

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P438641

Luminaire Tested: **IST-SA1E-722-U-SLL-HSS**

Issue Date: 12/10/2020

Test Information

Test Method: LM-79-08
Report Number: P438641
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-074-21)
Test Lab: INNOVATION CENTER
Issue Date: 12/10/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: IST-SA1E-722-U-SLL-HSS
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 2200K, 1050mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3933 lumens
Efficiency: N/A
Efficacy: 67.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

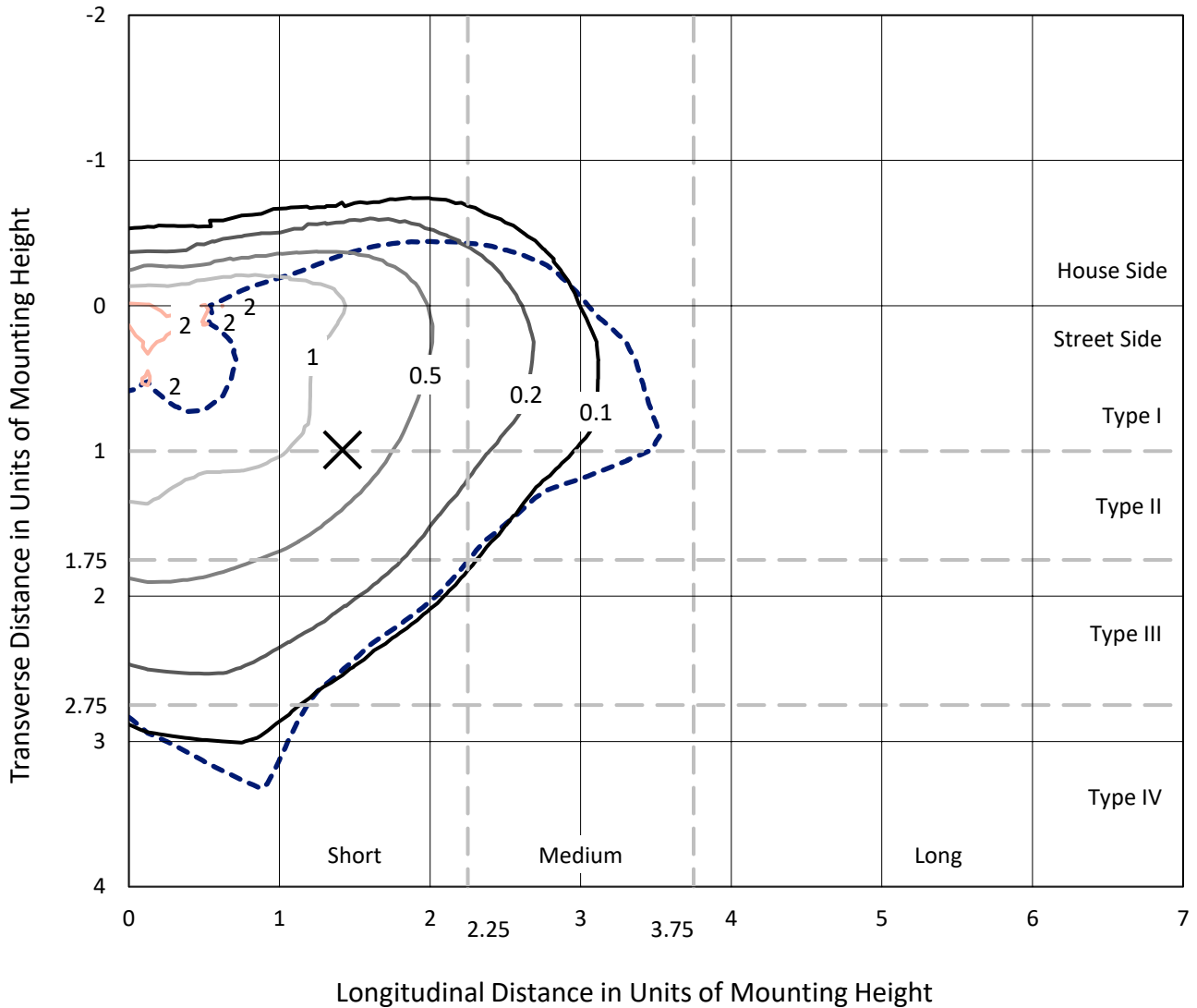
Input Watts (W): 58.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

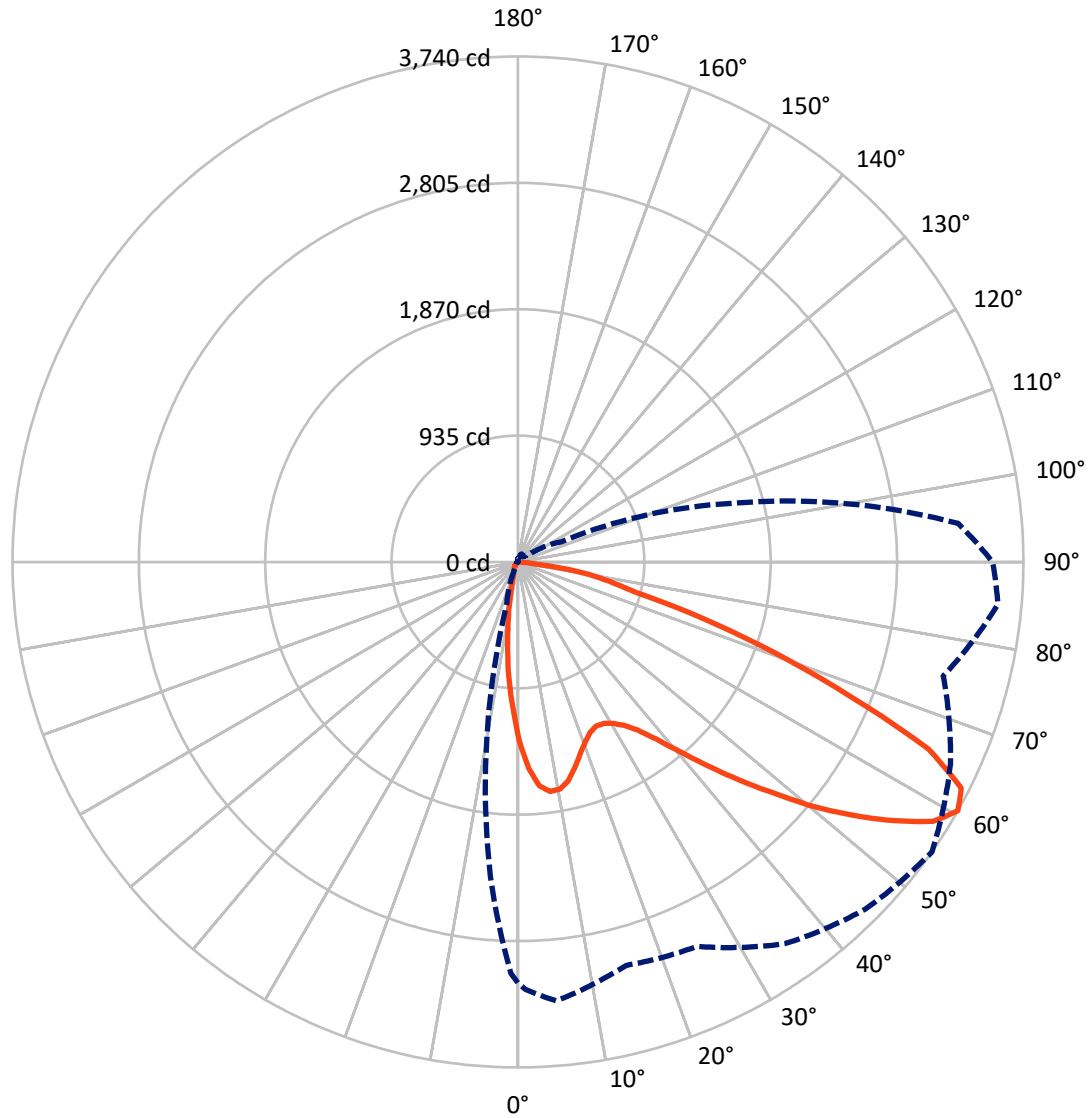
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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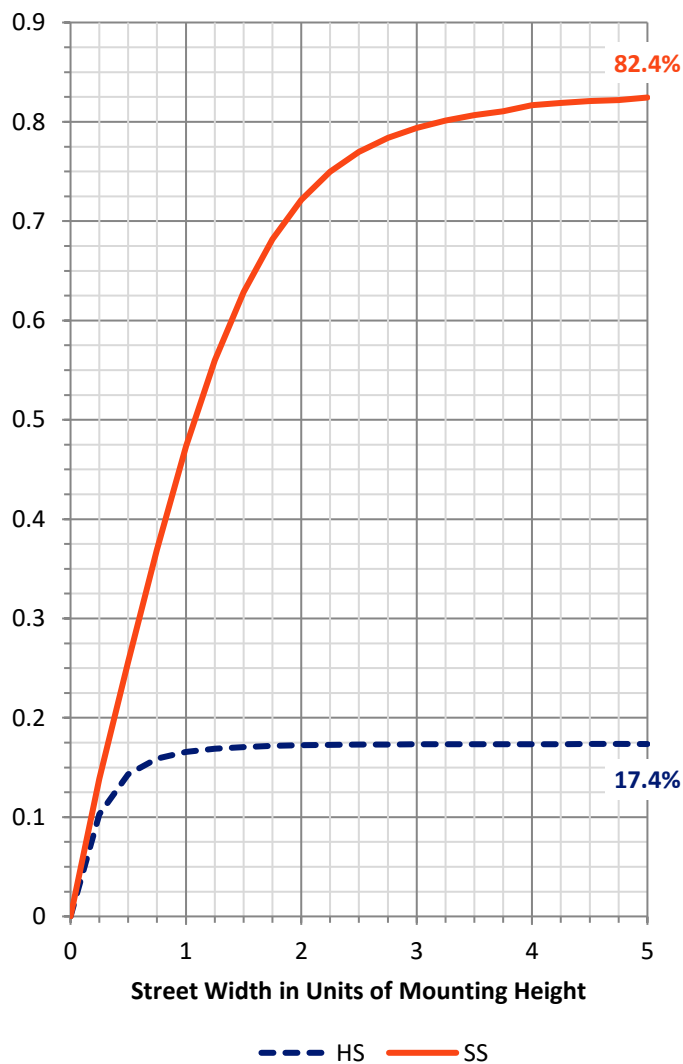
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 689.0 | 0.0 | 689.0 |
| | % Fixture | 17.5 | 0.0 | 17.5 |
| Street Side | Lumens | 3244.1 | 0.0 | 3244.1 |
| | % Fixture | 82.5 | 0.0 | 82.5 |
| Total | Lumens | 3933.0 | 0.0 | 3933.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 98.9 | 2.5 |
| 10°-20° | 193.7 | 4.9 |
| 20°-30° | 284.8 | 7.2 |
| 30°-40° | 425.8 | 10.8 |
| 40°-50° | 630.0 | 16.0 |
| 50°-60° | 905.5 | 23.0 |
| 60°-70° | 970.6 | 24.7 |
| 70°-80° | 392.1 | 10.0 |
| 80°-90° | 31.8 | 0.8 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-90° | 3933.0 | 100.0 |
| 0°-180° | 3933.0 | 100.0 |

Coefficient of Utilization

