

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:

Luminaire Tested: EHBR1-42-UNV-TA-L950-UPL15

Issue Date: 3/20/2026

Test Information

Test Method: LM-79-2019
Report Number:
REPORT IS A COMBINATION OF REPORTS P1431797 AND P1431635
Test Lab: INNOVATION CENTER
Issue Date: 3/20/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: EHBR1-42-UNV-TA-L950-UPL15
Description: Elevate Round Highbay at, 42000 lumens, 5000K 90CRI LEDs with TA lens
Light Source: -
Ballast/Driver: -

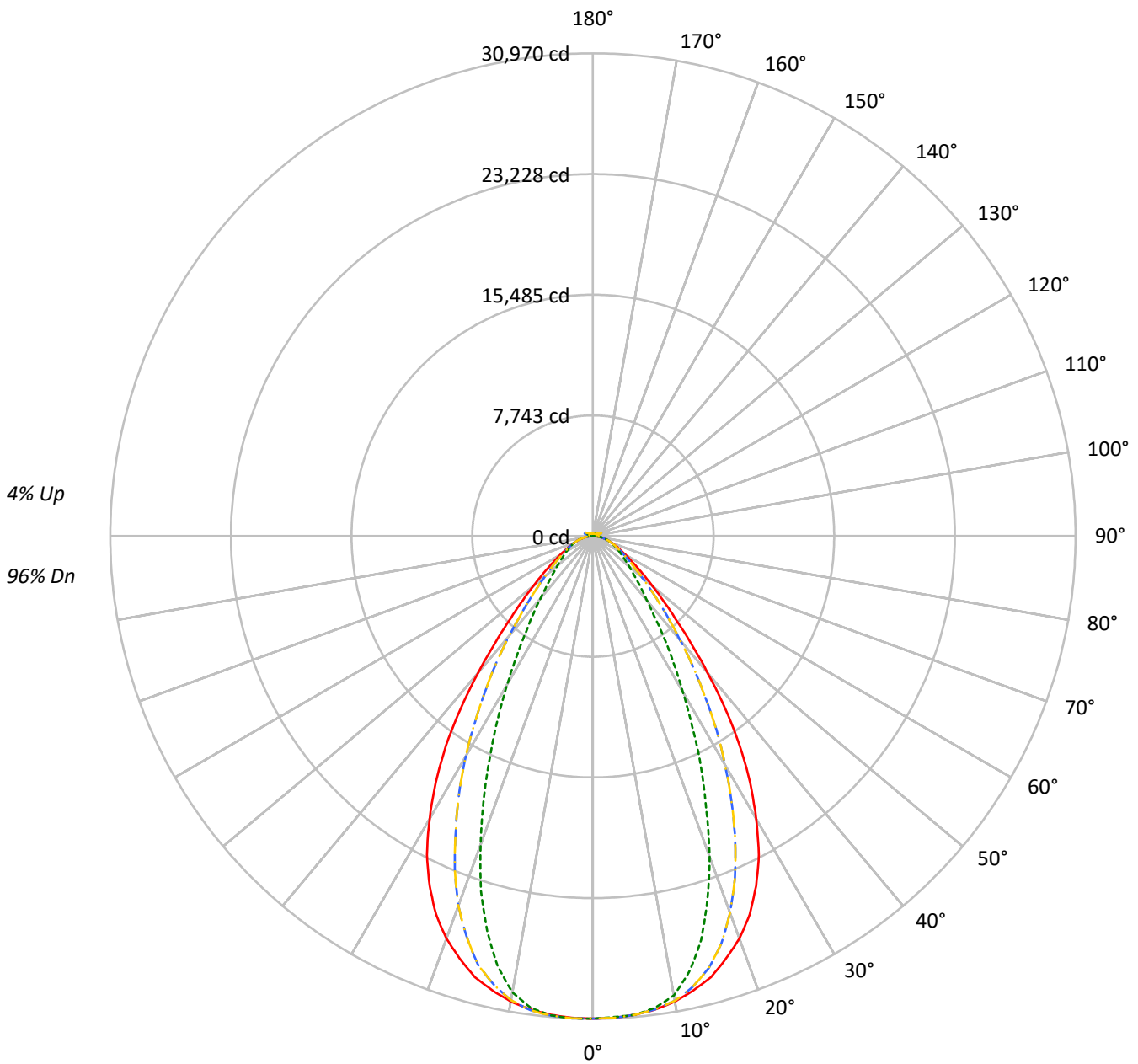
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39840.4 lumens
Efficiency: N/A
Efficacy: 170.5 lumens/watt
Spacing Criteria (0/90/45): 1.07 / 0.8 / 0.93
Luminous Opening: Vertical Cylinder (Dia: 1.71' x H: 0.1')
CIE Type: Direct

Input Watts (W): 233.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER:
CATALOG NUMBER: EHBR1-42-UNV-TA-L950-UPL15

Luminous Intensity Polar Plot



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



TEST NUMBER:

CATALOG NUMBER: EHBR1-42-UNV-TA-L950-UPL15

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 | 104 | 104 | 104 | 99 | 99 | 99 | 99 | 99 | 99 | 96 |
| 1 | 111 | 107 | 104 | 101 | 108 | 105 | 102 | 99 | 100 | 98 | 96 | 96 | 94 | 92 | 92 | 90 | 89 | 89 | 89 | 89 | 87 |
| 2 | 104 | 97 | 92 | 88 | 101 | 95 | 91 | 87 | 91 | 87 | 84 | 88 | 85 | 82 | 84 | 82 | 80 | 80 | 80 | 80 | 77 |
| 3 | 97 | 89 | 82 | 78 | 94 | 87 | 81 | 77 | 84 | 79 | 75 | 81 | 77 | 73 | 78 | 75 | 72 | 72 | 72 | 72 | 70 |
| 4 | 91 | 81 | 74 | 69 | 88 | 80 | 73 | 69 | 77 | 72 | 67 | 75 | 70 | 66 | 72 | 68 | 65 | 65 | 65 | 65 | 63 |
| 5 | 85 | 75 | 68 | 62 | 83 | 74 | 67 | 62 | 71 | 65 | 61 | 69 | 64 | 60 | 67 | 63 | 59 | 59 | 59 | 59 | 57 |
| 6 | 80 | 69 | 62 | 57 | 78 | 68 | 61 | 56 | 66 | 60 | 56 | 64 | 59 | 55 | 63 | 58 | 54 | 54 | 54 | 54 | 53 |
| 7 | 75 | 64 | 57 | 52 | 73 | 63 | 57 | 52 | 62 | 56 | 51 | 60 | 55 | 51 | 58 | 54 | 50 | 50 | 50 | 50 | 48 |
| 8 | 71 | 60 | 53 | 48 | 69 | 59 | 52 | 48 | 57 | 52 | 47 | 56 | 51 | 47 | 55 | 50 | 46 | 46 | 46 | 46 | 45 |
| 9 | 67 | 56 | 49 | 44 | 66 | 55 | 49 | 44 | 54 | 48 | 44 | 53 | 47 | 43 | 51 | 47 | 43 | 43 | 43 | 43 | 42 |
| 10 | 63 | 52 | 46 | 41 | 62 | 52 | 45 | 41 | 51 | 45 | 41 | 50 | 44 | 41 | 49 | 44 | 40 | 40 | 40 | 40 | 39 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° | 270° |
|-----|--------|--------|--------|--------|
| 0° | 145375 | 145375 | 145375 | 145375 |
| 5° | 144399 | 144414 | 144399 | 144566 |
| 10° | 142712 | 140844 | 142712 | 139923 |
| 15° | 139601 | 127864 | 139601 | 124928 |
| 20° | 133691 | 106551 | 133691 | 102403 |
| 25° | 124023 | 82402 | 124023 | 78133 |
| 30° | 108944 | 60064 | 108944 | 57011 |
| 35° | 89536 | 43296 | 89536 | 40471 |
| 40° | 65984 | 31150 | 65984 | 30188 |
| 45° | 46085 | 24545 | 46085 | 23695 |
| 50° | 33355 | 20364 | 33355 | 20056 |
| 55° | 25261 | 17785 | 25261 | 17546 |
| 60° | 20128 | 16040 | 20128 | 16153 |
| 65° | 16915 | 15001 | 16915 | 15144 |
| 70° | 15037 | 14246 | 15037 | 14387 |
| 75° | 13291 | 13291 | 13291 | 13421 |
| 80° | 10896 | 12004 | 10896 | 12004 |
| 85° | 6980 | 8318 | 6980 | 8563 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 48285 cd/sqm



