | 15135.2 | 15751.7 | 16249.8 | 16505.8 | 16568.3 | 16505.8 | 16249.8 | 15751.7 | 15135.2 | 14605.9 | 14292.6 |
| 10° | 14977.2 | 15825.7 | 16401.2 | 16584.6 | 16592.1 | 16584.6 | 16401.2 | 15825.7 | 14977.2 | 14264.2 | 13894.6 |
| 12.5° | 14725.2 | 15799.3 | 16350.4 | 16290.2 | 16153.3 | 16290.2 | 16350.4 | 15799.3 | 14725.2 | 13846.7 | 13380.5 |
| 15° | 14352.5 | 15643.0 | 16029.0 | 15538.9 | 15225.5 | 15538.9 | 16029.0 | 15643.0 | 14352.5 | 13282.9 | 12742.2 |
| 17.5° | 13827.2 | 15350.5 | 15358.0 | 14388.6 | 13797.3 | 14388.6 | 15358.0 | 15350.5 | 13827.2 | 12593.6 | 11998.1 |
| 20° | 13150.2 | 14881.5 | 14434.2 | 12661.1 | 11960.6 | 12661.1 | 14434.2 | 14881.5 | 13150.2 | 11778.8 | 11194.5 |
| 22.5° | 12301.5 | 14249.0 | 13147.6 | 10923.2 | 9967.5 | 10923.2 | 13147.6 | 14249.0 | 12301.5 | 10831.1 | 10223.0 |
| 25° | 11308.9 | 13473.9 | 11763.6 | 9029.6 | 8051.9 | 9029.6 | 11763.6 | 13473.9 | 11308.9 | 9702.0 | 9152.0 |
| 27.5° | 10141.2 | 12491.6 | 10289.8 | 7378.6 | 6476.6 | 7378.6 | 10289.8 | 12491.6 | 10141.2 | 8536.2 | 7974.5 |
| 30° | 8844.4 | 11232.3 | 8756.1 | 5876.2 | 5045.5 | 5876.2 | 8756.1 | 11232.3 | 8844.4 | 7226.4 | 6723.5 |
| 32.5° | 7392.4 | 9998.0 | 7283.1 | 4708.4 | 4004.8 | 4708.4 | 7283.1 | 9998.0 | 7392.4 | 5976.5 | 5451.0 |
| 35° | 6052.8 | 8453.6 | 5955.1 | 3699.7 | 3117.8 | 3699.7 | 5955.1 | 8453.6 | 6052.8 | 4796.7 | 4280.5 |
| 37.5° | 4750.2 | 6994.4 | 4747.1 | 2979.1 | 2529.0 | 2979.1 | 4747.1 | 6994.4 | 4750.2 | 3729.2 | 3310.2 |
| 40° | 3695.7 | 5469.0 | 3719.4 | 2378.1 | 2029.5 | 2378.1 | 3719.4 | 5469.0 | 3695.7 | 2837.4 | 2569.4 |
| 42.5° | 2800.2 | 4181.9 | 2923.5 | 1951.8 | 1723.8 | 1951.8 | 2923.5 | 4181.9 | 2800.2 | 2235.6 | 2034.9 |
| 45° | 2188.9 | 3077.4 | 2282.9 | 1646.7 | 1467.4 | 1646.7 | 2282.9 | 3077.4 | 2188.9 | 1800.4 | 1665.6 |
| 47.5° | 1782.6 | 2378.4 | 1850.2 | 1412.4 | 1286.8 | 1412.4 | 1850.2 | 2378.4 | 1782.6 | 1522.8 | 1421.9 |
| 50° | 1497.2 | 1825.0 | 1536.3 | 1232.9 | 1148.6 | 1232.9 | 1536.3 | 1825.0 | 1497.2 | 1304.0 | 1236.7 |
| 52.5° | 1286.2 | 1488.4 | 1308.3 | 1098.8 | 1042.0 | 1098.8 | 1308.3 | 1488.4 | 1286.2 | 1140.9 | 1099.1 |
| 55° | 1108.5 | 1251.3 | 1137.7 | 988.1 | 948.8 | 988.1 | 1137.7 | 1251.3 | 1108.5 | 1015.3 | 984.4 |
| 57.5° | 973.5 | 1061.4 | 988.1 | 893.7 | 867.6 | 893.7 | 988.1 | 1061.4 | 973.5 | 903.5 | 886.8 |
| 60° | 853.9 | 919.3 | 871.9 | 811.5 | 804.0 | 811.5 | 871.9 | 919.3 | 853.9 | 812.9 | 802.0 |
| 62.5° | 761.8 | 803.1 | 771.0 | 737.5 | 730.9 | 737.5 | 771.0 | 803.1 | 761.8 | 730.3 | 732.3 |
| 65° | 675.8 | 714.2 | 689.0 | 671.0 | 673.2 | 671.0 | 689.0 | 714.2 | 675.8 | 661.2 | 664.4 |
| 67.5° | 609.3 | 629.3 | 618.4 | 608.2 | 610.7 | 608.2 | 618.4 | 629.3 | 609.3 | 594.9 | 599.8 |
| 70° | 538.5 | 560.0 | 548.8 | 550.2 | 554.5 | 550.2 | 548.8 | 560.0 | 538.5 | 534.2 | 537.9 |
| 72.5° | 470.8 | 487.4 | 483.7 | 487.2 | 491.7 | 487.2 | 483.7 | 487.4 | 470.8 | 470.2 | 470.5 |
| 75° | 404.2 | 416.9 | 418.6 | 423.5 | 430.7 | 423.5 | 418.6 | 416.9 | 404.2 | 400.0 | 405.2 |
| 77.5° | 331.8 | 346.1 | 351.5 | 358.1 | 368.7 | 358.1 | 351.5 | 346.1 | 331.8 | 334.6 | 337.2 |
| 80° | 265.2 | 271.9 | 283.9 | 288.7 | 303.6 | 288.7 | 283.9 | 271.9 | 265.2 | 260.4 | 264.1 |
| 82.5° | 194.2 | 200.1 | 210.5 | 219.6 | 228.3 | 219.6 | 210.5 | 200.1 | 194.2 | 191.8 | 192.1 |
| 85° | 112.1 | 121.3 | 128.2 | 139.1 | 141.6 | 139.1 | 128.2 | 121.3 | 112.1 | 114.7 | 112.1 |
| 87.5° | 39.3 | 42.1 | 48.2 | 52.5 | 52.7 | 52.5 | 48.2 | 42.1 | 39.3 | 40.2 | 36.4 |
| 90° | 20.8 | 35.3 | 60.8 | 33.3 | 22.8 | 33.3 | 60.8 | 35.3 | 20.8 | 36.6 | 57.1 |
| 92.5° | 27.1 | 47.9 | 86.1 | 44.3 | 30.7 | 44.3 | 86.1 | 47.9 | 27.1 | 47.6 | 91.9 |
| 95° | 40.1 | 59.0 | 109.7 | 49.0 | 37.1 | 49.0 | 109.7 | 59.0 | 40.1 | 63.4 | 128.1 |
| 97.5° | 62.1 | 73.1 | 124.0 | 52.2 | 44.9 | 52.2 | 124.0 | 73.1 | 62.1 | 77.6 | 147.1 |
| 100° | 82.6 | 82.6 | 226.6 | 60.1 | 51.2 | 60.1 | 226.6 | 82.6 | 82.6 | 95.3 | 229.2 |
| 102.5° | 125.3 | 161.8 | 525.2 | 120.5 | 62.3 | 120.5 | 525.2 | 161.8 | 125.3 | 179.0 | 486.4 |
| 105° | 227.9 | 370.2 | 924.6 | 311.4 | 114.7 | 311.4 | 924.6 | 370.2 | 227.9 | 374.7 | 866.9 |
| 107.5° | 431.4 | 690.6 | 1191.3 | 614.5 | 267.8 | 614.5 | 1191.3 | 690.6 | 431.4 | 663.5 | 1143.4 |
| 110° | 690.3 | 965.3 | 1300.2 | 841.8 | 542.5 | 841.8 | 1300.2 | 965.3 | 690.3 | 911.3 | 1198.7 |