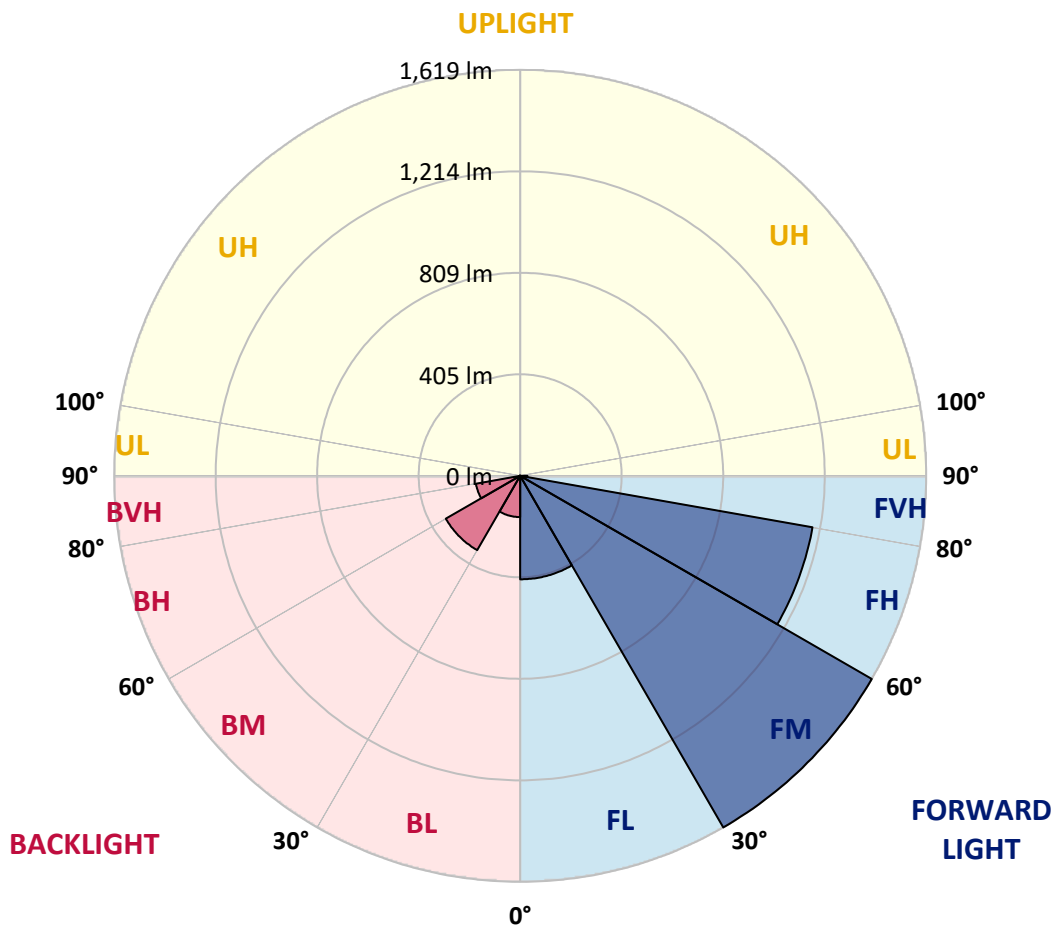


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 412.8 | 10.5 | | | |
| FM (30°-60°) | 1618.9 | 41.2 | | | |
| FH (60°-80°) | 1183.5 | 30.1 | | | G1/1800 |
| FVH (80°-90°) | 28.9 | 0.7 | | | G1/100 |
| BL (0°-30°) | 164.6 | 4.2 | B1/500 | | |
| BM (30°-60°) | 342.3 | 8.7 | B1/1000 | | |
| BH (60°-80°) | 179.2 | 4.6 | B1/500 | | G1/500 |
| BVH (80°-90°) | 2.9 | 0.1 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G1
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1327.0 | 1327.0 | 1327.0 | 1327.0 | 1327.0 | 1327.0 | 1327.0 | 1327.0 | 1327.0 | 1327.0 | 1327.0 |
| 2.5° | 1425.8 | 1425.8 | 1437.2 | 1471.3 | 1509.3 | 1528.3 | 1549.2 | 1528.3 | 1524.5 | 1494.1 | 1471.3 |
| 5° | 1382.1 | 1391.6 | 1427.7 | 1518.8 | 1615.6 | 1665.0 | 1691.6 | 1663.1 | 1611.8 | 1545.4 | 1461.8 |
| 7.5° | 1283.4 | 1294.8 | 1336.5 | 1484.6 | 1617.5 | 1716.2 | 1763.7 | 1714.3 | 1627.0 | 1505.5 | 1384.0 |
| 10° | 1177.1 | 1197.9 | 1253.0 | 1422.0 | 1575.7 | 1693.4 | 1759.9 | 1708.6 | 1600.4 | 1444.7 | 1294.8 |
| 12.5° | 1106.8 | 1122.0 | 1196.0 | 1365.0 | 1530.2 | 1634.6 | 1670.7 | 1659.3 | 1560.6 | 1416.3 | 1258.7 |
| 15° | 1095.4 | 1114.4 | 1192.2 | 1361.2 | 1486.5 | 1549.2 | 1562.5 | 1577.6 | 1543.5 | 1420.1 | 1270.1 |
| 17.5° | 1144.8 | 1165.7 | 1253.0 | 1389.7 | 1446.6 | 1446.6 | 1459.9 | 1490.3 | 1522.6 | 1458.0 | 1338.4 |
| 20° | 1245.4 | 1273.9 | 1370.7 | 1463.7 | 1425.8 | 1380.2 | 1382.1 | 1422.0 | 1509.3 | 1543.5 | 1459.9 |
| 22.5° | 1380.2 | 1418.2 | 1535.9 | 1579.5 | 1448.5 | 1344.1 | 1334.6 | 1368.8 | 1511.2 | 1630.8 | 1627.0 |
