

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: P1433317

Luminaire Tested: EHBR1-54-UNV-TASM-L930-UPL24

Issue Date: 3/20/2026

Test Information

Test Method: LM-79-2019
Report Number: P1433317
REPORT IS A COMBINATION OF REPORTS P1431871 AND P1431635
Test Lab: INNOVATION CENTER
Issue Date: 3/20/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: EHBR1-54-UNV-TASM-L930-UPL24
Description: Elevate Round Highbay at, 54000 lumens, 3000K 90CRI LEDs with TASM lens
Light Source: -
Ballast/Driver: -

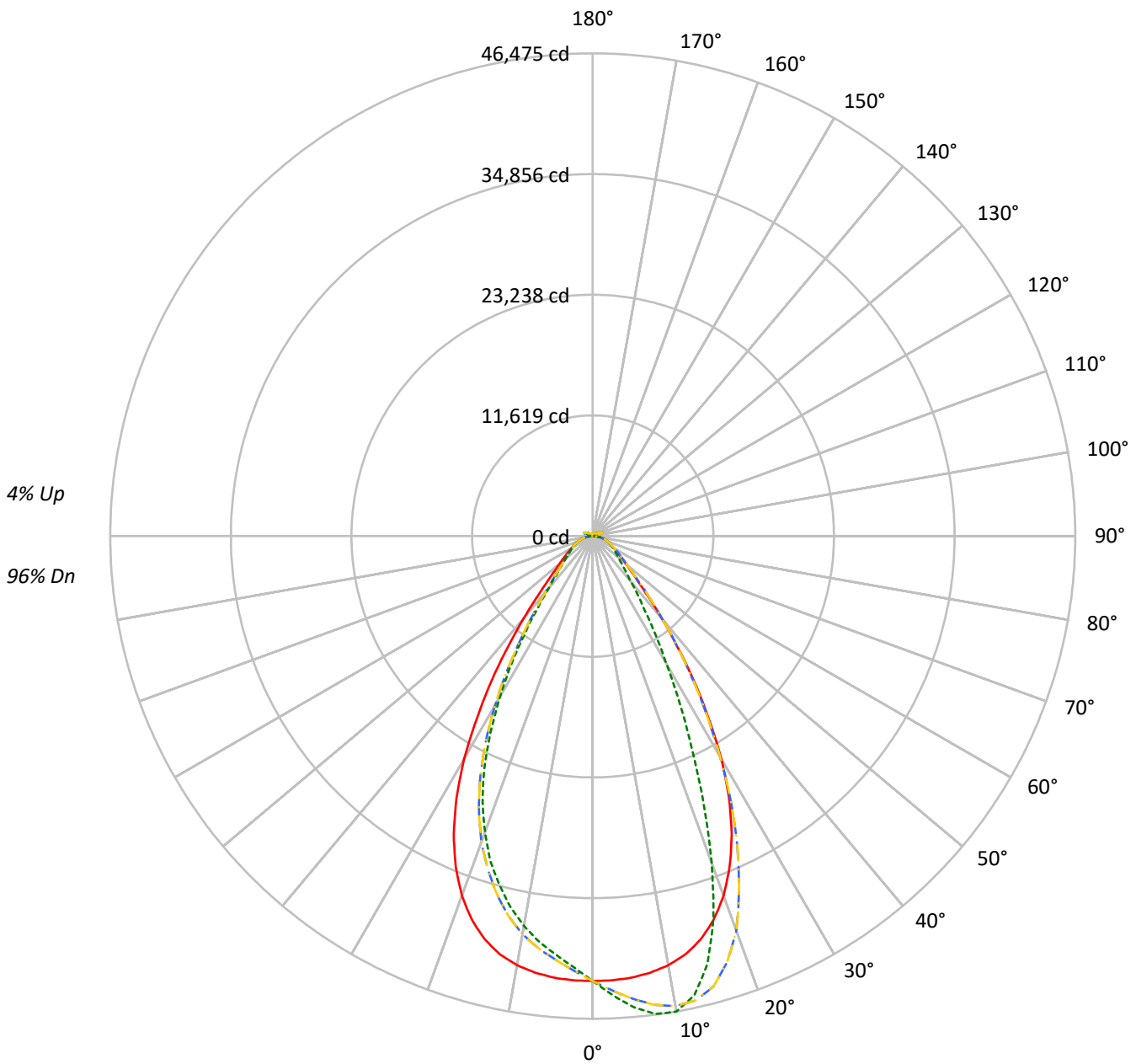
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50058.9 lumens
Efficiency: N/A
Efficacy: 160.2 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): 312.5
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: P1433317
CATALOG NUMBER: EHBR1-54-UNV-TASM-L930-UPL24