TEST NUMBER: P1433743

CATALOG NUMBER: EHBR1-18-UNV-TASM-L940-UPL30

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|--------|-------|--------|--------|-------|-------|--------|--------|--------|-------|--------|--------|
| 112.5° | 898.8 | 1075.8 | 1270.2 | 933.3 | 750.8 | 933.3 | 1270.2 | 1075.8 | 898.8 | 1006.1 | 1148.2 |
| 115° | 976.4 | 1060.0 | 1134.5 | 930.2 | 832.9 | 930.2 | 1134.5 | 1060.0 | 976.4 | 982.4 | 1025.0 |
| 117.5° | 943.2 | 970.0 | 979.8 | 873.4 | 837.6 | 873.4 | 979.8 | 970.0 | 943.2 | 883.2 | 870.3 |
| 120° | 851.6 | 840.6 | 825.3 | 789.8 | 790.3 | 789.8 | 825.3 | 840.6 | 851.6 | 771.1 | 726.7 |
| 122.5° | 736.7 | 713.0 | 697.5 | 704.8 | 725.6 | 704.8 | 697.5 | 713.0 | 736.7 | 656.2 | 622.8 |
| 125° | 624.7 | 600.9 | 607.8 | 632.1 | 653.3 | 632.1 | 607.8 | 600.9 | 624.7 | 557.0 | 548.8 |
| 127.5° | 530.2 | 519.1 | 543.1 | 570.6 | 588.5 | 570.6 | 543.1 | 519.1 | 530.2 | 487.5 | 496.8 |
| 130° | 462.6 | 465.5 | 497.3 | 520.3 | 531.7 | 520.3 | 497.3 | 465.5 | 462.6 | 442.1 | 463.9 |
| 132.5° | 420.4 | 432.6 | 462.9 | 482.8 | 489.3 | 482.8 | 462.9 | 432.6 | 420.4 | 414.3 | 440.9 |
| 135° | 393.8 | 412.1 | 439.6 | 452.5 | 454.6 | 452.5 | 439.6 | 412.1 | 393.8 | 395.7 | 420.4 |
| 137.5° | 378.2 | 396.7 | 417.5 | 427.5 | 424.6 | 427.5 | 417.5 | 396.7 | 378.2 | 383.3 | 402.0 |
| 140° | 369.1 | 387.5 | 397.0 | 408.5 | 406.0 | 408.5 | 397.0 | 387.5 | 369.1 | 372.3 | 386.4 |
| 142.5° | 359.9 | 376.8 | 381.4 | 389.9 | 387.0 | 389.9 | 381.4 | 376.8 | 359.9 | 363.1 | 372.6 |
| 145° | 355.4 | 367.8 | 364.4 | 375.7 | 371.5 | 375.7 | 364.4 | 367.8 | 355.4 | 356.7 | 361.8 |
| 147.5° | 347.6 | 356.7 | 352.0 | 361.8 | 357.6 | 361.8 | 352.0 | 356.7 | 347.6 | 347.6 | 349.5 |
| 150° | 338.4 | 344.7 | 338.1 | 349.5 | 348.4 | 349.5 | 338.1 | 344.7 | 338.4 | 336.8 | 338.7 |
| 152.5° | 326.0 | 332.3 | 326.0 | 338.9 | 337.6 | 338.9 | 326.0 | 332.3 | 326.0 | 324.4 | 326.3 |
| 155° | 315.5 | 318.7 | 315.5 | 328.4 | 328.7 | 328.4 | 315.5 | 318.7 | 315.5 | 315.3 | 315.8 |
| 157.5° | 308.2 | 310.1 | 308.5 | 319.9 | 320.2 | 319.9 | 308.5 | 310.1 | 308.2 | 308.2 | 308.5 |
| 160° | 301.5 | 304.6 | 303.3 | 313.1 | 313.4 | 313.1 | 303.3 | 304.6 | 301.5 | 302.8 | 303.1 |
| 162.5° | 298.9 | 298.9 | 297.9 | 307.6 | 308.2 | 307.6 | 297.9 | 298.9 | 298.9 | 298.9 | 300.5 |
| 165° | 295.1 | 296.6 | 294.0 | 300.8 | 303.1 | 300.8 | 294.0 | 296.6 | 295.1 | 296.4 | 296.4 |
| 167.5° | 294.0 | 292.4 | 293.0 | 298.7 | 300.8 | 298.7 | 293.0 | 292.4 | 294.0 | 295.3 | 295.3 |
| 170° | 291.1 | 291.4 | 290.5 | 296.1 | 298.2 | 296.1 | 290.5 | 291.4 | 291.1 | 292.7 | 294.0 |
| 172.5° | 292.1 | 292.1 | 289.7 | 293.7 | 297.5 | 293.7 | 289.7 | 292.1 | 292.1 | 293.3 | 294.9 |
| 175° | 292.6 | 291.3 | 290.3 | 292.7 | 296.4 | 292.7 | 290.3 | 291.3 | 292.6 | 292.4 | 292.4 |
| 177.5° | 291.0 | 291.6 | 292.2 | 294.6 | 299.9 | 294.6 | 292.2 | 291.6 | 291.0 | 292.4 | 292.4 |
| 180° | 291.6 | 291.6 | 291.6 | 291.6 | 291.6 | 291.6 | 291.6 | 291.6 | 291.6 | 291.6 | 291.6 |