| 25° | 1558.7 | 1604.2 | 1718.1 | 1716.2 | 1503.6 | 1328.9 | 1319.4 | 1344.1 | 1528.3 | 1725.7 | 1773.2 |
| 27.5° | 1720.0 | 1758.0 | 1871.9 | 1824.4 | 1558.7 | 1347.9 | 1327.0 | 1353.6 | 1541.6 | 1796.0 | 1904.2 |
| 30° | 1856.7 | 1889.0 | 1989.6 | 1902.3 | 1606.1 | 1380.2 | 1344.1 | 1385.9 | 1570.0 | 1833.9 | 2021.9 |
| 32.5° | 1961.1 | 2008.6 | 2101.6 | 1963.0 | 1663.1 | 1422.0 | 1384.0 | 1441.0 | 1617.5 | 1883.3 | 2124.4 |
| 35° | 2101.6 | 2126.3 | 2236.4 | 2023.8 | 1739.0 | 1511.2 | 1450.4 | 1526.4 | 1695.3 | 1947.8 | 2238.3 |
| 37.5° | 2223.1 | 2287.7 | 2359.8 | 2086.4 | 1832.0 | 1621.3 | 1554.9 | 1663.1 | 1801.7 | 2021.9 | 2371.2 |
| 40° | 2367.4 | 2441.5 | 2519.3 | 2175.7 | 1917.5 | 1765.6 | 1737.1 | 1843.4 | 1961.1 | 2130.1 | 2502.2 |
| 42.5° | 2500.3 | 2568.7 | 2621.8 | 2280.1 | 2021.9 | 1928.9 | 1949.7 | 2061.8 | 2124.4 | 2242.1 | 2614.2 |
| 45° | 2606.6 | 2667.4 | 2747.1 | 2352.2 | 2137.7 | 2111.1 | 2217.4 | 2304.8 | 2285.8 | 2338.9 | 2714.8 |
| 47.5° | 2716.7 | 2790.8 | 2823.0 | 2428.2 | 2287.7 | 2350.3 | 2540.2 | 2559.2 | 2454.7 | 2428.2 | 2802.2 |
| 50° | 2792.7 | 2847.7 | 2868.6 | 2521.2 | 2471.8 | 2665.5 | 2817.4 | 2849.6 | 2638.9 | 2498.4 | 2916.1 |
| 52.5° | 2885.7 | 2938.9 | 2963.5 | 2631.3 | 2669.3 | 2948.3 | 3124.9 | 3117.3 | 2817.4 | 2614.2 | 3028.1 |
| 55° | 3050.9 | 3100.2 | 3124.9 | 2766.1 | 2809.8 | 3191.4 | 3386.9 | 3379.3 | 3030.0 | 2781.3 | 3195.2 |
| 57.5° | 3168.6 | 3210.3 | 3250.2 | 2918.0 | 2984.4 | 3347.0 | 3565.4 | 3622.3 | 3286.3 | 2992.0 | 3377.4 |
