

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: P1433185

Luminaire Tested: EHBR1-30-UNV-A1-L930

Issue Date: 3/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1433185  
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-L930  
Description: Elevate Round Highbay at, 30000 lumens, 3000K 90CRI LEDs with A lens  
Light Source: -  
Ballast/Driver: -

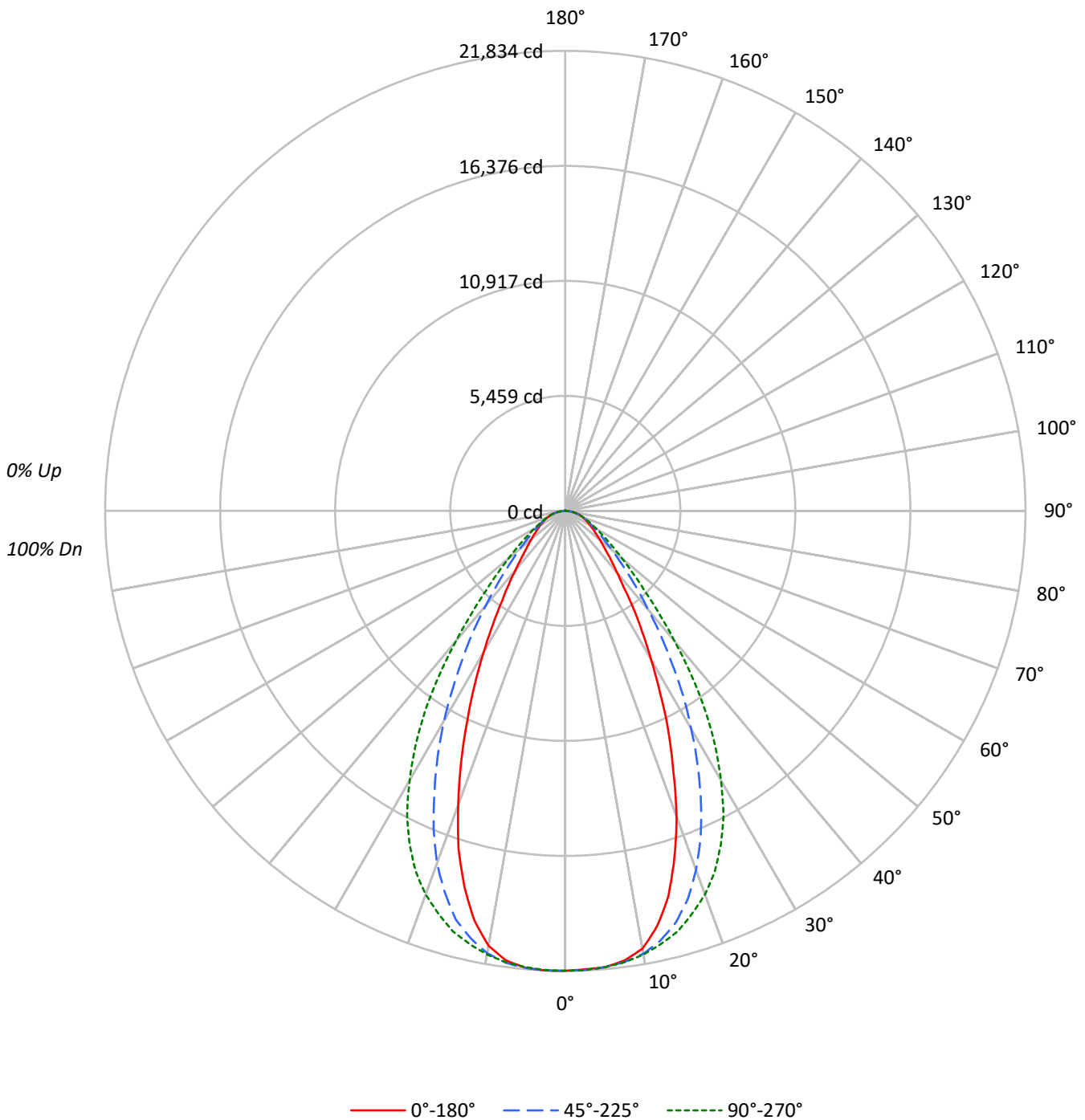
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27112.9 lumens  
Efficiency: N/A  
Efficacy: 169.7 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: P1433185  
CATALOG NUMBER: EHBR1-30-UNV-A1-L930