Luminous Intensity Polar Plot



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



TEST NUMBER: P1433317
 CATALOG NUMBER: EHBR1-54-UNV-TASM-L930-UPL24

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 | 115 | 115 | 115 | 115 | 109 | 109 | 109 | 103 | 103 | 103 | 98 | 98 | 98 | 98 | 98 | 98 | 96 |
| 1 | 111 | 107 | 104 | 101 | 108 | 105 | 102 | 99 | 100 | 98 | 96 | 95 | 94 | 92 | 91 | 90 | 88 | 88 | 88 | 88 | 86 |
| 2 | 104 | 98 | 93 | 89 | 101 | 96 | 91 | 87 | 92 | 88 | 85 | 88 | 85 | 82 | 85 | 82 | 80 | 85 | 82 | 80 | 78 |
| 3 | 97 | 90 | 84 | 79 | 95 | 88 | 82 | 78 | 85 | 80 | 76 | 81 | 78 | 74 | 79 | 75 | 73 | 79 | 75 | 73 | 71 |
| 4 | 92 | 83 | 76 | 71 | 89 | 81 | 75 | 70 | 78 | 73 | 69 | 76 | 71 | 68 | 73 | 70 | 66 | 73 | 70 | 66 | 65 |
| 5 | 86 | 76 | 70 | 65 | 84 | 75 | 69 | 64 | 73 | 67 | 63 | 71 | 66 | 62 | 68 | 64 | 61 | 68 | 64 | 61 | 59 |
| 6 | 81 | 71 | 64 | 59 | 79 | 70 | 63 | 59 | 68 | 62 | 58 | 66 | 61 | 57 | 64 | 60 | 56 | 64 | 60 | 56 | 55 |
| 7 | 77 | 66 | 59 | 54 | 75 | 65 | 59 | 54 | 63 | 58 | 54 | 62 | 57 | 53 | 60 | 56 | 52 | 60 | 56 | 52 | 51 |
| 8 | 73 | 62 | 55 | 50 | 71 | 61 | 55 | 50 | 59 | 54 | 50 | 58 | 53 | 49 | 57 | 52 | 49 | 57 | 52 | 49 | 47 |
| 9 | 69 | 58 | 51 | 47 | 67 | 57 | 51 | 47 | 56 | 50 | 46 | 55 | 50 | 46 | 54 | 49 | 46 | 54 | 49 | 46 | 44 |
| 10 | 65 | 55 | 48 | 44 | 64 | 54 | 48 | 44 | 53 | 47 | 43 | 52 | 47 | 43 | 51 | 46 | 43 | 51 | 46 | 43 | 41 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° | 270° |
|-----|--------|--------|--------|--------|
| 0° | 201135 | 201135 | 201135 | 201135 |
| 5° | 199911 | 213268 | 199911 | 189537 |
| 10° | 197453 | 218743 | 197453 | 179380 |
| 15° | 191623 | 203280 | 191623 | 165699 |
| 20° | 179216 | 163003 | 179216 | 147591 |
| 25° | 158621 | 112938 | 158621 | 123688 |
| 30° | 128794 | 73475 | 128794 | 92543 |
| 35° | 92375 | 47584 | 92375 | 61608 |
| 40° | 59724 | 32797 | 59724 | 38854 |
| 45° | 37894 | 25405 | 37894 | 27683 |
| 50° | 28141 | 21588 | 28141 | 23059 |
| 55° | 22975 | 19666 | 22975 | 20355 |
| 60° | 19895 | 18733 | 19895 | 18846 |
| 65° | 18136 | 18066 | 18136 | 17990 |
| 70° | 17190 | 17703 | 17190 | 17473 |
| 75° | 16077 | 17124 | 16077 | 16612 |
| 80° | 14122 | 16167 | 14122 | 15114 |
| 85° | 9136 | 11542 | 9136 | 11007 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 53277 cd/sqm