| 60° | 3115.4 | 3162.9 | 3259.7 | 3090.7 | 3138.2 | 3447.6 | 3633.7 | 3740.0 | 3531.2 | 3257.8 | 3565.4 |
| 62.5° | 2965.4 | 3035.7 | 3136.3 | 3227.4 | 3257.8 | 3464.7 | 3538.8 | 3681.2 | 3662.2 | 3525.5 | 3650.8 |
| 65° | 2775.6 | 2847.7 | 2944.6 | 3246.4 | 3231.2 | 3210.3 | 3254.0 | 3339.4 | 3472.3 | 3654.6 | 3609.0 |
| 67.5° | 2433.9 | 2538.3 | 2659.8 | 3024.3 | 2809.8 | 2690.2 | 2701.5 | 2654.1 | 2921.8 | 3468.5 | 3396.4 |
| 70° | 1982.0 | 2088.3 | 2219.3 | 2564.9 | 2166.2 | 2008.6 | 2048.5 | 2018.1 | 2228.8 | 2976.8 | 2910.4 |
| 72.5° | 1395.4 | 1509.3 | 1670.7 | 2137.7 | 1509.3 | 1254.9 | 1349.8 | 1429.6 | 1680.2 | 2388.3 | 2137.7 |
| 75° | 924.6 | 1006.2 | 1122.0 | 1609.9 | 1076.4 | 842.9 | 863.8 | 896.1 | 1123.9 | 1805.5 | 1349.8 |
| 77.5° | 478.4 | 560.1 | 611.3 | 861.9 | 666.4 | 664.5 | 649.3 | 691.0 | 702.4 | 1084.0 | 704.3 |
| 80° | 267.7 | 294.3 | 320.8 | 419.6 | 334.1 | 394.9 | 408.2 | 499.3 | 463.2 | 543.0 | 294.3 |
| 82.5° | 131.0 | 165.2 | 180.4 | 258.2 | 214.5 | 157.6 | 77.8 | 163.3 | 275.3 | 294.3 | 136.7 |
| 85° | 1.9 | 3.8 | 9.5 | 20.9 | 5.7 | 5.7 | 0.0 | 5.7 | 28.5 | 36.1 | 47.5 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1327.0 | 1327.0 | 1327.0 | 1327.0 | 1327.0 | 1327.0 | 1327.0 | 1327.0 | 1327.0 | 1327.0 | 1327.0 |
| 2.5° | 1446.6 | 1431.5 | 1387.8 | 1349.8 | 1291.0 | 1266.3 | 1226.4 | 1216.9 | 1184.7 | 1152.4 | 1133.4 |
| 5° | 1420.1 | 1376.4 | 1287.2 | 1199.8 | 1120.1 | 1046.1 | 991.0 | 945.4 | 894.2 | 873.3 | 886.6 |
| 7.5° | 1313.8 | 1253.0 | 1123.9 | 1021.4 | 907.5 | 822.0 | 744.2 | 704.3 | 656.9 | 637.9 | 624.6 |
