

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: P1433221

Luminaire Tested: EHBR1-36-UNV-TASM-L930-UPL24

Issue Date: 3/20/2026

Test Information

Test Method: LM-79-2019
Report Number: P1433221
REPORT IS A COMBINATION OF REPORTS P1431775 AND P1431635
Test Lab: INNOVATION CENTER
Issue Date: 3/20/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: EHBR1-36-UNV-TASM-L930-UPL24
Description: Elevate Round Highbay at, 36000 lumens, 3000K 90CRI LEDs with TASM lens
Light Source: -
Ballast/Driver: -

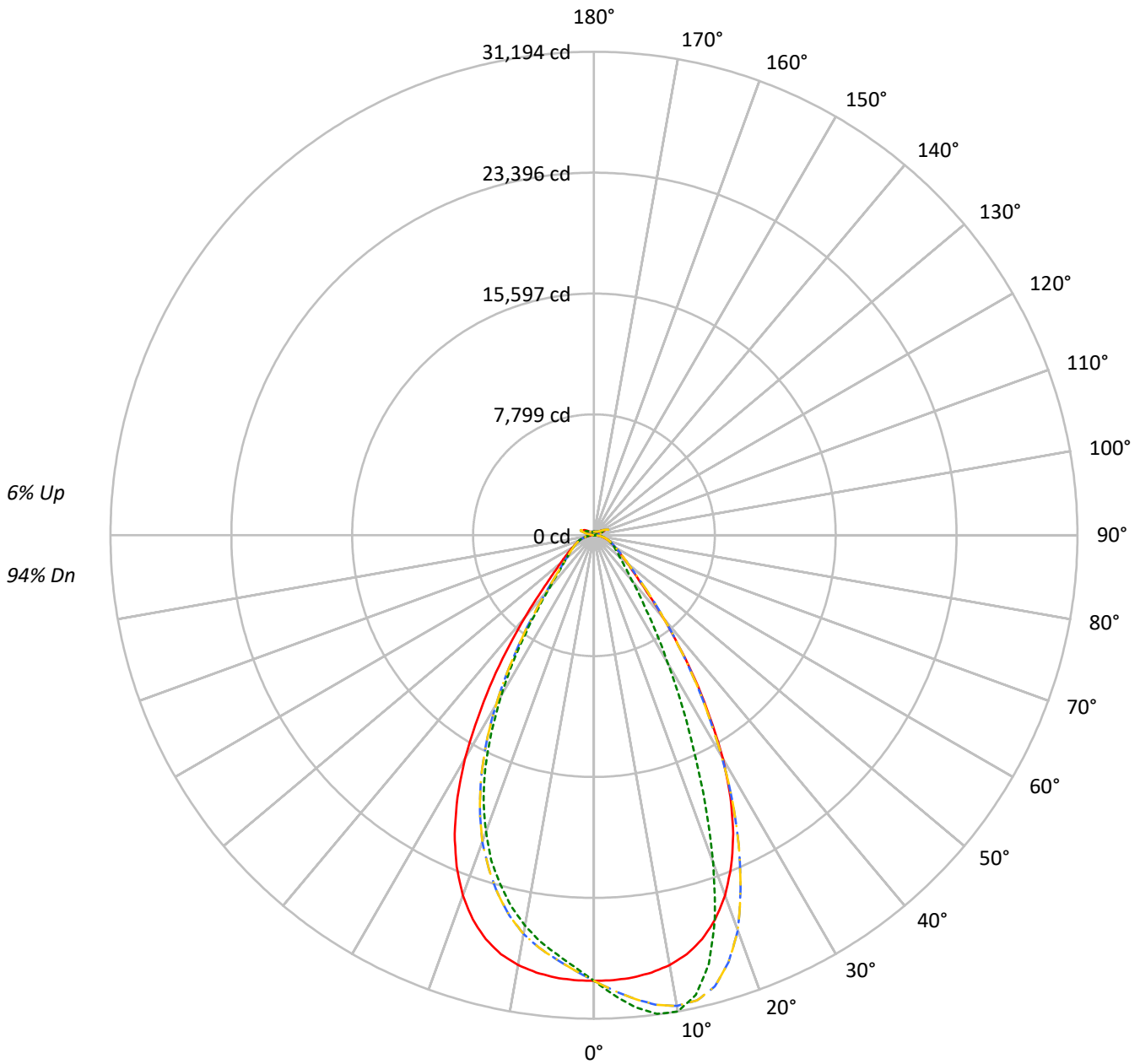
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34312.4 lumens
Efficiency: N/A
Efficacy: 165.0 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: Direct

Input Watts (W): 207.9
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: P1433221
CATALOG NUMBER: EHBR1-36-UNV-TASM-L930-UPL24

Luminous Intensity Polar Plot



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



TEST NUMBER: P1433221
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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 | 118 | 118 | 118 | 118 | 114 | 114 | 114 | 114 | 108 | 108 | 108 | 102 | 102 | 102 | 96 | 96 | 96 | 96 | 96 | 96 | 94 |
| 1 | 110 | 107 | 104 | 101 | 107 | 104 | 101 | 99 | 99 | 97 | 95 | 94 | 92 | 91 | 89 | 88 | 87 | 87 | 87 | 87 | 85 |
| 2 | 103 | 97 | 92 | 88 | 100 | 95 | 91 | 87 | 91 | 87 | 84 | 87 | 84 | 81 | 83 | 81 | 78 | 78 | 78 | 78 | 76 |
| 3 | 97 | 89 | 83 | 78 | 94 | 87 | 82 | 77 | 84 | 79 | 75 | 80 | 76 | 73 | 77 | 74 | 71 | 71 | 71 | 71 | 69 |
| 4 | 91 | 82 | 75 | 70 | 89 | 80 | 74 | 70 | 77 | 72 | 68 | 74 | 70 | 67 | 72 | 68 | 65 | 65 | 65 | 65 | 63 |
| 5 | 86 | 76 | 69 | 64 | 83 | 74 | 68 | 63 | 72 | 66 | 62 | 69 | 65 | 61 | 67 | 63 | 60 | 60 | 60 | 60 | 58 |
| 6 | 81 | 70 | 63 | 58 | 79 | 69 | 63 | 58 | 67 | 61 | 57 | 65 | 60 | 56 | 63 | 59 | 55 | 55 | 55 | 55 | 54 |
| 7 | 76 | 66 | 59 | 54 | 74 | 65 | 58 | 53 | 63 | 57 | 53 | 61 | 56 | 52 | 59 | 55 | 51 | 51 | 51 | 51 | 50 |
| 8 | 72 | 61 | 55 | 50 | 70 | 60 | 54 | 50 | 59 | 53 | 49 | 57 | 52 | 48 | 56 | 51 | 48 | 48 | 48 | 48 | 46 |
| 9 | 68 | 57 | 51 | 46 | 67 | 57 | 50 | 46 | 55 | 50 | 46 | 54 | 49 | 45 | 52 | 48 | 45 | 45 | 45 | 45 | 43 |
| 10 | 65 | 54 | 48 | 43 | 63 | 53 | 47 | 43 | 52 | 46 | 43 | 51 | 46 | 42 | 50 | 45 | 42 | 42 | 42 | 42 | 40 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° | 270° |
|-----|--------|--------|--------|--------|
| 0° | 135002 | 135002 | 135002 | 135002 |
| 5° | 134180 | 143145 | 134180 | 127217 |
| 10° | 132531 | 146820 | 132531 | 120400 |
| 15° | 128618 | 136442 | 128618 | 111217 |
| 20° | 120290 | 109408 | 120290 | 99063 |
| 25° | 106466 | 75804 | 106466 | 83019 |
| 30° | 86447 | 49316 | 86447 | 62115 |
| 35° | 62002 | 31938 | 62002 | 41352 |
| 40° | 40086 | 22014 | 40086 | 26078 |
| 45° | 25435 | 17052 | 25435 | 18581 |
| 50° | 18888 | 14490 | 18888 | 15477 |
| 55° | 15421 | 13200 | 15421 | 13662 |
| 60° | 13353 | 12574 | 13353 | 12650 |
| 65° | 12173 | 12126 | 12173 | 12074 |
| 70° | 11537 | 11881 | 11537 | 11728 |
| 75° | 10790 | 11494 | 10790 | 11151 |
| 80° | 9478 | 10852 | 9478 | 10145 |
| 85° | 6133 | 7748 | 6133 | 7387 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 35759 cd/sqm



