

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: P1433374

Luminaire Tested: EHBR1-60-UNV-TASM-L930-UPL24

Issue Date: 3/20/2026

Test Information

Test Method: LM-79-2019
Report Number: P1433374
REPORT IS A COMBINATION OF REPORTS P1431903 AND P1431635
Test Lab: INNOVATION CENTER
Issue Date: 3/20/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: EHBR1-60-UNV-TASM-L930-UPL24
Description: Elevate Round Highbay at, 60000 lumens, 3000K 90CRI LEDs with TASM lens
Light Source: -
Ballast/Driver: -

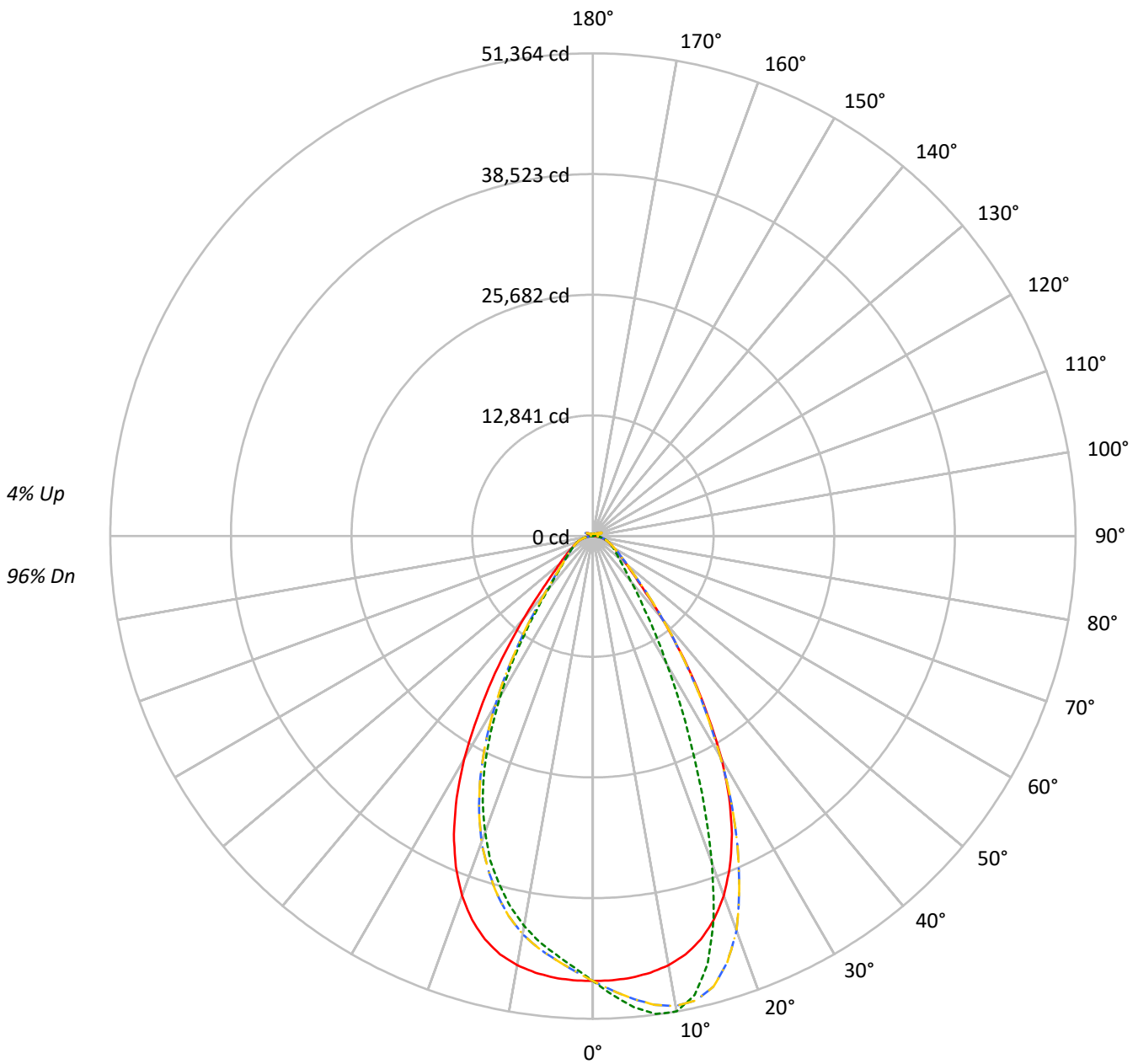
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 55096.6 lumens
Efficiency: N/A
Efficacy: 158.8 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): 346.9
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: P1433374
CATALOG NUMBER: EHBR1-60-UNV-TASM-L930-UPL24