TEST NUMBER:
 CATALOG NUMBER: EHBR1-42-UNV-TA-L950-UPL15

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 2923.4 | 7.3 |
| 10°-20° | 7857.0 | 19.7 |
| 20°-30° | 9554.0 | 24.0 |
| 30°-40° | 7782.5 | 19.5 |
| 40°-50° | 4672.6 | 11.7 |
| 50°-60° | 2689.1 | 6.7 |
| 60°-70° | 1682.9 | 4.2 |
| 70°-80° | 991.2 | 2.5 |
| 80°-90° | 292.3 | 0.7 |
| 90°-100° | 36.5 | 0.1 |
| 100°-110° | 241.2 | 0.6 |
| 110°-120° | 446.0 | 1.1 |
| 120°-130° | 264.9 | 0.7 |
| 130°-140° | 161.2 | 0.4 |
| 140°-150° | 113.0 | 0.3 |
| 150°-160° | 74.6 | 0.2 |
| 160°-170° | 43.4 | 0.1 |
| 170°-180° | 14.6 | 0.0 |
| 0°-30° | 20334.4 | 51.0 |
| 0°-40° | 28116.8 | 70.6 |
| 0°-60° | 35478.5 | 89.1 |
| 0°-90° | 38445.0 | 96.5 |
| 90°-120° | 723.7 | 1.8 |
| 90°-150° | 1262.8 | 3.2 |
| 90°-180° | 1395.0 | 3.5 |
| 0°-180° | 39840.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 90° | 180° | 270° | 360° | Flux |
|------|-------|-------|-------|-------|-------|-------|
| 0° | 30957 | 30957 | 30957 | 30957 | 30957 | |
| 5° | 30831 | 30835 | 30831 | 30867 | 30831 | 2927 |
| 15° | 29288 | 26825 | 29288 | 26209 | 29288 | 8211 |
| 25° | 24767 | 16456 | 24767 | 15603 | 24767 | 11291 |
| 35° | 16433 | 7946 | 16433 | 7428 | 16433 | 10147 |
| 45° | 7456 | 3971 | 7456 | 3834 | 7456 | 5940 |
| 55° | 3414 | 2404 | 3414 | 2371 | 3414 | 3139 |
| 65° | 1766 | 1566 | 1766 | 1581 | 1766 | 1784 |
| 75° | 936 | 936 | 936 | 945 | 936 | 989 |
| 85° | 240 | 286 | 240 | 294 | 240 | 263 |
| 90° | 10 | 11 | 10 | 11 | 10 | 15 |
| 95° | 19 | 18 | 19 | 18 | 19 | 21 |
| 105° | 111 | 85 | 111 | 56 | 111 | 149 |
| 115° | 475 | 387 | 475 | 405 | 475 | 433 |
| 125° | 303 | 280 | 303 | 318 | 303 | 279 |
| 135° | 193 | 206 | 193 | 223 | 193 | 153 |
| 145° | 176 | 172 | 176 | 186 | 176 | 111 |
| 155° | 158 | 156 | 158 | 168 | 158 | 74 |
| 165° | 151 | 152 | 151 | 158 | 151 | 43 |
| 175° | 152 | 155 | 152 | 158 | 152 | 14 |
| 180° | 154 | 154 | 154 | 154 | 154 | |



TEST NUMBER:

