

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: P1431811

Luminaire Tested: EHBR1-42-UNV-ASM-L950

Issue Date: 3/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1431811
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2601-654-4)
Test Lab: INNOVATION CENTER
Issue Date: 3/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: EHBR1-42-UNV-ASM-L950
Description: Elevate Round Highbay at, 42000 lumens, 5000K 90CRI LEDs with ASM lens
Light Source: -
Ballast/Driver: -

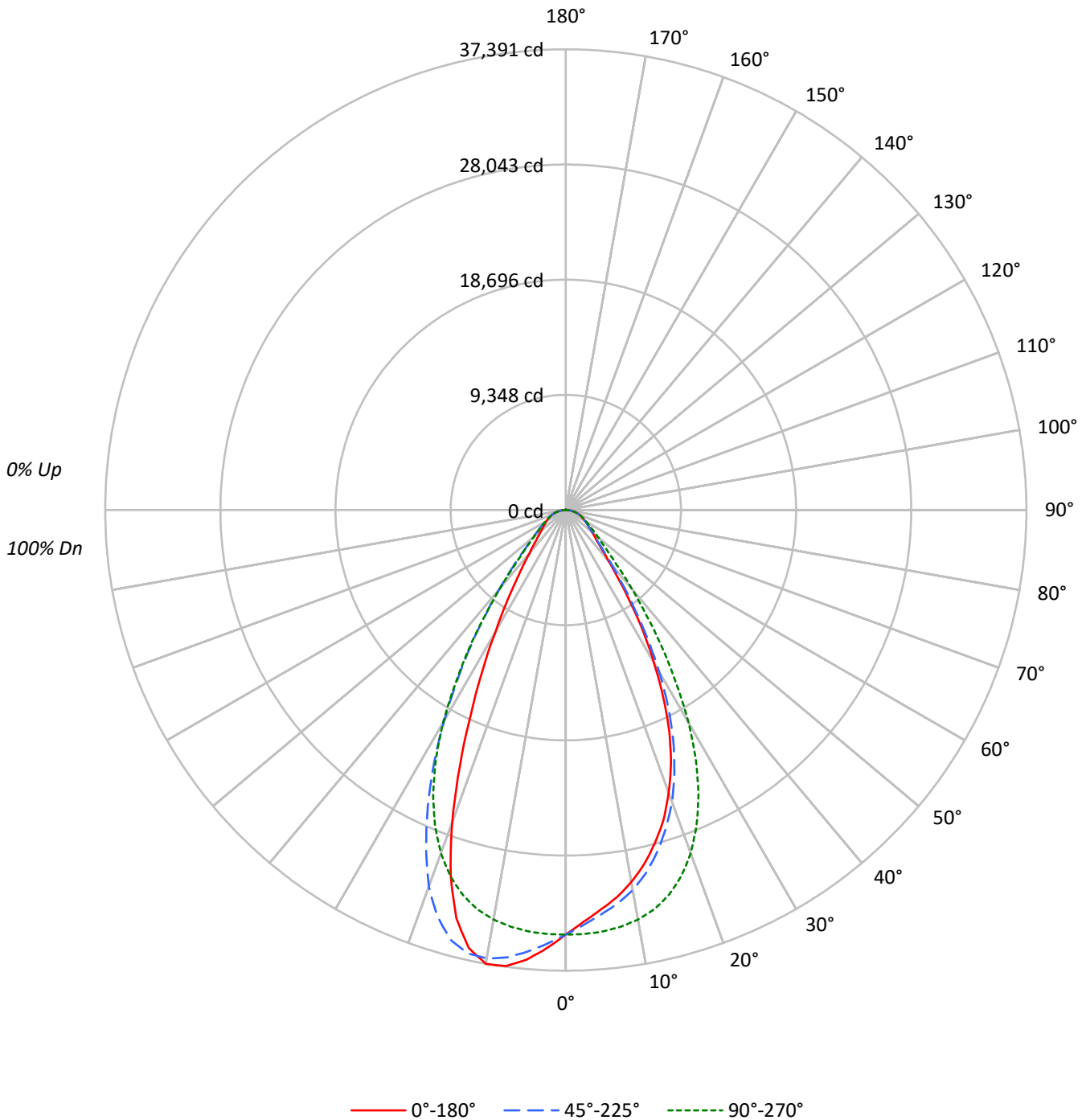
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38530.6 lumens
Efficiency: N/A
Efficacy: 171.7 lumens/watt
Spacing Criteria (0/90/45): 0.84 / 0.99 / 0.92
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: P1431811
CATALOG NUMBER: EHBR1-42-UNV-ASM-L950