TEST NUMBER: P1433317
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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 4072.5 | 8.1 |
| 10°-20° | 11079.5 | 22.1 |
| 20°-30° | 12994.0 | 26.0 |
| 30°-40° | 9036.5 | 18.1 |
| 40°-50° | 4490.7 | 9.0 |
| 50°-60° | 2685.9 | 5.4 |
| 60°-70° | 1890.5 | 3.8 |
| 70°-80° | 1217.8 | 2.4 |
| 80°-90° | 390.6 | 0.8 |
| 90°-100° | 59.3 | 0.1 |
| 100°-110° | 380.6 | 0.8 |
| 110°-120° | 701.9 | 1.4 |
| 120°-130° | 418.2 | 0.8 |
| 130°-140° | 254.4 | 0.5 |
| 140°-150° | 177.3 | 0.4 |
| 150°-160° | 117.2 | 0.2 |
| 160°-170° | 68.7 | 0.1 |
| 170°-180° | 23.2 | 0.0 |
| 0°-30° | 28146.0 | 56.2 |
| 0°-40° | 37182.5 | 74.3 |
| 0°-60° | 44359.1 | 88.6 |
| 0°-90° | 47858.0 | 95.6 |
| 90°-120° | 1141.9 | 2.3 |
| 90°-150° | 1991.7 | 4.0 |
| 90°-180° | 2201.0 | 4.4 |
| 0°-180° | 50058.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 90° | 180° | 270° | 360° | Flux |
|------|-------|-------|-------|-------|-------|-------|
| 0° | 42830 | 42830 | 42830 | 42830 | 42830 | |
| 5° | 42684 | 45536 | 42684 | 40469 | 42684 | 4051 |
| 15° | 40202 | 42647 | 40202 | 34763 | 40202 | 11235 |
| 25° | 31676 | 22554 | 31676 | 24700 | 31676 | 14341 |
| 35° | 16954 | 8733 | 16954 | 11307 | 16954 | 10584 |
| 45° | 6131 | 4110 | 6131 | 4479 | 6131 | 5017 |
| 55° | 3105 | 2658 | 3105 | 2751 | 3105 | 2839 |
| 65° | 1893 | 1886 | 1893 | 1878 | 1893 | 1901 |
| 75° | 1132 | 1206 | 1132 | 1170 | 1132 | 1189 |
| 85° | 314 | 397 | 314 | 378 | 314 | 349 |
| 90° | 16 | 22 | 16 | 16 | 16 | 23 |
| 95° | 32 | 33 | 32 | 27 | 32 | 33 |
| 105° | 175 | 93 | 175 | 133 | 175 | 236 |
| 115° | 747 | 641 | 747 | 606 | 747 | 681 |
| 125° | 479 | 504 | 479 | 438 | 479 | 441 |
| 135° | 305 | 353 | 305 | 321 | 305 | 242 |
| 145° | 278 | 291 | 278 | 270 | 278 | 174 |
| 155° | 250 | 261 | 250 | 244 | 250 | 117 |
| 165° | 241 | 250 | 241 | 237 | 241 | 68 |
| 175° | 244 | 251 | 244 | 239 | 244 | 23 |
| 180° | 244 | 244 | 244 | 244 | 244 | |



