

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: P1431739

Luminaire Tested: EHBR1-30-UNV-A1-L950

Issue Date: 3/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1431739
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2601-654-5)
Test Lab: INNOVATION CENTER
Issue Date: 3/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: EHBR1-30-UNV-A1-L950
Description: Elevate Round Highbay at, 30000 lumens, 5000K 90CRI LEDs with A lens
Light Source: -
Ballast/Driver: -

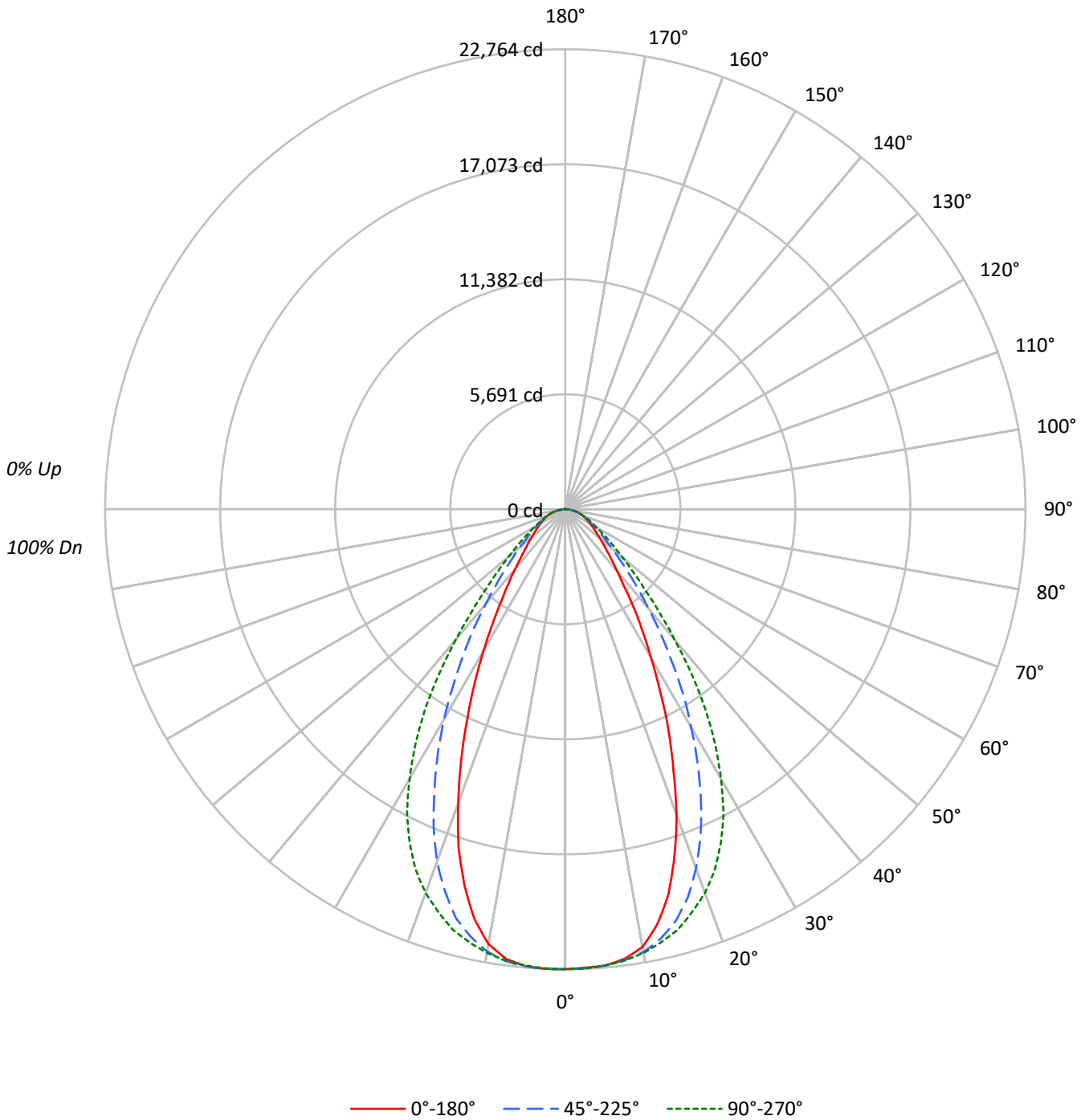
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28268.3 lumens
Efficiency: N/A
Efficacy: 176.9 lumens/watt
Spacing Criteria (0/90/45): 0.8 / 1.07 / 0.95
Luminous Opening: Circular (Dia: 1.71' x H: 0')
CIE Type: Direct