TEST NUMBER: P1433221
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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 2733.5 | 8.0 |
| 10°-20° | 7436.6 | 21.7 |
| 20°-30° | 8721.6 | 25.4 |
| 30°-40° | 6065.3 | 17.7 |
| 40°-50° | 3014.2 | 8.8 |
| 50°-60° | 1802.8 | 5.3 |
| 60°-70° | 1268.9 | 3.7 |
| 70°-80° | 817.4 | 2.4 |
| 80°-90° | 263.5 | 0.8 |
| 90°-100° | 58.6 | 0.2 |
| 100°-110° | 379.7 | 1.1 |
| 110°-120° | 701.0 | 2.0 |
| 120°-130° | 417.0 | 1.2 |
| 130°-140° | 252.8 | 0.7 |
| 140°-150° | 175.5 | 0.5 |
| 150°-160° | 115.2 | 0.3 |
| 160°-170° | 66.7 | 0.2 |
| 170°-180° | 22.3 | 0.1 |
| 0°-30° | 18891.6 | 55.1 |
| 0°-40° | 24956.9 | 72.7 |
| 0°-60° | 29773.9 | 86.8 |
| 0°-90° | 32123.6 | 93.6 |
| 90°-120° | 1139.3 | 3.3 |
| 90°-150° | 1984.6 | 5.8 |
| 90°-180° | 2189.0 | 6.4 |
| 0°-180° | 34312.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 90° | 180° | 270° | 360° | Flux |
|------|-------|-------|-------|-------|-------|------|
| 0° | 28748 | 28748 | 28748 | 28748 | 28748 | |
| 5° | 28650 | 30564 | 28650 | 27163 | 28650 | 2719 |
| 15° | 26983 | 28625 | 26983 | 23333 | 26983 | 7541 |
| 25° | 21261 | 15138 | 21261 | 16579 | 21261 | 9626 |
| 35° | 11380 | 5862 | 11380 | 7590 | 11380 | 7104 |
| 45° | 4115 | 2759 | 4115 | 3006 | 4115 | 3367 |
| 55° | 2084 | 1784 | 2084 | 1846 | 2084 | 1906 |
| 65° | 1271 | 1266 | 1271 | 1260 | 1271 | 1276 |
| 75° | 760 | 810 | 760 | 786 | 760 | 798 |
| 85° | 211 | 266 | 211 | 254 | 211 | 234 |
| 90° | 16 | 20 | 16 | 16 | 16 | 17 |
| 95° | 31 | 31 | 31 | 27 | 31 | 33 |
| 105° | 174 | 90 | 174 | 132 | 174 | 235 |
| 115° | 746 | 638 | 746 | 606 | 746 | 680 |
| 125° | 478 | 502 | 478 | 438 | 478 | 440 |
| 135° | 303 | 350 | 303 | 320 | 303 | 240 |
| 145° | 275 | 288 | 275 | 267 | 275 | 172 |
| 155° | 246 | 257 | 246 | 239 | 246 | 115 |
| 165° | 234 | 242 | 234 | 230 | 234 | 66 |
| 175° | 234 | 240 | 234 | 230 | 234 | 22 |
| 180° | 234 | 234 | 234 | 234 | 234 | |