TEST NUMBER: P1433743

CATALOG NUMBER: EHBR1-18-UNV-TASM-L940-UPL30

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|--------|---------|---------|---------|---------|---------|---------|
| 0° | 15290.9 | 15290.9 | 15290.9 | 15290.9 | 15290.9 | 15290.9 |
| 2.5° | 14846.8 | 14837.0 | 14846.8 | 14950.6 | 15085.6 | 15282.0 |
| 5° | 14501.8 | 14448.0 | 14501.8 | 14616.8 | 14864.9 | 15238.7 |
| 7.5° | 14100.1 | 14068.9 | 14100.1 | 14292.6 | 14605.9 | 15135.2 |
| 10° | 13677.2 | 13606.4 | 13677.2 | 13894.6 | 14264.2 | 14977.2 |
| 12.5° | 13156.0 | 13062.1 | 13156.0 | 13380.5 | 13846.7 | 14725.2 |
| 15° | 12493.0 | 12410.7 | 12493.0 | 12742.2 | 13282.9 | 14352.5 |
| 17.5° | 11781.7 | 11707.1 | 11781.7 | 11998.1 | 12593.6 | 13827.2 |
| 20° | 10888.2 | 10829.7 | 10888.2 | 11194.5 | 11778.8 | 13150.2 |
| 22.5° | 9950.9 | 9896.1 | 9950.9 | 10223.0 | 10831.1 | 12301.5 |
| 25° | 8848.1 | 8818.3 | 8848.1 | 9152.0 | 9702.0 | 11308.9 |
| 27.5° | 7656.5 | 7605.8 | 7656.5 | 7974.5 | 8536.2 | 10141.2 |
| 30° | 6439.1 | 6355.0 | 6439.1 | 6723.5 | 7226.4 | 8844.4 |
| 32.5° | 5248.2 | 5187.8 | 5248.2 | 5451.0 | 5976.5 | 7392.4 |
| 35° | 4097.4 | 4036.8 | 4097.4 | 4280.5 | 4796.7 | 6052.8 |
| 37.5° | 3192.8 | 3085.8 | 3192.8 | 3310.2 | 3729.2 | 4750.2 |
| 40° | 2421.4 | 2404.2 | 2421.4 | 2569.4 | 2837.4 | 3695.7 |
| 42.5° | 1971.3 | 1924.5 | 1971.3 | 2034.9 | 2235.6 | 2800.2 |
| 45° | 1617.4 | 1599.1 | 1617.4 | 1665.6 | 1800.4 | 2188.9 |
| 47.5° | 1390.9 | 1399.0 | 1390.9 | 1421.9 | 1522.8 | 1782.6 |
| 50° | 1222.0 | 1226.9 | 1222.0 | 1236.7 | 1304.0 | 1497.2 |
| 52.5° | 1097.6 | 1093.3 | 1097.6 | 1099.1 | 1140.9 | 1286.2 |
| 55° | 987.5 | 982.0 | 987.5 | 984.4 | 1015.3 | 1108.5 |
| 57.5° | 891.1 | 895.1 | 891.1 | 886.8 | 903.5 | 973.5 |
| 60° | 805.1 | 808.9 | 805.1 | 802.0 | 812.9 | 853.9 |
| 62.5° | 732.6 | 734.9 | 732.6 | 732.3 | 730.3 | 761.8 |
| 65° | 667.8 | 670.4 | 667.8 | 664.4 | 661.2 | 675.8 |
| 67.5° | 605.8 | 605.8 | 605.8 | 599.8 | 594.9 | 609.3 |
| 70° | 547.6 | 547.3 | 547.6 | 537.9 | 534.2 | 538.5 |
| 72.5° | 477.7 | 484.5 | 477.7 | 470.5 | 470.2 | 470.8 |
| 75° | 409.7 | 417.8 | 409.7 | 405.2 | 400.0 | 404.2 |
| 77.5° | 340.9 | 353.3 | 340.9 | 337.2 | 334.6 | 331.8 |
| 80° | 270.4 | 283.9 | 270.4 | 264.1 | 260.4 | 265.2 |
| 82.5° | 199.8 | 209.9 | 199.8 | 192.1 | 191.8 | 194.2 |
| 85° | 119.0 | 135.1 | 119.0 | 112.1 | 114.7 | 112.1 |
| 87.5° | 38.1 | 48.7 | 38.1 | 36.4 | 40.2 | 39.3 |
| 90° | 33.4 | 20.8 | 33.4 | 57.1 | 36.6 | 20.8 |
| 92.5° | 50.8 | 30.3 | 50.8 | 91.9 | 47.6 | 27.1 |
| 95° | 58.7 | 35.0 | 58.7 | 128.1 | 63.4 | 40.1 |
| 97.5° | 65.0 | 44.7 | 65.0 | 147.1 | 77.6 | 62.1 |
| 100° | 76.0 | 59.0 | 76.0 | 229.2 | 95.3 | 82.6 |
| 102.5° | 161.3 | 100.0 | 161.3 | 486.4 | 179.0 | 125.3 |
| 105° | 339.7 | 172.6 | 339.7 | 866.9 | 374.7 | 227.9 |
| 107.5° | 608.0 | 298.9 | 608.0 | 1143.4 | 663.5 | 431.4 |
| 110° | 806.9 | 557.8 | 806.9 | 1198.7 | 911.3 | 690.3 |