CATALOG NUMBER: EHBR1-42-UNV-TA-L950-UPL15

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 30956.6 | 30956.6 | 30956.6 | 30956.6 | 30956.6 | 30956.6 | 30956.6 | 30956.6 | 30956.6 | 30956.6 | 30956.6 |
| 2.5° | 30941.6 | 30934.5 | 30928.1 | 30916.4 | 30888.5 | 30916.4 | 30928.1 | 30934.5 | 30941.6 | 30961.1 | 30969.5 |
| 5° | 30831.4 | 30859.3 | 30830.1 | 30836.6 | 30834.7 | 30836.6 | 30830.1 | 30859.3 | 30831.4 | 30850.9 | 30885.9 |
| 7.5° | 30638.8 | 30633.6 | 30624.0 | 30585.7 | 30520.8 | 30585.7 | 30624.0 | 30633.6 | 30638.8 | 30662.9 | 30687.5 |
| 10° | 30321.2 | 30341.9 | 30273.1 | 30032.7 | 29924.3 | 30032.7 | 30273.1 | 30341.9 | 30321.2 | 30360.1 | 30235.6 |
| 12.5° | 29849.8 | 29900.4 | 29622.2 | 28997.2 | 28616.6 | 28997.2 | 29622.2 | 29900.4 | 29849.8 | 29884.1 | 29460.2 |
| 15° | 29287.6 | 29245.5 | 28697.0 | 27383.4 | 26825.1 | 27383.4 | 28697.0 | 29245.5 | 29287.6 | 29245.5 | 28466.8 |
| 17.5° | 28412.3 | 28473.3 | 27408.7 | 25474.5 | 24443.7 | 25474.5 | 27408.7 | 28473.3 | 28412.3 | 28432.5 | 26954.2 |
| 20° | 27477.4 | 27496.2 | 25720.3 | 22998.5 | 21899.4 | 22998.5 | 25720.3 | 27496.2 | 27477.4 | 27364.5 | 25235.9 |
| 22.5° | 26287.6 | 26294.8 | 23785.6 | 20439.3 | 19021.9 | 20439.3 | 23785.6 | 26294.8 | 26287.6 | 26099.6 | 23143.7 |
| 25° | 24767.2 | 24823.0 | 21608.3 | 17845.8 | 16455.7 | 17845.8 | 21608.3 | 24823.0 | 24767.2 | 24553.2 | 20819.2 |
| 27.5° | 23060.1 | 23098.3 | 19283.9 | 15247.8 | 13802.5 | 15247.8 | 19283.9 | 23098.3 | 23060.1 | 22826.7 | 18597.2 |
| 30° | 20955.4 | 21200.5 | 16949.7 | 12874.7 | 11553.3 | 12874.7 | 16949.7 | 21200.5 | 20955.4 | 20928.9 | 16306.6 |
| 32.5° | 18782.0 | 19215.8 | 14749.2 | 10759.1 | 9626.4 | 10759.1 | 14749.2 | 19215.8 | 18782.0 | 18905.9 | 14023.7 |
| 35° | 16433.1 | 16920.6 | 12465.6 | 8944.3 | 7946.4 | 8944.3 | 12465.6 | 16920.6 | 16433.1 | 16593.1 | 11928.8 |
| 37.5° | 13942.7 | 14688.3 | 10530.2 | 7408.9 | 6449.4 | 7408.9 | 10530.2 | 14688.3 | 13942.7 | 14244.7 | 10086.1 |
| 40° | 11436.7 | 12238.7 | 8694.6 | 6160.2 | 5399.0 | 6160.2 | 8694.6 | 12238.7 | 11436.7 | 11928.8 | 8327.7 |
| 42.5° | 9284.7 | 9900.0 | 7176.2 | 5148.7 | 4652.1 | 5148.7 | 7176.2 | 9900.0 | 9284.7 | 9633.5 | 6863.6 |
| 45° | 7456.3 | 7812.3 | 5937.8 | 4367.5 | 3971.3 | 4367.5 | 5937.8 | 7812.3 | 7456.3 | 7779.8 | 5680.4 |
| 47.5° | 6087.6 | 6308.7 | 4888.1 | 3774.2 | 3468.8 | 3774.2 | 4888.1 | 6308.7 | 6087.6 | 6190.0 | 4744.1 |
| 50° | 4971.0 | 5091.6 | 4109.4 | 3271.0 | 3035.0 | 3271.0 | 4109.4 | 5091.6 | 4971.0 | 5033.9 | 3973.9 |
| 52.5° | 4125.0 | 4184.6 | 3446.7 | 2871.0 | 2697.9 | 2871.0 | 3446.7 | 4184.6 | 4125.0 | 4134.7 | 3386.4 |
| 55° | 3413.7 | 3428.0 | 2942.3 | 2524.1 | 2403.5 | 2524.1 | 2942.3 | 3428.0 | 3413.7 | 3416.3 | 2893.1 |
| 57.5° | 2858.7 | 2879.4 | 2528.7 | 2245.9 | 2146.2 | 2245.9 | 2528.7 | 2879.4 | 2858.7 | 2863.3 | 2505.4 |
| 60° | 2419.7 | 2433.3 | 2185.0 | 1995.1 | 1928.3 | 1995.1 | 2185.0 | 2433.3 | 2419.7 | 2413.9 | 2171.4 |
| 62.5° | 2059.8 | 2085.9 | 1909.4 | 1777.9 | 1735.0 | 1777.9 | 1909.4 | 2085.9 | 2059.8 | 2065.7 | 1908.8 |
| 65° | 1765.5 | 1782.4 | 1673.4 | 1580.7 | 1565.8 | 1580.7 | 1673.4 | 1782.4 | 1765.5 | 1779.8 | 1678.6 |
| 67.5° | 1523.7 | 1543.2 | 1469.9 | 1415.4 | 1400.5 | 1415.4 | 1469.9 | 1543.2 | 1523.7 | 1535.4 | 1471.2 |
| 70° | 1319.4 | 1319.4 | 1279.9 | 1249.4 | 1250.0 | 1249.4 | 1279.9 | 1319.4 | 1319.4 | 1321.4 | 1287.0 |
| 72.5° | 1119.1 | 1126.2 | 1099.6 | 1090.6 | 1094.5 | 1090.6 | 1099.6 | 1126.2 | 1119.1 | 1143.7 | 1107.4 |
| 75° | 936.3 | 944.1 | 930.4 | 925.2 | 936.3 | 925.2 | 930.4 | 944.1 | 936.3 | 949.2 | 933.0 |
| 77.5° | 747.6 | 761.9 | 759.9 | 766.3 | 787.1 | 766.3 | 759.9 | 761.9 | 747.6 | 767.0 | 770.9 |
| 80° | 573.2 | 585.4 | 586.1 | 602.3 | 631.5 | 602.3 | 586.1 | 585.4 | 573.2 | 585.4 | 595.2 |
| 82.5° | 403.3 | 411.0 | 416.2 | 443.5 | 468.7 | 443.5 | 416.2 | 411.0 | 403.3 | 410.4 | 423.4 |
| 85° | 239.9 | 233.4 | 242.5 | 259.3 | 285.9 | 259.3 | 242.5 | 233.4 | 239.9 | 239.9 | 246.4 |
| 87.5° | 76.5 | 74.6 | 74.0 | 90.1 | 103.1 | 90.1 | 74.0 | 74.6 | 76.5 | 79.1 | 82.3 |
| 90° | 9.9 | 17.7 | 27.7 | 16.2 | 11.2 | 16.2 | 27.7 | 17.7 | 9.9 | 16.9 | 29.2 |
| 92.5° | 13.1 | 23.0 | 44.5 | 24.6 | 15.2 | 24.6 | 44.5 | 23.0 | 13.1 | 23.0 | 41.4 |
| 95° | 19.2 | 30.8 | 62.3 | 28.4 | 18.2 | 28.4 | 62.3 | 30.8 | 19.2 | 28.4 | 53.0 |
| 97.5° | 29.9 | 37.6 | 71.4 | 31.5 | 22.8 | 31.5 | 71.4 | 37.6 | 29.9 | 35.3 | 59.9 |
| 100° | 40.0 | 46.1 | 111.4 | 36.9 | 29.7 | 36.9 | 111.4 | 46.1 | 40.0 | 40.0 | 109.8 |
| 102.5° | 60.7 | 86.8 | 236.6 | 78.3 | 49.7 | 78.3 | 236.6 | 86.8 | 60.7 | 78.3 | 254.9 |
| 105° | 110.6 | 182.0 | 421.6 | 165.1 | 85.0 | 165.1 | 421.6 | 182.0 | 110.6 | 179.7 | 449.3 |
| 107.5° | 209.7 | 322.6 | 556.1 | 295.6 | 146.4 | 295.6 | 556.1 | 322.6 | 209.7 | 335.6 | 579.1 |
| 110° | 335.6 | 443.1 | 582.9 | 392.5 | 272.4 | 392.5 | 582.9 | 443.1 | 335.6 | 469.3 | 632.1 |