Luminous Intensity Polar Plot





TEST NUMBER: P1431811
 CATALOG NUMBER: EHBR1-42-UNV-ASM-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 | 50 | 30 | 10 |
| RCR | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | 100 | 100 |
| 1 | 112 | 108 | 105 | 103 | 109 | 106 | 104 | 101 | 102 | 100 | 98 | 98 | 97 | 95 | 95 | 93 | 92 | 90 | 90 | 90 |
| 2 | 105 | 99 | 94 | 90 | 103 | 97 | 93 | 89 | 94 | 90 | 87 | 91 | 88 | 85 | 88 | 85 | 83 | 81 | 81 | 81 |
| 3 | 99 | 91 | 85 | 80 | 96 | 89 | 84 | 79 | 87 | 82 | 78 | 84 | 80 | 77 | 82 | 78 | 76 | 74 | 74 | 74 |
| 4 | 93 | 84 | 77 | 72 | 91 | 83 | 77 | 72 | 80 | 75 | 71 | 78 | 74 | 70 | 76 | 72 | 69 | 67 | 67 | 67 |
| 5 | 87 | 78 | 71 | 66 | 86 | 77 | 70 | 65 | 75 | 69 | 65 | 73 | 68 | 64 | 71 | 67 | 64 | 62 | 62 | 62 |
| 6 | 82 | 72 | 65 | 60 | 81 | 71 | 65 | 60 | 70 | 64 | 60 | 68 | 63 | 59 | 67 | 62 | 59 | 57 | 57 | 57 |
| 7 | 78 | 67 | 60 | 56 | 76 | 67 | 60 | 56 | 65 | 59 | 55 | 64 | 59 | 55 | 63 | 58 | 55 | 53 | 53 | 53 |
| 8 | 74 | 63 | 56 | 52 | 72 | 62 | 56 | 52 | 61 | 55 | 51 | 60 | 55 | 51 | 59 | 54 | 51 | 49 | 49 | 49 |
| 9 | 70 | 59 | 53 | 48 | 69 | 59 | 52 | 48 | 58 | 52 | 48 | 57 | 51 | 48 | 56 | 51 | 47 | 46 | 46 | 46 |
| 10 | 66 | 56 | 49 | 45 | 65 | 55 | 49 | 45 | 54 | 49 | 45 | 54 | 48 | 45 | 53 | 48 | 45 | 43 | 43 | 43 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|--------|--------|--------|--------|--------|
| 0° | 161823 | 161823 | 161823 | 161823 | 161823 |
| 5° | 153485 | 155280 | 161886 | 169651 | 172703 |
| 10° | 146217 | 149313 | 160948 | 176250 | 178301 |
| 15° | 135975 | 139607 | 157249 | 175617 | 166815 |
| 20° | 121965 | 126073 | 148099 | 162559 | 134701 |
| 25° | 102971 | 106869 | 132053 | 137363 | 94022 |
| 30° | 77660 | 82161 | 108080 | 107000 | 61657 |
| 35° | 52153 | 55302 | 78199 | 76935 | 40281 |
| 40° | 33214 | 35496 | 51055 | 51384 | 28037 |
| 45° | 23933 | 24928 | 32760 | 34167 | 21963 |
| 50° | 20201 | 20361 | 24652 | 25294 | 18911 |
| 55° | 18120 | 18162 | 20452 | 20992 | 17506 |
| 60° | 17120 | 16975 | 18073 | 18456 | 17018 |
| 65° | 16787 | 16637 | 16923 | 17253 | 16859 |
| 70° | 16937 | 16644 | 16662 | 16980 | 17159 |
| 75° | 17083 | 16566 | 16531 | 17117 | 17611 |
| 80° | 17300 | 16094 | 16164 | 17300 | 18506 |
| 85° | 16402 | 13611 | 13611 | 15566 | 17199 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 112.5°
 Vertical Angle: 45°
 Luminance: 46059 cd/sqm