TEST NUMBER: P1433317
 CATALOG NUMBER: EHBR1-54-UNV-TASM-L930-UPL24

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 42830.2 | 42830.2 | 42830.2 | 42830.2 | 42830.2 | 42830.2 | 42830.2 | 42830.2 | 42830.2 | 42830.2 | 42830.2 |
| 2.5° | 42805.4 | 43358.7 | 43806.8 | 44102.4 | 44248.6 | 44102.4 | 43806.8 | 43358.7 | 42805.4 | 42255.2 | 41876.9 |
| 5° | 42684.1 | 43792.4 | 44731.3 | 45345.7 | 45536.0 | 45345.7 | 44731.3 | 43792.4 | 42684.1 | 41636.8 | 40942.1 |
| 7.5° | 42394.1 | 44120.9 | 45516.0 | 46233.1 | 46408.3 | 46233.1 | 45516.0 | 44120.9 | 42394.1 | 40911.6 | 40033.8 |
| 10° | 41951.7 | 44328.1 | 45940.0 | 46454.0 | 46474.9 | 46454.0 | 45940.0 | 44328.1 | 41951.7 | 39954.3 | 38919.0 |
| 12.5° | 41245.7 | 44254.2 | 45797.8 | 45629.2 | 45246.1 | 45629.2 | 45797.8 | 44254.2 | 41245.7 | 38784.9 | 37478.9 |
| 15° | 40201.6 | 43816.5 | 44897.5 | 43525.0 | 42647.1 | 43525.0 | 44897.5 | 43816.5 | 40201.6 | 37205.9 | 35691.2 |
| 17.5° | 38730.3 | 42997.3 | 43018.2 | 40302.8 | 38646.8 | 40302.8 | 43018.2 | 42997.3 | 38730.3 | 35275.2 | 33607.1 |
| 20° | 36834.1 | 41683.3 | 40430.5 | 35463.9 | 33501.9 | 35463.9 | 40430.5 | 41683.3 | 36834.1 | 32992.7 | 31355.9 |
| 22.5° | 34456.8 | 39911.7 | 36826.8 | 30596.1 | 27919.3 | 30596.1 | 36826.8 | 39911.7 | 34456.8 | 30338.3 | 28634.9 |
| 25° | 31676.4 | 37740.8 | 32950.1 | 25292.2 | 22553.6 | 25292.2 | 32950.1 | 37740.8 | 31676.4 | 27175.6 | 25635.2 |
| 27.5° | 28406.0 | 34989.3 | 28822.1 | 20667.9 | 18141.1 | 20667.9 | 28822.1 | 34989.3 | 28406.0 | 23910.1 | 22336.7 |
| 30° | 24773.4 | 31461.9 | 24526.0 | 16459.4 | 14132.8 | 16459.4 | 24526.0 | 31461.9 | 24773.4 | 20241.4 | 18832.6 |
| 32.5° | 20706.4 | 28004.4 | 20400.3 | 13188.2 | 11217.3 | 13188.2 | 20400.3 | 28004.4 | 20706.4 | 16740.5 | 15268.3 |
| 35° | 16954.1 | 23678.7 | 16680.3 | 10362.8 | 8733.3 | 10362.8 | 16680.3 | 23678.7 | 16954.1 | 13435.6 | 11989.9 |
| 37.5° | 13305.5 | 19591.6 | 13296.7 | 8344.5 | 7083.7 | 8344.5 | 13296.7 | 19591.6 | 13305.5 | 10445.6 | 9272.1 |
| 40° | 10351.6 | 15319.0 | 10418.2 | 6661.2 | 5684.6 | 6661.2 | 10418.2 | 15319.0 | 10351.6 | 7947.8 | 7196.8 |
| 42.5° | 7843.4 | 11713.7 | 8188.8 | 5467.0 | 4828.5 | 5467.0 | 8188.8 | 11713.7 | 7843.4 | 6262.0 | 5699.8 |
| 45° | 6131.1 | 8620.0 | 6394.6 | 4612.4 | 4110.5 | 4612.4 | 6394.6 | 8620.0 | 6131.1 | 5042.9 | 4665.4 |
| 47.5° | 4993.1 | 6662.0 | 5182.6 | 3956.2 | 3604.5 | 3956.2 | 5182.6 | 6662.0 | 4993.1 | 4265.4 | 3982.8 |
| 50° | 4194.0 | 5111.9 | 4303.2 | 3453.4 | 3217.4 | 3453.4 | 4303.2 | 5111.9 | 4194.0 | 3652.6 | 3464.0 |
| 52.5° | 3602.9 | 4169.0 | 3664.7 | 3077.6 | 2918.6 | 3077.6 | 3664.7 | 4169.0 | 3602.9 | 3195.6 | 3078.4 |
| 55° | 3104.9 | 3504.9 | 3186.8 | 2767.6 | 2657.6 | 2767.6 | 3186.8 | 3504.9 | 3104.9 | 2843.9 | 2757.2 |
| 57.5° | 2726.6 | 2973.2 | 2767.6 | 2503.4 | 2430.3 | 2503.4 | 2767.6 | 2973.2 | 2726.6 | 2530.7 | 2484.1 |
| 60° | 2391.7 | 2574.9 | 2442.3 | 2272.9 | 2252.0 | 2272.9 | 2442.3 | 2574.9 | 2391.7 | 2276.9 | 2246.4 |
| 62.5° | 2133.9 | 2249.6 | 2159.6 | 2065.7 | 2047.2 | 2065.7 | 2159.6 | 2249.6 | 2133.9 | 2045.6 | 2051.2 |
| 65° | 1893.0 | 2000.6 | 1929.9 | 1879.3 | 1885.7 | 1879.3 | 1929.9 | 2000.6 | 1893.0 | 1852.1 | 1860.9 |
| 67.5° | 1706.6 | 1762.9 | 1732.4 | 1703.4 | 1710.6 | 1703.4 | 1732.4 | 1762.9 | 1706.6 | 1666.5 | 1680.2 |
| 70° | 1508.3 | 1568.5 | 1537.2 | 1541.2 | 1553.3 | 1541.2 | 1537.2 | 1568.5 | 1508.3 | 1496.2 | 1506.7 |
| 72.5° | 1318.7 | 1365.3 | 1354.9 | 1364.5 | 1377.3 | 1364.5 | 1354.9 | 1365.3 | 1318.7 | 1317.1 | 1317.9 |
| 75° | 1132.5 | 1167.7 | 1172.6 | 1186.2 | 1206.3 | 1186.2 | 1172.6 | 1167.7 | 1132.5 | 1120.3 | 1134.9 |
| 77.5° | 929.2 | 969.4 | 984.6 | 1003.2 | 1032.8 | 1003.2 | 984.6 | 969.4 | 929.2 | 937.2 | 944.5 |
| 80° | 742.9 | 761.4 | 795.1 | 808.8 | 850.5 | 808.8 | 795.1 | 761.4 | 742.9 | 729.2 | 739.6 |
| 82.5° | 543.7 | 560.6 | 589.5 | 615.2 | 639.3 | 615.2 | 589.5 | 560.6 | 543.7 | 537.3 | 538.1 |
| 85° | 314.0 | 339.7 | 359.0 | 389.5 | 396.7 | 389.5 | 359.0 | 339.7 | 314.0 | 321.3 | 314.0 |
| 87.5° | 110.1 | 118.1 | 134.9 | 146.9 | 147.8 | 146.9 | 134.9 | 118.1 | 110.1 | 112.5 | 102.0 |
| 90° | 16.5 | 28.1 | 48.2 | 28.9 | 22.1 | 28.9 | 48.2 | 28.1 | 16.5 | 28.5 | 44.2 |
| 92.5° | 21.3 | 37.7 | 67.5 | 37.3 | 28.1 | 37.3 | 67.5 | 37.7 | 21.3 | 36.9 | 70.7 |
| 95° | 31.7 | 46.2 | 85.5 | 40.9 | 32.9 | 40.9 | 85.5 | 46.2 | 31.7 | 49.0 | 98.4 |
| 97.5° | 48.6 | 57.0 | 96.3 | 43.4 | 38.9 | 43.4 | 96.3 | 57.0 | 48.6 | 59.8 | 112.8 |
| 100° | 64.3 | 64.3 | 174.7 | 49.4 | 43.8 | 49.4 | 174.7 | 64.3 | 64.3 | 73.9 | 175.5 |
| 102.5° | 96.8 | 125.3 | 403.1 | 96.0 | 52.2 | 96.0 | 403.1 | 125.3 | 96.8 | 137.7 | 371.8 |
| 105° | 175.0 | 284.3 | 707.8 | 241.7 | 92.8 | 241.7 | 707.8 | 284.3 | 175.0 | 287.0 | 662.0 |
| 107.5° | 330.4 | 528.7 | 911.4 | 472.9 | 209.6 | 472.9 | 911.4 | 528.7 | 330.4 | 507.5 | 873.6 |
| 110° | 527.9 | 738.3 | 994.4 | 646.3 | 419.1 | 646.3 | 994.4 | 738.3 | 527.9 | 696.6 | 915.7 |