TEST NUMBER:

CATALOG NUMBER: EHBR1-42-UNV-TA-L950-UPL15

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|--------|-------|-------|-------|-------|-------|--------|-------|--------|-------|--------|-------|
| 112.5° | 437.0 | 489.2 | 558.3 | 421.6 | 367.7 | 421.6 | 558.3 | 489.2 | 437.0 | 523.0 | 617.5 |
| 115° | 474.6 | 477.7 | 498.5 | 405.5 | 386.9 | 405.5 | 498.5 | 477.7 | 474.6 | 515.4 | 551.4 |
| 117.5° | 458.5 | 429.3 | 423.2 | 370.2 | 374.4 | 370.2 | 423.2 | 429.3 | 458.5 | 471.5 | 476.2 |
| 120° | 413.9 | 374.8 | 353.2 | 329.5 | 346.1 | 329.5 | 353.2 | 374.8 | 413.9 | 408.6 | 400.9 |
| 122.5° | 357.9 | 318.7 | 302.6 | 292.5 | 312.2 | 292.5 | 302.6 | 318.7 | 357.9 | 346.4 | 338.7 |
| 125° | 303.4 | 270.4 | 266.5 | 260.2 | 279.9 | 260.2 | 266.5 | 270.4 | 303.4 | 291.8 | 295.6 |
| 127.5° | 257.3 | 236.6 | 241.2 | 237.9 | 251.5 | 237.9 | 241.2 | 236.6 | 257.3 | 251.9 | 264.1 |
| 130° | 224.9 | 214.3 | 225.7 | 220.9 | 232.4 | 220.9 | 225.7 | 214.3 | 224.9 | 226.4 | 242.5 |
| 132.5° | 204.8 | 201.7 | 215.5 | 209.3 | 216.9 | 209.3 | 215.5 | 201.7 | 204.8 | 211.7 | 226.2 |
| 135° | 193.1 | 193.2 | 206.1 | 199.2 | 206.0 | 199.2 | 206.1 | 193.2 | 193.1 | 202.3 | 215.4 |
| 137.5° | 186.0 | 188.3 | 197.5 | 190.7 | 196.0 | 190.7 | 197.5 | 188.3 | 186.0 | 195.3 | 205.2 |
| 140° | 182.1 | 183.6 | 190.6 | 182.8 | 188.1 | 182.8 | 190.6 | 183.6 | 182.1 | 191.3 | 196.0 |
| 142.5° | 178.1 | 179.7 | 184.2 | 175.7 | 178.8 | 175.7 | 184.2 | 179.7 | 178.1 | 187.2 | 189.5 |
| 145° | 176.4 | 177.3 | 179.5 | 170.2 | 172.5 | 170.2 | 179.5 | 177.3 | 176.4 | 183.2 | 181.7 |
| 147.5° | 173.3 | 173.3 | 174.0 | 166.1 | 168.4 | 166.1 | 174.0 | 173.3 | 173.3 | 177.9 | 176.3 |
| 150° | 169.3 | 168.5 | 169.3 | 161.4 | 163.6 | 161.4 | 169.3 | 168.5 | 169.3 | 172.4 | 169.9 |
| 152.5° | 163.2 | 162.4 | 163.8 | 156.6 | 158.9 | 156.6 | 163.8 | 162.4 | 163.2 | 166.2 | 164.5 |
| 155° | 157.8 | 157.8 | 159.1 | 153.5 | 155.7 | 153.5 | 159.1 | 157.8 | 157.8 | 160.0 | 159.7 |
| 157.5° | 155.3 | 155.3 | 156.6 | 152.5 | 154.5 | 152.5 | 156.6 | 155.3 | 155.3 | 156.6 | 157.2 |
| 160° | 152.7 | 153.5 | 154.8 | 151.4 | 153.6 | 151.4 | 154.8 | 153.5 | 152.7 | 154.9 | 155.4 |
| 162.5° | 151.8 | 152.5 | 153.9 | 150.5 | 152.6 | 150.5 | 153.9 | 152.5 | 151.8 | 152.5 | 153.0 |
| 165° | 150.8 | 151.6 | 152.9 | 150.3 | 151.6 | 150.3 | 152.9 | 151.6 | 150.8 | 151.6 | 152.0 |
| 167.5° | 150.7 | 151.4 | 152.7 | 150.9 | 152.2 | 150.9 | 152.7 | 151.4 | 150.7 | 150.0 | 151.9 |
| 170° | 149.2 | 150.6 | 152.7 | 151.4 | 152.1 | 151.4 | 152.7 | 150.6 | 149.2 | 149.9 | 151.0 |
| 172.5° | 150.5 | 151.9 | 154.0 | 152.7 | 153.4 | 152.7 | 154.0 | 151.9 | 150.5 | 151.2 | 151.4 |
| 175° | 151.8 | 152.5 | 154.3 | 153.3 | 154.6 | 153.3 | 154.3 | 152.5 | 151.8 | 151.6 | 152.7 |
| 177.5° | 151.6 | 153.0 | 155.0 | 154.7 | 156.0 | 154.7 | 155.0 | 153.0 | 151.6 | 152.2 | 154.1 |
| 180° | 154.1 | 154.1 | 154.1 | 154.1 | 154.1 | 154.1 | 154.1 | 154.1 | 154.1 | 154.1 | 154.1 |



TEST NUMBER:

CATALOG NUMBER: EHBR1-42-UNV-TA-L950-UPL15

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|--------|---------|---------|---------|---------|---------|---------|
| 0° | 30956.6 | 30956.6 | 30956.6 | 30956.6 | 30956.6 | 30956.6 |
| 2.5° | 30955.9 | 30967.6 | 30955.9 | 30969.5 | 30961.1 | 30941.6 |
| 5° | 30872.3 | 30867.1 | 30872.3 | 30885.9 | 30850.9 | 30831.4 |
| 7.5° | 30548.1 | 30527.3 | 30548.1 | 30687.5 | 30662.9 | 30638.8 |
| 10° | 29871.2 | 29728.6 | 29871.2 | 30235.6 | 30360.1 | 30321.2 |
| 12.5° | 28691.1 | 28249.0 | 28691.1 | 29460.2 | 29884.1 | 29849.8 |
| 15° | 26968.5 | 26209.2 | 26968.5 | 28466.8 | 29245.5 | 29287.6 |
| 17.5° | 24739.3 | 23870.5 | 24739.3 | 26954.2 | 28432.5 | 28412.3 |
| 20° | 22315.1 | 21046.8 | 22315.1 | 25235.9 | 27364.5 | 27477.4 |
| 22.5° | 19667.8 | 18302.2 | 19667.8 | 23143.7 | 26099.6 | 26287.6 |
| 25° | 17026.9 | 15603.1 | 17026.9 | 20819.2 | 24553.2 | 24767.2 |
| 27.5° | 14558.6 | 13203.5 | 14558.6 | 18597.2 | 22826.7 | 23060.1 |
| 30° | 12273.0 | 10966.0 | 12273.0 | 16306.6 | 20928.9 | 20955.4 |
| 32.5° | 10361.7 | 9066.2 | 10361.7 | 14023.7 | 18905.9 | 18782.0 |
| 35° | 8502.1 | 7427.8 | 8502.1 | 11928.8 | 16593.1 | 16433.1 |
| 37.5° | 7100.3 | 6239.3 | 7100.3 | 10086.1 | 14244.7 | 13942.7 |
| 40° | 5922.3 | 5232.4 | 5922.3 | 8327.7 | 11928.8 | 11436.7 |
| 42.5° | 4951.0 | 4434.8 | 4951.0 | 6863.6 | 9633.5 | 9284.7 |
| 45° | 4221.5 | 3833.8 | 4221.5 | 5680.4 | 7779.8 | 7456.3 |
| 47.5° | 3684.0 | 3369.0 | 3684.0 | 4744.1 | 6190.0 | 6087.6 |
| 50° | 3205.5 | 2989.0 | 3205.5 | 3973.9 | 5033.9 | 4971.0 |
| 52.5° | 2819.8 | 2662.8 | 2819.8 | 3386.4 | 4134.7 | 4125.0 |
| 55° | 2498.9 | 2371.1 | 2498.9 | 2893.1 | 3416.3 | 3413.7 |
| 57.5° | 2219.4 | 2137.1 | 2219.4 | 2505.4 | 2863.3 | 2858.7 |
| 60° | 1970.4 | 1941.8 | 1970.4 | 2171.4 | 2413.9 | 2419.7 |
| 62.5° | 1779.8 | 1737.6 | 1779.8 | 1908.8 | 2065.7 | 2059.8 |
| 65° | 1590.5 | 1580.7 | 1590.5 | 1678.6 | 1779.8 | 1765.5 |
| 67.5° | 1419.3 | 1410.9 | 1419.3 | 1471.2 | 1535.4 | 1523.7 |
| 70° | 1255.9 | 1262.4 | 1255.9 | 1287.0 | 1321.4 | 1319.4 |
| 72.5° | 1097.7 | 1099.0 | 1097.7 | 1107.4 | 1143.7 | 1119.1 |
| 75° | 945.4 | 945.4 | 945.4 | 933.0 | 949.2 | 936.3 |
| 77.5° | 779.3 | 798.8 | 779.3 | 770.9 | 767.0 | 747.6 |
| 80° | 612.8 | 631.5 | 612.8 | 595.2 | 585.4 | 573.2 |
| 82.5° | 444.1 | 474.6 | 444.1 | 423.4 | 410.4 | 403.3 |
| 85° | 275.6 | 294.3 | 275.6 | 246.4 | 239.9 | 239.9 |
| 87.5° | 103.8 | 113.4 | 103.8 | 82.3 | 79.1 | 76.5 |
| 90° | 15.3 | 10.6 | 15.3 | 29.2 | 16.9 | 9.9 |
| 92.5° | 20.7 | 14.5 | 20.7 | 41.4 | 23.0 | 13.1 |
| 95° | 23.0 | 17.6 | 23.0 | 53.0 | 28.4 | 19.2 |
| 97.5° | 24.6 | 21.4 | 24.6 | 59.9 | 35.3 | 29.9 |
| 100° | 28.4 | 25.1 | 28.4 | 109.8 | 40.0 | 40.0 |
| 102.5° | 57.6 | 30.5 | 57.6 | 254.9 | 78.3 | 60.7 |
| 105° | 150.5 | 55.8 | 150.5 | 449.3 | 179.7 | 110.6 |
| 107.5° | 298.0 | 130.4 | 298.0 | 579.1 | 335.6 | 209.7 |
| 110° | 408.6 | 264.0 | 408.6 | 632.1 | 469.3 | 335.6 |



TEST NUMBER:

CATALOG NUMBER: EHBR1-42-UNV-TA-L950-UPL15

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|--------|--------|-------|--------|-------|--------|-------|
| 112.5° | 453.1 | 365.3 | 453.1 | 617.5 | 523.0 | 437.0 |
| 115° | 451.5 | 405.3 | 451.5 | 551.4 | 515.4 | 474.6 |
| 117.5° | 424.0 | 407.6 | 424.0 | 476.2 | 471.5 | 458.5 |
| 120° | 383.9 | 384.6 | 383.9 | 400.9 | 408.6 | 413.9 |
| 122.5° | 342.4 | 353.7 | 342.4 | 338.7 | 346.4 | 357.9 |
| 125° | 307.1 | 318.4 | 307.1 | 295.6 | 291.8 | 303.4 |
| 127.5° | 277.8 | 286.9 | 277.8 | 264.1 | 251.9 | 257.3 |
| 130° | 253.2 | 259.2 | 253.2 | 242.5 | 226.4 | 224.9 |
| 132.5° | 236.1 | 239.2 | 236.1 | 226.2 | 211.7 | 204.8 |
| 135° | 221.5 | 222.9 | 221.5 | 215.4 | 202.3 | 193.1 |
| 137.5° | 209.9 | 209.0 | 209.9 | 205.2 | 195.3 | 186.0 |
| 140° | 201.9 | 200.4 | 201.9 | 196.0 | 191.3 | 182.1 |
| 142.5° | 193.3 | 192.5 | 193.3 | 189.5 | 187.2 | 178.1 |
| 145° | 187.8 | 185.5 | 187.8 | 181.7 | 183.2 | 176.4 |
| 147.5° | 181.5 | 179.9 | 181.5 | 176.3 | 177.9 | 173.3 |
| 150° | 176.6 | 176.5 | 176.6 | 169.9 | 172.4 | 169.3 |
| 152.5° | 171.2 | 171.8 | 171.2 | 164.5 | 166.2 | 163.2 |
| 155° | 167.2 | 167.9 | 167.2 | 159.7 | 160.0 | 157.8 |
| 157.5° | 163.9 | 164.5 | 163.9 | 157.2 | 156.6 | 155.3 |
| 160° | 161.4 | 162.0 | 161.4 | 155.4 | 154.9 | 152.7 |
| 162.5° | 159.6 | 160.3 | 159.6 | 153.0 | 152.5 | 151.8 |
| 165° | 156.4 | 157.8 | 156.4 | 152.0 | 151.6 | 150.8 |
| 167.5° | 155.5 | 156.8 | 155.5 | 151.9 | 150.0 | 150.7 |
| 170° | 154.5 | 155.9 | 154.5 | 151.0 | 149.9 | 149.2 |
| 172.5° | 154.3 | 156.5 | 154.3 | 151.4 | 151.2 | 150.5 |
| 175° | 154.8 | 157.7 | 154.8 | 152.7 | 151.6 | 151.8 |
| 177.5° | 156.3 | 159.8 | 156.3 | 154.1 | 152.2 | 151.6 |
| 180° | 154.1 | 154.1 | 154.1 | 154.1 | 154.1 | 154.1 |