TEST NUMBER: P1433221
 CATALOG NUMBER: EHBR1-36-UNV-TASM-L930-UPL24

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 28747.7 | 28747.7 | 28747.7 | 28747.7 | 28747.7 | 28747.7 | 28747.7 | 28747.7 | 28747.7 | 28747.7 | 28747.7 |
| 2.5° | 28731.0 | 29102.4 | 29403.2 | 29601.6 | 29699.6 | 29601.6 | 29403.2 | 29102.4 | 28731.0 | 28361.7 | 28107.8 |
| 5° | 28649.6 | 29393.5 | 30023.7 | 30436.1 | 30563.8 | 30436.1 | 30023.7 | 29393.5 | 28649.6 | 27946.7 | 27480.4 |
| 7.5° | 28455.0 | 29614.0 | 30550.3 | 31031.7 | 31149.3 | 31031.7 | 30550.3 | 29614.0 | 28455.0 | 27459.9 | 26870.7 |
| 10° | 28158.0 | 29753.0 | 30835.0 | 31179.9 | 31194.0 | 31179.9 | 30835.0 | 29753.0 | 28158.0 | 26817.3 | 26122.4 |
| 12.5° | 27684.2 | 29703.5 | 30739.5 | 30626.3 | 30369.2 | 30626.3 | 30739.5 | 29703.5 | 27684.2 | 26032.4 | 25155.9 |
| 15° | 26983.4 | 29409.7 | 30135.2 | 29214.0 | 28624.8 | 29214.0 | 30135.2 | 29409.7 | 26983.4 | 24972.7 | 23956.0 |
| 17.5° | 25995.8 | 28859.8 | 28873.8 | 27051.3 | 25939.7 | 27051.3 | 28873.8 | 28859.8 | 25995.8 | 23676.7 | 22557.1 |
| 20° | 24723.1 | 27978.0 | 27137.0 | 23803.4 | 22486.5 | 23803.4 | 27137.0 | 27978.0 | 24723.1 | 22144.7 | 21046.1 |
| 22.5° | 23127.4 | 26788.7 | 24718.2 | 20536.1 | 18739.4 | 20536.1 | 24718.2 | 26788.7 | 23127.4 | 20363.1 | 19219.8 |
| 25° | 21261.2 | 25331.6 | 22116.1 | 16976.2 | 15138.0 | 16976.2 | 22116.1 | 25331.6 | 21261.2 | 18240.3 | 17206.4 |
| 27.5° | 19066.1 | 23484.8 | 19345.4 | 13872.3 | 12176.4 | 13872.3 | 19345.4 | 23484.8 | 19066.1 | 16048.5 | 14992.5 |
| 30° | 16628.0 | 21117.3 | 16461.9 | 11047.6 | 9485.9 | 11047.6 | 16461.9 | 21117.3 | 16628.0 | 13586.1 | 12640.5 |
| 32.5° | 13898.1 | 18796.6 | 13692.7 | 8852.0 | 7529.1 | 8852.0 | 13692.7 | 18796.6 | 13898.1 | 11236.2 | 10248.1 |
| 35° | 11379.6 | 15893.2 | 11195.8 | 6955.5 | 5861.7 | 6955.5 | 11195.8 | 15893.2 | 11379.6 | 9018.0 | 8047.7 |
| 37.5° | 8930.6 | 13149.9 | 8924.8 | 5600.9 | 4754.5 | 5600.9 | 8924.8 | 13149.9 | 8930.6 | 7011.0 | 6223.5 |
| 40° | 6948.0 | 10282.1 | 6992.7 | 4471.0 | 3815.5 | 4471.0 | 6992.7 | 10282.1 | 6948.0 | 5334.5 | 4830.5 |
| 42.5° | 5264.5 | 7862.3 | 5496.3 | 3669.4 | 3240.8 | 3669.4 | 5496.3 | 7862.3 | 5264.5 | 4203.1 | 3825.8 |
| 45° | 4115.2 | 5785.7 | 4292.0 | 3095.8 | 2759.0 | 3095.8 | 4292.0 | 5785.7 | 4115.2 | 3384.8 | 3131.4 |
| 47.5° | 3351.4 | 4471.6 | 3478.6 | 2655.4 | 2419.4 | 2655.4 | 3478.6 | 4471.6 | 3351.4 | 2863.0 | 2673.2 |
| 50° | 2815.0 | 3431.2 | 2888.3 | 2317.9 | 2159.5 | 2317.9 | 2888.3 | 3431.2 | 2815.0 | 2451.6 | 2325.0 |
| 52.5° | 2418.2 | 2798.3 | 2459.7 | 2065.7 | 1959.0 | 2065.7 | 2459.7 | 2798.3 | 2418.2 | 2145.0 | 2066.2 |
| 55° | 2084.0 | 2352.4 | 2139.0 | 1857.6 | 1783.8 | 1857.6 | 2139.0 | 2352.4 | 2084.0 | 1908.8 | 1850.6 |
| 57.5° | 1830.1 | 1995.6 | 1857.6 | 1680.2 | 1631.2 | 1680.2 | 1857.6 | 1995.6 | 1830.1 | 1698.6 | 1667.3 |
| 60° | 1605.3 | 1728.3 | 1639.3 | 1525.5 | 1511.6 | 1525.5 | 1639.3 | 1728.3 | 1605.3 | 1528.2 | 1507.7 |
| 62.5° | 1432.3 | 1509.9 | 1449.5 | 1386.4 | 1374.0 | 1386.4 | 1449.5 | 1509.9 | 1432.3 | 1373.0 | 1376.8 |
| 65° | 1270.6 | 1342.8 | 1295.4 | 1261.4 | 1265.7 | 1261.4 | 1295.4 | 1342.8 | 1270.6 | 1243.1 | 1249.0 |
| 67.5° | 1145.5 | 1183.3 | 1162.8 | 1143.3 | 1148.2 | 1143.3 | 1162.8 | 1183.3 | 1145.5 | 1118.6 | 1127.7 |
| 70° | 1012.3 | 1052.8 | 1031.8 | 1034.4 | 1042.5 | 1034.4 | 1031.8 | 1052.8 | 1012.3 | 1004.3 | 1011.3 |
| 72.5° | 885.2 | 916.4 | 909.4 | 915.8 | 924.5 | 915.8 | 909.4 | 916.4 | 885.2 | 884.1 | 884.6 |
| 75° | 760.1 | 783.8 | 787.1 | 796.2 | 809.7 | 796.2 | 787.1 | 783.8 | 760.1 | 752.0 | 761.7 |
| 77.5° | 623.7 | 650.6 | 660.9 | 673.3 | 693.2 | 673.3 | 660.9 | 650.6 | 623.7 | 629.1 | 634.0 |
| 80° | 498.6 | 511.1 | 533.7 | 542.8 | 570.9 | 542.8 | 533.7 | 511.1 | 498.6 | 489.5 | 496.5 |
| 82.5° | 364.9 | 376.2 | 395.7 | 413.0 | 429.1 | 413.0 | 395.7 | 376.2 | 364.9 | 360.6 | 361.2 |
| 85° | 210.8 | 228.0 | 241.0 | 261.5 | 266.3 | 261.5 | 241.0 | 228.0 | 210.8 | 215.7 | 210.8 |
| 87.5° | 73.9 | 79.2 | 90.5 | 98.6 | 99.2 | 98.6 | 90.5 | 79.2 | 73.9 | 75.5 | 68.4 |
| 90° | 16.2 | 27.5 | 47.4 | 27.3 | 20.0 | 27.3 | 47.4 | 27.5 | 16.2 | 28.2 | 43.9 |
| 92.5° | 21.0 | 37.2 | 66.7 | 35.7 | 25.9 | 35.7 | 66.7 | 37.2 | 21.0 | 36.6 | 70.4 |
| 95° | 31.2 | 45.6 | 84.7 | 39.3 | 30.7 | 39.3 | 84.7 | 45.6 | 31.2 | 48.7 | 98.1 |
| 97.5° | 48.0 | 56.5 | 95.5 | 41.8 | 36.8 | 41.8 | 95.5 | 56.5 | 48.0 | 59.5 | 112.6 |
| 100° | 63.7 | 63.7 | 173.9 | 47.8 | 41.6 | 47.8 | 173.9 | 63.7 | 63.7 | 73.3 | 175.2 |
| 102.5° | 96.2 | 124.5 | 402.0 | 94.1 | 50.1 | 94.1 | 402.0 | 124.5 | 96.2 | 137.1 | 371.5 |
| 105° | 174.5 | 283.5 | 706.8 | 239.8 | 90.4 | 239.8 | 706.8 | 283.5 | 174.5 | 286.5 | 661.8 |
| 107.5° | 329.9 | 527.9 | 910.3 | 471.1 | 207.2 | 471.1 | 910.3 | 527.9 | 329.9 | 507.0 | 873.0 |
| 110° | 527.4 | 737.5 | 993.4 | 644.5 | 416.7 | 644.5 | 993.4 | 737.5 | 527.4 | 696.1 | 915.2 |



