

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: P1433249

Luminaire Tested: EHBR1-42-UNV-A1-L930

Issue Date: 3/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1433249
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: EHBR1-42-UNV-A1-L930
Description: Elevate Round Highbay at, 42000 lumens, 3000K 90CRI LEDs with A lens
Light Source: -
Ballast/Driver: -

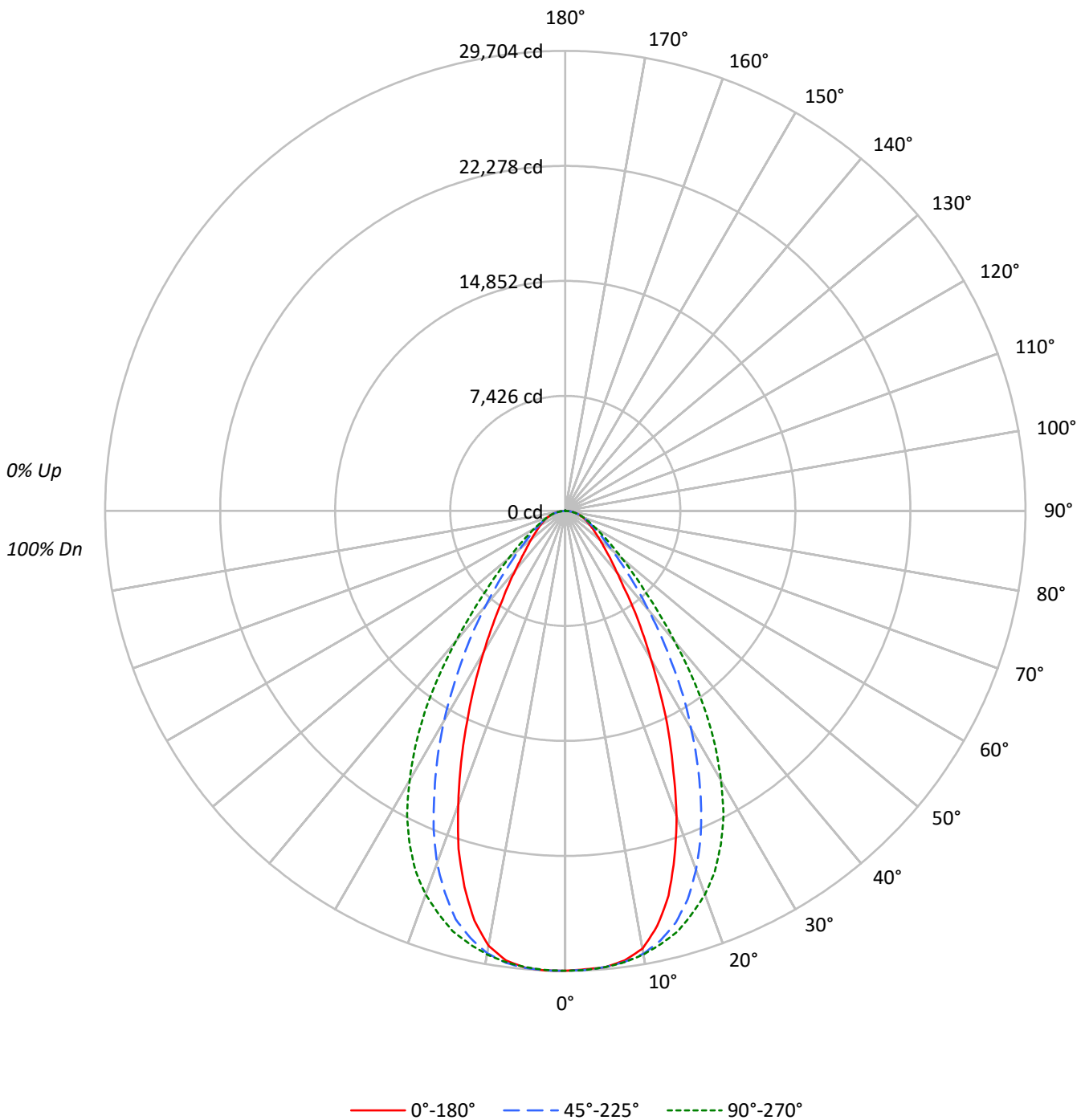
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36886.1 lumens
Efficiency: N/A
Efficacy: 164.4 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): 224.4
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: P1433249
CATALOG NUMBER: EHBR1-42-UNV-A1-L930