TEST NUMBER: CATALOG
 CATALOG NUMBER: EHBR1-42-UNV-TA-L950-UPL15

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 | 20.28 | 21.49 | 20.71 | 21.88 | 22.28 | 18.55 | 19.75 | 18.98 | 20.14 | 20.55 |
| | 3H | 21.44 | 22.51 | 21.89 | 22.92 | 23.37 | 20.15 | 21.22 | 20.59 | 21.63 | 22.08 |
| | 4H | 21.90 | 22.90 | 22.36 | 23.32 | 23.79 | 20.80 | 21.80 | 21.27 | 22.23 | 22.70 |
| | 6H | 22.22 | 23.14 | 22.69 | 23.58 | 24.06 | 21.32 | 22.24 | 21.79 | 22.68 | 23.16 |
| | 8H | 22.30 | 23.17 | 22.79 | 23.63 | 24.13 | 21.49 | 22.36 | 21.98 | 22.82 | 23.31 |
| | 12H | 22.34 | 23.17 | 22.83 | 23.62 | 24.14 | 21.58 | 22.41 | 22.07 | 22.86 | 23.38 |
| 4H | 2H | 20.54 | 21.54 | 21.01 | 21.96 | 22.43 | 19.10 | 20.10 | 19.57 | 20.52 | 20.99 |
| | 3H | 21.94 | 22.76 | 22.41 | 23.24 | 23.72 | 20.90 | 21.73 | 21.38 | 22.20 | 22.69 |
| | 4H | 22.52 | 23.26 | 23.02 | 23.75 | 24.28 | 21.67 | 22.41 | 22.17 | 22.90 | 23.43 |
| | 6H | 22.96 | 23.60 | 23.49 | 24.12 | 24.66 | 22.30 | 22.94 | 22.83 | 23.45 | 24.00 |
| | 8H | 23.09 | 23.68 | 23.62 | 24.19 | 24.75 | 22.51 | 23.11 | 23.04 | 23.62 | 24.17 |
| | 12H | 23.15 | 23.67 | 23.70 | 24.22 | 24.78 | 22.64 | 23.16 | 23.18 | 23.71 | 24.27 |
| 8H | 4H | 22.68 | 23.28 | 23.21 | 23.79 | 24.35 | 21.91 | 22.51 | 22.44 | 23.02 | 23.58 |
| | 6H | 23.23 | 23.71 | 23.79 | 24.28 | 24.84 | 22.66 | 23.14 | 23.22 | 23.70 | 24.27 |
| | 8H | 23.41 | 23.84 | 23.99 | 24.42 | 24.99 | 22.94 | 23.37 | 23.52 | 23.95 | 24.52 |
| | 12H | 23.52 | 23.90 | 24.10 | 24.46 | 25.11 | 23.12 | 23.51 | 23.70 | 24.06 | 24.71 |
| 12H | 4H | 22.68 | 23.21 | 23.23 | 23.75 | 24.31 | 21.92 | 22.44 | 22.47 | 22.99 | 23.55 |
| | 6H | 23.24 | 23.68 | 23.83 | 24.26 | 24.83 | 22.69 | 23.12 | 23.27 | 23.70 | 24.27 |
| | 8H | 23.47 | 23.85 | 24.04 | 24.40 | 25.06 | 23.01 | 23.39 | 23.58 | 23.95 | 24.60 |

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

Report Prepared for

Cooper Lighting Solutions

Metalux

Report Number: SP1-2506-472-8

Test Date: 08/04/2025

Luminaire Tested: EHBR-60-L950-N

Data in this report applies to families of products including EHBR-60-L950-N

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2506-472-8
 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-L950-N**
 Description: Elevate Round Highbay at, 60000 lumens, 5000K 90CRI LEDs with N lens

Spectral Parameters

CCT (K): 4901
 CIE u': 0.2131
 CIE v': 0.4853
 Duv: -0.0008
 CIE x: 0.3477
 CIE y: 0.3520
 CIE z: 0.3003
 Peak Wavelength (nm): 630
 Dominant Wavelength (nm): 574
 Purity: 9.953987
 Rf: 90.7
 Rg: 100.5

| | | | |
|-----------|------|------|------|
| CRI (Ra): | 94.3 | | |
| R1: | 95.8 | R9: | 72.3 |
| R2: | 96.5 | R10: | 89.1 |
| R3: | 94.4 | R11: | 94.9 |
| R4: | 95.3 | R12: | 68.4 |
| R5: | 94.1 | R13: | 96.4 |
| R6: | 92.5 | R14: | 96.4 |
| R7: | 95.5 | R15: | 93.9 |
| R8: | 90.1 | | |



Test Conditions

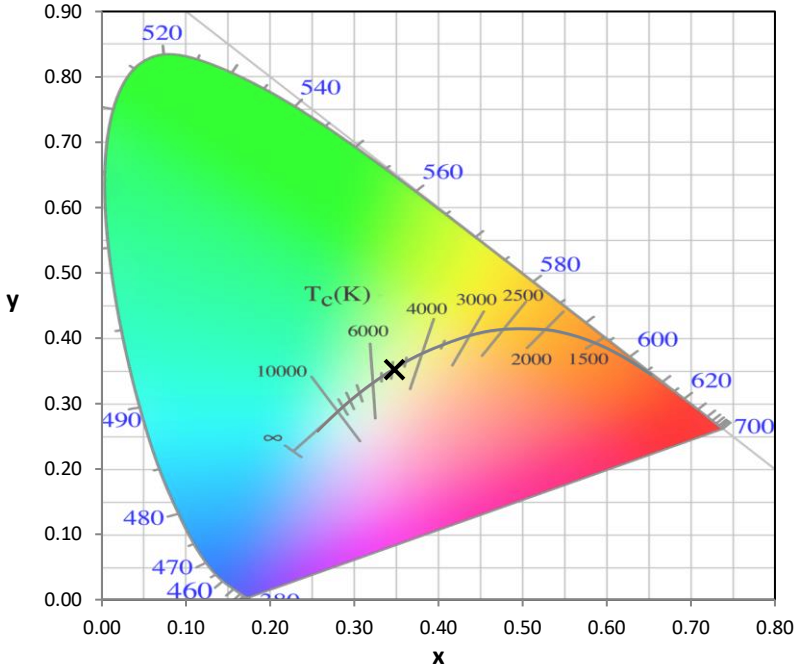
Stabilization Time: 35M
 Operation Time: 1H 35M
 Sphere Temperature (°C): 25.0