Input Watts (W): 159.8
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: P1431739
CATALOG NUMBER: EHBR1-30-UNV-A1-L950

Luminous Intensity Polar Plot





TEST NUMBER: P1431739
 CATALOG NUMBER: EHBR1-30-UNV-A1-L950

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 | 0 |
| RCR | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1 | 112 | 108 | 105 | 102 | 109 | 106 | 103 | 100 | 102 | 99 | 97 | 98 | 96 | 94 | 94 | 93 | 92 | 90 |
| 2 | 104 | 98 | 93 | 89 | 102 | 96 | 92 | 88 | 93 | 89 | 86 | 90 | 87 | 84 | 87 | 84 | 82 | 80 |
| 3 | 98 | 90 | 83 | 78 | 95 | 88 | 82 | 78 | 85 | 81 | 77 | 83 | 79 | 75 | 80 | 77 | 74 | 72 |
| 4 | 91 | 82 | 75 | 70 | 89 | 81 | 75 | 70 | 79 | 73 | 69 | 77 | 72 | 68 | 75 | 71 | 67 | 65 |
| 5 | 86 | 76 | 69 | 63 | 84 | 75 | 68 | 63 | 73 | 67 | 62 | 71 | 66 | 62 | 69 | 65 | 61 | 60 |
| 6 | 81 | 70 | 63 | 58 | 79 | 69 | 62 | 58 | 68 | 62 | 57 | 66 | 61 | 57 | 65 | 60 | 56 | 55 |
| 7 | 76 | 65 | 58 | 53 | 75 | 64 | 58 | 53 | 63 | 57 | 52 | 62 | 56 | 52 | 60 | 56 | 52 | 50 |
| 8 | 72 | 61 | 54 | 49 | 70 | 60 | 53 | 49 | 59 | 53 | 48 | 58 | 52 | 48 | 57 | 52 | 48 | 46 |
| 9 | 68 | 57 | 50 | 45 | 67 | 56 | 50 | 45 | 55 | 49 | 45 | 54 | 49 | 45 | 53 | 48 | 45 | 43 |
| 10 | 64 | 53 | 47 | 42 | 63 | 53 | 46 | 42 | 52 | 46 | 42 | 51 | 46 | 42 | 50 | 45 | 42 | 40 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|--------|--------|--------|--------|--------|
| 0° | 106857 | 106857 | 106857 | 106857 | 106857 |
| 5° | 106843 | 106828 | 106832 | 107020 | 106955 |
| 10° | 104888 | 106110 | 106278 | 105978 | 104201 |
| 15° | 95863 | 102552 | 104663 | 101729 | 93661 |
| 20° | 80445 | 94480 | 100935 | 92701 | 77313 |
| 25° | 62675 | 82299 | 94331 | 79294 | 59427 |
| 30° | 46050 | 67559 | 83525 | 64995 | 43708 |
| 35° | 33486 | 52529 | 69247 | 50266 | 31300 |
| 40° | 24328 | 39179 | 51534 | 37526 | 23578 |
| 45° | 19387 | 28986 | 36400 | 27729 | 18715 |
| 50° | 16299 | 22067 | 26695 | 21340 | 16052 |
| 55° | 14465 | 17707 | 20545 | 17411 | 14269 |
| 60° | 13312 | 15085 | 16705 | 14990 | 13406 |
| 65° | 12790 | 13669 | 14420 | 13711 | 12911 |
| 70° | 12617 | 12918 | 13316 | 12989 | 12740 |
| 75° | 12487 | 12409 | 12487 | 12443 | 12608 |
| 80° | 12554 | 11650 | 11394 | 11832 | 12554 |
| 85° | 11326 | 9602 | 9499 | 9758 | 11660 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 67.5°
 Vertical Angle: 45°
 Luminance: 38137 cd/sqm