Luminous Intensity Polar Plot





TEST NUMBER: P1433249
 CATALOG NUMBER: EHBR1-42-UNV-A1-L930

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

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|--------|--------|--------|--------|--------|
| 0° | 139434 | 139434 | 139434 | 139434 | 139434 |
| 5° | 139415 | 139394 | 139400 | 139646 | 139561 |
| 10° | 136863 | 138458 | 138678 | 138287 | 135968 |
| 15° | 125087 | 133815 | 136570 | 132742 | 122215 |
| 20° | 104969 | 123283 | 131706 | 120961 | 100882 |
| 25° | 81782 | 107389 | 123088 | 103467 | 77544 |
| 30° | 60088 | 88155 | 108988 | 84810 | 57034 |
| 35° | 43694 | 68543 | 90358 | 65592 | 40842 |
| 40° | 31745 | 51123 | 67245 | 48965 | 30765 |
| 45° | 25297 | 37823 | 47496 | 36184 | 24421 |
| 50° | 21267 | 28795 | 34833 | 27846 | 20944 |
| 55° | 18874 | 23106 | 26806 | 22718 | 18620 |
| 60° | 17371 | 19683 | 21797 | 19561 | 17493 |
| 65° | 16688 | 17835 | 18816 | 17890 | 16847 |
| 70° | 16461 | 16854 | 17376 | 16949 | 16625 |
| 75° | 16294 | 16192 | 16294 | 16237 | 16451 |
| 80° | 16380 | 15201 | 14866 | 15439 | 16380 |
| 85° | 14774 | 12533 | 12398 | 12732 | 15211 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 67.5°
 Vertical Angle: 45°
 Luminance: 49763 cd/sqm



TEST NUMBER: P1433249
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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 2803.9 | 7.6 |
| 10°-20° | 7535.9 | 20.4 |
| 20°-30° | 9163.5 | 24.8 |
| 30°-40° | 7464.4 | 20.2 |
| 40°-50° | 4481.6 | 12.1 |
| 50°-60° | 2579.2 | 7.0 |
| 60°-70° | 1614.2 | 4.4 |
| 70°-80° | 950.7 | 2.6 |
| 80°-90° | 278.0 | 0.8 |
| 90°-100° | 0.1 | 0.0 |
| 100°-110° | 0.2 | 0.0 |
| 110°-120° | 0.2 | 0.0 |
| 120°-130° | 0.4 | 0.0 |
| 130°-140° | 1.9 | 0.0 |
| 140°-150° | 3.4 | 0.0 |
| 150°-160° | 3.8 | 0.0 |
| 160°-170° | 3.4 | 0.0 |
| 170°-180° | 1.4 | 0.0 |
| 0°-30° | 19503.3 | 52.9 |
| 0°-40° | 26967.7 | 73.1 |
| 0°-60° | 34028.5 | 92.3 |
| 0°-90° | 36871.3 | 100.0 |
| 90°-120° | 0.4 | 0.0 |
| 90°-150° | 6.2 | 0.0 |
| 90°-180° | 15.0 | 0.0 |
| 0°-180° | 36886.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|------|-------|-------|-------|-------|-------|------|
| 0° | 29691 | 29691 | 29691 | 29691 | 29691 | |
| 5° | 29574 | 29570 | 29571 | 29624 | 29606 | 2795 |
| 15° | 25729 | 27524 | 28091 | 27303 | 25138 | 7078 |
| 25° | 15783 | 20725 | 23755 | 19968 | 14965 | 7191 |
| 35° | 7622 | 11956 | 15761 | 11441 | 7124 | 4822 |
| 45° | 3809 | 5695 | 7152 | 5448 | 3677 | 3005 |
| 55° | 2305 | 2822 | 3274 | 2775 | 2274 | 2084 |
| 65° | 1502 | 1605 | 1693 | 1610 | 1516 | 1493 |
| 75° | 898 | 892 | 898 | 895 | 907 | 951 |
| 85° | 274 | 233 | 230 | 236 | 282 | 293 |
| 90° | 1 | 0 | 0 | 0 | 1 | 14 |
| 95° | 1 | 0 | 0 | 0 | 1 | 1 |
| 105° | 1 | 0 | 0 | 0 | 1 | 1 |
| 115° | 1 | 0 | 0 | 0 | 1 | 1 |
| 125° | 2 | 0 | 0 | 1 | 2 | 2 |
| 135° | 3 | 2 | 2 | 2 | 3 | 2 |
| 145° | 6 | 5 | 5 | 6 | 6 | 4 |
| 155° | 9 | 8 | 6 | 8 | 10 | 5 |
| 165° | 14 | 12 | 11 | 12 | 14 | 4 |
| 175° | 19 | 16 | 14 | 16 | 19 | 2 |
| 180° | 17 | 17 | 17 | 17 | 17 | |