TEST NUMBER: P1433317

CATALOG NUMBER: EHBR1-54-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° | 686.9 | 822.6 | 971.6 | 716.2 | 578.1 | 716.2 | 971.6 | 822.6 | 686.9 | 768.8 | 877.2 |
| 115° | 746.8 | 810.6 | 868.0 | 713.8 | 640.7 | 713.8 | 868.0 | 810.6 | 746.8 | 750.8 | 783.3 |
| 117.5° | 721.5 | 742.0 | 750.0 | 670.5 | 644.4 | 670.5 | 750.0 | 742.0 | 721.5 | 675.7 | 665.2 |
| 120° | 651.6 | 643.1 | 632.7 | 606.6 | 608.2 | 606.6 | 632.7 | 643.1 | 651.6 | 590.2 | 555.6 |
| 122.5° | 564.4 | 546.4 | 535.1 | 542.3 | 558.8 | 542.3 | 535.1 | 546.4 | 564.4 | 503.0 | 476.9 |
| 125° | 479.0 | 460.9 | 467.3 | 487.0 | 504.2 | 487.0 | 467.3 | 460.9 | 479.0 | 428.0 | 421.2 |
| 127.5° | 407.5 | 399.1 | 417.9 | 440.0 | 454.8 | 440.0 | 417.9 | 399.1 | 407.5 | 375.0 | 381.4 |
| 130° | 356.5 | 358.1 | 383.0 | 402.3 | 411.5 | 402.3 | 383.0 | 358.1 | 356.5 | 340.9 | 356.9 |
| 132.5° | 324.8 | 333.6 | 357.3 | 374.2 | 379.8 | 374.2 | 357.3 | 333.6 | 324.8 | 320.8 | 340.4 |
| 135° | 305.1 | 318.0 | 340.1 | 350.5 | 353.2 | 350.5 | 340.1 | 318.0 | 305.1 | 307.1 | 324.8 |
| 137.5° | 293.9 | 306.7 | 323.2 | 332.0 | 330.4 | 332.0 | 323.2 | 306.7 | 293.9 | 298.3 | 311.9 |
| 140° | 287.5 | 300.3 | 307.5 | 317.6 | 316.7 | 317.6 | 307.5 | 300.3 | 287.5 | 289.9 | 300.7 |
| 142.5° | 281.1 | 292.7 | 296.3 | 303.9 | 302.3 | 303.9 | 296.3 | 292.7 | 281.1 | 283.5 | 290.7 |
| 145° | 278.2 | 287.0 | 283.8 | 293.1 | 291.0 | 293.1 | 283.8 | 287.0 | 278.2 | 278.7 | 283.0 |
| 147.5° | 272.2 | 278.7 | 275.0 | 283.0 | 281.1 | 283.0 | 275.0 | 278.7 | 272.2 | 272.2 | 274.2 |
| 150° | 265.7 | 270.6 | 264.9 | 274.2 | 274.6 | 274.2 | 264.9 | 270.6 | 265.7 | 264.6 | 266.5 |
| 152.5° | 256.9 | 261.7 | 256.9 | 267.3 | 267.0 | 267.3 | 256.9 | 261.7 | 256.9 | 255.8 | 257.7 |
| 155° | 250.1 | 252.5 | 250.1 | 260.6 | 261.4 | 260.6 | 250.1 | 252.5 | 250.1 | 249.3 | 250.9 |
| 157.5° | 245.7 | 247.7 | 246.5 | 255.8 | 256.6 | 255.8 | 246.5 | 247.7 | 245.7 | 245.7 | 246.5 |
| 160° | 242.8 | 245.2 | 244.9 | 252.9 | 253.7 | 252.9 | 244.9 | 245.2 | 242.8 | 243.3 | 244.1 |
| 162.5° | 242.0 | 242.0 | 242.5 | 250.5 | 252.1 | 250.5 | 242.5 | 242.0 | 242.0 | 242.0 | 243.3 |
| 165° | 240.9 | 242.0 | 241.2 | 247.6 | 250.5 | 247.6 | 241.2 | 242.0 | 240.9 | 241.2 | 241.2 |
| 167.5° | 241.2 | 240.1 | 241.7 | 247.6 | 250.5 | 247.6 | 241.7 | 240.1 | 241.2 | 241.7 | 241.7 |
| 170° | 239.6 | 240.4 | 240.9 | 246.8 | 249.7 | 246.8 | 240.9 | 240.4 | 239.6 | 240.9 | 241.2 |
| 172.5° | 242.0 | 242.0 | 242.0 | 246.8 | 250.9 | 246.8 | 242.0 | 242.0 | 242.0 | 242.5 | 243.6 |
| 175° | 243.6 | 243.3 | 243.6 | 247.4 | 251.4 | 247.4 | 243.6 | 243.3 | 243.6 | 242.8 | 242.8 |
| 177.5° | 242.5 | 244.1 | 245.7 | 249.3 | 254.6 | 249.3 | 245.7 | 244.1 | 242.5 | 242.8 | 242.8 |
| 180° | 244.1 | 244.1 | 244.1 | 244.1 | 244.1 | 244.1 | 244.1 | 244.1 | 244.1 | 244.1 | 244.1 |