TEST NUMBER: P1431739
 CATALOG NUMBER: EHBR1-30-UNV-A1-L950

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 2148.8 | 7.6 |
| 10°-20° | 5775.2 | 20.4 |
| 20°-30° | 7022.6 | 24.8 |
| 30°-40° | 5720.5 | 20.2 |
| 40°-50° | 3434.6 | 12.1 |
| 50°-60° | 1976.6 | 7.0 |
| 60°-70° | 1237.0 | 4.4 |
| 70°-80° | 728.6 | 2.6 |
| 80°-90° | 213.1 | 0.8 |
| 90°-100° | 0.1 | 0.0 |
| 100°-110° | 0.1 | 0.0 |
| 110°-120° | 0.1 | 0.0 |
| 120°-130° | 0.3 | 0.0 |
| 130°-140° | 1.5 | 0.0 |
| 140°-150° | 2.6 | 0.0 |
| 150°-160° | 2.9 | 0.0 |
| 160°-170° | 2.6 | 0.0 |
| 170°-180° | 1.1 | 0.0 |
| 0°-30° | 14946.7 | 52.9 |
| 0°-40° | 20667.2 | 73.1 |
| 0°-60° | 26078.3 | 92.3 |
| 0°-90° | 28257.0 | 100.0 |
| 90°-120° | 0.3 | 0.0 |
| 90°-150° | 4.7 | 0.0 |
| 90°-180° | 11.0 | 0.0 |
| 0°-180° | 28268.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|------|-------|-------|-------|-------|-------|------|
| 0° | 22754 | 22754 | 22754 | 22754 | 22754 | |
| 5° | 22665 | 22662 | 22662 | 22702 | 22689 | 2142 |
| 15° | 19718 | 21094 | 21528 | 20924 | 19265 | 5425 |
| 25° | 12096 | 15883 | 18205 | 15303 | 11469 | 5511 |
| 35° | 5841 | 9163 | 12079 | 8768 | 5460 | 3695 |
| 45° | 2919 | 4364 | 5481 | 4175 | 2818 | 2303 |
| 55° | 1767 | 2163 | 2509 | 2127 | 1743 | 1597 |
| 65° | 1151 | 1230 | 1298 | 1234 | 1162 | 1144 |
| 75° | 688 | 684 | 688 | 686 | 695 | 729 |
| 85° | 210 | 178 | 176 | 181 | 216 | 224 |
| 90° | 1 | 0 | 0 | 0 | 0 | 11 |
| 95° | 1 | 0 | 0 | 0 | 0 | 1 |
| 105° | 1 | 0 | 0 | 0 | 1 | 1 |
| 115° | 1 | 0 | 0 | 0 | 1 | 1 |
| 125° | 1 | 0 | 0 | 0 | 1 | 1 |
| 135° | 2 | 2 | 2 | 2 | 2 | 2 |
| 145° | 4 | 4 | 4 | 4 | 5 | 3 |
| 155° | 7 | 6 | 5 | 6 | 8 | 3 |
| 165° | 11 | 9 | 8 | 10 | 11 | 3 |
| 175° | 14 | 12 | 10 | 12 | 14 | 1 |
| 180° | 13 | 13 | 13 | 13 | 13 | |