TEST NUMBER: P1433249
 CATALOG NUMBER: EHBR1-42-UNV-A1-L930

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 29691.4 | 29691.4 | 29691.4 | 29691.4 | 29691.4 | 29691.4 | 29691.4 | 29691.4 | 29691.4 |
| 2.5° | 29626.0 | 29652.8 | 29664.0 | 29670.1 | 29677.0 | 29695.7 | 29703.7 | 29690.7 | 29701.9 |
| 5° | 29574.4 | 29576.3 | 29570.1 | 29598.1 | 29571.3 | 29589.9 | 29623.5 | 29610.5 | 29605.5 |
| 7.5° | 29273.4 | 29335.6 | 29372.3 | 29381.6 | 29386.6 | 29409.7 | 29433.3 | 29299.5 | 29279.7 |
| 10° | 28701.3 | 28805.2 | 29035.8 | 29101.8 | 29081.9 | 29119.2 | 28999.8 | 28650.3 | 28513.5 |
| 12.5° | 27447.0 | 27812.0 | 28411.5 | 28678.3 | 28629.8 | 28662.7 | 28256.1 | 27518.5 | 27094.4 |
| 15° | 25728.7 | 26264.2 | 27524.1 | 28050.2 | 28090.6 | 28050.2 | 27303.4 | 25866.2 | 25138.0 |
| 17.5° | 23444.6 | 24433.4 | 26288.5 | 27309.5 | 27251.1 | 27270.4 | 25852.5 | 23728.2 | 22894.9 |
| 20° | 21004.3 | 22058.5 | 24669.1 | 26372.4 | 26354.4 | 26246.1 | 24204.5 | 21403.0 | 20186.6 |
| 22.5° | 18244.5 | 19603.9 | 22813.5 | 25220.1 | 25213.2 | 25032.9 | 22197.8 | 18863.9 | 17554.2 |
| 25° | 15783.2 | 17116.4 | 20725.2 | 23808.4 | 23754.9 | 23549.7 | 19968.3 | 16331.0 | 14965.4 |
| 27.5° | 13238.4 | 14624.6 | 18495.8 | 22154.3 | 22117.6 | 21893.7 | 17837.1 | 13963.5 | 12663.8 |
| 30° | 11081.1 | 12348.5 | 16257.0 | 20334.0 | 20098.9 | 20073.5 | 15640.1 | 11771.4 | 10517.8 |
| 32.5° | 9232.9 | 10319.4 | 14146.4 | 18430.5 | 18014.4 | 18133.2 | 13450.5 | 9938.2 | 8695.7 |
| 35° | 7621.7 | 8578.7 | 11956.2 | 16229.0 | 15761.4 | 15915.0 | 11441.3 | 8154.6 | 7124.2 |
| 37.5° | 6185.8 | 7106.1 | 10099.8 | 14087.9 | 13372.8 | 13662.5 | 9673.9 | 6810.1 | 5984.3 |
| 40° | 5178.3 | 5908.4 | 8339.3 | 11738.5 | 10969.2 | 11441.3 | 7987.4 | 5680.2 | 5018.5 |
| 42.5° | 4461.9 | 4938.3 | 6882.9 | 9495.4 | 8905.3 | 9239.8 | 6583.1 | 4748.6 | 4253.6 |
| 45° | 3809.0 | 4189.0 | 5695.1 | 7493.0 | 7151.6 | 7461.9 | 5448.3 | 4049.0 | 3677.1 |
| 47.5° | 3327.0 | 3619.9 | 4688.3 | 6050.8 | 5838.7 | 5937.0 | 4550.2 | 3533.5 | 3231.3 |