TEST NUMBER: P1431811
 CATALOG NUMBER: EHBR1-42-UNV-ASM-L950

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 3276.5 | 8.5 |
| 10°-20° | 8914.0 | 23.1 |
| 20°-30° | 10454.3 | 27.1 |
| 30°-40° | 7270.3 | 18.9 |
| 40°-50° | 3613.0 | 9.4 |
| 50°-60° | 2160.9 | 5.6 |
| 60°-70° | 1521.0 | 3.9 |
| 70°-80° | 979.8 | 2.5 |
| 80°-90° | 311.2 | 0.8 |
| 90°-100° | 1.8 | 0.0 |
| 100°-110° | 2.2 | 0.0 |
| 110°-120° | 2.3 | 0.0 |
| 120°-130° | 2.8 | 0.0 |
| 130°-140° | 3.8 | 0.0 |
| 140°-150° | 4.6 | 0.0 |
| 150°-160° | 5.1 | 0.0 |
| 160°-170° | 5.0 | 0.0 |
| 170°-180° | 2.1 | 0.0 |
| 0°-30° | 22644.8 | 58.8 |
| 0°-40° | 29915.1 | 77.6 |
| 0°-60° | 35689.0 | 92.6 |
| 0°-90° | 38500.9 | 99.9 |
| 90°-120° | 6.3 | 0.0 |
| 90°-150° | 17.5 | 0.0 |
| 90°-180° | 30.0 | 0.1 |
| 0°-180° | 38530.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|------|-------|-------|-------|-------|-------|------|
| 0° | 34459 | 34459 | 34459 | 34459 | 34459 | |
| 5° | 32559 | 32940 | 34341 | 35988 | 36636 | 3054 |
| 15° | 27968 | 28715 | 32344 | 36122 | 34312 | 7800 |
| 25° | 19872 | 20625 | 25485 | 26510 | 18145 | 8966 |
| 35° | 9097 | 9646 | 13640 | 13420 | 7026 | 5795 |
| 45° | 3604 | 3754 | 4933 | 5145 | 3307 | 2913 |
| 55° | 2213 | 2218 | 2498 | 2564 | 2138 | 2008 |
| 65° | 1511 | 1497 | 1523 | 1553 | 1517 | 1500 |
| 75° | 942 | 913 | 911 | 943 | 971 | 994 |
| 85° | 304 | 253 | 253 | 289 | 319 | 313 |
| 90° | 1 | 1 | 1 | 2 | 5 | 15 |
| 95° | 1 | 1 | 1 | 2 | 5 | 1 |
| 105° | 1 | 1 | 1 | 3 | 6 | 1 |
| 115° | 1 | 1 | 2 | 3 | 6 | 1 |
| 125° | 2 | 3 | 3 | 4 | 6 | 2 |
| 135° | 3 | 5 | 5 | 5 | 7 | 2 |
| 145° | 7 | 8 | 8 | 6 | 8 | 4 |
| 155° | 12 | 11 | 10 | 10 | 12 | 6 |
| 165° | 18 | 17 | 18 | 19 | 21 | 5 |
| 175° | 22 | 22 | 23 | 24 | 28 | 2 |
| 180° | 24 | 24 | 24 | 24 | 24 | |