Luminous Intensity Polar Plot



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



TEST NUMBER: P1433374
 CATALOG NUMBER: EHBR1-60-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 | 102 | 108 | 105 | 102 | 100 | 100 | 98 | 96 | 96 | 94 | 92 | 91 | 90 | 89 | 89 | 89 | 89 | 87 |
| 2 | 104 | 98 | 93 | 89 | 101 | 96 | 91 | 88 | 92 | 88 | 85 | 88 | 85 | 83 | 85 | 82 | 80 | 80 | 80 | 80 | 78 |
| 3 | 98 | 90 | 84 | 79 | 95 | 88 | 83 | 78 | 85 | 80 | 76 | 82 | 78 | 75 | 79 | 76 | 73 | 73 | 73 | 73 | 71 |
| 4 | 92 | 83 | 76 | 71 | 89 | 81 | 75 | 70 | 78 | 73 | 69 | 76 | 71 | 68 | 73 | 70 | 67 | 67 | 67 | 67 | 65 |
| 5 | 86 | 76 | 70 | 65 | 84 | 75 | 69 | 64 | 73 | 67 | 63 | 71 | 66 | 62 | 69 | 65 | 61 | 61 | 61 | 61 | 60 |
| 6 | 81 | 71 | 64 | 59 | 79 | 70 | 64 | 59 | 68 | 62 | 58 | 66 | 61 | 57 | 64 | 60 | 57 | 57 | 57 | 57 | 55 |
| 7 | 77 | 66 | 59 | 55 | 75 | 65 | 59 | 54 | 64 | 58 | 54 | 62 | 57 | 53 | 60 | 56 | 53 | 53 | 53 | 53 | 51 |
| 8 | 73 | 62 | 55 | 51 | 71 | 61 | 55 | 50 | 60 | 54 | 50 | 58 | 53 | 49 | 57 | 52 | 49 | 49 | 49 | 49 | 47 |
| 9 | 69 | 58 | 51 | 47 | 67 | 57 | 51 | 47 | 56 | 50 | 46 | 55 | 50 | 46 | 54 | 49 | 46 | 46 | 46 | 46 | 44 |
| 10 | 65 | 55 | 48 | 44 | 64 | 54 | 48 | 44 | 53 | 47 | 43 | 52 | 47 | 43 | 51 | 46 | 43 | 43 | 43 | 43 | 41 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° | 270° |
|-----|--------|--------|--------|--------|
| 0° | 222292 | 222292 | 222292 | 222292 |
| 5° | 220939 | 235702 | 220939 | 209474 |
| 10° | 218223 | 241752 | 218223 | 198249 |
| 15° | 211780 | 224663 | 211780 | 183129 |
| 20° | 198067 | 180149 | 198067 | 163116 |
| 25° | 175305 | 124818 | 175305 | 136699 |
| 30° | 142341 | 81203 | 142341 | 102278 |
| 35° | 102092 | 52589 | 102092 | 68089 |
| 40° | 66006 | 36247 | 66006 | 42940 |
| 45° | 41881 | 28077 | 41881 | 30595 |
| 50° | 31101 | 23858 | 31101 | 25485 |
| 55° | 25392 | 21734 | 25392 | 22495 |
| 60° | 21988 | 20704 | 21988 | 20828 |
| 65° | 20044 | 19967 | 20044 | 19882 |
| 70° | 18998 | 19564 | 18998 | 19311 |
| 75° | 17766 | 18926 | 17766 | 18358 |
| 80° | 15606 | 17868 | 15606 | 16705 |
| 85° | 10099 | 12755 | 10099 | 12162 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 58881 cd/sqm