TEST NUMBER: P1433221

CATALOG NUMBER: EHBR1-36-UNV-TASM-L930-UPL24

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|--------|-------|-------|-------|-------|-------|--------|-------|--------|-------|--------|-------|
| 112.5° | 686.4 | 821.8 | 970.5 | 714.3 | 575.7 | 714.3 | 970.5 | 821.8 | 686.4 | 768.3 | 876.7 |
| 115° | 746.0 | 809.8 | 866.9 | 711.9 | 638.3 | 711.9 | 866.9 | 809.8 | 746.0 | 750.3 | 782.8 |
| 117.5° | 720.7 | 741.2 | 748.9 | 668.6 | 642.0 | 668.6 | 748.9 | 741.2 | 720.7 | 674.9 | 664.7 |
| 120° | 650.8 | 642.3 | 631.4 | 604.7 | 605.8 | 604.7 | 631.4 | 642.3 | 650.8 | 589.4 | 555.1 |
| 122.5° | 563.4 | 545.4 | 533.8 | 540.2 | 556.4 | 540.2 | 533.8 | 545.4 | 563.4 | 502.0 | 476.1 |
| 125° | 477.9 | 459.8 | 465.7 | 484.9 | 501.5 | 484.9 | 465.7 | 459.8 | 477.9 | 426.7 | 420.1 |
| 127.5° | 406.2 | 397.7 | 416.3 | 437.9 | 452.2 | 437.9 | 416.3 | 397.7 | 406.2 | 373.7 | 380.3 |
| 130° | 354.9 | 356.8 | 381.4 | 399.9 | 408.9 | 399.9 | 381.4 | 356.8 | 354.9 | 339.3 | 355.6 |
| 132.5° | 322.9 | 332.0 | 355.5 | 371.5 | 377.0 | 371.5 | 355.5 | 332.0 | 322.9 | 318.7 | 338.5 |
| 135° | 303.0 | 316.4 | 337.9 | 348.1 | 350.4 | 348.1 | 337.9 | 316.4 | 303.0 | 304.7 | 322.9 |
| 137.5° | 291.5 | 304.9 | 321.1 | 329.4 | 327.6 | 329.4 | 321.1 | 304.9 | 291.5 | 295.6 | 309.5 |
| 140° | 284.8 | 298.2 | 305.4 | 314.9 | 313.6 | 314.9 | 305.4 | 298.2 | 284.8 | 287.2 | 298.0 |
| 142.5° | 278.2 | 290.2 | 293.9 | 301.0 | 299.2 | 301.0 | 293.9 | 290.2 | 278.2 | 280.6 | 287.8 |
| 145° | 275.1 | 284.2 | 281.2 | 290.2 | 287.7 | 290.2 | 281.2 | 284.2 | 275.1 | 275.8 | 279.9 |
| 147.5° | 269.0 | 275.8 | 272.2 | 279.9 | 277.4 | 279.9 | 272.2 | 275.8 | 269.0 | 269.0 | 270.8 |
| 150° | 262.4 | 267.2 | 261.8 | 270.8 | 270.6 | 270.8 | 261.8 | 267.2 | 262.4 | 261.2 | 262.9 |
| 152.5° | 253.3 | 258.1 | 253.3 | 263.4 | 262.8 | 263.4 | 253.3 | 258.1 | 253.3 | 252.1 | 253.8 |
| 155° | 246.0 | 248.4 | 246.0 | 256.1 | 256.6 | 256.1 | 246.0 | 248.4 | 246.0 | 245.4 | 246.5 |
| 157.5° | 241.0 | 242.7 | 241.5 | 250.5 | 251.0 | 250.5 | 241.5 | 242.7 | 241.0 | 241.0 | 241.5 |
| 160° | 237.0 | 239.4 | 238.8 | 246.6 | 247.1 | 246.6 | 238.8 | 239.4 | 237.0 | 237.8 | 238.3 |
| 162.5° | 235.7 | 235.7 | 235.6 | 243.4 | 244.4 | 243.4 | 235.6 | 235.7 | 235.7 | 235.7 | 237.0 |
| 165° | 233.7 | 234.9 | 233.6 | 239.5 | 241.9 | 239.5 | 233.6 | 234.9 | 233.7 | 234.4 | 234.4 |
| 167.5° | 233.6 | 232.4 | 233.6 | 238.7 | 241.1 | 238.7 | 233.6 | 232.4 | 233.6 | 234.3 | 234.3 |
| 170° | 231.7 | 232.3 | 232.2 | 237.4 | 239.7 | 237.4 | 232.2 | 232.3 | 231.7 | 232.9 | 233.6 |
| 172.5° | 233.4 | 233.4 | 232.6 | 236.6 | 240.1 | 236.6 | 232.6 | 233.4 | 233.4 | 234.1 | 235.3 |
| 175° | 234.5 | 233.8 | 233.7 | 236.5 | 240.0 | 236.5 | 233.7 | 233.8 | 234.5 | 233.9 | 233.9 |
| 177.5° | 233.3 | 234.4 | 235.4 | 238.2 | 242.9 | 238.2 | 235.4 | 234.4 | 233.3 | 233.9 | 233.9 |
| 180° | 234.4 | 234.4 | 234.4 | 234.4 | 234.4 | 234.4 | 234.4 | 234.4 | 234.4 | 234.4 | 234.4 |