| 10° | 1226.4 | 1152.4 | 1004.3 | 869.5 | 761.3 | 694.8 | 647.4 | 590.4 | 535.4 | 491.7 | 486.0 |
| 12.5° | 1171.4 | 1091.6 | 926.5 | 784.1 | 704.3 | 639.8 | 584.7 | 510.7 | 448.0 | 406.3 | 387.3 |
| 15° | 1169.5 | 1070.7 | 901.8 | 751.8 | 658.8 | 577.1 | 506.9 | 423.4 | 358.8 | 305.7 | 286.7 |
| 17.5° | 1237.8 | 1118.2 | 913.2 | 717.6 | 594.2 | 487.9 | 396.8 | 309.5 | 246.8 | 210.7 | 191.7 |
| 20° | 1357.4 | 1226.4 | 934.1 | 683.5 | 531.6 | 396.8 | 279.1 | 210.7 | 169.0 | 151.9 | 144.3 |
| 22.5° | 1501.7 | 1346.0 | 972.0 | 656.9 | 467.0 | 300.0 | 197.4 | 151.9 | 132.9 | 121.5 | 119.6 |
| 25° | 1676.4 | 1497.9 | 1025.2 | 637.9 | 408.2 | 231.6 | 153.8 | 125.3 | 113.9 | 106.3 | 102.5 |
| 27.5° | 1830.1 | 1644.1 | 1104.9 | 622.7 | 351.2 | 189.8 | 131.0 | 110.1 | 98.7 | 93.0 | 91.1 |
| 30° | 1944.0 | 1763.7 | 1196.0 | 588.5 | 305.7 | 165.2 | 123.4 | 104.4 | 91.1 | 83.5 | 81.6 |
| 32.5° | 2075.0 | 1854.8 | 1239.7 | 554.4 | 279.1 | 146.2 | 108.2 | 93.0 | 83.5 | 75.9 | 74.0 |
| 35° | 2219.3 | 1982.0 | 1283.4 | 527.8 | 262.0 | 131.0 | 98.7 | 81.6 | 70.2 | 62.7 | 60.8 |
| 37.5° | 2386.4 | 2122.5 | 1323.2 | 505.0 | 252.5 | 121.5 | 93.0 | 75.9 | 64.5 | 57.0 | 53.2 |
| 40° | 2572.4 | 2232.6 | 1349.8 | 489.8 | 239.2 | 115.8 | 89.2 | 72.1 | 60.8 | 51.3 | 49.4 |
| 42.5° | 2720.5 | 2359.8 | 1357.4 | 484.1 | 225.9 | 113.9 | 85.4 | 70.2 | 57.0 | 49.4 | 45.6 |
| 45° | 2826.8 | 2471.8 | 1384.0 | 478.4 | 216.4 | 106.3 | 83.5 | 68.3 | 53.2 | 45.6 | 41.8 |
| 47.5° | 2904.7 | 2591.4 | 1408.7 | 472.7 | 206.9 | 96.8 | 89.2 | 68.3 | 51.3 | 41.8 | 38.0 |