TEST NUMBER: P1433743

CATALOG NUMBER: EHBR1-18-UNV-TASM-L940-UPL30

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|--------|--------|-------|--------|--------|--------|-------|
| 112.5° | 866.9 | 753.5 | 866.9 | 1148.2 | 1006.1 | 898.8 |
| 115° | 833.7 | 792.9 | 833.7 | 1025.0 | 982.4 | 976.4 |
| 117.5° | 761.2 | 766.1 | 761.2 | 870.3 | 883.2 | 943.2 |
| 120° | 677.5 | 709.3 | 677.5 | 726.7 | 771.1 | 851.6 |
| 122.5° | 600.4 | 638.3 | 600.4 | 622.8 | 656.2 | 736.7 |
| 125° | 534.1 | 572.2 | 534.1 | 548.8 | 557.0 | 624.7 |
| 127.5° | 488.3 | 513.9 | 488.3 | 496.8 | 487.5 | 530.2 |
| 130° | 452.3 | 474.4 | 452.3 | 463.9 | 442.1 | 462.6 |
| 132.5° | 427.3 | 441.5 | 427.3 | 440.9 | 414.3 | 420.4 |
| 135° | 405.5 | 417.8 | 405.5 | 420.4 | 395.7 | 393.8 |
| 137.5° | 386.8 | 397.6 | 386.8 | 402.0 | 383.3 | 378.2 |
| 140° | 370.1 | 379.3 | 370.1 | 386.4 | 372.3 | 369.1 |
| 142.5° | 353.0 | 359.3 | 353.0 | 372.6 | 363.1 | 359.9 |
| 145° | 341.0 | 345.7 | 341.0 | 361.8 | 356.7 | 355.4 |
| 147.5° | 330.5 | 333.6 | 330.5 | 349.5 | 347.6 | 347.6 |
| 150° | 320.0 | 323.2 | 320.0 | 338.7 | 336.8 | 338.4 |
| 152.5° | 309.2 | 312.7 | 309.2 | 326.3 | 324.4 | 326.0 |
| 155° | 301.9 | 305.3 | 301.9 | 315.8 | 315.3 | 315.5 |
| 157.5° | 297.8 | 299.9 | 297.8 | 308.5 | 308.2 | 308.2 |
| 160° | 293.9 | 295.8 | 293.9 | 303.1 | 302.8 | 301.5 |
| 162.5° | 289.7 | 291.6 | 289.7 | 300.5 | 298.9 | 298.9 |
| 165° | 288.7 | 289.0 | 288.7 | 296.4 | 296.4 | 295.1 |
| 167.5° | 287.4 | 289.0 | 287.4 | 295.3 | 295.3 | 294.0 |
| 170° | 287.7 | 288.0 | 287.7 | 294.0 | 292.7 | 291.1 |
| 172.5° | 288.3 | 288.5 | 288.3 | 294.9 | 293.3 | 292.1 |
| 175° | 287.3 | 287.6 | 287.3 | 292.4 | 292.4 | 292.6 |
| 177.5° | 289.2 | 289.5 | 289.2 | 292.4 | 292.4 | 291.0 |
| 180° | 291.6 | 291.6 | 291.6 | 291.6 | 291.6 | 291.6 |



TEST NUMBER: P1433743
 CATALOG NUMBER: EHBR1-18-UNV-TASM-L940-UPL30

CIE UGR TABLE:

| Reflectances: | | | | | | | | | | | |
|-----------------|------|------------------|-------|-------|-------|-------|----------------|-------|-------|-------|-------|
| Ceiling | | 0.7 | 0.7 | 0.5 | 0.5 | 0.3 | 0.7 | 0.7 | 0.5 | 0.5 | 0.3 |
| Wall | | 0.5 | 0.3 | 0.5 | 0.3 | 0.3 | 0.5 | 0.3 | 0.5 | 0.3 | 0.3 |
| Reference plane | | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| Room dimensions | | Viewed crosswise | | | | | Viewed endwise | | | | |
| X=2H | Y=2H | 14.88 | 15.89 | 15.49 | 16.48 | 17.14 | 14.20 | 15.21 | 14.80 | 15.80 | 16.45 |
| | 3H | 16.43 | 17.32 | 17.04 | 17.92 | 18.62 | 16.05 | 16.94 | 16.66 | 17.54 | 18.24 |
| | 4H | 17.06 | 17.90 | 17.70 | 18.51 | 19.23 | 16.82 | 17.66 | 17.46 | 18.28 | 18.99 |
| | 6H | 17.54 | 18.31 | 18.18 | 18.94 | 19.66 | 17.46 | 18.24 | 18.11 | 18.86 | 19.59 |
| | 8H | 17.69 | 18.42 | 18.35 | 19.06 | 19.79 | 17.68 | 18.41 | 18.34 | 19.06 | 19.79 |
| | 12H | 17.76 | 18.45 | 18.42 | 19.09 | 19.84 | 17.81 | 18.51 | 18.47 | 19.14 | 19.89 |
| 4H | 2H | 15.29 | 16.13 | 15.93 | 16.74 | 17.46 | 14.77 | 15.61 | 15.41 | 16.22 | 16.94 |
| | 3H | 17.08 | 17.78 | 17.73 | 18.43 | 19.16 | 16.82 | 17.52 | 17.47 | 18.17 | 18.90 |
| | 4H | 17.86 | 18.48 | 18.52 | 19.14 | 19.91 | 17.73 | 18.36 | 18.39 | 19.01 | 19.78 |
| | 6H | 18.47 | 19.01 | 19.15 | 19.69 | 20.47 | 18.50 | 19.04 | 19.18 | 19.72 | 20.50 |
| | 8H | 18.66 | 19.17 | 19.35 | 19.85 | 20.63 | 18.77 | 19.27 | 19.46 | 19.95 | 20.73 |
| | 12H | 18.77 | 19.21 | 19.47 | 19.92 | 20.71 | 18.93 | 19.38 | 19.64 | 20.09 | 20.87 |
| 8H | 4H | 18.10 | 18.61 | 18.79 | 19.29 | 20.07 | 18.00 | 18.51 | 18.69 | 19.19 | 19.97 |
| | 6H | 18.84 | 19.25 | 19.56 | 19.98 | 20.77 | 18.91 | 19.32 | 19.63 | 20.04 | 20.83 |
| | 8H | 19.11 | 19.48 | 19.85 | 20.21 | 21.01 | 19.26 | 19.63 | 20.00 | 20.36 | 21.16 |
| | 12H | 19.28 | 19.60 | 20.01 | 20.32 | 21.19 | 19.51 | 19.83 | 20.24 | 20.54 | 21.41 |
| 12H | 4H | 18.11 | 18.55 | 18.81 | 19.26 | 20.05 | 18.01 | 18.46 | 18.72 | 19.17 | 19.95 |
| | 6H | 18.89 | 19.25 | 19.62 | 19.98 | 20.79 | 18.95 | 19.32 | 19.69 | 20.05 | 20.85 |
| | 8H | 19.20 | 19.52 | 19.93 | 20.24 | 21.11 | 19.35 | 19.67 | 20.08 | 20.39 | 21.26 |

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

Report Prepared for

Cooper Lighting Solutions

Metalux

Report Number: SP1-2506-472-6

Test Date: 08/01/2025

Luminaire Tested: EHBR-60-L935-N

Data in this report applies to families of products including EHBR-60-L935-N

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2506-472-6
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 08/05/2025
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: Metalux
 Catalog Number: **EHBR-60-L935-N**
 Description: Elevate Round Highbay at, 60000 lumens, 3500K 90CRI LEDs with N lens

Spectral Parameters

CCT (K): 3406
 CIE u': 0.2394
 CIE v': 0.5094
 Duv: -0.0028
 CIE x: 0.4076
 CIE y: 0.3856
 CIE z: 0.2068
 Peak Wavelength (nm): 630
 Dominant Wavelength (nm): 582
 Purity: 38.0517
 Rf: 91.3
 Rg: 100

| | | | |
|-----------|------|------|------|
| CRI (Ra): | 94.6 | | |
| R1: | 96.6 | R9: | 63.8 |
| R2: | 98.4 | R10: | 94.7 |
| R3: | 98.1 | R11: | 96.6 |
| R4: | 95.8 | R12: | 80.9 |
| R5: | 96.2 | R13: | 97.4 |
| R6: | 95.4 | R14: | 98.3 |
| R7: | 91.8 | R15: | 93.1 |
| R8: | 84.4 | | |



Test Conditions

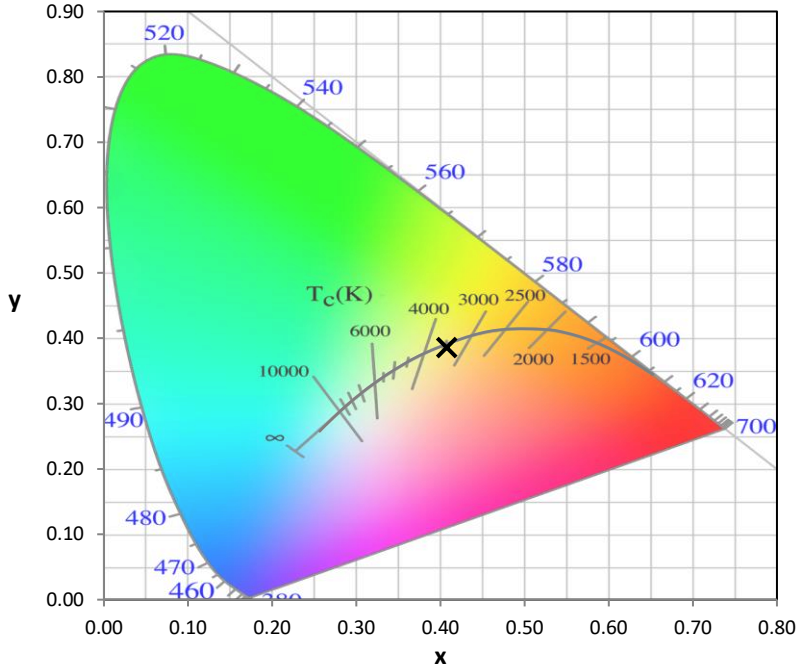
Stabilization Time: 35M
 Operation Time: 1H 35M
 Sphere Temperature (°C): 25.0