TEST NUMBER: P1431811
 CATALOG NUMBER: EHBR1-42-UNV-ASM-L950

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 34459.0 | 34459.0 | 34459.0 | 34459.0 | 34459.0 | 34459.0 | 34459.0 | 34459.0 | 34459.0 |
| 2.5° | 33436.1 | 33458.0 | 33692.0 | 33996.3 | 34438.9 | 34884.1 | 35244.6 | 35482.5 | 35600.0 |
| 5° | 32559.2 | 32680.7 | 32939.9 | 33498.7 | 34341.4 | 35233.0 | 35988.4 | 36482.7 | 36635.9 |
| 7.5° | 31705.0 | 31775.4 | 32209.0 | 32915.3 | 34108.1 | 35497.4 | 36619.7 | 37196.7 | 37337.6 |
| 10° | 30662.8 | 30822.3 | 31312.2 | 32145.0 | 33752.0 | 35664.0 | 36960.9 | 37374.4 | 37391.2 |
| 12.5° | 29436.4 | 29647.7 | 30153.6 | 31204.3 | 33184.0 | 35604.6 | 36846.5 | 36710.8 | 36402.6 |
| 15° | 27968.3 | 28153.7 | 28715.3 | 29933.9 | 32344.0 | 35252.4 | 36122.2 | 35017.8 | 34311.6 |
| 17.5° | 26382.7 | 26550.6 | 27038.5 | 28380.5 | 31160.3 | 34593.3 | 34610.1 | 32425.5 | 31093.1 |
| 20° | 24405.4 | 24537.2 | 25227.3 | 26544.1 | 29634.7 | 33536.3 | 32528.2 | 28532.3 | 26953.8 |
| 22.5° | 22301.5 | 22424.9 | 23038.1 | 24408.6 | 27722.1 | 32110.8 | 29628.9 | 24616.0 | 22462.4 |
| 25° | 19872.5 | 19939.8 | 20624.8 | 21864.0 | 25485.1 | 30364.3 | 26509.9 | 20348.8 | 18145.4 |
| 27.5° | 17140.0 | 17254.4 | 17970.9 | 19236.7 | 22854.0 | 28150.5 | 23188.6 | 16628.3 | 14595.5 |
| 30° | 14321.5 | 14510.8 | 15151.7 | 16285.1 | 19931.4 | 25312.6 | 19732.3 | 13242.4 | 11370.4 |
| 32.5° | 11690.9 | 11827.2 | 12284.1 | 13468.5 | 16659.2 | 22530.9 | 16413.1 | 10610.6 | 9024.9 |
| 35° | 9097.2 | 9233.6 | 9646.5 | 10809.6 | 13640.4 | 19050.6 | 13420.0 | 8337.4 | 7026.3 |
| 37.5° | 6954.0 | 7195.0 | 7459.9 | 8403.9 | 10704.9 | 15762.4 | 10697.8 | 6713.6 | 5699.1 |
| 40° | 5418.0 | 5456.8 | 5790.2 | 6394.3 | 8328.3 | 12324.8 | 8382.0 | 5359.2 | 4573.5 |
| 42.5° | 4337.0 | 4442.4 | 4585.8 | 5038.1 | 6310.4 | 9424.2 | 6588.3 | 4398.4 | 3884.7 |
| 45° | 3603.7 | 3645.0 | 3753.5 | 4057.3 | 4932.8 | 6935.2 | 5144.7 | 3710.9 | 3307.0 |
| 47.5° | 3152.6 | 3134.6 | 3204.3 | 3431.8 | 4017.1 | 5359.9 | 4169.7 | 3183.0 | 2900.0 |