### Luminous Intensity Polar Plot





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

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°     | 45°    | 90°    | 135°   | 180°   |
|-----|--------|--------|--------|--------|--------|
| 0°  | 102490 | 102490 | 102490 | 102490 | 102490 |
| 5°  | 102476 | 102461 | 102465 | 102646 | 102584 |
| 10° | 100601 | 101774 | 101935 | 101647 | 99942  |
| 15° | 91945  | 98361  | 100385 | 97572  | 89833  |
| 20° | 77157  | 90619  | 96810  | 88912  | 74153  |
| 25° | 60113  | 78935  | 90475  | 76053  | 56998  |
| 30° | 44168  | 64798  | 80112  | 62339  | 41922  |
| 35° | 32117  | 50382  | 66418  | 48212  | 30021  |
| 40° | 23334  | 37578  | 49428  | 35992  | 22614  |
| 45° | 18594  | 27801  | 34911  | 26596  | 17950  |
| 50° | 15632  | 21166  | 25604  | 20468  | 15396  |
| 55° | 13874  | 16983  | 19705  | 16699  | 13686  |
| 60° | 12768  | 14468  | 16022  | 14378  | 12859  |
| 65° | 12266  | 13110  | 13831  | 13150  | 12384  |
| 70° | 12101  | 12390  | 12772  | 12459  | 12220  |
| 75° | 11977  | 11903  | 11977  | 11935  | 12093  |
| 80° | 12040  | 11174  | 10926  | 11348  | 12040  |
| 85° | 10863  | 9208   | 9111   | 9359   | 11180  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 67.5°  
 Vertical Angle: 45°  
 Luminance: 36578 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 2061.0  | 7.6       |
| 10°-20°   | 5539.2  | 20.4      |
| 20°-30°   | 6735.6  | 24.8      |
| 30°-40°   | 5486.7  | 20.2      |
| 40°-50°   | 3294.2  | 12.1      |
| 50°-60°   | 1895.8  | 7.0       |
| 60°-70°   | 1186.5  | 4.4       |
| 70°-80°   | 698.8   | 2.6       |
| 80°-90°   | 204.4   | 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° | 1.4     | 0.0       |
| 140°-150° | 2.5     | 0.0       |
| 150°-160° | 2.8     | 0.0       |
| 160°-170° | 2.5     | 0.0       |
| 170°-180° | 1.1     | 0.0       |
| 0°-30°    | 14335.8 | 52.9      |
| 0°-40°    | 19822.5 | 73.1      |
| 0°-60°    | 25012.5 | 92.3      |
| 0°-90°    | 27102.1 | 100.0     |
| 90°-120°  | 0.3     | 0.0       |
| 90°-150°  | 4.5     | 0.0       |
| 90°-180°  | 11.0    | 0.0       |
| 0°-180°   | 27112.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°    | 45°   | 90°   | 135°  | 180°  | Flux |
|------|-------|-------|-------|-------|-------|------|
| 0°   | 21824 | 21824 | 21824 | 21824 | 21824 |      |
| 5°   | 21739 | 21735 | 21736 | 21775 | 21761 | 2054 |
| 15°  | 18912 | 20232 | 20648 | 20069 | 18478 | 5203 |
| 25°  | 11601 | 15234 | 17461 | 14678 | 11000 | 5286 |
| 35°  | 5602  | 8788  | 11585 | 8410  | 5237  | 3544 |
| 45°  | 2800  | 4186  | 5257  | 4005  | 2703  | 2209 |
| 55°  | 1694  | 2074  | 2407  | 2040  | 1672  | 1532 |
| 65°  | 1104  | 1180  | 1245  | 1183  | 1114  | 1098 |
| 75°  | 660   | 656   | 660   | 658   | 666   | 699  |
| 85°  | 202   | 171   | 169   | 174   | 208   | 215  |
| 90°  | 1     | 0     | 0     | 0     | 0     | 10   |
| 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     | 4     | 3    |
| 155° | 7     | 6     | 4     | 6     | 7     | 3    |
| 165° | 10    | 9     | 8     | 9     | 10    | 3    |
| 175° | 14    | 12    | 10    | 12    | 14    | 1    |
| 180° | 12    | 12    | 12    | 12    | 12    |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°      | 22.5°   | 45°     | 67.5°   | 90°     | 112.5°  | 135°    | 157.5°  | 180°    |
|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°     | 21824.5 | 21824.5 | 21824.5 | 21824.5 | 21824.5 | 21824.5 | 21824.5 | 21824.5 | 21824.5 |
| 2.5°   | 21776.5 | 21796.1 | 21804.3 | 21809.0 | 21813.9 | 21827.7 | 21833.6 | 21824.0 | 21832.2 |
| 5°     | 21738.6 | 21739.9 | 21735.4 | 21755.9 | 21736.2 | 21750.0 | 21774.6 | 21765.0 | 21761.4 |