| 50° | 2911.0 | 3137.3 | 3941.4 | 4883.5 | 4767.9 | 4828.2 | 3811.5 | 3074.5 | 2866.8 |
| 52.5° | 2587.6 | 2753.6 | 3305.9 | 4013.6 | 3956.4 | 3965.7 | 3248.0 | 2704.5 | 2554.0 |
| 55° | 2305.3 | 2421.0 | 2822.1 | 3287.9 | 3274.1 | 3276.6 | 2774.8 | 2396.7 | 2274.2 |
| 57.5° | 2058.4 | 2154.2 | 2425.3 | 2761.7 | 2741.9 | 2746.2 | 2403.0 | 2128.7 | 2049.7 |
| 60° | 1849.5 | 1913.5 | 2095.7 | 2333.9 | 2320.8 | 2315.3 | 2082.7 | 1889.8 | 1862.5 |
| 62.5° | 1664.1 | 1705.2 | 1831.4 | 2000.6 | 1975.7 | 1981.3 | 1830.8 | 1707.1 | 1666.6 |
| 65° | 1501.8 | 1516.1 | 1605.0 | 1709.6 | 1693.3 | 1707.1 | 1610.0 | 1525.5 | 1516.1 |
| 67.5° | 1343.2 | 1357.6 | 1409.8 | 1480.1 | 1461.4 | 1472.6 | 1411.0 | 1361.3 | 1353.2 |
| 70° | 1198.9 | 1198.3 | 1227.5 | 1265.5 | 1265.5 | 1267.4 | 1234.4 | 1204.6 | 1210.8 |
| 72.5° | 1049.8 | 1046.0 | 1054.7 | 1080.2 | 1073.4 | 1097.0 | 1062.1 | 1052.8 | 1054.0 |
| 75° | 898.0 | 887.4 | 892.4 | 905.5 | 898.0 | 910.4 | 894.9 | 906.7 | 906.7 |
| 77.5° | 755.0 | 735.0 | 728.9 | 730.7 | 717.0 | 735.6 | 739.4 | 747.5 | 766.1 |
| 80° | 605.7 | 577.7 | 562.1 | 561.5 | 549.7 | 561.5 | 570.9 | 587.7 | 605.7 |
| 82.5° | 449.6 | 425.3 | 399.2 | 394.2 | 386.8 | 393.6 | 406.1 | 426.0 | 455.2 |
| 85° | 274.2 | 248.7 | 232.6 | 223.9 | 230.1 | 230.1 | 236.3 | 264.3 | 282.3 |
| 87.5° | 98.9 | 86.4 | 70.9 | 71.6 | 73.3 | 75.8 | 79.0 | 99.5 | 108.8 |
| 90° | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 |
| 92.5° | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 |
| 95° | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 |
| 97.5° | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 |
| 100° | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 |
| 102.5° | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 |
| 105° | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 |
| 107.5° | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 |
| 110° | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 |