TEST NUMBER: P1433374
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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 4500.9 | 8.2 |
| 10°-20° | 12244.9 | 22.2 |
| 20°-30° | 14360.8 | 26.1 |
| 30°-40° | 9987.1 | 18.1 |
| 40°-50° | 4963.1 | 9.0 |
| 50°-60° | 2968.4 | 5.4 |
| 60°-70° | 2089.3 | 3.8 |
| 70°-80° | 1345.9 | 2.4 |
| 80°-90° | 431.3 | 0.8 |
| 90°-100° | 59.6 | 0.1 |
| 100°-110° | 380.9 | 0.7 |
| 110°-120° | 702.2 | 1.3 |
| 120°-130° | 418.6 | 0.8 |
| 130°-140° | 254.9 | 0.5 |
| 140°-150° | 177.9 | 0.3 |
| 150°-160° | 117.9 | 0.2 |
| 160°-170° | 69.4 | 0.1 |
| 170°-180° | 23.5 | 0.0 |
| 0°-30° | 31106.7 | 56.5 |
| 0°-40° | 41093.7 | 74.6 |
| 0°-60° | 49025.3 | 89.0 |
| 0°-90° | 52891.8 | 96.0 |
| 90°-120° | 1142.7 | 2.1 |
| 90°-150° | 1994.1 | 3.6 |
| 90°-180° | 2205.0 | 4.0 |
| 0°-180° | 55096.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 90° | 180° | 270° | 360° | Flux |
|------|-------|-------|-------|-------|-------|-------|
| 0° | 47336 | 47336 | 47336 | 47336 | 47336 | |
| 5° | 47174 | 50326 | 47174 | 44726 | 47174 | 4477 |
| 15° | 44430 | 47133 | 44430 | 38420 | 44430 | 12417 |
| 25° | 35008 | 24926 | 35008 | 27299 | 35008 | 15849 |
| 35° | 18738 | 9652 | 18738 | 12497 | 18738 | 11697 |
| 45° | 6776 | 4543 | 6776 | 4950 | 6776 | 5545 |
| 55° | 3432 | 2937 | 3432 | 3040 | 3432 | 3138 |
| 65° | 2092 | 2084 | 2092 | 2075 | 2092 | 2101 |
| 75° | 1252 | 1333 | 1252 | 1293 | 1252 | 1314 |
| 85° | 347 | 438 | 347 | 418 | 347 | 386 |
| 90° | 17 | 23 | 17 | 17 | 17 | 24 |
| 95° | 32 | 34 | 32 | 27 | 32 | 34 |
| 105° | 175 | 94 | 175 | 133 | 175 | 236 |
| 115° | 747 | 642 | 747 | 606 | 747 | 681 |
| 125° | 479 | 505 | 479 | 439 | 479 | 441 |
| 135° | 306 | 354 | 306 | 322 | 306 | 242 |
| 145° | 279 | 292 | 279 | 271 | 279 | 175 |
| 155° | 252 | 263 | 252 | 246 | 252 | 117 |
| 165° | 243 | 253 | 243 | 239 | 243 | 69 |
| 175° | 247 | 255 | 247 | 242 | 247 | 23 |
| 180° | 247 | 247 | 247 | 247 | 247 | |