TEST NUMBER: P1431739
 CATALOG NUMBER: EHBR1-30-UNV-A1-L950

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 22754.5 | 22754.5 | 22754.5 | 22754.5 | 22754.5 | 22754.5 | 22754.5 | 22754.5 | 22754.5 |
| 2.5° | 22704.5 | 22724.9 | 22733.5 | 22738.3 | 22743.5 | 22757.8 | 22764.0 | 22754.0 | 22762.5 |
| 5° | 22664.9 | 22666.3 | 22661.6 | 22683.0 | 22662.5 | 22676.8 | 22702.5 | 22692.5 | 22688.7 |
| 7.5° | 22434.2 | 22481.9 | 22510.0 | 22517.2 | 22521.0 | 22538.6 | 22556.7 | 22454.3 | 22438.9 |
| 10° | 21995.8 | 22075.4 | 22252.2 | 22302.6 | 22287.4 | 22316.0 | 22224.5 | 21956.6 | 21851.8 |
| 12.5° | 21034.5 | 21314.2 | 21773.7 | 21978.1 | 21940.9 | 21966.2 | 21654.5 | 21089.3 | 20764.3 |
| 15° | 19717.7 | 20128.0 | 21093.6 | 21496.8 | 21527.8 | 21496.8 | 20924.4 | 19823.0 | 19264.9 |
| 17.5° | 17967.2 | 18725.0 | 20146.6 | 20929.1 | 20884.3 | 20899.1 | 19812.5 | 18184.5 | 17545.9 |
| 20° | 16097.1 | 16904.9 | 18905.6 | 20210.9 | 20197.2 | 20114.2 | 18549.6 | 16402.6 | 15470.4 |
| 22.5° | 13982.1 | 15023.9 | 17483.5 | 19327.8 | 19322.6 | 19184.4 | 17011.6 | 14456.6 | 13453.0 |
| 25° | 12095.7 | 13117.5 | 15883.1 | 18246.0 | 18205.1 | 18047.8 | 15303.1 | 12515.5 | 11469.0 |
| 27.5° | 10145.6 | 11207.8 | 14174.6 | 16978.3 | 16950.2 | 16778.6 | 13669.9 | 10701.2 | 9705.2 |
| 30° | 8492.3 | 9463.5 | 12458.9 | 15583.3 | 15403.2 | 15383.6 | 11986.0 | 9021.2 | 8060.4 |
| 32.5° | 7075.9 | 7908.4 | 10841.4 | 14124.5 | 13805.7 | 13896.7 | 10308.1 | 7616.3 | 6664.1 |
| 35° | 5841.0 | 6574.5 | 9162.8 | 12437.4 | 12079.0 | 12196.8 | 8768.1 | 6249.4 | 5459.8 |
| 37.5° | 4740.6 | 5445.9 | 7740.2 | 10796.5 | 10248.5 | 10470.6 | 7413.8 | 5219.1 | 4586.2 |
| 40° | 3968.5 | 4528.0 | 6391.0 | 8996.0 | 8406.4 | 8768.1 | 6121.3 | 4353.1 | 3846.1 |
| 42.5° | 3419.5 | 3784.6 | 5274.9 | 7276.9 | 6824.7 | 7081.1 | 5045.1 | 3639.2 | 3259.8 |
| 45° | 2919.1 | 3210.3 | 4364.5 | 5742.4 | 5480.8 | 5718.5 | 4175.3 | 3103.1 | 2818.0 |
| 47.5° | 2549.8 | 2774.1 | 3593.0 | 4637.1 | 4474.6 | 4550.0 | 3487.2 | 2707.9 | 2476.4 |
| 50° | 2230.9 | 2404.4 | 3020.5 | 3742.7 | 3653.9 | 3700.2 | 2920.9 | 2356.2 | 2197.1 |
| 52.5° | 1983.1 | 2110.3 | 2533.5 | 3075.8 | 3032.1 | 3039.1 | 2489.2 | 2072.7 | 1957.4 |
| 55° | 1766.7 | 1855.3 | 2162.7 | 2519.7 | 2509.3 | 2511.1 | 2126.6 | 1836.8 | 1742.8 |
| 57.5° | 1577.4 | 1650.8 | 1858.7 | 2116.5 | 2101.3 | 2104.6 | 1841.5 | 1631.3 | 1570.9 |
| 60° | 1417.4 | 1466.4 | 1606.1 | 1788.6 | 1778.6 | 1774.3 | 1596.0 | 1448.3 | 1427.4 |
| 62.5° | 1275.3 | 1306.8 | 1403.5 | 1533.1 | 1514.1 | 1518.4 | 1403.1 | 1308.2 | 1277.3 |
| 65° | 1151.0 | 1161.9 | 1230.1 | 1310.1 | 1297.7 | 1308.2 | 1233.9 | 1169.1 | 1161.9 |
| 67.5° | 1029.5 | 1040.4 | 1080.4 | 1134.3 | 1120.0 | 1128.6 | 1081.4 | 1043.2 | 1037.1 |
| 70° | 918.9 | 918.3 | 940.8 | 969.8 | 969.8 | 971.3 | 946.0 | 923.2 | 927.9 |
| 72.5° | 804.4 | 801.6 | 808.3 | 827.8 | 822.5 | 840.7 | 814.0 | 806.8 | 807.8 |
| 75° | 688.2 | 680.1 | 683.9 | 693.9 | 688.2 | 697.8 | 685.8 | 694.9 | 694.9 |
| 77.5° | 578.6 | 563.3 | 558.6 | 560.0 | 549.5 | 563.8 | 566.7 | 572.9 | 587.1 |
| 80° | 464.2 | 442.7 | 430.8 | 430.4 | 421.3 | 430.4 | 437.5 | 450.3 | 464.2 |
| 82.5° | 344.6 | 326.0 | 306.0 | 302.1 | 296.5 | 301.7 | 311.3 | 326.5 | 348.9 |
| 85° | 210.2 | 190.7 | 178.2 | 171.6 | 176.3 | 176.3 | 181.1 | 202.5 | 216.4 |
| 87.5° | 75.8 | 66.2 | 54.4 | 54.8 | 56.2 | 58.2 | 60.5 | 76.3 | 83.4 |
| 90° | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 |
| 92.5° | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 |
| 95° | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 |
| 97.5° | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 |
| 100° | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.9 |
| 102.5° | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.9 |
| 105° | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.9 |
| 107.5° | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.9 |
| 110° | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.9 |