REPORT NUMBER: SP1-2506-472-8

| 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: SP1-2506-472-8

CIE 1931 Chromaticity Diagram



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



CCT = 4901K
 CIE x = 0.3477
 CIE y = 0.3520
 Duv = -0.0008

Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2506-472-8

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 | 221 | NR | 620 | 326 | NR | 750 | 7 | NR | 880 | 0 | NR |
| 365 | 0 | NR | 495 | 250 | NR | 625 | 325 | NR | 755 | 6 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 284 | NR | 630 | 1000 | NR | 760 | 5 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 311 | NR | 635 | 643 | NR | 765 | 4 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 329 | NR | 640 | 206 | NR | 770 | 4 | NR | 900 | 0 | NR |
| 385 | 1 | NR | 515 | 344 | NR | 645 | 199 | NR | 775 | 3 | NR | 905 | 0 | NR |
| 390 | 2 | NR | 520 | 353 | NR | 650 | 172 | NR | 780 | 3 | NR | 910 | 0 | NR |
| 395 | 3 | NR | 525 | 357 | NR | 655 | 143 | NR | 785 | 2 | NR | 915 | 0 | NR |
| 400 | 5 | NR | 530 | 362 | NR | 660 | 122 | NR | 790 | 2 | NR | 920 | 0 | NR |
| 405 | 6 | NR | 535 | 365 | NR | 665 | 102 | NR | 795 | 2 | NR | 925 | 0 | NR |
| 410 | 9 | NR | 540 | 367 | NR | 670 | 94 | NR | 800 | 2 | NR | 930 | 0 | NR |
| 415 | 15 | NR | 545 | 369 | NR | 675 | 76 | NR | 805 | 1 | NR | 935 | 0 | NR |
| 420 | 26 | NR | 550 | 370 | NR | 680 | 65 | NR | 810 | 1 | NR | 940 | 0 | NR |
| 425 | 47 | NR | 555 | 372 | NR | 685 | 56 | NR | 815 | 1 | NR | 945 | 0 | NR |
| 430 | 81 | NR | 560 | 372 | NR | 690 | 48 | NR | 820 | 1 | NR | 950 | 0 | NR |
| 435 | 143 | NR | 565 | 371 | NR | 695 | 41 | NR | 825 | 1 | NR | 955 | 0 | NR |
| 440 | 243 | NR | 570 | 370 | NR | 700 | 35 | NR | 830 | 1 | NR | 960 | 0 | NR |
| 445 | 434 | NR | 575 | 367 | NR | 705 | 30 | NR | 835 | 1 | NR | 965 | 0 | NR |
| 450 | 675 | NR | 580 | 365 | NR | 710 | 25 | NR | 840 | 1 | NR | 970 | 0 | NR |
| 455 | 615 | NR | 585 | 361 | NR | 715 | 22 | NR | 845 | 0 | NR | 975 | 0 | NR |
| 460 | 418 | NR | 590 | 356 | NR | 720 | 19 | NR | 850 | 0 | NR | 980 | 0 | NR |
| 465 | 344 | NR | 595 | 348 | NR | 725 | 16 | NR | 855 | 0 | NR | 985 | 0 | NR |
| 470 | 272 | NR | 600 | 343 | NR | 730 | 13 | NR | 860 | 0 | NR | 990 | 0 | NR |
| 475 | 206 | NR | 605 | 337 | NR | 735 | 11 | NR | 865 | 0 | NR | 995 | 0 | NR |
| 480 | 190 | NR | 610 | 362 | NR | 740 | 10 | NR | 870 | 0 | NR | 1000 | 0 | NR |
| 485 | 202 | NR | 615 | 381 | NR | 745 | 8 | NR | 875 | 0 | NR | | | |

REPORT NUMBER: SP1-2506-472-8

Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

S/P: 2.04

| 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 | 221 | NR | 620 | 326 | NR | 750 | 7 | NR | 880 | 0 | NR |
| 365 | 0 | NR | 495 | 250 | NR | 625 | 325 | NR | 755 | 6 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 284 | NR | 630 | 1000 | NR | 760 | 5 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 311 | NR | 635 | 643 | NR | 765 | 4 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 329 | NR | 640 | 206 | NR | 770 | 4 | NR | 900 | 0 | NR |
| 385 | 1 | NR | 515 | 344 | NR | 645 | 199 | NR | 775 | 3 | NR | 905 | 0 | NR |
| 390 | 2 | NR | 520 | 353 | NR | 650 | 172 | NR | 780 | 3 | NR | 910 | 0 | NR |
| 395 | 3 | NR | 525 | 357 | NR | 655 | 143 | NR | 785 | 2 | NR | 915 | 0 | NR |
| 400 | 5 | NR | 530 | 362 | NR | 660 | 122 | NR | 790 | 2 | NR | 920 | 0 | NR |
| 405 | 6 | NR | 535 | 365 | NR | 665 | 102 | NR | 795 | 2 | NR | 925 | 0 | NR |
| 410 | 9 | NR | 540 | 367 | NR | 670 | 94 | NR | 800 | 2 | NR | 930 | 0 | NR |
| 415 | 15 | NR | 545 | 369 | NR | 675 | 76 | NR | 805 | 1 | NR | 935 | 0 | NR |
| 420 | 26 | NR | 550 | 370 | NR | 680 | 65 | NR | 810 | 1 | NR | 940 | 0 | NR |
| 425 | 47 | NR | 555 | 372 | NR | 685 | 56 | NR | 815 | 1 | NR | 945 | 0 | NR |
| 430 | 81 | NR | 560 | 372 | NR | 690 | 48 | NR | 820 | 1 | NR | 950 | 0 | NR |
| 435 | 143 | NR | 565 | 371 | NR | 695 | 41 | NR | 825 | 1 | NR | 955 | 0 | NR |
| 440 | 243 | NR | 570 | 370 | NR | 700 | 35 | NR | 830 | 1 | NR | 960 | 0 | NR |
| 445 | 434 | NR | 575 | 367 | NR | 705 | 30 | NR | 835 | 1 | NR | 965 | 0 | NR |
| 450 | 675 | NR | 580 | 365 | NR | 710 | 25 | NR | 840 | 1 | NR | 970 | 0 | NR |
| 455 | 615 | NR | 585 | 361 | NR | 715 | 22 | NR | 845 | 0 | NR | 975 | 0 | NR |
| 460 | 418 | NR | 590 | 356 | NR | 720 | 19 | NR | 850 | 0 | NR | 980 | 0 | NR |
| 465 | 344 | NR | 595 | 348 | NR | 725 | 16 | NR | 855 | 0 | NR | 985 | 0 | NR |
| 470 | 272 | NR | 600 | 343 | NR | 730 | 13 | NR | 860 | 0 | NR | 990 | 0 | NR |
| 475 | 206 | NR | 605 | 337 | NR | 735 | 11 | NR | 865 | 0 | NR | 995 | 0 | NR |
| 480 | 190 | NR | 610 | 362 | NR | 740 | 10 | NR | 870 | 0 | NR | 1000 | 0 | NR |
| 485 | 202 | NR | 615 | 381 | NR | 745 | 8 | NR | 875 | 0 | NR | | | |