| 50° | 3049.0 | 2731.9 | 1456.1 | 457.5 | 193.6 | 87.3 | 89.2 | 66.4 | 49.4 | 39.9 | 36.1 |
| 52.5° | 3204.6 | 2914.2 | 1562.5 | 440.4 | 176.6 | 77.8 | 81.6 | 66.4 | 47.5 | 38.0 | 34.2 |
| 55° | 3352.7 | 3136.3 | 1661.2 | 417.7 | 148.1 | 70.2 | 75.9 | 66.4 | 43.7 | 36.1 | 32.3 |
| 57.5° | 3460.9 | 3284.4 | 1714.3 | 389.2 | 117.7 | 62.7 | 62.7 | 62.7 | 38.0 | 30.4 | 28.5 |
| 60° | 3512.2 | 3269.2 | 1689.7 | 353.1 | 94.9 | 55.1 | 51.3 | 64.5 | 34.2 | 26.6 | 24.7 |
| 62.5° | 3472.3 | 3111.6 | 1581.4 | 315.1 | 83.5 | 47.5 | 41.8 | 57.0 | 30.4 | 22.8 | 20.9 |
| 65° | 3348.9 | 2845.8 | 1401.1 | 284.8 | 81.6 | 39.9 | 34.2 | 34.2 | 24.7 | 19.0 | 17.1 |
| 67.5° | 3043.3 | 2496.5 | 1186.6 | 256.3 | 83.5 | 34.2 | 28.5 | 26.6 | 20.9 | 15.2 | 13.3 |
| 70° | 2530.7 | 2006.7 | 898.0 | 243.0 | 83.5 | 28.5 | 24.7 | 20.9 | 15.2 | 13.3 | 11.4 |
| 72.5° | 1608.0 | 1245.4 | 622.7 | 214.5 | 83.5 | 22.8 | 20.9 | 19.0 | 11.4 | 9.5 | 5.7 |
| 75° | 953.0 | 757.5 | 292.4 | 165.2 | 70.2 | 19.0 | 15.2 | 11.4 | 5.7 | 3.8 | 3.8 |
| 77.5° | 560.1 | 486.0 | 127.2 | 91.1 | 30.4 | 11.4 | 7.6 | 3.8 | 1.9 | 0.0 | 0.0 |
| 80° | 229.7 | 199.3 | 47.5 | 26.6 | 13.3 | 5.7 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 134.8 | 140.5 | 17.1 | 11.4 | 3.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 41.8 | 64.5 | 0.0 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1327.0 | 1327.0 | 1327.0 | 1327.0 | 1327.0 | 1327.0 | 1327.0 | 1327.0 | 1327.0 | 1327.0 | 1327.0 |
| 2.5° | 1131.5 | 1112.5 | 1104.9 | 1093.5 | 1084.0 | 1072.6 | 1087.8 | 1101.1 | 1085.9 | 1103.0 | 1129.6 |