TEST NUMBER: P1433374
 CATALOG NUMBER: EHBR1-60-UNV-TASM-L930-UPL24

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 47335.6 | 47335.6 | 47335.6 | 47335.6 | 47335.6 | 47335.6 | 47335.6 | 47335.6 | 47335.6 | 47335.6 | 47335.6 |
| 2.5° | 47308.0 | 47919.6 | 48414.9 | 48741.5 | 48903.1 | 48741.5 | 48414.9 | 47919.6 | 47308.0 | 46700.0 | 46282.0 |
| 5° | 47174.0 | 48398.9 | 49436.5 | 50115.6 | 50326.0 | 50115.6 | 49436.5 | 48398.9 | 47174.0 | 46016.6 | 45248.8 |
| 7.5° | 46853.6 | 48761.9 | 50303.8 | 51096.4 | 51289.9 | 51096.4 | 50303.8 | 48761.9 | 46853.6 | 45215.0 | 44244.9 |
| 10° | 46364.5 | 48991.0 | 50772.4 | 51340.4 | 51363.5 | 51340.4 | 50772.4 | 48991.0 | 46364.5 | 44157.1 | 43012.9 |
| 12.5° | 45584.3 | 48909.3 | 50615.3 | 50428.9 | 50005.5 | 50428.9 | 50615.3 | 48909.3 | 45584.3 | 42864.6 | 41421.3 |
| 15° | 44430.4 | 48425.5 | 49620.3 | 48103.4 | 47133.2 | 48103.4 | 49620.3 | 48425.5 | 44430.4 | 41119.6 | 39445.6 |
| 17.5° | 42804.3 | 47520.2 | 47543.3 | 44542.2 | 42712.0 | 44542.2 | 47543.3 | 47520.2 | 42804.3 | 38985.8 | 37142.2 |
| 20° | 40708.6 | 46068.0 | 44683.4 | 39194.4 | 37025.9 | 39194.4 | 44683.4 | 46068.0 | 40708.6 | 36463.2 | 34654.2 |
| 22.5° | 38081.3 | 44110.0 | 40700.7 | 33814.6 | 30856.1 | 33814.6 | 40700.7 | 44110.0 | 38081.3 | 33529.6 | 31647.0 |
| 25° | 35008.3 | 41710.8 | 36416.2 | 27952.7 | 24926.0 | 27952.7 | 36416.2 | 41710.8 | 35008.3 | 30034.2 | 28331.7 |
| 27.5° | 31394.0 | 38669.8 | 31853.8 | 22841.9 | 20049.4 | 22841.9 | 31853.8 | 38669.8 | 31394.0 | 26425.2 | 24686.4 |
| 30° | 27379.3 | 34771.4 | 27106.0 | 18190.8 | 15619.4 | 18190.8 | 27106.0 | 34771.4 | 27379.3 | 22370.6 | 20813.6 |
| 32.5° | 22884.5 | 30950.2 | 22546.3 | 14575.5 | 12397.3 | 14575.5 | 22546.3 | 30950.2 | 22884.5 | 18501.4 | 16874.4 |
| 35° | 18737.6 | 26169.5 | 18434.8 | 11452.8 | 9651.9 | 11452.8 | 18434.8 | 26169.5 | 18737.6 | 14848.9 | 13251.2 |
| 37.5° | 14705.1 | 21652.5 | 14695.3 | 9222.3 | 7828.8 | 9222.3 | 14695.3 | 21652.5 | 14705.1 | 11544.3 | 10247.5 |
| 40° | 11440.5 | 16930.3 | 11514.2 | 7361.9 | 6282.5 | 7361.9 | 11514.2 | 16930.3 | 11440.5 | 8783.8 | 7953.9 |
| 42.5° | 8668.5 | 12945.9 | 9050.2 | 6042.0 | 5336.3 | 6042.0 | 9050.2 | 12945.9 | 8668.5 | 6920.7 | 6299.4 |
| 45° | 6776.1 | 9526.7 | 7067.2 | 5097.6 | 4542.8 | 5097.6 | 7067.2 | 9526.7 | 6776.1 | 5573.4 | 5156.1 |
| 47.5° | 5518.3 | 7362.8 | 5727.8 | 4372.4 | 3983.6 | 4372.4 | 5727.8 | 7362.8 | 5518.3 | 4714.1 | 4401.7 |
| 50° | 4635.1 | 5649.6 | 4755.8 | 3816.8 | 3555.7 | 3816.8 | 4755.8 | 5649.6 | 4635.1 | 4036.9 | 3828.2 |
| 52.5° | 3981.8 | 4607.6 | 4050.1 | 3401.3 | 3225.6 | 3401.3 | 4050.1 | 4607.6 | 3981.8 | 3531.9 | 3402.2 |
| 55° | 3431.5 | 3873.5 | 3522.1 | 3058.7 | 2937.1 | 3058.7 | 3522.1 | 3873.5 | 3431.5 | 3143.1 | 3047.2 |
| 57.5° | 3013.5 | 3286.0 | 3058.7 | 2766.7 | 2685.9 | 2766.7 | 3058.7 | 3286.0 | 3013.5 | 2796.8 | 2745.4 |
| 60° | 2643.3 | 2845.7 | 2699.3 | 2511.9 | 2488.9 | 2511.9 | 2699.3 | 2845.7 | 2643.3 | 2516.4 | 2482.6 |
| 62.5° | 2358.4 | 2486.2 | 2386.8 | 2282.9 | 2262.5 | 2282.9 | 2386.8 | 2486.2 | 2358.4 | 2260.7 | 2267.0 |
| 65° | 2092.1 | 2211.0 | 2132.9 | 2077.0 | 2084.1 | 2077.0 | 2132.9 | 2211.0 | 2092.1 | 2046.9 | 2056.6 |
| 67.5° | 1886.2 | 1948.3 | 1914.6 | 1882.6 | 1890.6 | 1882.6 | 1914.6 | 1948.3 | 1886.2 | 1841.8 | 1856.9 |
| 70° | 1667.0 | 1733.5 | 1698.9 | 1703.3 | 1716.6 | 1703.3 | 1698.9 | 1733.5 | 1667.0 | 1653.6 | 1665.2 |
| 72.5° | 1457.5 | 1509.0 | 1497.4 | 1508.1 | 1522.2 | 1508.1 | 1497.4 | 1509.0 | 1457.5 | 1455.7 | 1456.6 |
| 75° | 1251.5 | 1290.5 | 1295.9 | 1311.0 | 1333.2 | 1311.0 | 1295.9 | 1290.5 | 1251.5 | 1238.2 | 1254.2 |
| 77.5° | 1026.9 | 1071.3 | 1088.2 | 1108.7 | 1141.5 | 1108.7 | 1088.2 | 1071.3 | 1026.9 | 1035.9 | 1043.8 |
| 80° | 821.0 | 841.4 | 878.8 | 893.8 | 940.0 | 893.8 | 878.8 | 841.4 | 821.0 | 805.9 | 817.5 |
| 82.5° | 600.9 | 619.5 | 651.5 | 679.9 | 706.6 | 679.9 | 651.5 | 619.5 | 600.9 | 593.9 | 594.7 |
| 85° | 347.1 | 375.4 | 396.7 | 430.5 | 438.4 | 430.5 | 396.7 | 375.4 | 347.1 | 355.0 | 347.1 |
| 87.5° | 121.6 | 130.5 | 149.1 | 162.5 | 163.3 | 162.5 | 149.1 | 130.5 | 121.6 | 124.2 | 112.7 |
| 90° | 16.6 | 28.2 | 48.5 | 29.4 | 22.8 | 29.4 | 48.5 | 28.2 | 16.6 | 28.6 | 44.3 |
| 92.5° | 21.4 | 37.9 | 67.7 | 37.9 | 28.8 | 37.9 | 67.7 | 37.9 | 21.4 | 37.0 | 70.8 |
| 95° | 31.9 | 46.3 | 85.8 | 41.4 | 33.6 | 41.4 | 85.8 | 46.3 | 31.9 | 49.1 | 98.5 |
| 97.5° | 48.7 | 57.2 | 96.6 | 43.9 | 39.7 | 43.9 | 96.6 | 57.2 | 48.7 | 59.9 | 112.9 |
| 100° | 64.4 | 64.4 | 174.9 | 49.9 | 44.5 | 49.9 | 174.9 | 64.4 | 64.4 | 74.1 | 175.6 |
| 102.5° | 97.0 | 125.6 | 403.4 | 96.6 | 52.9 | 96.6 | 403.4 | 125.6 | 97.0 | 137.9 | 371.9 |
| 105° | 175.2 | 284.5 | 708.2 | 242.3 | 93.6 | 242.3 | 708.2 | 284.5 | 175.2 | 287.2 | 662.1 |
| 107.5° | 330.6 | 529.0 | 911.7 | 473.6 | 210.4 | 473.6 | 911.7 | 529.0 | 330.6 | 507.7 | 873.8 |
| 110° | 528.1 | 738.6 | 994.8 | 647.0 | 419.9 | 647.0 | 994.8 | 738.6 | 528.1 | 696.8 | 915.9 |