TEST NUMBER: P1433221

CATALOG NUMBER: EHBR1-36-UNV-TASM-L930-UPL24

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|--------|---------|---------|---------|---------|---------|---------|
| 0° | 28747.7 | 28747.7 | 28747.7 | 28747.7 | 28747.7 | 28747.7 |
| 2.5° | 27912.7 | 27894.4 | 27912.7 | 28107.8 | 28361.7 | 28731.0 |
| 5° | 27264.2 | 27162.8 | 27264.2 | 27480.4 | 27946.7 | 28649.6 |
| 7.5° | 26509.0 | 26450.2 | 26509.0 | 26870.7 | 27459.9 | 28455.0 |
| 10° | 25713.8 | 25580.7 | 25713.8 | 26122.4 | 26817.3 | 28158.0 |
| 12.5° | 24733.9 | 24557.6 | 24733.9 | 25155.9 | 26032.4 | 27684.2 |
| 15° | 23487.5 | 23332.8 | 23487.5 | 23956.0 | 24972.7 | 26983.4 |
| 17.5° | 22150.1 | 22009.9 | 22150.1 | 22557.1 | 23676.7 | 25995.8 |
| 20° | 20470.4 | 20360.4 | 20470.4 | 21046.1 | 22144.7 | 24723.1 |
| 22.5° | 18708.1 | 18605.2 | 18708.1 | 19219.8 | 20363.1 | 23127.4 |
| 25° | 16634.9 | 16578.9 | 16634.9 | 17206.4 | 18240.3 | 21261.2 |
| 27.5° | 14394.6 | 14299.2 | 14394.6 | 14992.5 | 16048.5 | 19066.1 |
| 30° | 12105.8 | 11947.8 | 12105.8 | 12640.5 | 13586.1 | 16628.0 |
| 32.5° | 9867.0 | 9753.3 | 9867.0 | 10248.1 | 11236.2 | 13898.1 |
| 35° | 7703.2 | 7589.5 | 7703.2 | 8047.7 | 9018.0 | 11379.6 |
| 37.5° | 6002.5 | 5801.4 | 6002.5 | 6223.5 | 7011.0 | 8930.6 |
| 40° | 4552.4 | 4520.0 | 4552.4 | 4830.5 | 5334.5 | 6948.0 |
| 42.5° | 3706.1 | 3618.2 | 3706.1 | 3825.8 | 4203.1 | 5264.5 |
| 45° | 3040.8 | 3006.3 | 3040.8 | 3131.4 | 3384.8 | 4115.2 |
| 47.5° | 2615.0 | 2630.1 | 2615.0 | 2673.2 | 2863.0 | 3351.4 |
| 50° | 2297.4 | 2306.6 | 2297.4 | 2325.0 | 2451.6 | 2815.0 |
| 52.5° | 2063.5 | 2055.4 | 2063.5 | 2066.2 | 2145.0 | 2418.2 |
| 55° | 1856.5 | 1846.3 | 1856.5 | 1850.6 | 1908.8 | 2084.0 |
| 57.5° | 1675.4 | 1682.9 | 1675.4 | 1667.3 | 1698.6 | 1830.1 |
| 60° | 1513.7 | 1520.7 | 1513.7 | 1507.7 | 1528.2 | 1605.3 |
| 62.5° | 1377.3 | 1381.6 | 1377.3 | 1376.8 | 1373.0 | 1432.3 |
| 65° | 1255.4 | 1260.3 | 1255.4 | 1249.0 | 1243.1 | 1270.6 |
| 67.5° | 1139.1 | 1139.1 | 1139.1 | 1127.7 | 1118.6 | 1145.5 |
| 70° | 1029.6 | 1029.1 | 1029.6 | 1011.3 | 1004.3 | 1012.3 |
| 72.5° | 898.1 | 911.0 | 898.1 | 884.6 | 884.1 | 885.2 |
| 75° | 770.3 | 785.5 | 770.3 | 761.7 | 752.0 | 760.1 |
| 77.5° | 640.9 | 664.2 | 640.9 | 634.0 | 629.1 | 623.7 |
| 80° | 508.3 | 533.7 | 508.3 | 496.5 | 489.5 | 498.6 |
| 82.5° | 375.7 | 394.6 | 375.7 | 361.2 | 360.6 | 364.9 |
| 85° | 223.7 | 253.9 | 223.7 | 210.8 | 215.7 | 210.8 |
| 87.5° | 71.7 | 91.6 | 71.7 | 68.4 | 75.5 | 73.9 |
| 90° | 25.8 | 16.2 | 25.8 | 43.9 | 28.2 | 16.2 |
| 92.5° | 39.1 | 23.4 | 39.1 | 70.4 | 36.6 | 21.0 |
| 95° | 45.1 | 27.0 | 45.1 | 98.1 | 48.7 | 31.2 |
| 97.5° | 49.9 | 34.8 | 49.9 | 112.6 | 59.5 | 48.0 |
| 100° | 58.4 | 45.6 | 58.4 | 175.2 | 73.3 | 63.7 |
| 102.5° | 123.4 | 76.9 | 123.4 | 371.5 | 137.1 | 96.2 |
| 105° | 259.5 | 132.3 | 259.5 | 661.8 | 286.5 | 174.5 |
| 107.5° | 464.3 | 228.7 | 464.3 | 873.0 | 507.0 | 329.9 |
| 110° | 616.0 | 426.2 | 616.0 | 915.2 | 696.1 | 527.4 |



TEST NUMBER: P1433221

CATALOG NUMBER: EHBR1-36-UNV-TASM-L930-UPL24

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|--------|--------|-------|--------|-------|--------|-------|
| 112.5° | 661.8 | 575.6 | 661.8 | 876.7 | 768.3 | 686.4 |
| 115° | 636.5 | 605.7 | 636.5 | 782.8 | 750.3 | 746.0 |
| 117.5° | 581.1 | 585.2 | 581.1 | 664.7 | 674.9 | 720.7 |
| 120° | 517.2 | 541.9 | 517.2 | 555.1 | 589.4 | 650.8 |
| 122.5° | 458.8 | 487.6 | 458.8 | 476.1 | 502.0 | 563.4 |
| 125° | 408.1 | 437.6 | 408.1 | 420.1 | 426.7 | 477.9 |
| 127.5° | 373.2 | 393.1 | 373.2 | 380.3 | 373.7 | 406.2 |
| 130° | 346.0 | 363.0 | 346.0 | 355.6 | 339.3 | 354.9 |
| 132.5° | 327.3 | 338.2 | 327.3 | 338.5 | 318.7 | 322.9 |
| 135° | 311.0 | 320.1 | 311.0 | 322.9 | 304.7 | 303.0 |
| 137.5° | 297.1 | 304.9 | 297.1 | 309.5 | 295.6 | 291.5 |
| 140° | 284.9 | 291.6 | 284.9 | 298.0 | 287.2 | 284.8 |
| 142.5° | 272.2 | 277.1 | 272.2 | 287.8 | 280.6 | 278.2 |
| 145° | 263.7 | 267.3 | 263.7 | 279.9 | 275.8 | 275.1 |
| 147.5° | 256.4 | 258.8 | 256.4 | 270.8 | 269.0 | 269.0 |
| 150° | 249.0 | 251.4 | 249.0 | 262.9 | 261.2 | 262.4 |
| 152.5° | 241.1 | 244.1 | 241.1 | 253.8 | 252.1 | 253.3 |
| 155° | 236.2 | 239.1 | 236.2 | 246.5 | 245.4 | 246.0 |
| 157.5° | 233.6 | 235.9 | 233.6 | 241.5 | 241.0 | 241.0 |
| 160° | 231.6 | 233.3 | 231.6 | 238.3 | 237.8 | 237.0 |
| 162.5° | 229.0 | 230.8 | 229.0 | 237.0 | 235.7 | 235.7 |
| 165° | 228.9 | 229.5 | 228.9 | 234.4 | 234.4 | 233.7 |
| 167.5° | 228.2 | 229.5 | 228.2 | 234.3 | 234.3 | 233.6 |
| 170° | 228.8 | 229.3 | 228.8 | 233.6 | 232.9 | 231.7 |
| 172.5° | 229.9 | 230.4 | 229.9 | 235.3 | 234.1 | 233.4 |
| 175° | 229.8 | 230.4 | 229.8 | 233.9 | 233.9 | 234.5 |
| 177.5° | 231.5 | 232.1 | 231.5 | 233.9 | 233.9 | 233.3 |
| 180° | 234.4 | 234.4 | 234.4 | 234.4 | 234.4 | 234.4 |