TEST NUMBER: P1433249
 CATALOG NUMBER: EHBR1-42-UNV-A1-L930

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|--------|------|-------|------|-------|------|--------|------|--------|------|
| 112.5° | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 |
| 115° | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 |
| 117.5° | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 |
| 120° | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 1.2 |
| 122.5° | 1.9 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 1.9 |
| 125° | 1.9 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 0.6 | 1.9 |
| 127.5° | 1.9 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 1.2 | 1.9 |
| 130° | 1.9 | 1.2 | 0.6 | 0.0 | 0.6 | 0.6 | 1.2 | 1.2 | 1.9 |
| 132.5° | 2.5 | 1.9 | 1.9 | 1.2 | 1.2 | 1.9 | 1.9 | 2.5 | 2.5 |
| 135° | 3.1 | 2.5 | 2.5 | 1.9 | 2.5 | 2.5 | 2.5 | 2.5 | 3.1 |
| 137.5° | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.7 |
| 140° | 4.4 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 4.4 | 4.4 |
| 142.5° | 5.0 | 5.0 | 4.4 | 4.4 | 4.4 | 5.0 | 5.0 | 5.0 | 5.6 |
| 145° | 5.6 | 5.6 | 5.0 | 5.0 | 5.0 | 5.6 | 5.6 | 6.2 | 6.2 |
| 147.5° | 7.5 | 6.9 | 5.6 | 5.6 | 5.6 | 5.6 | 6.2 | 6.9 | 7.5 |
| 150° | 8.1 | 7.5 | 6.2 | 6.2 | 6.2 | 6.2 | 6.9 | 8.1 | 8.7 |
| 152.5° | 8.7 | 8.1 | 6.9 | 6.2 | 6.2 | 6.2 | 7.5 | 8.1 | 9.4 |
| 155° | 9.4 | 8.7 | 7.5 | 6.2 | 6.2 | 6.9 | 8.1 | 9.4 | 10.0 |
| 157.5° | 11.2 | 10.0 | 8.7 | 7.5 | 7.5 | 8.1 | 9.4 | 10.6 | 11.2 |
| 160° | 12.5 | 11.2 | 10.0 | 8.7 | 8.7 | 9.4 | 10.6 | 11.9 | 12.5 |
| 162.5° | 13.7 | 12.5 | 10.6 | 10.0 | 9.4 | 10.0 | 11.2 | 13.1 | 13.7 |
| 165° | 14.3 | 13.1 | 11.9 | 10.6 | 10.6 | 10.6 | 12.5 | 13.7 | 14.3 |
| 167.5° | 14.9 | 14.3 | 12.5 | 11.2 | 11.2 | 11.2 | 13.1 | 14.3 | 14.9 |
| 170° | 15.5 | 14.9 | 13.1 | 11.9 | 11.2 | 11.9 | 13.7 | 14.9 | 15.5 |
| 172.5° | 16.8 | 16.1 | 14.3 | 13.1 | 12.5 | 13.1 | 14.9 | 16.1 | 16.8 |
| 175° | 18.6 | 17.4 | 16.1 | 14.3 | 13.7 | 14.3 | 16.1 | 17.4 | 18.6 |
| 177.5° | 19.2 | 18.0 | 16.8 | 14.9 | 14.3 | 14.9 | 16.8 | 18.0 | 19.2 |
| 180° | 16.8 | 16.8 | 16.8 | 16.8 | 16.8 | 16.8 | 16.8 | 16.8 | 16.8 |