TEST NUMBER: P1431739
 CATALOG NUMBER: EHBR1-30-UNV-A1-L950

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|--------|------|-------|------|-------|------|--------|------|--------|------|
| 112.5° | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.9 |
| 115° | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.9 |
| 117.5° | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.9 |
| 120° | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 0.9 |
| 122.5° | 1.4 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 1.4 |
| 125° | 1.4 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 0.5 | 1.4 |
| 127.5° | 1.4 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 0.9 | 1.4 |
| 130° | 1.4 | 0.9 | 0.5 | 0.0 | 0.5 | 0.5 | 0.9 | 0.9 | 1.4 |
| 132.5° | 2.0 | 1.4 | 1.4 | 0.9 | 0.9 | 1.4 | 1.4 | 2.0 | 2.0 |
| 135° | 2.4 | 2.0 | 2.0 | 1.4 | 2.0 | 2.0 | 2.0 | 2.0 | 2.4 |
| 137.5° | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.9 |
| 140° | 3.3 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 3.3 | 3.3 |
| 142.5° | 3.8 | 3.8 | 3.3 | 3.3 | 3.3 | 3.8 | 3.8 | 3.8 | 4.3 |
| 145° | 4.3 | 4.3 | 3.8 | 3.8 | 3.8 | 4.3 | 4.3 | 4.7 | 4.7 |
| 147.5° | 5.8 | 5.2 | 4.3 | 4.3 | 4.3 | 4.3 | 4.7 | 5.2 | 5.8 |
| 150° | 6.2 | 5.8 | 4.7 | 4.7 | 4.7 | 4.7 | 5.2 | 6.2 | 6.7 |
| 152.5° | 6.7 | 6.2 | 5.2 | 4.7 | 4.7 | 4.7 | 5.8 | 6.2 | 7.2 |
| 155° | 7.2 | 6.7 | 5.8 | 4.7 | 4.7 | 5.2 | 6.2 | 7.2 | 7.6 |
| 157.5° | 8.5 | 7.6 | 6.7 | 5.8 | 5.8 | 6.2 | 7.2 | 8.1 | 8.5 |
| 160° | 9.6 | 8.5 | 7.6 | 6.7 | 6.7 | 7.2 | 8.1 | 9.0 | 9.6 |
| 162.5° | 10.5 | 9.6 | 8.1 | 7.6 | 7.2 | 7.6 | 8.5 | 10.0 | 10.5 |
| 165° | 11.0 | 10.0 | 9.0 | 8.1 | 8.1 | 8.1 | 9.6 | 10.5 | 11.0 |
| 167.5° | 11.4 | 11.0 | 9.6 | 8.5 | 8.5 | 8.5 | 10.0 | 11.0 | 11.4 |
| 170° | 11.9 | 11.4 | 10.0 | 9.0 | 8.5 | 9.0 | 10.5 | 11.4 | 11.9 |
| 172.5° | 12.8 | 12.4 | 11.0 | 10.0 | 9.6 | 10.0 | 11.4 | 12.4 | 12.8 |
| 175° | 14.3 | 13.4 | 12.4 | 11.0 | 10.5 | 11.0 | 12.4 | 13.4 | 14.3 |
| 177.5° | 14.8 | 13.8 | 12.8 | 11.4 | 11.0 | 11.4 | 12.8 | 13.8 | 14.8 |
| 180° | 12.8 | 12.8 | 12.8 | 12.8 | 12.8 | 12.8 | 12.8 | 12.8 | 12.8 |