TEST NUMBER: P1433317

CATALOG NUMBER: EHBR1-54-UNV-TASM-L930-UPL24

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|--------|---------|---------|---------|---------|---------|---------|
| 0° | 42830.2 | 42830.2 | 42830.2 | 42830.2 | 42830.2 | 42830.2 |
| 2.5° | 41586.2 | 41558.9 | 41586.2 | 41876.9 | 42255.2 | 42805.4 |
| 5° | 40620.0 | 40469.1 | 40620.0 | 40942.1 | 41636.8 | 42684.1 |
| 7.5° | 39494.9 | 39407.3 | 39494.9 | 40033.8 | 40911.6 | 42394.1 |
| 10° | 38310.2 | 38111.8 | 38310.2 | 38919.0 | 39954.3 | 41951.7 |
| 12.5° | 36850.2 | 36587.5 | 36850.2 | 37478.9 | 38784.9 | 41245.7 |
| 15° | 34993.3 | 34762.7 | 34993.3 | 35691.2 | 37205.9 | 40201.6 |
| 17.5° | 33000.7 | 32791.9 | 33000.7 | 33607.1 | 35275.2 | 38730.3 |
| 20° | 30498.2 | 30334.3 | 30498.2 | 31355.9 | 32992.7 | 36834.1 |
| 22.5° | 27872.7 | 27719.4 | 27872.7 | 28634.9 | 30338.3 | 34456.8 |
| 25° | 24783.9 | 24700.4 | 24783.9 | 25635.2 | 27175.6 | 31676.4 |
| 27.5° | 21446.1 | 21303.9 | 21446.1 | 22336.7 | 23910.1 | 28406.0 |
| 30° | 18036.0 | 17800.6 | 18036.0 | 18832.6 | 20241.4 | 24773.4 |
| 32.5° | 14700.5 | 14531.1 | 14700.5 | 15268.3 | 16740.5 | 20706.4 |
| 35° | 11476.7 | 11307.3 | 11476.7 | 11989.9 | 13435.6 | 16954.1 |
| 37.5° | 8942.9 | 8643.3 | 8942.9 | 9272.1 | 10445.6 | 13305.5 |
| 40° | 6782.5 | 6734.3 | 6782.5 | 7196.8 | 7947.8 | 10351.6 |
| 42.5° | 5521.5 | 5390.6 | 5521.5 | 5699.8 | 6262.0 | 7843.4 |
| 45° | 4530.5 | 4479.0 | 4530.5 | 4665.4 | 5042.9 | 6131.1 |
| 47.5° | 3896.0 | 3918.5 | 3896.0 | 3982.8 | 4265.4 | 4993.1 |
| 50° | 3423.0 | 3436.6 | 3423.0 | 3464.0 | 3652.6 | 4194.0 |
| 52.5° | 3074.4 | 3062.3 | 3074.4 | 3078.4 | 3195.6 | 3602.9 |
| 55° | 2766.0 | 2750.8 | 2766.0 | 2757.2 | 2843.9 | 3104.9 |
| 57.5° | 2496.2 | 2507.4 | 2496.2 | 2484.1 | 2530.7 | 2726.6 |
| 60° | 2255.2 | 2265.6 | 2255.2 | 2246.4 | 2276.9 | 2391.7 |
| 62.5° | 2052.0 | 2058.4 | 2052.0 | 2051.2 | 2045.6 | 2133.9 |
| 65° | 1870.5 | 1877.7 | 1870.5 | 1860.9 | 1852.1 | 1893.0 |
| 67.5° | 1697.0 | 1697.0 | 1697.0 | 1680.2 | 1666.5 | 1706.6 |
| 70° | 1534.0 | 1533.2 | 1534.0 | 1506.7 | 1496.2 | 1508.3 |
| 72.5° | 1338.0 | 1357.3 | 1338.0 | 1317.9 | 1317.1 | 1318.7 |
| 75° | 1147.7 | 1170.2 | 1147.7 | 1134.9 | 1120.3 | 1132.5 |
| 77.5° | 954.9 | 989.4 | 954.9 | 944.5 | 937.2 | 929.2 |
| 80° | 757.4 | 795.1 | 757.4 | 739.6 | 729.2 | 742.9 |
| 82.5° | 559.8 | 587.9 | 559.8 | 538.1 | 537.3 | 543.7 |
| 85° | 333.3 | 378.3 | 333.3 | 314.0 | 321.3 | 314.0 |
| 87.5° | 106.8 | 136.5 | 106.8 | 102.0 | 112.5 | 110.1 |
| 90° | 26.1 | 16.5 | 26.1 | 44.2 | 28.5 | 16.5 |
| 92.5° | 39.4 | 23.7 | 39.4 | 70.7 | 36.9 | 21.3 |
| 95° | 45.4 | 27.3 | 45.4 | 98.4 | 49.0 | 31.7 |
| 97.5° | 50.2 | 35.3 | 50.2 | 112.8 | 59.8 | 48.6 |
| 100° | 58.6 | 46.2 | 58.6 | 175.5 | 73.9 | 64.3 |
| 102.5° | 123.7 | 77.4 | 123.7 | 371.8 | 137.7 | 96.8 |
| 105° | 259.8 | 132.9 | 259.8 | 662.0 | 287.0 | 175.0 |
| 107.5° | 464.6 | 229.2 | 464.6 | 873.6 | 507.5 | 330.4 |
| 110° | 616.2 | 426.8 | 616.2 | 915.7 | 696.6 | 527.9 |