| 7.5°   | 21517.3 | 21563.0 | 21590.0 | 21596.9 | 21600.5 | 21617.5 | 21634.7 | 21536.5 | 21521.8 |
| 10°    | 21096.8 | 21173.1 | 21342.7 | 21391.1 | 21376.5 | 21403.9 | 21316.2 | 21059.2 | 20958.7 |
| 12.5°  | 20174.8 | 20443.1 | 20883.8 | 21079.8 | 21044.2 | 21068.4 | 20769.4 | 20227.4 | 19915.6 |
| 15°    | 18911.8 | 19305.4 | 20231.5 | 20618.2 | 20647.9 | 20618.2 | 20069.2 | 19012.8 | 18477.5 |
| 17.5°  | 17232.9 | 17959.7 | 19323.2 | 20073.7 | 20030.8 | 20044.9 | 19002.8 | 17441.3 | 16828.8 |
| 20°    | 15439.2 | 16213.9 | 18132.9 | 19384.9 | 19371.7 | 19292.1 | 17791.4 | 15732.2 | 14838.1 |
| 22.5°  | 13410.6 | 14409.8 | 16768.9 | 18537.9 | 18532.9 | 18400.3 | 16316.3 | 13865.8 | 12903.2 |
| 25°    | 11601.3 | 12581.4 | 15233.9 | 17500.3 | 17461.0 | 17310.1 | 14677.6 | 12004.0 | 11000.2 |
| 27.5°  | 9730.9  | 10749.7 | 13595.2 | 16284.3 | 16257.4 | 16092.8 | 13111.2 | 10263.8 | 9308.5  |
| 30°    | 8145.2  | 9076.7  | 11949.7 | 14946.4 | 14773.7 | 14754.9 | 11496.2 | 8652.5  | 7731.0  |
| 32.5°  | 6786.7  | 7585.2  | 10398.3 | 13547.2 | 13241.4 | 13328.7 | 9886.8  | 7305.0  | 6391.7  |
| 35°    | 5602.2  | 6305.8  | 8788.3  | 11929.1 | 11585.4 | 11698.3 | 8409.8  | 5994.0  | 5236.6  |
| 37.5°  | 4546.9  | 5223.3  | 7423.8  | 10355.2 | 9829.6  | 10042.6 | 7110.8  | 5005.8  | 4398.8  |
| 40°    | 3806.3  | 4343.0  | 6129.8  | 8628.3  | 8062.9  | 8409.8  | 5871.1  | 4175.2  | 3688.9  |
| 42.5°  | 3279.8  | 3629.9  | 5059.3  | 6979.5  | 6545.8  | 6791.6  | 4838.9  | 3490.4  | 3126.6  |
| 45°    | 2799.8  | 3079.1  | 4186.1  | 5507.7  | 5256.7  | 5484.8  | 4004.7  | 2976.2  | 2702.8  |
| 47.5°  | 2445.6  | 2660.8  | 3446.1  | 4447.6  | 4291.7  | 4364.0  | 3344.6  | 2597.2  | 2375.2  |
| 50°    | 2139.7  | 2306.1  | 2897.1  | 3589.7  | 3504.6  | 3549.0  | 2801.6  | 2259.9  | 2107.3  |
| 52.5°  | 1902.0  | 2024.0  | 2430.0  | 2950.1  | 2908.1  | 2914.9  | 2387.5  | 1988.0  | 1877.4  |
| 55°    | 1694.5  | 1779.5  | 2074.3  | 2416.7  | 2406.7  | 2408.5  | 2039.6  | 1761.7  | 1671.6  |
| 57.5°  | 1513.0  | 1583.4  | 1782.7  | 2030.0  | 2015.4  | 2018.6  | 1766.2  | 1564.7  | 1506.7  |
| 60°    | 1359.4  | 1406.5  | 1540.4  | 1715.5  | 1705.9  | 1701.8  | 1530.8  | 1389.1  | 1369.1  |
| 62.5°  | 1223.2  | 1253.4  | 1346.2  | 1470.5  | 1452.2  | 1456.3  | 1345.7  | 1254.7  | 1225.1  |
| 65°    | 1103.9  | 1114.5  | 1179.8  | 1256.6  | 1244.7  | 1254.7  | 1183.4  | 1121.3  | 1114.5  |
| 67.5°  | 987.4   | 997.9   | 1036.2  | 1087.9  | 1074.2  | 1082.5  | 1037.2  | 1000.6  | 994.7   |
| 70°    | 881.3   | 880.8   | 902.4   | 930.2   | 930.2   | 931.6   | 907.4   | 885.4   | 890.0   |
| 72.5°  | 771.5   | 768.9   | 775.3   | 794.0   | 788.9   | 806.3   | 780.7   | 773.9   | 774.8   |
| 75°    | 660.1   | 652.3   | 656.0   | 665.5   | 660.1   | 669.2   | 657.8   | 666.5   | 666.5   |
| 77.5°  | 554.9   | 540.3   | 535.8   | 537.1   | 527.0   | 540.7   | 543.5   | 549.5   | 563.1   |
| 80°    | 445.2   | 424.6   | 413.2   | 412.8   | 404.0   | 412.8   | 419.6   | 431.9   | 445.2   |
| 82.5°  | 330.5   | 312.7   | 293.5   | 289.8   | 284.4   | 289.4   | 298.5   | 313.1   | 334.6   |
| 85°    | 201.6   | 182.9   | 170.9   | 164.6   | 169.1   | 169.1   | 173.7   | 194.3   | 207.5   |
| 87.5°  | 72.7    | 63.5    | 52.1    | 52.6    | 53.9    | 55.8    | 58.0    | 73.2    | 80.0    |
| 90°    | 0.9     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.4     |
| 92.5°  | 0.4     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.4     |
| 95°    | 0.9     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.4     |
| 97.5°  | 0.9     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.4     |
| 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     |