REPORT NUMBER: SP1-2506-472-6

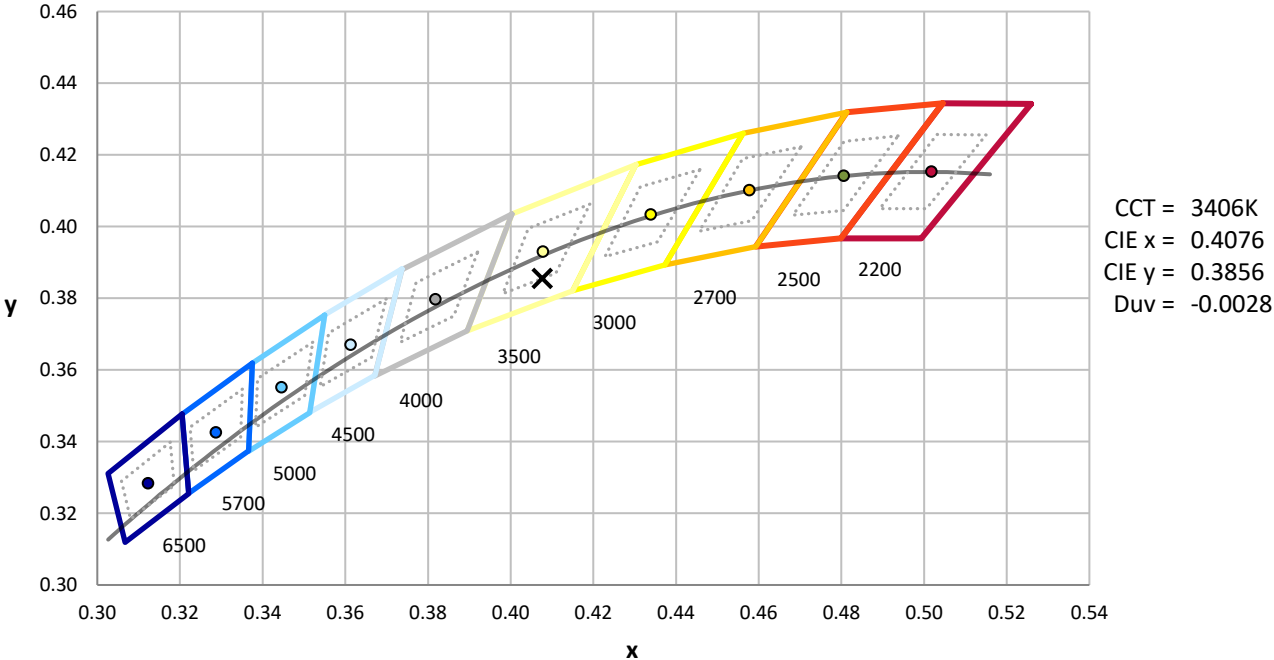
| Measurement and Test Equipment | | | |
|--------------------------------|-----------------------|------------------|----------------------|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | 76INCH SPHERE IN0058 | 6/16/2025 | 12/16/2025 |
| Power Meter | XITRON INXT2011004 | 1/21/2025 | 1/21/2026 |
| AC Power Source | CHROMA 61603 IN0063 | 10/22/2024 | 10/22/2025 |
| DC Power Source | AGILENT E3634A IN0208 | 10/22/2024 | 10/22/2025 |
| Sphere Thermometer | ONSET IN0085 | 10/22/2024 | 10/22/2025 |
| Room Thermometer | ONSET IN0046 | 10/22/2024 | 10/22/2025 |