TEST NUMBER: P1433317

CATALOG NUMBER: EHBR1-54-UNV-TASM-L930-UPL24

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|--------|--------|-------|--------|-------|--------|-------|
| 112.5° | 662.0 | 576.1 | 662.0 | 877.2 | 768.8 | 686.9 |
| 115° | 636.7 | 606.2 | 636.7 | 783.3 | 750.8 | 746.8 |
| 117.5° | 581.4 | 585.7 | 581.4 | 665.2 | 675.7 | 721.5 |
| 120° | 517.5 | 542.4 | 517.5 | 555.6 | 590.2 | 651.6 |
| 122.5° | 459.3 | 488.2 | 459.3 | 476.9 | 503.0 | 564.4 |
| 125° | 408.7 | 438.4 | 408.7 | 421.2 | 428.0 | 479.0 |
| 127.5° | 373.7 | 393.9 | 373.7 | 381.4 | 375.0 | 407.5 |
| 130° | 346.8 | 363.8 | 346.8 | 356.9 | 340.9 | 356.5 |
| 132.5° | 328.4 | 339.3 | 328.4 | 340.4 | 320.8 | 324.8 |
| 135° | 312.3 | 321.2 | 312.3 | 324.8 | 307.1 | 305.1 |
| 137.5° | 298.7 | 306.3 | 298.7 | 311.9 | 298.3 | 293.9 |
| 140° | 287.0 | 293.5 | 287.0 | 300.7 | 289.9 | 287.5 |
| 142.5° | 274.6 | 279.5 | 274.6 | 290.7 | 283.5 | 281.1 |
| 145° | 266.5 | 270.2 | 266.5 | 283.0 | 278.7 | 278.2 |
| 147.5° | 259.8 | 262.2 | 259.8 | 274.2 | 272.2 | 272.2 |
| 150° | 252.9 | 255.3 | 252.9 | 266.5 | 264.6 | 265.7 |
| 152.5° | 245.3 | 248.5 | 245.3 | 257.7 | 255.8 | 256.9 |
| 155° | 240.9 | 244.1 | 240.9 | 250.9 | 249.3 | 250.1 |
| 157.5° | 238.8 | 241.7 | 238.8 | 246.5 | 245.7 | 245.7 |
| 160° | 237.7 | 239.6 | 237.7 | 244.1 | 243.3 | 242.8 |
| 162.5° | 235.6 | 237.7 | 235.6 | 243.3 | 242.0 | 242.0 |
| 165° | 236.1 | 236.9 | 236.1 | 241.2 | 241.2 | 240.9 |
| 167.5° | 235.6 | 236.9 | 235.6 | 241.7 | 241.7 | 241.2 |
| 170° | 236.4 | 237.2 | 236.4 | 241.2 | 240.9 | 239.6 |
| 172.5° | 238.0 | 238.8 | 238.0 | 243.6 | 242.5 | 242.0 |
| 175° | 238.5 | 239.3 | 238.5 | 242.8 | 242.8 | 243.6 |
| 177.5° | 240.4 | 241.2 | 240.4 | 242.8 | 242.8 | 242.5 |
| 180° | 244.1 | 244.1 | 244.1 | 244.1 | 244.1 | 244.1 |