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**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° | 1.3  | 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  | 0.4    | 0.9  |
| 122.5° | 1.3  | 0.4   | 0.0  | 0.0   | 0.0  | 0.0    | 0.0  | 0.4    | 1.3  |
| 125°   | 1.3  | 0.4   | 0.0  | 0.0   | 0.0  | 0.0    | 0.4  | 0.4    | 1.3  |
| 127.5° | 1.3  | 0.4   | 0.0  | 0.0   | 0.0  | 0.0    | 0.4  | 0.9    | 1.3  |
| 130°   | 1.3  | 0.9   | 0.4  | 0.0   | 0.4  | 0.4    | 0.9  | 0.9    | 1.3  |
| 132.5° | 1.9  | 1.3   | 1.3  | 0.9   | 0.9  | 1.3    | 1.3  | 1.9    | 1.9  |
| 135°   | 2.3  | 1.9   | 1.9  | 1.3   | 1.9  | 1.9    | 1.9  | 1.9    | 2.3  |
| 137.5° | 2.3  | 2.3   | 2.3  | 2.3   | 2.3  | 2.3    | 2.3  | 2.3    | 2.8  |
| 140°   | 3.2  | 2.8   | 2.8  | 2.8   | 2.8  | 2.8    | 2.8  | 3.2    | 3.2  |
| 142.5° | 3.7  | 3.7   | 3.2  | 3.2   | 3.2  | 3.7    | 3.7  | 3.7    | 4.1  |
| 145°   | 4.1  | 4.1   | 3.7  | 3.7   | 3.7  | 4.1    | 4.1  | 4.5    | 4.5  |
| 147.5° | 5.5  | 5.0   | 4.1  | 4.1   | 4.1  | 4.1    | 4.5  | 5.0    | 5.5  |
| 150°   | 6.0  | 5.5   | 4.5  | 4.5   | 4.5  | 4.5    | 5.0  | 6.0    | 6.4  |
| 152.5° | 6.4  | 6.0   | 5.0  | 4.5   | 4.5  | 4.5    | 5.5  | 6.0    | 6.9  |
| 155°   | 6.9  | 6.4   | 5.5  | 4.5   | 4.5  | 5.0    | 6.0  | 6.9    | 7.3  |
| 157.5° | 8.2  | 7.3   | 6.4  | 5.5   | 5.5  | 6.0    | 6.9  | 7.8    | 8.2  |
| 160°   | 9.2  | 8.2   | 7.3  | 6.4   | 6.4  | 6.9    | 7.8  | 8.6    | 9.2  |
| 162.5° | 10.1 | 9.2   | 7.8  | 7.3   | 6.9  | 7.3    | 8.2  | 9.6    | 10.1 |
| 165°   | 10.5 | 9.6   | 8.6  | 7.8   | 7.8  | 7.8    | 9.2  | 10.1   | 10.5 |
| 167.5° | 11.0 | 10.5  | 9.2  | 8.2   | 8.2  | 8.2    | 9.6  | 10.5   | 11.0 |
| 170°   | 11.4 | 11.0  | 9.6  | 8.6   | 8.2  | 8.6    | 10.1 | 11.0   | 11.4 |
| 172.5° | 12.3 | 11.9  | 10.5 | 9.6   | 9.2  | 9.6    | 11.0 | 11.9   | 12.3 |
| 175°   | 13.7 | 12.8  | 11.9 | 10.5  | 10.1 | 10.5   | 11.9 | 12.8   | 13.7 |
| 177.5° | 14.2 | 13.3  | 12.3 | 11.0  | 10.5 | 11.0   | 12.3 | 13.3   | 14.2 |
| 180°   | 12.3 | 12.3  | 12.3 | 12.3  | 12.3 | 12.3   | 12.3 | 12.3   | 12.3 |