REPORT NUMBER: SP1-2506-472-6

CIE 1931 Chromaticity Diagram



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



Point lies inside the ANSI 3500K 4-step quadrangle

REPORT NUMBER: SP1-2506-472-6

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 | 140 | NR | 620 | 338 | NR | 750 | 8 | NR | 880 | 0 | NR |
| 365 | 0 | NR | 495 | 159 | NR | 625 | 339 | NR | 755 | 7 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 182 | NR | 630 | 1000 | NR | 760 | 5 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 202 | NR | 635 | 653 | NR | 765 | 5 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 216 | NR | 640 | 222 | NR | 770 | 4 | NR | 900 | 0 | NR |
| 385 | 0 | NR | 515 | 228 | NR | 645 | 214 | NR | 775 | 3 | NR | 905 | 0 | NR |
| 390 | 0 | NR | 520 | 236 | NR | 650 | 185 | NR | 780 | 3 | NR | 910 | 0 | NR |
| 395 | 1 | NR | 525 | 242 | NR | 655 | 157 | NR | 785 | 3 | NR | 915 | 0 | NR |
| 400 | 2 | NR | 530 | 248 | NR | 660 | 133 | NR | 790 | 2 | NR | 920 | 0 | NR |
| 405 | 3 | NR | 535 | 253 | NR | 665 | 113 | NR | 795 | 2 | NR | 925 | 0 | NR |
| 410 | 4 | NR | 540 | 258 | NR | 670 | 103 | NR | 800 | 2 | NR | 930 | 0 | NR |
| 415 | 7 | NR | 545 | 264 | NR | 675 | 85 | NR | 805 | 1 | NR | 935 | 0 | NR |
| 420 | 13 | NR | 550 | 270 | NR | 680 | 72 | NR | 810 | 1 | NR | 940 | 0 | NR |
| 425 | 22 | NR | 555 | 278 | NR | 685 | 62 | NR | 815 | 1 | NR | 945 | 0 | NR |
| 430 | 38 | NR | 560 | 286 | NR | 690 | 53 | NR | 820 | 1 | NR | 950 | 0 | NR |
| 435 | 65 | NR | 565 | 295 | NR | 695 | 45 | NR | 825 | 1 | NR | 955 | 0 | NR |
| 440 | 108 | NR | 570 | 303 | NR | 700 | 39 | NR | 830 | 1 | NR | 960 | 0 | NR |
| 445 | 193 | NR | 575 | 311 | NR | 705 | 33 | NR | 835 | 1 | NR | 965 | 0 | NR |
| 450 | 312 | NR | 580 | 319 | NR | 710 | 28 | NR | 840 | 1 | NR | 970 | 0 | NR |
| 455 | 300 | NR | 585 | 326 | NR | 715 | 24 | NR | 845 | 0 | NR | 975 | 0 | NR |
| 460 | 214 | NR | 590 | 332 | NR | 720 | 20 | NR | 850 | 0 | NR | 980 | 0 | NR |
| 465 | 184 | NR | 595 | 333 | NR | 725 | 17 | NR | 855 | 0 | NR | 985 | 0 | NR |
| 470 | 153 | NR | 600 | 336 | NR | 730 | 15 | NR | 860 | 0 | NR | 990 | 0 | NR |
| 475 | 122 | NR | 605 | 337 | NR | 735 | 12 | NR | 865 | 0 | NR | 995 | 0 | NR |
| 480 | 115 | NR | 610 | 367 | NR | 740 | 10 | NR | 870 | 0 | NR | 1000 | 0 | NR |
| 485 | 125 | NR | 615 | 390 | NR | 745 | 9 | NR | 875 | 0 | NR | | | |

REPORT NUMBER: SP1-2506-472-6

Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

S/P: 1.62

| 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 | 140 | NR | 620 | 338 | NR | 750 | 8 | NR | 880 | 0 | NR |
| 365 | 0 | NR | 495 | 159 | NR | 625 | 339 | NR | 755 | 7 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 182 | NR | 630 | 1000 | NR | 760 | 5 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 202 | NR | 635 | 653 | NR | 765 | 5 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 216 | NR | 640 | 222 | NR | 770 | 4 | NR | 900 | 0 | NR |
| 385 | 0 | NR | 515 | 228 | NR | 645 | 214 | NR | 775 | 3 | NR | 905 | 0 | NR |
| 390 | 0 | NR | 520 | 236 | NR | 650 | 185 | NR | 780 | 3 | NR | 910 | 0 | NR |
| 395 | 1 | NR | 525 | 242 | NR | 655 | 157 | NR | 785 | 3 | NR | 915 | 0 | NR |
| 400 | 2 | NR | 530 | 248 | NR | 660 | 133 | NR | 790 | 2 | NR | 920 | 0 | NR |
| 405 | 3 | NR | 535 | 253 | NR | 665 | 113 | NR | 795 | 2 | NR | 925 | 0 | NR |
| 410 | 4 | NR | 540 | 258 | NR | 670 | 103 | NR | 800 | 2 | NR | 930 | 0 | NR |
| 415 | 7 | NR | 545 | 264 | NR | 675 | 85 | NR | 805 | 1 | NR | 935 | 0 | NR |
| 420 | 13 | NR | 550 | 270 | NR | 680 | 72 | NR | 810 | 1 | NR | 940 | 0 | NR |
| 425 | 22 | NR | 555 | 278 | NR | 685 | 62 | NR | 815 | 1 | NR | 945 | 0 | NR |
| 430 | 38 | NR | 560 | 286 | NR | 690 | 53 | NR | 820 | 1 | NR | 950 | 0 | NR |
| 435 | 65 | NR | 565 | 295 | NR | 695 | 45 | NR | 825 | 1 | NR | 955 | 0 | NR |
| 440 | 108 | NR | 570 | 303 | NR | 700 | 39 | NR | 830 | 1 | NR | 960 | 0 | NR |
| 445 | 193 | NR | 575 | 311 | NR | 705 | 33 | NR | 835 | 1 | NR | 965 | 0 | NR |
| 450 | 312 | NR | 580 | 319 | NR | 710 | 28 | NR | 840 | 1 | NR | 970 | 0 | NR |
| 455 | 300 | NR | 585 | 326 | NR | 715 | 24 | NR | 845 | 0 | NR | 975 | 0 | NR |
| 460 | 214 | NR | 590 | 332 | NR | 720 | 20 | NR | 850 | 0 | NR | 980 | 0 | NR |
| 465 | 184 | NR | 595 | 333 | NR | 725 | 17 | NR | 855 | 0 | NR | 985 | 0 | NR |
| 470 | 153 | NR | 600 | 336 | NR | 730 | 15 | NR | 860 | 0 | NR | 990 | 0 | NR |
| 475 | 122 | NR | 605 | 337 | NR | 735 | 12 | NR | 865 | 0 | NR | 995 | 0 | NR |
| 480 | 115 | NR | 610 | 367 | NR | 740 | 10 | NR | 870 | 0 | NR | 1000 | 0 | NR |
| 485 | 125 | NR | 615 | 390 | NR | 745 | 9 | NR | 875 | 0 | NR | | | |