TEST NUMBER: P1433317
 CATALOG NUMBER: EHBR1-54-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 | 19.25 | 20.39 | 19.69 | 20.79 | 21.22 | 18.57 | 19.71 | 19.01 | 20.11 | 20.54 |
| | 3H | 20.80 | 21.81 | 21.26 | 22.23 | 22.71 | 20.42 | 21.43 | 20.88 | 21.85 | 22.33 |
| | 4H | 21.43 | 22.38 | 21.92 | 22.82 | 23.32 | 21.20 | 22.14 | 21.68 | 22.59 | 23.08 |
| | 6H | 21.92 | 22.78 | 22.41 | 23.24 | 23.75 | 21.84 | 22.71 | 22.34 | 23.17 | 23.67 |
| | 8H | 22.07 | 22.89 | 22.58 | 23.37 | 23.88 | 22.06 | 22.89 | 22.57 | 23.37 | 23.88 |
| | 12H | 22.14 | 22.93 | 22.65 | 23.40 | 23.93 | 22.19 | 22.98 | 22.70 | 23.45 | 23.99 |
| 4H | 2H | 19.67 | 20.61 | 20.15 | 21.05 | 21.55 | 19.14 | 20.09 | 19.63 | 20.53 | 21.03 |
| | 3H | 21.46 | 22.24 | 21.96 | 22.74 | 23.25 | 21.20 | 21.98 | 21.70 | 22.47 | 22.99 |
| | 4H | 22.24 | 22.94 | 22.75 | 23.44 | 23.99 | 22.11 | 22.81 | 22.62 | 23.32 | 23.86 |
| | 6H | 22.85 | 23.46 | 23.39 | 23.99 | 24.56 | 22.88 | 23.49 | 23.42 | 24.02 | 24.59 |
| | 8H | 23.05 | 23.61 | 23.60 | 24.14 | 24.72 | 23.15 | 23.72 | 23.70 | 24.25 | 24.82 |
| | 12H | 23.16 | 23.65 | 23.72 | 24.22 | 24.79 | 23.32 | 23.82 | 23.89 | 24.38 | 24.96 |
| 8H | 4H | 22.49 | 23.05 | 23.03 | 23.58 | 24.16 | 22.39 | 22.96 | 22.94 | 23.48 | 24.06 |
| | 6H | 23.23 | 23.69 | 23.81 | 24.27 | 24.85 | 23.30 | 23.75 | 23.87 | 24.33 | 24.91 |
| | 8H | 23.50 | 23.91 | 24.10 | 24.50 | 25.10 | 23.65 | 24.06 | 24.25 | 24.65 | 25.24 |
| | 12H | 23.67 | 24.03 | 24.26 | 24.60 | 25.28 | 23.90 | 24.26 | 24.49 | 24.83 | 25.50 |
| 12H | 4H | 22.50 | 23.00 | 23.06 | 23.56 | 24.14 | 22.40 | 22.90 | 22.97 | 23.46 | 24.04 |
| | 6H | 23.27 | 23.68 | 23.87 | 24.27 | 24.87 | 23.34 | 23.75 | 23.94 | 24.34 | 24.94 |
| | 8H | 23.59 | 23.95 | 24.18 | 24.52 | 25.19 | 23.75 | 24.10 | 24.34 | 24.68 | 25.35 |

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

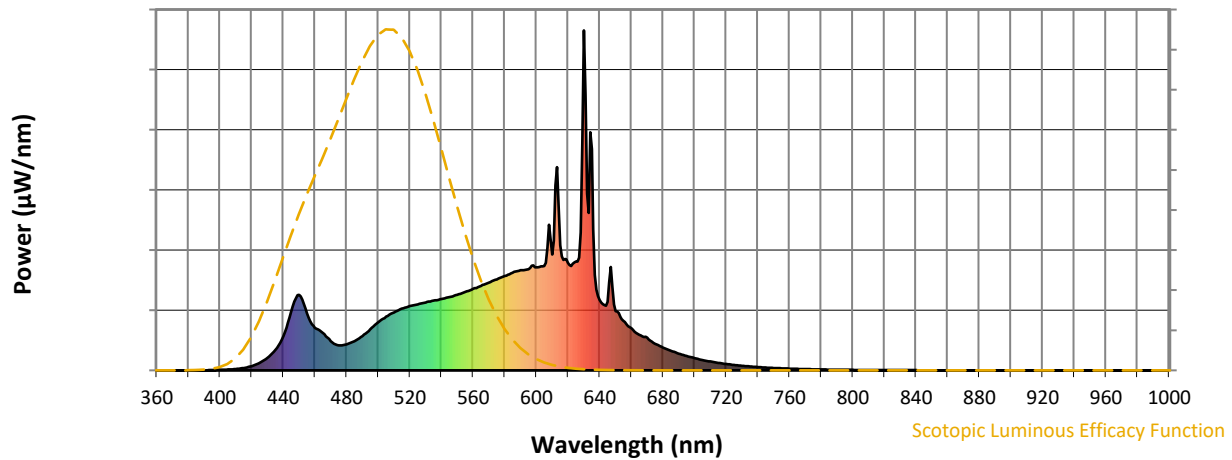


Photopic Lumens: NR

| 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)