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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 | 18.47            | 19.74 | 18.84 | 20.05 | 20.37 | 19.45          | 20.72 | 19.82 | 21.03 | 21.35 |
|                 | 3H   | 20.04            | 21.16 | 20.42 | 21.49 | 21.86 | 20.79          | 21.92 | 21.18 | 22.25 | 22.62 |
|                 | 4H   | 20.71            | 21.76 | 21.11 | 22.11 | 22.49 | 21.35          | 22.40 | 21.76 | 22.75 | 23.14 |
|                 | 6H   | 21.26            | 22.23 | 21.68 | 22.60 | 22.99 | 21.78          | 22.75 | 22.20 | 23.12 | 23.52 |
|                 | 8H   | 21.46            | 22.37 | 21.89 | 22.77 | 23.17 | 21.92          | 22.84 | 22.35 | 23.23 | 23.63 |
|                 | 12H  | 21.59            | 22.46 | 22.02 | 22.85 | 23.28 | 22.00          | 22.87 | 22.43 | 23.26 | 23.69 |
| 4H              | 2H   | 19.04            | 20.09 | 19.45 | 20.44 | 20.83 | 19.81          | 20.86 | 20.22 | 21.21 | 21.60 |
|                 | 3H   | 20.83            | 21.70 | 21.25 | 22.10 | 22.51 | 21.40          | 22.27 | 21.82 | 22.67 | 23.08 |
|                 | 4H   | 21.63            | 22.40 | 22.06 | 22.82 | 23.27 | 22.10          | 22.87 | 22.54 | 23.29 | 23.74 |
|                 | 6H   | 22.31            | 22.98 | 22.78 | 23.43 | 23.90 | 22.67          | 23.34 | 23.13 | 23.79 | 24.25 |
|                 | 8H   | 22.56            | 23.18 | 23.03 | 23.63 | 24.11 | 22.85          | 23.48 | 23.33 | 23.93 | 24.40 |
|                 | 12H  | 22.73            | 23.28 | 23.22 | 23.77 | 24.24 | 22.97          | 23.52 | 23.46 | 24.01 | 24.48 |
| 8H              | 4H   | 21.91            | 22.53 | 22.38 | 22.98 | 23.45 | 22.33          | 22.96 | 22.80 | 23.40 | 23.88 |
|                 | 6H   | 22.73            | 23.24 | 23.23 | 23.73 | 24.22 | 23.03          | 23.54 | 23.54 | 24.04 | 24.52 |
|                 | 8H   | 23.06            | 23.51 | 23.58 | 24.03 | 24.52 | 23.29          | 23.75 | 23.82 | 24.27 | 24.76 |
|                 | 12H  | 23.31            | 23.71 | 23.82 | 24.20 | 24.78 | 23.49          | 23.89 | 24.00 | 24.38 | 24.96 |
| 12H             | 4H   | 21.93            | 22.48 | 22.41 | 22.96 | 23.44 | 22.35          | 22.89 | 22.83 | 23.38 | 23.85 |
|                 | 6H   | 22.77            | 23.23 | 23.30 | 23.75 | 24.24 | 23.08          | 23.53 | 23.60 | 24.05 | 24.54 |
|                 | 8H   | 23.16            | 23.56 | 23.68 | 24.06 | 24.63 | 23.39          | 23.79 | 23.91 | 24.29 | 24.86 |