| 5° | 873.3 | 844.8 | 882.8 | 858.1 | 871.4 | 856.2 | 835.3 | 839.1 | 842.9 | 835.3 | 856.2 |
| 7.5° | 605.6 | 618.9 | 628.4 | 626.5 | 637.9 | 617.0 | 617.0 | 603.7 | 584.7 | 592.3 | 588.5 |
| 10° | 459.4 | 432.9 | 442.3 | 440.4 | 461.3 | 432.9 | 413.9 | 393.0 | 391.1 | 394.9 | 391.1 |
| 12.5° | 366.4 | 334.1 | 313.3 | 301.9 | 300.0 | 286.7 | 269.6 | 248.7 | 235.4 | 233.5 | 244.9 |
| 15° | 275.3 | 250.6 | 231.6 | 214.5 | 212.6 | 186.1 | 163.3 | 148.1 | 134.8 | 136.7 | 144.3 |
| 17.5° | 189.8 | 182.3 | 176.6 | 161.4 | 151.9 | 129.1 | 110.1 | 100.6 | 96.8 | 96.8 | 98.7 |
| 20° | 138.6 | 134.8 | 131.0 | 125.3 | 115.8 | 98.7 | 87.3 | 83.5 | 81.6 | 81.6 | 83.5 |
| 22.5° | 115.8 | 110.1 | 106.3 | 104.4 | 96.8 | 83.5 | 75.9 | 72.1 | 72.1 | 72.1 | 72.1 |
| 25° | 98.7 | 94.9 | 93.0 | 89.2 | 83.5 | 72.1 | 66.4 | 64.5 | 62.7 | 62.7 | 64.5 |
| 27.5° | 89.2 | 81.6 | 77.8 | 77.8 | 72.1 | 64.5 | 58.9 | 57.0 | 55.1 | 55.1 | 57.0 |
| 30° | 79.7 | 74.0 | 70.2 | 66.4 | 62.7 | 55.1 | 51.3 | 49.4 | 49.4 | 49.4 | 49.4 |
| 32.5° | 70.2 | 66.4 | 62.7 | 58.9 | 53.2 | 49.4 | 45.6 | 43.7 | 41.8 | 41.8 | 41.8 |
| 35° | 57.0 | 53.2 | 53.2 | 51.3 | 45.6 | 41.8 | 38.0 | 36.1 | 34.2 | 36.1 | 36.1 |
| 37.5° | 49.4 | 43.7 | 43.7 | 43.7 | 39.9 | 36.1 | 32.3 | 30.4 | 28.5 | 28.5 | 30.4 |
| 40° | 45.6 | 38.0 | 36.1 | 36.1 | 36.1 | 30.4 | 26.6 | 24.7 | 22.8 | 22.8 | 24.7 |
| 42.5° | 39.9 | 34.2 | 30.4 | 28.5 | 30.4 | 26.6 | 20.9 | 19.0 | 19.0 | 19.0 | 19.0 |
| 45° | 38.0 | 30.4 | 26.6 | 22.8 | 24.7 | 22.8 | 17.1 | 15.2 | 15.2 | 15.2 | 15.2 |