TEST NUMBER: P1433374

CATALOG NUMBER: EHBR1-60-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° | 687.1 | 822.9 | 972.0 | 716.8 | 578.9 | 716.8 | 972.0 | 822.9 | 687.1 | 769.0 | 877.4 |
| 115° | 747.0 | 810.8 | 868.3 | 714.4 | 641.5 | 714.4 | 868.3 | 810.8 | 747.0 | 751.0 | 783.5 |
| 117.5° | 721.7 | 742.2 | 750.3 | 671.1 | 645.2 | 671.1 | 750.3 | 742.2 | 721.7 | 675.9 | 665.4 |
| 120° | 651.9 | 643.4 | 633.2 | 607.2 | 609.0 | 607.2 | 633.2 | 643.4 | 651.9 | 590.5 | 555.8 |
| 122.5° | 564.8 | 546.8 | 535.6 | 543.1 | 559.6 | 543.1 | 535.6 | 546.8 | 564.8 | 503.4 | 477.2 |
| 125° | 479.3 | 461.3 | 467.8 | 487.7 | 505.1 | 487.7 | 467.8 | 461.3 | 479.3 | 428.5 | 421.5 |
| 127.5° | 408.0 | 399.5 | 418.5 | 440.8 | 455.7 | 440.8 | 418.5 | 399.5 | 408.0 | 375.4 | 381.8 |
| 130° | 357.1 | 358.6 | 383.5 | 403.1 | 412.4 | 403.1 | 383.5 | 358.6 | 357.1 | 341.4 | 357.3 |
| 132.5° | 325.4 | 334.2 | 358.0 | 375.1 | 380.8 | 375.1 | 358.0 | 334.2 | 325.4 | 321.5 | 341.0 |
| 135° | 305.8 | 318.5 | 340.8 | 351.3 | 354.2 | 351.3 | 340.8 | 318.5 | 305.8 | 307.9 | 325.4 |
| 137.5° | 294.7 | 307.4 | 323.9 | 332.9 | 331.4 | 332.9 | 323.9 | 307.4 | 294.7 | 299.2 | 312.7 |
| 140° | 288.4 | 301.0 | 308.2 | 318.5 | 317.8 | 318.5 | 308.2 | 301.0 | 288.4 | 290.8 | 301.6 |
| 142.5° | 282.0 | 293.5 | 297.1 | 304.9 | 303.3 | 304.9 | 297.1 | 293.5 | 282.0 | 284.5 | 291.7 |
| 145° | 279.3 | 288.0 | 284.7 | 294.1 | 292.1 | 294.1 | 284.7 | 288.0 | 279.3 | 279.6 | 284.1 |
| 147.5° | 273.2 | 279.6 | 276.0 | 284.1 | 282.2 | 284.1 | 276.0 | 279.6 | 273.2 | 273.2 | 275.3 |
| 150° | 266.8 | 271.6 | 266.0 | 275.3 | 275.8 | 275.3 | 266.0 | 271.6 | 266.8 | 265.6 | 267.7 |
| 152.5° | 258.1 | 262.9 | 258.1 | 268.6 | 268.3 | 268.6 | 258.1 | 262.9 | 258.1 | 256.9 | 259.0 |
| 155° | 251.5 | 253.9 | 251.5 | 262.0 | 262.9 | 262.0 | 251.5 | 253.9 | 251.5 | 250.6 | 252.4 |
| 157.5° | 247.2 | 249.3 | 248.1 | 257.5 | 258.3 | 257.5 | 248.1 | 249.3 | 247.2 | 247.2 | 248.1 |
| 160° | 244.7 | 247.1 | 246.8 | 255.0 | 255.8 | 255.0 | 246.8 | 247.1 | 244.7 | 245.1 | 246.0 |
| 162.5° | 244.1 | 244.1 | 244.7 | 252.8 | 254.6 | 252.8 | 244.7 | 244.1 | 244.1 | 244.1 | 245.3 |
| 165° | 243.2 | 244.4 | 243.7 | 250.3 | 253.4 | 250.3 | 243.7 | 244.4 | 243.2 | 243.5 | 243.5 |
| 167.5° | 243.7 | 242.6 | 244.4 | 250.6 | 253.6 | 250.6 | 244.4 | 242.6 | 243.7 | 244.1 | 244.1 |
| 170° | 242.2 | 243.1 | 243.7 | 250.0 | 252.9 | 250.0 | 243.7 | 243.1 | 242.2 | 243.5 | 243.7 |
| 172.5° | 244.9 | 244.9 | 245.2 | 250.1 | 254.3 | 250.1 | 245.2 | 244.9 | 244.9 | 245.2 | 246.4 |
| 175° | 246.7 | 246.4 | 246.8 | 250.8 | 255.0 | 250.8 | 246.8 | 246.4 | 246.7 | 245.8 | 245.8 |
| 177.5° | 245.5 | 247.3 | 249.0 | 252.8 | 258.3 | 252.8 | 249.0 | 247.3 | 245.5 | 245.8 | 245.8 |
| 180° | 247.3 | 247.3 | 247.3 | 247.3 | 247.3 | 247.3 | 247.3 | 247.3 | 247.3 | 247.3 | 247.3 |