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



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           |

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CIE 1931 Chromaticity Diagram



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



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

Point lies inside the ANSI 3000K 7-step quadrangle

REPORT NUMBER: SP1-2506-472-5

**Photopic Flux vs. Wavelength**

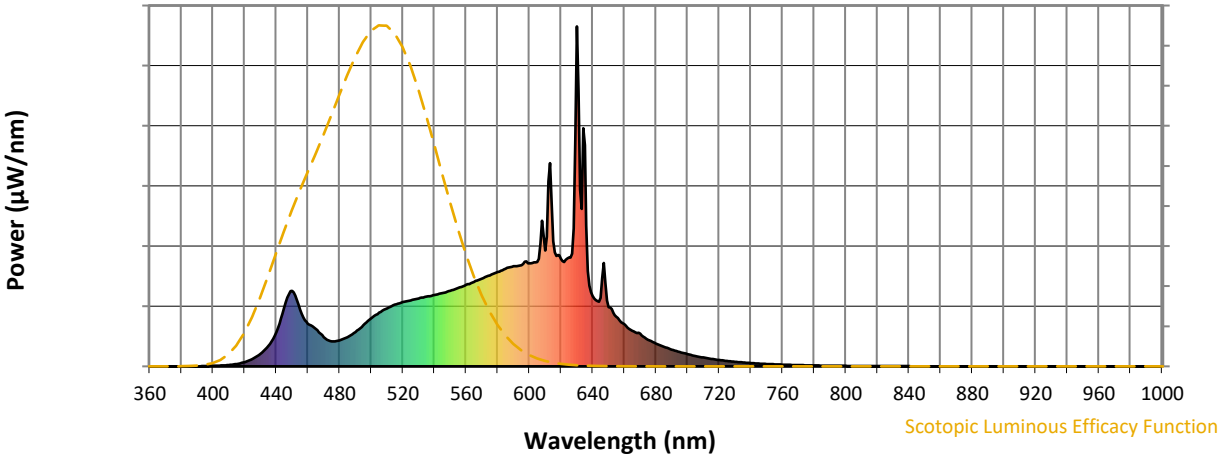


**Photopic Lumens: NR**

| $\lambda$<br>(nm) | Power<br>W <sup>^</sup> /nm | Lumens<br>( $\phi$ /nm) | $\lambda$<br>(nm) | Power<br>W <sup>^</sup> /nm | Lumens<br>( $\phi$ /nm) | $\lambda$<br>(nm) | Power<br>W <sup>^</sup> /nm | Lumens<br>( $\phi$ /nm) | $\lambda$<br>(nm) | Power<br>W <sup>^</sup> /nm | Lumens<br>( $\phi$ /nm) | $\lambda$<br>(nm) | Power<br>W <sup>^</sup> /nm | Lumens<br>( $\phi$ /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 <sup>^</sup> /nm | Lumens (φ/nm) | λ (nm) | Power W <sup>^</sup> /nm | Lumens (φ/nm) | λ (nm) | Power W <sup>^</sup> /nm | Lumens (φ/nm) | λ (nm) | Power W <sup>^</sup> /nm | Lumens (φ/nm) | λ (nm) | Power W <sup>^</sup> /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 <sup>^</sup> /nm | Lumens (φ/nm) | λ (nm) | Power W <sup>^</sup> /nm | Lumens (φ/nm) | λ (nm) | Power W <sup>^</sup> /nm | Lumens (φ/nm) | λ (nm) | Power W <sup>^</sup> /nm | Lumens (φ/nm) | λ (nm) | Power W <sup>^</sup> /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)