| 50° | 2765.0 | 2753.9 | 2786.9 | 2938.7 | 3374.3 | 4112.8 | 3462.2 | 2778.5 | 2588.5 |
| 52.5° | 2463.8 | 2473.5 | 2476.7 | 2571.0 | 2898.6 | 3354.2 | 2948.5 | 2476.1 | 2348.1 |
| 55° | 2213.1 | 2225.4 | 2218.3 | 2288.0 | 2498.0 | 2819.9 | 2564.0 | 2226.6 | 2138.2 |
| 57.5° | 2017.3 | 2008.3 | 1998.5 | 2036.1 | 2193.7 | 2392.1 | 2226.6 | 2014.0 | 1955.2 |
| 60° | 1822.8 | 1814.4 | 1807.3 | 1831.8 | 1924.3 | 2071.6 | 1965.0 | 1828.6 | 1811.9 |
| 62.5° | 1656.1 | 1650.9 | 1650.3 | 1645.7 | 1716.8 | 1809.9 | 1737.5 | 1661.9 | 1647.0 |
| 65° | 1510.7 | 1504.9 | 1497.2 | 1490.0 | 1523.0 | 1609.6 | 1552.7 | 1512.0 | 1517.2 |
| 67.5° | 1365.3 | 1365.3 | 1351.8 | 1340.8 | 1373.0 | 1418.3 | 1393.8 | 1370.5 | 1376.3 |
| 70° | 1233.5 | 1234.1 | 1212.2 | 1203.8 | 1213.5 | 1261.9 | 1236.7 | 1240.0 | 1249.7 |
| 72.5° | 1092.0 | 1076.5 | 1060.3 | 1059.7 | 1061.0 | 1098.5 | 1090.0 | 1097.8 | 1108.2 |
| 75° | 941.5 | 923.4 | 913.0 | 901.4 | 911.1 | 939.5 | 943.4 | 954.4 | 970.6 |
| 77.5° | 796.1 | 768.3 | 759.9 | 754.1 | 747.6 | 779.9 | 792.2 | 807.0 | 831.0 |
| 80° | 639.7 | 609.3 | 595.1 | 586.7 | 597.7 | 612.6 | 639.7 | 650.7 | 684.3 |
| 82.5° | 473.0 | 450.3 | 433.0 | 432.3 | 437.4 | 451.0 | 474.3 | 494.9 | 514.4 |
| 85° | 304.4 | 268.1 | 252.6 | 258.5 | 252.6 | 273.3 | 288.9 | 313.4 | 319.2 |
| 87.5° | 109.8 | 85.9 | 82.0 | 90.5 | 88.5 | 95.0 | 108.5 | 118.3 | 118.9 |
| 90° | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 1.3 | 2.0 | 3.9 | 5.2 |
| 92.5° | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 1.3 | 2.0 | 3.9 | 5.2 |
| 95° | 0.7 | 0.7 | 0.7 | 0.7 | 1.3 | 1.3 | 2.0 | 3.9 | 5.2 |
| 97.5° | 1.3 | 0.7 | 0.7 | 0.7 | 1.3 | 1.3 | 2.0 | 3.9 | 5.2 |
| 100° | 1.3 | 0.7 | 0.7 | 1.3 | 1.3 | 1.3 | 2.0 | 3.9 | 5.2 |
| 102.5° | 1.3 | 0.7 | 0.7 | 1.3 | 1.3 | 2.0 | 2.6 | 4.6 | 5.2 |
| 105° | 1.3 | 0.7 | 0.7 | 1.3 | 1.3 | 2.0 | 2.6 | 4.6 | 5.9 |
| 107.5° | 1.3 | 0.7 | 1.3 | 1.3 | 1.3 | 2.0 | 2.6 | 4.6 | 5.9 |
| 110° | 1.3 | 0.7 | 1.3 | 1.3 | 1.3 | 2.0 | 2.6 | 4.6 | 5.9 |