TEST NUMBER: P1433249
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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 | 19.54 | 20.81 | 19.91 | 21.12 | 21.44 | 20.52 | 21.79 | 20.89 | 22.10 | 22.42 |
| | 3H | 21.11 | 22.23 | 21.49 | 22.56 | 22.93 | 21.86 | 22.99 | 22.24 | 23.32 | 23.69 |
| | 4H | 21.78 | 22.83 | 22.18 | 23.18 | 23.56 | 22.42 | 23.47 | 22.83 | 23.82 | 24.21 |
| | 6H | 22.33 | 23.29 | 22.75 | 23.67 | 24.06 | 22.85 | 23.82 | 23.27 | 24.19 | 24.59 |
| | 8H | 22.53 | 23.44 | 22.96 | 23.84 | 24.24 | 22.99 | 23.90 | 23.42 | 24.30 | 24.70 |
| | 12H | 22.66 | 23.53 | 23.09 | 23.91 | 24.35 | 23.07 | 23.94 | 23.50 | 24.33 | 24.76 |
| 4H | 2H | 20.11 | 21.16 | 20.52 | 21.51 | 21.90 | 20.88 | 21.93 | 21.29 | 22.28 | 22.67 |
| | 3H | 21.90 | 22.77 | 22.32 | 23.17 | 23.58 | 22.47 | 23.34 | 22.89 | 23.74 | 24.15 |
| | 4H | 22.70 | 23.47 | 23.13 | 23.89 | 24.34 | 23.17 | 23.94 | 23.60 | 24.36 | 24.81 |
| | 6H | 23.38 | 24.05 | 23.85 | 24.50 | 24.97 | 23.74 | 24.41 | 24.20 | 24.86 | 25.32 |
| | 8H | 23.63 | 24.25 | 24.10 | 24.70 | 25.17 | 23.92 | 24.55 | 24.39 | 25.00 | 25.47 |
| | 12H | 23.80 | 24.35 | 24.29 | 24.83 | 25.31 | 24.04 | 24.59 | 24.53 | 25.08 | 25.55 |
| 8H | 4H | 22.98 | 23.60 | 23.45 | 24.05 | 24.52 | 23.40 | 24.02 | 23.87 | 24.47 | 24.95 |
| | 6H | 23.80 | 24.30 | 24.30 | 24.80 | 25.29 | 24.10 | 24.61 | 24.61 | 25.11 | 25.59 |
| | 8H | 24.13 | 24.58 | 24.65 | 25.10 | 25.59 | 24.36 | 24.82 | 24.89 | 25.34 | 25.83 |
| | 12H | 24.38 | 24.78 | 24.89 | 25.27 | 25.85 | 24.56 | 24.96 | 25.07 | 25.45 | 26.03 |
| 12H | 4H | 23.00 | 23.54 | 23.48 | 24.03 | 24.50 | 23.41 | 23.96 | 23.90 | 24.45 | 24.92 |
| | 6H | 23.84 | 24.30 | 24.37 | 24.82 | 25.31 | 24.15 | 24.60 | 24.67 | 25.12 | 25.61 |
| | 8H | 24.23 | 24.63 | 24.75 | 25.13 | 25.70 | 24.46 | 24.86 | 24.98 | 25.36 | 25.93 |

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

Report Prepared for

Cooper Lighting Solutions

Metalux

Report Number: SP1-2506-472-5

Test Date: 08/01/2025

Luminaire Tested: EHBR-60-L930-N

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

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2506-472-5
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 08/05/2025
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: Metalux
 Catalog Number: **EHBR-60-L930-N**
 Description: Elevate Round Highbay at, 60000 lumens, 3000K 90CRI LEDs with N lens

Spectral Parameters

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

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



Test Conditions

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

REPORT NUMBER: SP1-2506-472-5

| Measurement and Test Equipment | | | |
|--------------------------------|-----------------------|------------------|----------------------|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | 76INCH SPHERE IN0058 | 6/16/2025 | 12/16/2025 |
| Power Meter | XITRON INXT2011004 | 1/21/2025 | 1/21/2026 |
| AC Power Source | CHROMA 61603 IN0063 | 10/22/2024 | 10/22/2025 |
| DC Power Source | AGILENT E3634A IN0208 | 10/22/2024 | 10/22/2025 |
| Sphere Thermometer | ONSET IN0085 | 10/22/2024 | 10/22/2025 |
| Room Thermometer | ONSET IN0046 | 10/22/2024 | 10/22/2025 |

REPORT NUMBER: SP1-2506-472-5

CIE 1931 Chromaticity Diagram



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



Point lies inside the ANSI 3000K 7-step quadrangle

REPORT NUMBER: SP1-2506-472-5

Photopic Flux vs. Wavelength



Photopic Lumens: NR

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

REPORT NUMBER: SP1-2506-472-5

Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

S/P: 1.44

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

REPORT NUMBER: SP1-2506-472-5

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.85

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

Summary

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



Color Vector Graphics



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

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



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)