TEST NUMBER: P1433374

CATALOG NUMBER: EHBR1-60-UNV-TASM-L930-UPL24

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|--------|---------|---------|---------|---------|---------|---------|
| 0° | 47335.6 | 47335.6 | 47335.6 | 47335.6 | 47335.6 | 47335.6 |
| 2.5° | 45960.6 | 45930.4 | 45960.6 | 46282.0 | 46700.0 | 47308.0 |
| 5° | 44892.9 | 44726.0 | 44892.9 | 45248.8 | 46016.6 | 47174.0 |
| 7.5° | 43649.3 | 43552.5 | 43649.3 | 44244.9 | 45215.0 | 46853.6 |
| 10° | 42340.1 | 42120.8 | 42340.1 | 43012.9 | 44157.1 | 46364.5 |
| 12.5° | 40726.3 | 40436.1 | 40726.3 | 41421.3 | 42864.6 | 45584.3 |
| 15° | 38674.2 | 38419.5 | 38674.2 | 39445.6 | 41119.6 | 44430.4 |
| 17.5° | 36472.0 | 36241.2 | 36472.0 | 37142.2 | 38985.8 | 42804.3 |
| 20° | 33706.2 | 33525.1 | 33706.2 | 34654.2 | 36463.2 | 40708.6 |
| 22.5° | 30804.7 | 30635.1 | 30804.7 | 31647.0 | 33529.6 | 38081.3 |
| 25° | 27390.9 | 27298.6 | 27390.9 | 28331.7 | 30034.2 | 35008.3 |
| 27.5° | 23701.9 | 23544.8 | 23701.9 | 24686.4 | 26425.2 | 31394.0 |
| 30° | 19933.1 | 19673.1 | 19933.1 | 20813.6 | 22370.6 | 27379.3 |
| 32.5° | 16246.9 | 16059.6 | 16246.9 | 16874.4 | 18501.4 | 22884.5 |
| 35° | 12684.0 | 12496.7 | 12684.0 | 13251.2 | 14848.9 | 18737.6 |
| 37.5° | 9883.5 | 9552.5 | 9883.5 | 10247.5 | 11544.3 | 14705.1 |
| 40° | 7495.9 | 7442.6 | 7495.9 | 7953.9 | 8783.8 | 11440.5 |
| 42.5° | 6102.3 | 5957.6 | 6102.3 | 6299.4 | 6920.7 | 8668.5 |
| 45° | 5007.0 | 4950.2 | 5007.0 | 5156.1 | 5573.4 | 6776.1 |
| 47.5° | 4305.8 | 4330.7 | 4305.8 | 4401.7 | 4714.1 | 5518.3 |
| 50° | 3783.0 | 3798.1 | 3783.0 | 3828.2 | 4036.9 | 4635.1 |
| 52.5° | 3397.8 | 3384.5 | 3397.8 | 3402.2 | 3531.9 | 3981.8 |
| 55° | 3057.0 | 3040.0 | 3057.0 | 3047.2 | 3143.1 | 3431.5 |
| 57.5° | 2758.7 | 2771.1 | 2758.7 | 2745.4 | 2796.8 | 3013.5 |
| 60° | 2492.4 | 2503.9 | 2492.4 | 2482.6 | 2516.4 | 2643.3 |
| 62.5° | 2267.9 | 2275.0 | 2267.9 | 2267.0 | 2260.7 | 2358.4 |
| 65° | 2067.3 | 2075.2 | 2067.3 | 2056.6 | 2046.9 | 2092.1 |
| 67.5° | 1875.5 | 1875.5 | 1875.5 | 1856.9 | 1841.8 | 1886.2 |
| 70° | 1695.3 | 1694.4 | 1695.3 | 1665.2 | 1653.6 | 1667.0 |
| 72.5° | 1478.8 | 1500.1 | 1478.8 | 1456.6 | 1455.7 | 1457.5 |
| 75° | 1268.4 | 1293.2 | 1268.4 | 1254.2 | 1238.2 | 1251.5 |
| 77.5° | 1055.4 | 1093.5 | 1055.4 | 1043.8 | 1035.9 | 1026.9 |
| 80° | 837.0 | 878.8 | 837.0 | 817.5 | 805.9 | 821.0 |
| 82.5° | 618.6 | 649.7 | 618.6 | 594.7 | 593.9 | 600.9 |
| 85° | 368.4 | 418.0 | 368.4 | 347.1 | 355.0 | 347.1 |
| 87.5° | 118.1 | 150.9 | 118.1 | 112.7 | 124.2 | 121.6 |
| 90° | 26.2 | 16.6 | 26.2 | 44.3 | 28.6 | 16.6 |
| 92.5° | 39.5 | 23.8 | 39.5 | 70.8 | 37.0 | 21.4 |
| 95° | 45.4 | 27.4 | 45.4 | 98.5 | 49.1 | 31.9 |
| 97.5° | 50.3 | 35.5 | 50.3 | 112.9 | 59.9 | 48.7 |
| 100° | 58.7 | 46.3 | 58.7 | 175.6 | 74.1 | 64.4 |
| 102.5° | 123.8 | 77.6 | 123.8 | 371.9 | 137.9 | 97.0 |
| 105° | 259.9 | 133.0 | 259.9 | 662.1 | 287.2 | 175.2 |
| 107.5° | 464.6 | 229.4 | 464.6 | 873.8 | 507.7 | 330.6 |
| 110° | 616.3 | 426.9 | 616.3 | 915.9 | 696.8 | 528.1 |