REPORT NUMBER: SP1-2506-472-6

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 3.3

| 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 | 140 | NR | 620 | 338 | NR | 750 | 8 | NR | 880 | 0 | NR |
| 365 | 0 | NR | 495 | 159 | NR | 625 | 339 | NR | 755 | 7 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 182 | NR | 630 | 1000 | NR | 760 | 5 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 202 | NR | 635 | 653 | NR | 765 | 5 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 216 | NR | 640 | 222 | NR | 770 | 4 | NR | 900 | 0 | NR |
| 385 | 0 | NR | 515 | 228 | NR | 645 | 214 | NR | 775 | 3 | NR | 905 | 0 | NR |
| 390 | 0 | NR | 520 | 236 | NR | 650 | 185 | NR | 780 | 3 | NR | 910 | 0 | NR |
| 395 | 1 | NR | 525 | 242 | NR | 655 | 157 | NR | 785 | 3 | NR | 915 | 0 | NR |
| 400 | 2 | NR | 530 | 248 | NR | 660 | 133 | NR | 790 | 2 | NR | 920 | 0 | NR |
| 405 | 3 | NR | 535 | 253 | NR | 665 | 113 | NR | 795 | 2 | NR | 925 | 0 | NR |
| 410 | 4 | NR | 540 | 258 | NR | 670 | 103 | NR | 800 | 2 | NR | 930 | 0 | NR |
| 415 | 7 | NR | 545 | 264 | NR | 675 | 85 | NR | 805 | 1 | NR | 935 | 0 | NR |
| 420 | 13 | NR | 550 | 270 | NR | 680 | 72 | NR | 810 | 1 | NR | 940 | 0 | NR |
| 425 | 22 | NR | 555 | 278 | NR | 685 | 62 | NR | 815 | 1 | NR | 945 | 0 | NR |
| 430 | 38 | NR | 560 | 286 | NR | 690 | 53 | NR | 820 | 1 | NR | 950 | 0 | NR |
| 435 | 65 | NR | 565 | 295 | NR | 695 | 45 | NR | 825 | 1 | NR | 955 | 0 | NR |
| 440 | 108 | NR | 570 | 303 | NR | 700 | 39 | NR | 830 | 1 | NR | 960 | 0 | NR |
| 445 | 193 | NR | 575 | 311 | NR | 705 | 33 | NR | 835 | 1 | NR | 965 | 0 | NR |
| 450 | 312 | NR | 580 | 319 | NR | 710 | 28 | NR | 840 | 1 | NR | 970 | 0 | NR |
| 455 | 300 | NR | 585 | 326 | NR | 715 | 24 | NR | 845 | 0 | NR | 975 | 0 | NR |
| 460 | 214 | NR | 590 | 332 | NR | 720 | 20 | NR | 850 | 0 | NR | 980 | 0 | NR |
| 465 | 184 | NR | 595 | 333 | NR | 725 | 17 | NR | 855 | 0 | NR | 985 | 0 | NR |
| 470 | 153 | NR | 600 | 336 | NR | 730 | 15 | NR | 860 | 0 | NR | 990 | 0 | NR |
| 475 | 122 | NR | 605 | 337 | NR | 735 | 12 | NR | 865 | 0 | NR | 995 | 0 | NR |
| 480 | 115 | NR | 610 | 367 | NR | 740 | 10 | NR | 870 | 0 | NR | 1000 | 0 | NR |
| 485 | 125 | NR | 615 | 390 | NR | 745 | 9 | NR | 875 | 0 | NR | | | |

Summary

$R_f = 91.3$
 $R_g = 100$
 $CIE R_a = 94.6$
 $R_9 = 63.8$



Color Vector Graphics



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

| | | | |
|------------|------------|------------|------------|
| CES01 = 86 | CES26 = 94 | CES51 = 97 | CES76 = 90 |
| CES02 = 63 | CES27 = 92 | CES52 = 98 | CES77 = 86 |
| CES03 = 31 | CES28 = 97 | CES53 = 98 | CES78 = 86 |
| CES04 = 70 | CES29 = 97 | CES54 = 93 | CES79 = 90 |
| CES05 = 50 | CES30 = 92 | CES55 = 92 | CES80 = 91 |
| CES06 = 51 | CES31 = 97 | CES56 = 96 | CES81 = 74 |
| CES07 = 43 | CES32 = 89 | CES57 = 94 | CES82 = 96 |
| CES08 = 41 | CES33 = 99 | CES58 = 95 | CES83 = 94 |
| CES09 = 29 | CES34 = 94 | CES59 = 98 | CES84 = 95 |
| CES10 = 75 | CES35 = 97 | CES60 = 92 | CES85 = 79 |
| CES11 = 58 | CES36 = 81 | CES61 = 93 | CES86 = 79 |
| CES12 = 64 | CES37 = 96 | CES62 = 86 | CES87 = 92 |
| CES13 = 44 | CES38 = 87 | CES63 = 94 | CES88 = 98 |
| CES14 = 74 | CES39 = 99 | CES64 = 91 | CES89 = 84 |
| CES15 = 72 | CES40 = 97 | CES65 = 90 | CES90 = 96 |
| CES16 = 48 | CES41 = 96 | CES66 = 89 | CES91 = 75 |
| CES17 = 49 | CES42 = 94 | CES67 = 88 | CES92 = 76 |
| CES18 = 56 | CES43 = 93 | CES68 = 89 | CES93 = 86 |
| CES19 = 71 | CES44 = 99 | CES69 = 90 | CES94 = 74 |
| CES20 = 67 | CES45 = 97 | CES70 = 88 | CES95 = 83 |
| CES21 = 86 | CES46 = 97 | CES71 = 83 | CES96 = 92 |
| CES22 = 78 | CES47 = 91 | CES72 = 94 | CES97 = 96 |
| CES23 = 91 | CES48 = 91 | CES73 = 83 | CES98 = 95 |
| CES24 = 90 | CES49 = 96 | CES74 = 90 | CES99 = 92 |
| CES25 = 71 | CES50 = 98 | CES75 = 85 | |



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)