REPORT NUMBER: SP1-2506-472-8

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 4.41

| 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 | 221 | NR | 620 | 326 | NR | 750 | 7 | NR | 880 | 0 | NR |
| 365 | 0 | NR | 495 | 250 | NR | 625 | 325 | NR | 755 | 6 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 284 | NR | 630 | 1000 | NR | 760 | 5 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 311 | NR | 635 | 643 | NR | 765 | 4 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 329 | NR | 640 | 206 | NR | 770 | 4 | NR | 900 | 0 | NR |
| 385 | 1 | NR | 515 | 344 | NR | 645 | 199 | NR | 775 | 3 | NR | 905 | 0 | NR |
| 390 | 2 | NR | 520 | 353 | NR | 650 | 172 | NR | 780 | 3 | NR | 910 | 0 | NR |
| 395 | 3 | NR | 525 | 357 | NR | 655 | 143 | NR | 785 | 2 | NR | 915 | 0 | NR |
| 400 | 5 | NR | 530 | 362 | NR | 660 | 122 | NR | 790 | 2 | NR | 920 | 0 | NR |
| 405 | 6 | NR | 535 | 365 | NR | 665 | 102 | NR | 795 | 2 | NR | 925 | 0 | NR |
| 410 | 9 | NR | 540 | 367 | NR | 670 | 94 | NR | 800 | 2 | NR | 930 | 0 | NR |
| 415 | 15 | NR | 545 | 369 | NR | 675 | 76 | NR | 805 | 1 | NR | 935 | 0 | NR |
| 420 | 26 | NR | 550 | 370 | NR | 680 | 65 | NR | 810 | 1 | NR | 940 | 0 | NR |
| 425 | 47 | NR | 555 | 372 | NR | 685 | 56 | NR | 815 | 1 | NR | 945 | 0 | NR |
| 430 | 81 | NR | 560 | 372 | NR | 690 | 48 | NR | 820 | 1 | NR | 950 | 0 | NR |
| 435 | 143 | NR | 565 | 371 | NR | 695 | 41 | NR | 825 | 1 | NR | 955 | 0 | NR |
| 440 | 243 | NR | 570 | 370 | NR | 700 | 35 | NR | 830 | 1 | NR | 960 | 0 | NR |
| 445 | 434 | NR | 575 | 367 | NR | 705 | 30 | NR | 835 | 1 | NR | 965 | 0 | NR |
| 450 | 675 | NR | 580 | 365 | NR | 710 | 25 | NR | 840 | 1 | NR | 970 | 0 | NR |
| 455 | 615 | NR | 585 | 361 | NR | 715 | 22 | NR | 845 | 0 | NR | 975 | 0 | NR |
| 460 | 418 | NR | 590 | 356 | NR | 720 | 19 | NR | 850 | 0 | NR | 980 | 0 | NR |
| 465 | 344 | NR | 595 | 348 | NR | 725 | 16 | NR | 855 | 0 | NR | 985 | 0 | NR |
| 470 | 272 | NR | 600 | 343 | NR | 730 | 13 | NR | 860 | 0 | NR | 990 | 0 | NR |
| 475 | 206 | NR | 605 | 337 | NR | 735 | 11 | NR | 865 | 0 | NR | 995 | 0 | NR |
| 480 | 190 | NR | 610 | 362 | NR | 740 | 10 | NR | 870 | 0 | NR | 1000 | 0 | NR |
| 485 | 202 | NR | 615 | 381 | NR | 745 | 8 | NR | 875 | 0 | NR | | | |

Summary

$R_f = 90.7$
 $R_g = 100.5$
 CIE $R_a = 94.3$
 $R_9 = 72.3$



Color Vector Graphics



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

| | | | |
|------------|------------|------------|------------|
| CES01 = 85 | CES26 = 91 | CES51 = 98 | CES76 = 83 |
| CES02 = 61 | CES27 = 92 | CES52 = 98 | CES77 = 87 |
| CES03 = 31 | CES28 = 94 | CES53 = 97 | CES78 = 80 |
| CES04 = 69 | CES29 = 94 | CES54 = 93 | CES79 = 94 |
| CES05 = 48 | CES30 = 93 | CES55 = 92 | CES80 = 91 |
| CES06 = 50 | CES31 = 95 | CES56 = 95 | CES81 = 84 |
| CES07 = 41 | CES32 = 86 | CES57 = 94 | CES82 = 96 |
| CES08 = 40 | CES33 = 99 | CES58 = 94 | CES83 = 96 |
| CES09 = 29 | CES34 = 90 | CES59 = 97 | CES84 = 93 |
| CES10 = 73 | CES35 = 94 | CES60 = 92 | CES85 = 83 |
| CES11 = 56 | CES36 = 81 | CES61 = 92 | CES86 = 86 |
| CES12 = 62 | CES37 = 92 | CES62 = 86 | CES87 = 91 |
| CES13 = 43 | CES38 = 88 | CES63 = 92 | CES88 = 98 |
| CES14 = 74 | CES39 = 99 | CES64 = 89 | CES89 = 87 |
| CES15 = 71 | CES40 = 97 | CES65 = 88 | CES90 = 98 |
| CES16 = 47 | CES41 = 97 | CES66 = 85 | CES91 = 73 |
| CES17 = 48 | CES42 = 90 | CES67 = 84 | CES92 = 79 |
| CES18 = 56 | CES43 = 91 | CES68 = 86 | CES93 = 87 |
| CES19 = 70 | CES44 = 99 | CES69 = 87 | CES94 = 78 |
| CES20 = 65 | CES45 = 95 | CES70 = 83 | CES95 = 83 |
| CES21 = 85 | CES46 = 97 | CES71 = 77 | CES96 = 92 |
| CES22 = 77 | CES47 = 95 | CES72 = 92 | CES97 = 95 |
| CES23 = 91 | CES48 = 93 | CES73 = 77 | CES98 = 95 |
| CES24 = 90 | CES49 = 95 | CES74 = 92 | CES99 = 94 |
| CES25 = 70 | CES50 = 98 | CES75 = 79 | |



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)