TEST NUMBER: P1433374

CATALOG NUMBER: EHBR1-60-UNV-TASM-L930-UPL24

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|--------|--------|-------|--------|-------|--------|-------|
| 112.5° | 662.1 | 576.3 | 662.1 | 877.4 | 769.0 | 687.1 |
| 115° | 636.8 | 606.4 | 636.8 | 783.5 | 751.0 | 747.0 |
| 117.5° | 581.5 | 585.9 | 581.5 | 665.4 | 675.9 | 721.7 |
| 120° | 517.6 | 542.6 | 517.6 | 555.8 | 590.5 | 651.9 |
| 122.5° | 459.5 | 488.3 | 459.5 | 477.2 | 503.4 | 564.8 |
| 125° | 408.9 | 438.7 | 408.9 | 421.5 | 428.5 | 479.3 |
| 127.5° | 373.9 | 394.2 | 373.9 | 381.8 | 375.4 | 408.0 |
| 130° | 347.1 | 364.0 | 347.1 | 357.3 | 341.4 | 357.1 |
| 132.5° | 328.7 | 339.6 | 328.7 | 341.0 | 321.5 | 325.4 |
| 135° | 312.8 | 321.5 | 312.8 | 325.4 | 307.9 | 305.8 |
| 137.5° | 299.2 | 306.7 | 299.2 | 312.7 | 299.2 | 294.7 |
| 140° | 287.7 | 294.1 | 287.7 | 301.6 | 290.8 | 288.4 |
| 142.5° | 275.4 | 280.3 | 275.4 | 291.7 | 284.5 | 282.0 |
| 145° | 267.5 | 271.2 | 267.5 | 284.1 | 279.6 | 279.3 |
| 147.5° | 260.8 | 263.2 | 260.8 | 275.3 | 273.2 | 273.2 |
| 150° | 254.2 | 256.6 | 254.2 | 267.7 | 265.6 | 266.8 |
| 152.5° | 246.7 | 250.0 | 246.7 | 259.0 | 256.9 | 258.1 |
| 155° | 242.4 | 245.7 | 242.4 | 252.4 | 250.6 | 251.5 |
| 157.5° | 240.5 | 243.5 | 240.5 | 248.1 | 247.2 | 247.2 |
| 160° | 239.6 | 241.7 | 239.6 | 246.0 | 245.1 | 244.7 |
| 162.5° | 237.8 | 239.9 | 237.8 | 245.3 | 244.1 | 244.1 |
| 165° | 238.4 | 239.3 | 238.4 | 243.5 | 243.5 | 243.2 |
| 167.5° | 238.0 | 239.3 | 238.0 | 244.1 | 244.1 | 243.7 |
| 170° | 238.9 | 239.8 | 238.9 | 243.7 | 243.5 | 242.2 |
| 172.5° | 240.7 | 241.6 | 240.7 | 246.4 | 245.2 | 244.9 |
| 175° | 241.3 | 242.2 | 241.3 | 245.8 | 245.8 | 246.7 |
| 177.5° | 243.4 | 244.3 | 243.4 | 245.8 | 245.8 | 245.5 |
| 180° | 247.3 | 247.3 | 247.3 | 247.3 | 247.3 | 247.3 |