TEST NUMBER: P1433221
 CATALOG NUMBER: EHBR1-36-UNV-TASM-L930-UPL24

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 | 17.71 | 18.81 | 18.18 | 19.26 | 19.74 | 17.02 | 18.13 | 17.50 | 18.58 | 19.06 |
| | 3H | 19.25 | 20.24 | 19.75 | 20.70 | 21.23 | 18.87 | 19.86 | 19.37 | 20.32 | 20.84 |
| | 4H | 19.89 | 20.81 | 20.40 | 21.29 | 21.83 | 19.65 | 20.57 | 20.17 | 21.05 | 21.59 |
| | 6H | 20.37 | 21.22 | 20.90 | 21.71 | 22.26 | 20.30 | 21.14 | 20.82 | 21.64 | 22.19 |
| | 8H | 20.52 | 21.32 | 21.06 | 21.84 | 22.40 | 20.52 | 21.32 | 21.06 | 21.83 | 22.39 |
| | 12H | 20.59 | 21.36 | 21.14 | 21.87 | 22.45 | 20.65 | 21.41 | 21.19 | 21.92 | 22.50 |
| 4H | 2H | 18.12 | 19.04 | 18.64 | 19.52 | 20.06 | 17.60 | 18.52 | 18.12 | 19.00 | 19.54 |
| | 3H | 19.92 | 20.68 | 20.44 | 21.21 | 21.76 | 19.66 | 20.42 | 20.18 | 20.94 | 21.50 |
| | 4H | 20.69 | 21.38 | 21.24 | 21.91 | 22.51 | 20.56 | 21.25 | 21.11 | 21.79 | 22.38 |
| | 6H | 21.31 | 21.90 | 21.88 | 22.46 | 23.07 | 21.33 | 21.92 | 21.91 | 22.49 | 23.10 |
| | 8H | 21.50 | 22.05 | 22.08 | 22.62 | 23.23 | 21.61 | 22.16 | 22.18 | 22.72 | 23.34 |
| | 12H | 21.61 | 22.09 | 22.20 | 22.69 | 23.31 | 21.77 | 22.26 | 22.37 | 22.85 | 23.48 |
| 8H | 4H | 20.94 | 21.49 | 21.52 | 22.05 | 22.67 | 20.84 | 21.39 | 21.42 | 21.96 | 22.57 |
| | 6H | 21.68 | 22.13 | 22.29 | 22.74 | 23.37 | 21.75 | 22.19 | 22.36 | 22.80 | 23.43 |
| | 8H | 21.95 | 22.35 | 22.58 | 22.97 | 23.61 | 22.10 | 22.50 | 22.73 | 23.12 | 23.76 |
| | 12H | 22.13 | 22.47 | 22.75 | 23.08 | 23.79 | 22.35 | 22.70 | 22.97 | 23.30 | 24.02 |
| 12H | 4H | 20.95 | 21.44 | 21.54 | 22.03 | 22.65 | 20.85 | 21.34 | 21.45 | 21.93 | 22.56 |
| | 6H | 21.73 | 22.13 | 22.35 | 22.75 | 23.39 | 21.79 | 22.19 | 22.42 | 22.81 | 23.45 |
| | 8H | 22.04 | 22.39 | 22.66 | 23.00 | 23.71 | 22.20 | 22.55 | 22.82 | 23.15 | 23.86 |

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

Report Prepared for

Cooper Lighting Solutions

Metalux

Report Number: SP1-2506-472-5

Test Date: 08/01/2025

Luminaire Tested: EHBR-60-L930-N

Data in this report applies to families of products including EHBR-60-L930-N

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2506-472-5
 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-L930-N**
 Description: Elevate Round Highbay at, 60000 lumens, 3000K 90CRI LEDs with N lens

Spectral Parameters

CCT (K): 2996
 CIE u': 0.2519
 CIE v': 0.5169
 Duv: -0.0033
 CIE x: 0.4325
 CIE y: 0.3945
 CIE z: 0.1730
 Peak Wavelength (nm): 630
 Dominant Wavelength (nm): 584
 Purity: 48.21818
 Rf: 91.3
 Rg: 102

| | | | |
|-----------|------|------|------|
| CRI (Ra): | 94.4 | | |
| R1: | 96.8 | R9: | 61.4 |
| R2: | 98.1 | R10: | 94.4 |
| R3: | 97.8 | R11: | 95.7 |
| R4: | 95.6 | R12: | 88.5 |
| R5: | 96.9 | R13: | 97.3 |
| R6: | 95.7 | R14: | 97.8 |
| R7: | 90.9 | R15: | 92.3 |
| R8: | 83.0 | | |



Test Conditions

Stabilization Time: 40M
 Operation Time: 1H 40M
 Sphere Temperature (°C): 25.0

REPORT NUMBER: SP1-2506-472-5

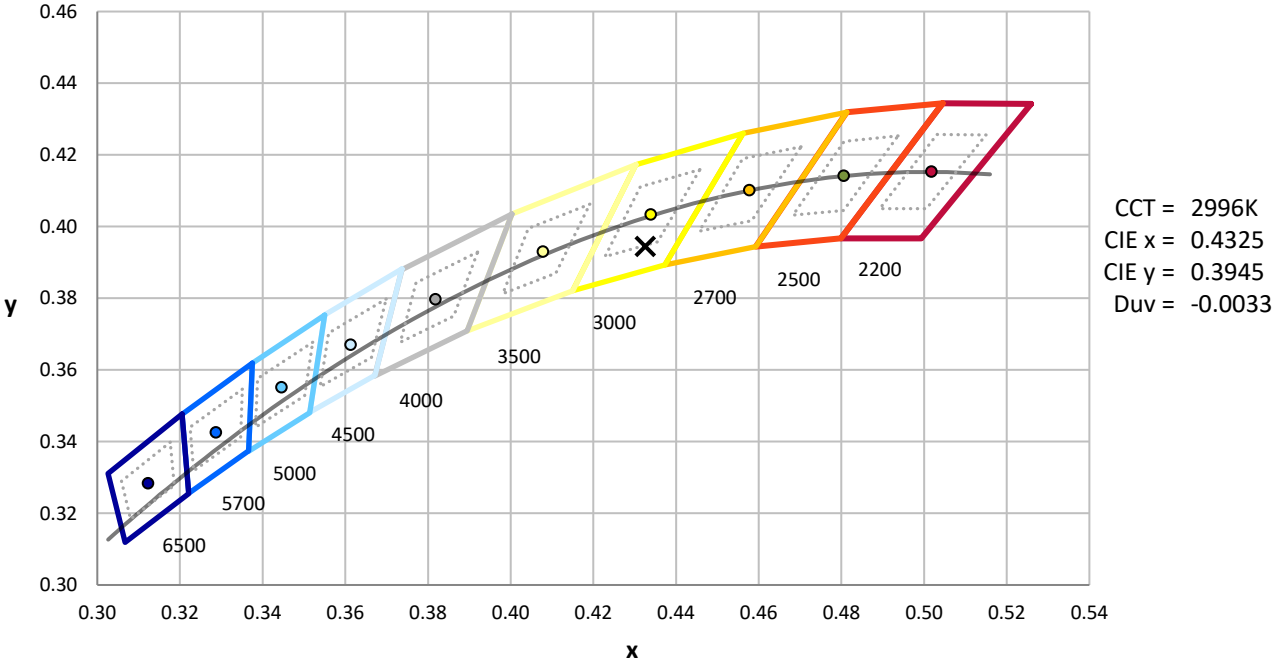
| Measurement and Test Equipment | | | |
|--------------------------------|-----------------------|------------------|----------------------|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | 76INCH SPHERE IN0058 | 6/16/2025 | 12/16/2025 |
| Power Meter | 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: SP1-2506-472-5