TEST NUMBER: P1431811
 CATALOG NUMBER: EHBR1-42-UNV-ASM-L950

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|--------|------|-------|------|-------|------|--------|------|--------|------|
| 112.5° | 1.3 | 0.7 | 1.3 | 1.3 | 1.3 | 2.0 | 2.6 | 4.6 | 5.9 |
| 115° | 1.3 | 0.7 | 1.3 | 1.3 | 2.0 | 2.0 | 2.6 | 4.6 | 5.9 |
| 117.5° | 1.3 | 0.7 | 1.3 | 2.0 | 2.0 | 2.0 | 2.6 | 4.6 | 5.9 |
| 120° | 1.3 | 0.7 | 1.3 | 2.0 | 2.0 | 2.0 | 3.3 | 4.6 | 5.9 |
| 122.5° | 1.3 | 1.3 | 2.0 | 2.6 | 2.6 | 2.6 | 3.3 | 5.2 | 5.9 |
| 125° | 2.0 | 1.3 | 2.6 | 3.3 | 2.6 | 2.6 | 3.9 | 5.2 | 6.5 |
| 127.5° | 2.0 | 1.3 | 2.6 | 3.3 | 3.3 | 3.3 | 3.9 | 5.2 | 6.5 |
| 130° | 2.0 | 2.0 | 3.3 | 3.9 | 3.9 | 3.3 | 3.9 | 5.9 | 6.5 |
| 132.5° | 2.6 | 2.6 | 4.6 | 5.2 | 4.6 | 3.9 | 4.6 | 6.5 | 7.2 |
| 135° | 2.6 | 3.3 | 4.6 | 5.9 | 5.2 | 3.9 | 5.2 | 5.9 | 7.2 |
| 137.5° | 3.3 | 3.9 | 5.9 | 6.5 | 5.9 | 4.6 | 5.2 | 6.5 | 7.2 |
| 140° | 4.6 | 5.2 | 6.5 | 6.5 | 6.5 | 5.2 | 5.2 | 6.5 | 7.7 |
| 142.5° | 5.9 | 5.9 | 7.2 | 7.2 | 7.2 | 5.9 | 5.9 | 7.2 | 7.7 |
| 145° | 7.2 | 7.2 | 7.7 | 7.2 | 7.7 | 7.2 | 6.5 | 7.2 | 8.4 |
| 147.5° | 8.4 | 8.4 | 8.4 | 7.7 | 7.7 | 7.2 | 7.2 | 7.7 | 9.0 |
| 150° | 9.7 | 9.7 | 9.0 | 8.4 | 8.4 | 8.4 | 7.7 | 8.4 | 9.7 |
| 152.5° | 11.0 | 10.3 | 9.7 | 9.0 | 9.0 | 9.0 | 9.0 | 9.7 | 10.3 |
| 155° | 12.3 | 11.6 | 11.0 | 9.7 | 10.3 | 10.3 | 10.3 | 11.0 | 11.6 |
| 157.5° | 14.2 | 12.9 | 12.3 | 11.6 | 11.6 | 12.3 | 12.3 | 12.9 | 13.6 |
| 160° | 15.5 | 14.9 | 14.2 | 13.6 | 14.2 | 14.2 | 14.9 | 15.5 | 16.2 |
| 162.5° | 16.8 | 16.2 | 15.5 | 15.5 | 15.5 | 15.5 | 16.8 | 17.5 | 18.8 |
| 165° | 18.1 | 17.5 | 16.8 | 16.8 | 17.5 | 17.5 | 18.8 | 20.1 | 21.4 |
| 167.5° | 18.1 | 18.1 | 18.1 | 18.1 | 18.8 | 18.8 | 20.1 | 21.9 | 23.2 |
| 170° | 19.4 | 18.8 | 18.8 | 19.4 | 19.4 | 20.1 | 21.4 | 23.2 | 24.5 |
| 172.5° | 20.7 | 20.1 | 20.7 | 20.7 | 21.4 | 21.4 | 23.2 | 25.2 | 26.5 |
| 175° | 21.9 | 21.4 | 21.9 | 21.9 | 22.6 | 23.2 | 24.5 | 26.5 | 27.8 |
| 177.5° | 22.6 | 21.9 | 21.9 | 21.9 | 22.6 | 23.9 | 25.2 | 27.1 | 28.4 |
| 180° | 23.9 | 23.9 | 23.9 | 23.9 | 23.9 | 23.9 | 23.9 | 23.9 | 23.9 |