TEST NUMBER: P1433374
 CATALOG NUMBER: EHBR1-60-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 | 19.63 | 20.77 | 20.07 | 21.17 | 21.59 | 18.95 | 20.09 | 19.38 | 20.49 | 20.91 |
| | 3H | 21.18 | 22.19 | 21.63 | 22.61 | 23.08 | 20.80 | 21.81 | 21.25 | 22.23 | 22.70 |
| | 4H | 21.81 | 22.76 | 22.29 | 23.20 | 23.68 | 21.58 | 22.53 | 22.05 | 22.96 | 23.45 |
| | 6H | 22.30 | 23.17 | 22.78 | 23.62 | 24.12 | 22.22 | 23.09 | 22.71 | 23.55 | 24.04 |
| | 8H | 22.45 | 23.27 | 22.95 | 23.75 | 24.25 | 22.44 | 23.27 | 22.95 | 23.74 | 24.25 |
| | 12H | 22.52 | 23.31 | 23.03 | 23.77 | 24.30 | 22.57 | 23.36 | 23.08 | 23.83 | 24.35 |
| 4H | 2H | 20.05 | 20.99 | 20.52 | 21.43 | 21.91 | 19.52 | 20.47 | 20.00 | 20.91 | 21.39 |
| | 3H | 21.84 | 22.63 | 22.33 | 23.11 | 23.61 | 21.58 | 22.37 | 22.07 | 22.85 | 23.35 |
| | 4H | 22.62 | 23.32 | 23.13 | 23.82 | 24.36 | 22.49 | 23.20 | 23.00 | 23.69 | 24.23 |
| | 6H | 23.23 | 23.84 | 23.77 | 24.36 | 24.93 | 23.26 | 23.87 | 23.80 | 24.39 | 24.95 |
| | 8H | 23.43 | 24.00 | 23.97 | 24.52 | 25.08 | 23.53 | 24.10 | 24.07 | 24.62 | 25.19 |
| | 12H | 23.54 | 24.04 | 24.09 | 24.59 | 25.16 | 23.70 | 24.20 | 24.26 | 24.76 | 25.33 |
| 8H | 4H | 22.87 | 23.44 | 23.41 | 23.96 | 24.52 | 22.77 | 23.34 | 23.31 | 23.86 | 24.43 |
| | 6H | 23.61 | 24.07 | 24.18 | 24.64 | 25.22 | 23.68 | 24.14 | 24.25 | 24.71 | 25.28 |
| | 8H | 23.88 | 24.29 | 24.47 | 24.88 | 25.46 | 24.03 | 24.44 | 24.62 | 25.03 | 25.61 |
| | 12H | 24.06 | 24.41 | 24.64 | 24.98 | 25.64 | 24.28 | 24.64 | 24.86 | 25.20 | 25.87 |
| 12H | 4H | 22.88 | 23.38 | 23.44 | 23.93 | 24.50 | 22.78 | 23.28 | 23.34 | 23.84 | 24.41 |
| | 6H | 23.65 | 24.07 | 24.24 | 24.65 | 25.24 | 23.72 | 24.13 | 24.31 | 24.72 | 25.30 |
| | 8H | 23.97 | 24.33 | 24.56 | 24.90 | 25.56 | 24.13 | 24.49 | 24.71 | 25.05 | 25.71 |

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

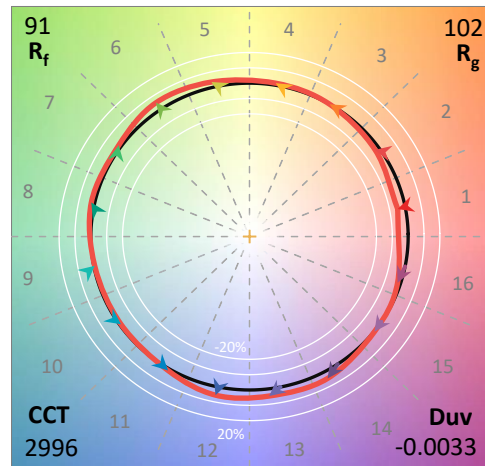
Test Information

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



CCT = 2996K
 CIE x = 0.4325
 CIE y = 0.3945
 Duv = -0.0033

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)