CIE 1931 Chromaticity Diagram



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



Point lies inside the ANSI 3000K 7-step quadrangle

REPORT NUMBER: SP1-2506-472-5

Photopic Flux vs. Wavelength



Photopic Lumens: NR

| λ (nm) | Power W [^] /nm | Lumens (ϕ /nm) | λ (nm) | Power W [^] /nm | Lumens (ϕ /nm) | λ (nm) | Power W [^] /nm | Lumens (ϕ /nm) | λ (nm) | Power W [^] /nm | Lumens (ϕ /nm) | λ (nm) | Power W [^] /nm | Lumens (ϕ /nm) |
|-------------------|-----------------------------|-------------------------|-------------------|-----------------------------|-------------------------|-------------------|-----------------------------|-------------------------|-------------------|-----------------------------|-------------------------|-------------------|-----------------------------|-------------------------|
| 360 | 0 | NR | 490 | 101 | NR | 620 | 317 | NR | 750 | 7 | NR | 880 | 0 | NR |
| 365 | 0 | NR | 495 | 121 | NR | 625 | 320 | NR | 755 | 6 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 141 | NR | 630 | 1000 | NR | 760 | 5 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 158 | NR | 635 | 651 | NR | 765 | 4 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 171 | NR | 640 | 207 | NR | 770 | 4 | NR | 900 | 0 | NR |
| 385 | 0 | NR | 515 | 182 | NR | 645 | 201 | NR | 775 | 3 | NR | 905 | 0 | NR |
| 390 | 0 | NR | 520 | 189 | NR | 650 | 174 | NR | 780 | 3 | NR | 910 | 0 | NR |
| 395 | 1 | NR | 525 | 194 | NR | 655 | 146 | NR | 785 | 2 | NR | 915 | 0 | NR |
| 400 | 1 | NR | 530 | 199 | NR | 660 | 124 | NR | 790 | 2 | NR | 920 | 0 | NR |
| 405 | 3 | NR | 535 | 205 | NR | 665 | 105 | NR | 795 | 2 | NR | 925 | 0 | NR |
| 410 | 4 | NR | 540 | 210 | NR | 670 | 96 | NR | 800 | 1 | NR | 930 | 0 | NR |
| 415 | 7 | NR | 545 | 216 | NR | 675 | 79 | NR | 805 | 1 | NR | 935 | 0 | NR |
| 420 | 13 | NR | 550 | 222 | NR | 680 | 67 | NR | 810 | 1 | NR | 940 | 0 | NR |
| 425 | 22 | NR | 555 | 230 | NR | 685 | 58 | NR | 815 | 1 | NR | 945 | 0 | NR |
| 430 | 37 | NR | 560 | 240 | NR | 690 | 49 | NR | 820 | 1 | NR | 950 | 0 | NR |
| 435 | 60 | NR | 565 | 248 | NR | 695 | 42 | NR | 825 | 1 | NR | 955 | 0 | NR |
| 440 | 101 | NR | 570 | 258 | NR | 700 | 36 | NR | 830 | 1 | NR | 960 | 0 | NR |
| 445 | 172 | NR | 575 | 268 | NR | 705 | 30 | NR | 835 | 1 | NR | 965 | 0 | NR |
| 450 | 223 | NR | 580 | 278 | NR | 710 | 26 | NR | 840 | 1 | NR | 970 | 0 | NR |
| 455 | 167 | NR | 585 | 287 | NR | 715 | 22 | NR | 845 | 0 | NR | 975 | 0 | NR |
| 460 | 126 | NR | 590 | 295 | NR | 720 | 19 | NR | 850 | 0 | NR | 980 | 0 | NR |
| 465 | 111 | NR | 595 | 298 | NR | 725 | 16 | NR | 855 | 0 | NR | 985 | 0 | NR |
| 470 | 86 | NR | 600 | 303 | NR | 730 | 14 | NR | 860 | 0 | NR | 990 | 0 | NR |
| 475 | 74 | NR | 605 | 307 | NR | 735 | 12 | NR | 865 | 0 | NR | 995 | 0 | NR |
| 480 | 77 | NR | 610 | 341 | NR | 740 | 10 | NR | 870 | 0 | NR | 1000 | 0 | NR |
| 485 | 86 | NR | 615 | 368 | NR | 745 | 8 | NR | 875 | 0 | NR | | | |

REPORT NUMBER: SP1-2506-472-5

Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

S/P: 1.44

| 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 | 101 | NR | 620 | 317 | NR | 750 | 7 | NR | 880 | 0 | NR |
| 365 | 0 | NR | 495 | 121 | NR | 625 | 320 | NR | 755 | 6 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 141 | NR | 630 | 1000 | NR | 760 | 5 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 158 | NR | 635 | 651 | NR | 765 | 4 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 171 | NR | 640 | 207 | NR | 770 | 4 | NR | 900 | 0 | NR |
| 385 | 0 | NR | 515 | 182 | NR | 645 | 201 | NR | 775 | 3 | NR | 905 | 0 | NR |
| 390 | 0 | NR | 520 | 189 | NR | 650 | 174 | NR | 780 | 3 | NR | 910 | 0 | NR |
| 395 | 1 | NR | 525 | 194 | NR | 655 | 146 | NR | 785 | 2 | NR | 915 | 0 | NR |
| 400 | 1 | NR | 530 | 199 | NR | 660 | 124 | NR | 790 | 2 | NR | 920 | 0 | NR |
| 405 | 3 | NR | 535 | 205 | NR | 665 | 105 | NR | 795 | 2 | NR | 925 | 0 | NR |
| 410 | 4 | NR | 540 | 210 | NR | 670 | 96 | NR | 800 | 1 | NR | 930 | 0 | NR |
| 415 | 7 | NR | 545 | 216 | NR | 675 | 79 | NR | 805 | 1 | NR | 935 | 0 | NR |
| 420 | 13 | NR | 550 | 222 | NR | 680 | 67 | NR | 810 | 1 | NR | 940 | 0 | NR |
| 425 | 22 | NR | 555 | 230 | NR | 685 | 58 | NR | 815 | 1 | NR | 945 | 0 | NR |
| 430 | 37 | NR | 560 | 240 | NR | 690 | 49 | NR | 820 | 1 | NR | 950 | 0 | NR |
| 435 | 60 | NR | 565 | 248 | NR | 695 | 42 | NR | 825 | 1 | NR | 955 | 0 | NR |
| 440 | 101 | NR | 570 | 258 | NR | 700 | 36 | NR | 830 | 1 | NR | 960 | 0 | NR |
| 445 | 172 | NR | 575 | 268 | NR | 705 | 30 | NR | 835 | 1 | NR | 965 | 0 | NR |
| 450 | 223 | NR | 580 | 278 | NR | 710 | 26 | NR | 840 | 1 | NR | 970 | 0 | NR |
| 455 | 167 | NR | 585 | 287 | NR | 715 | 22 | NR | 845 | 0 | NR | 975 | 0 | NR |
| 460 | 126 | NR | 590 | 295 | NR | 720 | 19 | NR | 850 | 0 | NR | 980 | 0 | NR |
| 465 | 111 | NR | 595 | 298 | NR | 725 | 16 | NR | 855 | 0 | NR | 985 | 0 | NR |
| 470 | 86 | NR | 600 | 303 | NR | 730 | 14 | NR | 860 | 0 | NR | 990 | 0 | NR |
| 475 | 74 | NR | 605 | 307 | NR | 735 | 12 | NR | 865 | 0 | NR | 995 | 0 | NR |
| 480 | 77 | NR | 610 | 341 | NR | 740 | 10 | NR | 870 | 0 | NR | 1000 | 0 | NR |
| 485 | 86 | NR | 615 | 368 | NR | 745 | 8 | NR | 875 | 0 | NR | | | |