TEST NUMBER: P1431739
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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 | 18.62 | 19.88 | 18.98 | 20.19 | 20.51 | 19.60 | 20.86 | 19.96 | 21.18 | 21.49 |
| | 3H | 20.18 | 21.31 | 20.56 | 21.64 | 22.01 | 20.94 | 22.06 | 21.32 | 22.40 | 22.76 |
| | 4H | 20.85 | 21.90 | 21.26 | 22.25 | 22.64 | 21.50 | 22.55 | 21.90 | 22.90 | 23.29 |
| | 6H | 21.41 | 22.37 | 21.82 | 22.74 | 23.14 | 21.93 | 22.89 | 22.35 | 23.27 | 23.66 |
| | 8H | 21.61 | 22.52 | 22.04 | 22.91 | 23.32 | 22.07 | 22.98 | 22.50 | 23.37 | 23.78 |
| | 12H | 21.73 | 22.61 | 22.17 | 22.99 | 23.42 | 22.14 | 23.02 | 22.58 | 23.40 | 23.83 |
| 4H | 2H | 19.19 | 20.24 | 19.59 | 20.59 | 20.97 | 19.96 | 21.01 | 20.36 | 21.36 | 21.74 |
| | 3H | 20.98 | 21.84 | 21.39 | 22.25 | 22.65 | 21.55 | 22.41 | 21.96 | 22.82 | 23.22 |
| | 4H | 21.77 | 22.55 | 22.21 | 22.97 | 23.41 | 22.24 | 23.02 | 22.68 | 23.44 | 23.88 |
| | 6H | 22.46 | 23.13 | 22.92 | 23.57 | 24.04 | 22.82 | 23.48 | 23.28 | 23.93 | 24.40 |
| | 8H | 22.71 | 23.33 | 23.18 | 23.78 | 24.25 | 23.00 | 23.62 | 23.47 | 24.07 | 24.54 |
| | 12H | 22.88 | 23.43 | 23.36 | 23.91 | 24.39 | 23.12 | 23.67 | 23.61 | 24.15 | 24.63 |
| 8H | 4H | 22.05 | 22.68 | 22.52 | 23.13 | 23.60 | 22.48 | 23.10 | 22.95 | 23.55 | 24.02 |
| | 6H | 22.87 | 23.38 | 23.38 | 23.88 | 24.36 | 23.18 | 23.69 | 23.68 | 24.18 | 24.67 |
| | 8H | 23.20 | 23.66 | 23.73 | 24.17 | 24.67 | 23.44 | 23.89 | 23.96 | 24.41 | 24.90 |
| | 12H | 23.45 | 23.85 | 23.97 | 24.35 | 24.92 | 23.63 | 24.03 | 24.15 | 24.53 | 25.10 |
| 12H | 4H | 22.07 | 22.62 | 22.56 | 23.10 | 23.58 | 22.49 | 23.04 | 22.98 | 23.52 | 24.00 |
| | 6H | 22.92 | 23.37 | 23.44 | 23.89 | 24.38 | 23.22 | 23.68 | 23.75 | 24.19 | 24.69 |
| | 8H | 23.31 | 23.71 | 23.82 | 24.20 | 24.78 | 23.54 | 23.94 | 24.06 | 24.44 | 25.01 |

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



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

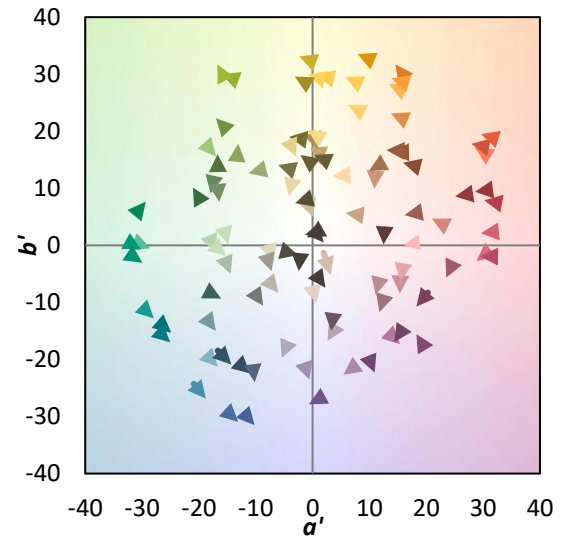
| λ (nm) | Power W [^] /nm | Lumens (φ/nm) | λ (nm) | Power W [^] /nm | Lumens (φ/nm) | λ (nm) | Power W [^] /nm | Lumens (φ/nm) | λ (nm) | Power W [^] /nm | Lumens (φ/nm) | λ (nm) | Power W [^] /nm | Lumens (φ/nm) |
|--------|--------------------------|---------------|--------|--------------------------|---------------|--------|--------------------------|---------------|--------|--------------------------|---------------|--------|--------------------------|---------------|
| 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)