TEST NUMBER: P1431811
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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 | 18.64 | 19.85 | 19.01 | 20.16 | 20.48 | 19.41 | 20.62 | 19.78 | 20.93 | 21.25 |
| | 3H | 20.56 | 21.63 | 20.94 | 21.97 | 22.33 | 21.06 | 22.13 | 21.44 | 22.47 | 22.83 |
| | 4H | 21.37 | 22.37 | 21.78 | 22.73 | 23.11 | 21.78 | 22.78 | 22.18 | 23.13 | 23.52 |
| | 6H | 22.04 | 22.96 | 22.46 | 23.33 | 23.73 | 22.37 | 23.28 | 22.78 | 23.66 | 24.06 |
| | 8H | 22.28 | 23.15 | 22.71 | 23.54 | 23.95 | 22.58 | 23.44 | 23.01 | 23.84 | 24.25 |
| | 12H | 22.44 | 23.27 | 22.87 | 23.66 | 24.09 | 22.71 | 23.54 | 23.14 | 23.92 | 24.36 |
| 4H | 2H | 19.21 | 20.21 | 19.62 | 20.57 | 20.95 | 19.83 | 20.83 | 20.24 | 21.19 | 21.57 |
| | 3H | 21.37 | 22.19 | 21.79 | 22.60 | 23.01 | 21.75 | 22.58 | 22.17 | 22.99 | 23.39 |
| | 4H | 22.32 | 23.06 | 22.76 | 23.48 | 23.93 | 22.62 | 23.36 | 23.06 | 23.79 | 24.23 |
| | 6H | 23.13 | 23.77 | 23.60 | 24.22 | 24.69 | 23.37 | 24.01 | 23.84 | 24.46 | 24.93 |
| | 8H | 23.42 | 24.02 | 23.90 | 24.47 | 24.94 | 23.64 | 24.23 | 24.11 | 24.68 | 25.16 |
| | 12H | 23.63 | 24.15 | 24.12 | 24.64 | 25.12 | 23.82 | 24.35 | 24.31 | 24.83 | 25.31 |
| 8H | 4H | 22.64 | 23.23 | 23.11 | 23.68 | 24.16 | 22.93 | 23.52 | 23.40 | 23.97 | 24.45 |
| | 6H | 23.60 | 24.08 | 24.10 | 24.58 | 25.06 | 23.83 | 24.31 | 24.33 | 24.81 | 25.30 |
| | 8H | 23.98 | 24.41 | 24.51 | 24.93 | 25.43 | 24.19 | 24.63 | 24.72 | 25.14 | 25.64 |
| | 12H | 24.28 | 24.66 | 24.80 | 25.15 | 25.73 | 24.47 | 24.85 | 24.99 | 25.34 | 25.92 |
| 12H | 4H | 22.66 | 23.19 | 23.15 | 23.67 | 24.15 | 22.96 | 23.48 | 23.45 | 23.97 | 24.44 |
| | 6H | 23.66 | 24.09 | 24.18 | 24.61 | 25.11 | 23.90 | 24.33 | 24.43 | 24.85 | 25.35 |
| | 8H | 24.11 | 24.48 | 24.63 | 24.98 | 25.56 | 24.33 | 24.71 | 24.85 | 25.21 | 25.78 |

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 |

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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