REPORT NUMBER: SP1-2506-472-5

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.85

| 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 | 101 | NR | 620 | 317 | NR | 750 | 7 | NR | 880 | 0 | NR |
| 365 | 0 | NR | 495 | 121 | NR | 625 | 320 | NR | 755 | 6 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 141 | NR | 630 | 1000 | NR | 760 | 5 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 158 | NR | 635 | 651 | NR | 765 | 4 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 171 | NR | 640 | 207 | NR | 770 | 4 | NR | 900 | 0 | NR |
| 385 | 0 | NR | 515 | 182 | NR | 645 | 201 | NR | 775 | 3 | NR | 905 | 0 | NR |
| 390 | 0 | NR | 520 | 189 | NR | 650 | 174 | NR | 780 | 3 | NR | 910 | 0 | NR |
| 395 | 1 | NR | 525 | 194 | NR | 655 | 146 | NR | 785 | 2 | NR | 915 | 0 | NR |
| 400 | 1 | NR | 530 | 199 | NR | 660 | 124 | NR | 790 | 2 | NR | 920 | 0 | NR |
| 405 | 3 | NR | 535 | 205 | NR | 665 | 105 | NR | 795 | 2 | NR | 925 | 0 | NR |
| 410 | 4 | NR | 540 | 210 | NR | 670 | 96 | NR | 800 | 1 | NR | 930 | 0 | NR |
| 415 | 7 | NR | 545 | 216 | NR | 675 | 79 | NR | 805 | 1 | NR | 935 | 0 | NR |
| 420 | 13 | NR | 550 | 222 | NR | 680 | 67 | NR | 810 | 1 | NR | 940 | 0 | NR |
| 425 | 22 | NR | 555 | 230 | NR | 685 | 58 | NR | 815 | 1 | NR | 945 | 0 | NR |
| 430 | 37 | NR | 560 | 240 | NR | 690 | 49 | NR | 820 | 1 | NR | 950 | 0 | NR |
| 435 | 60 | NR | 565 | 248 | NR | 695 | 42 | NR | 825 | 1 | NR | 955 | 0 | NR |
| 440 | 101 | NR | 570 | 258 | NR | 700 | 36 | NR | 830 | 1 | NR | 960 | 0 | NR |
| 445 | 172 | NR | 575 | 268 | NR | 705 | 30 | NR | 835 | 1 | NR | 965 | 0 | NR |
| 450 | 223 | NR | 580 | 278 | NR | 710 | 26 | NR | 840 | 1 | NR | 970 | 0 | NR |
| 455 | 167 | NR | 585 | 287 | NR | 715 | 22 | NR | 845 | 0 | NR | 975 | 0 | NR |
| 460 | 126 | NR | 590 | 295 | NR | 720 | 19 | NR | 850 | 0 | NR | 980 | 0 | NR |
| 465 | 111 | NR | 595 | 298 | NR | 725 | 16 | NR | 855 | 0 | NR | 985 | 0 | NR |
| 470 | 86 | NR | 600 | 303 | NR | 730 | 14 | NR | 860 | 0 | NR | 990 | 0 | NR |
| 475 | 74 | NR | 605 | 307 | NR | 735 | 12 | NR | 865 | 0 | NR | 995 | 0 | NR |
| 480 | 77 | NR | 610 | 341 | NR | 740 | 10 | NR | 870 | 0 | NR | 1000 | 0 | NR |
| 485 | 86 | NR | 615 | 368 | NR | 745 | 8 | NR | 875 | 0 | NR | | | |

Summary

$R_f = 91.3$
 $R_g = 102$
 CIE $R_a = 94.4$
 $R_9 = 61.4$



Color Vector Graphics



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

| | | | |
|------------|------------|------------|------------|
| CES01 = 86 | CES26 = 91 | CES51 = 96 | CES76 = 89 |
| CES02 = 63 | CES27 = 96 | CES52 = 95 | CES77 = 85 |
| CES03 = 32 | CES28 = 96 | CES53 = 93 | CES78 = 86 |
| CES04 = 70 | CES29 = 90 | CES54 = 98 | CES79 = 89 |
| CES05 = 51 | CES30 = 96 | CES55 = 98 | CES80 = 91 |
| CES06 = 51 | CES31 = 90 | CES56 = 95 | CES81 = 72 |
| CES07 = 44 | CES32 = 84 | CES57 = 95 | CES82 = 95 |
| CES08 = 42 | CES33 = 91 | CES58 = 95 | CES83 = 93 |
| CES09 = 29 | CES34 = 92 | CES59 = 99 | CES84 = 96 |
| CES10 = 76 | CES35 = 96 | CES60 = 96 | CES85 = 80 |
| CES11 = 59 | CES36 = 90 | CES61 = 96 | CES86 = 77 |
| CES12 = 65 | CES37 = 94 | CES62 = 95 | CES87 = 91 |
| CES13 = 44 | CES38 = 99 | CES63 = 94 | CES88 = 96 |
| CES14 = 74 | CES39 = 97 | CES64 = 96 | CES89 = 82 |
| CES15 = 72 | CES40 = 94 | CES65 = 92 | CES90 = 97 |
| CES16 = 48 | CES41 = 94 | CES66 = 95 | CES91 = 82 |
| CES17 = 50 | CES42 = 91 | CES67 = 94 | CES92 = 78 |
| CES18 = 57 | CES43 = 88 | CES68 = 93 | CES93 = 87 |
| CES19 = 72 | CES44 = 99 | CES69 = 94 | CES94 = 73 |
| CES20 = 67 | CES45 = 93 | CES70 = 90 | CES95 = 85 |
| CES21 = 86 | CES46 = 93 | CES71 = 90 | CES96 = 92 |
| CES22 = 79 | CES47 = 86 | CES72 = 96 | CES97 = 93 |
| CES23 = 92 | CES48 = 95 | CES73 = 85 | CES98 = 94 |
| CES24 = 91 | CES49 = 91 | CES74 = 90 | CES99 = 93 |
| CES25 = 72 | CES50 = 96 | CES75 = 90 | |



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)