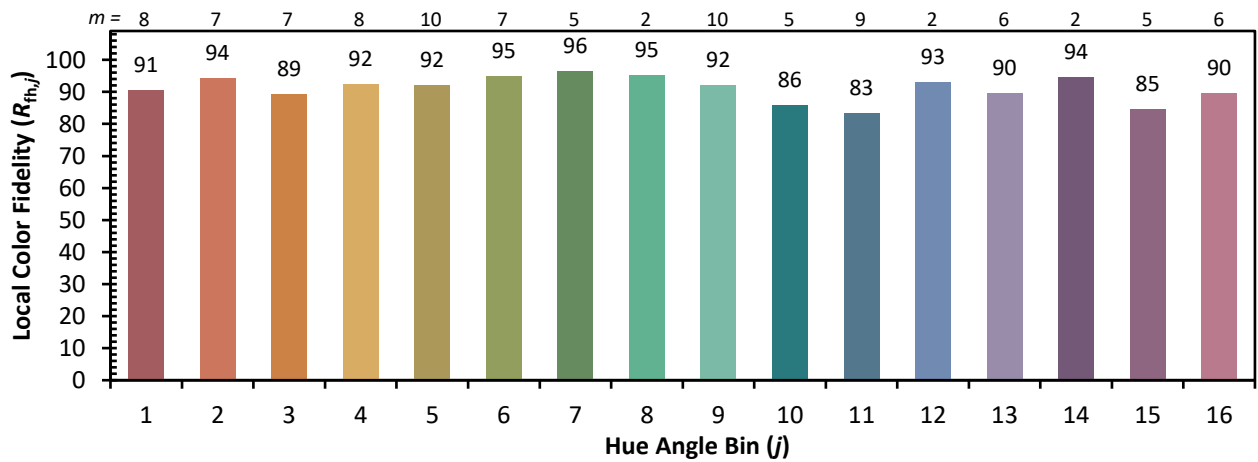
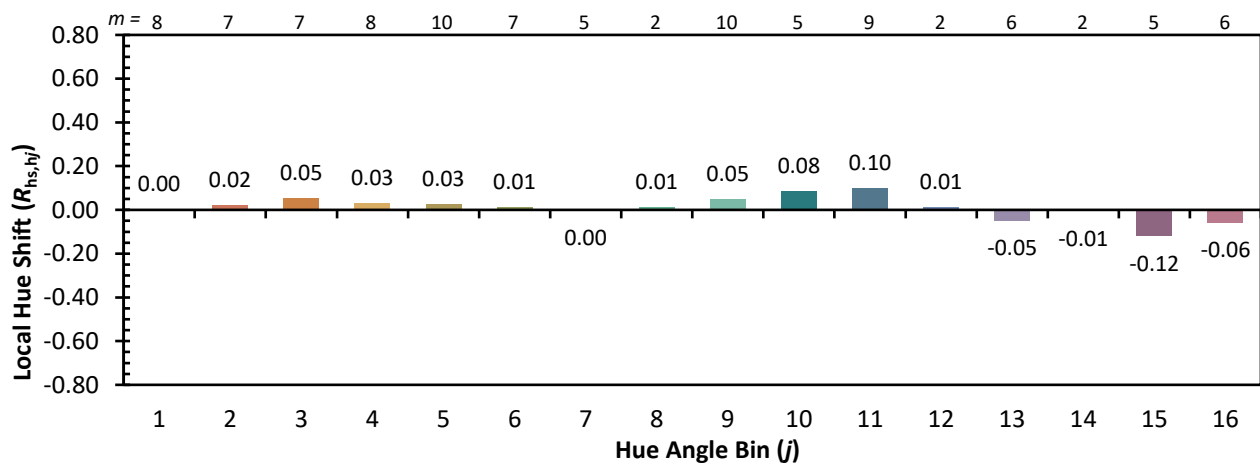
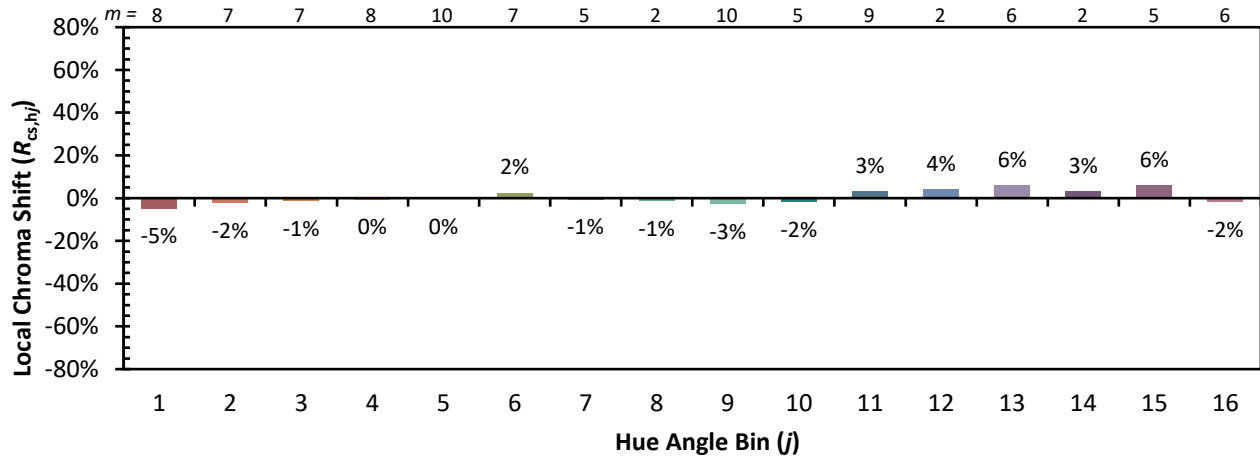


Individual Sample Fidelity Index ($R_{f,i}$)

| | | | |
|------------|------------|------------|------------|
| 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)