| 47.5° | 34.2 | 26.6 | 22.8 | 17.1 | 17.1 | 17.1 | 13.3 | 11.4 | 11.4 | 11.4 | 11.4 |
| 50° | 32.3 | 24.7 | 17.1 | 15.2 | 13.3 | 13.3 | 11.4 | 9.5 | 7.6 | 7.6 | 9.5 |
| 52.5° | 30.4 | 22.8 | 15.2 | 11.4 | 9.5 | 9.5 | 7.6 | 7.6 | 5.7 | 5.7 | 5.7 |
| 55° | 28.5 | 19.0 | 13.3 | 9.5 | 7.6 | 5.7 | 5.7 | 5.7 | 5.7 | 3.8 | 5.7 |
| 57.5° | 24.7 | 17.1 | 9.5 | 7.6 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 |
| 60° | 22.8 | 13.3 | 7.6 | 3.8 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 |
| 62.5° | 19.0 | 11.4 | 5.7 | 3.8 | 1.9 | 0.0 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 |
| 65° | 15.2 | 9.5 | 3.8 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 11.4 | 7.6 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 9.5 | 3.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 5.7 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P438641
 CATALOG NUMBER: IST-SA1E-722-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

| | 285° | 295° | 305° | 315° | 325° | 335° | 345° | 355° | 359° | 360° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1327.0 | 1327.0 | 1327.0 | 1327.0 | 1327.0 | 1327.0 | 1327.0 | 1327.0 | 1327.0 | 1327.0 |
| 2.5° | 1127.7 | 1139.1 | 1180.9 | 1218.8 | 1260.6 | 1306.2 | 1344.1 | 1399.2 | 1416.3 | 1425.8 |
| 5° | 852.4 | 894.2 | 945.4 | 991.0 | 1072.6 | 1148.6 | 1237.8 | 1334.6 | 1374.5 | 1382.1 |
| 7.5° | 615.1 | 643.6 | 698.6 | 789.8 | 863.8 | 977.7 | 1093.5 | 1222.6 | 1283.4 | 1283.4 |
| 10° | 423.4 | 470.8 | 541.1 | 626.5 | 725.2 | 825.8 | 960.6 | 1106.8 | 1163.8 | 1177.1 |
| 12.5° | 269.6 | 322.7 | 417.7 | 510.7 | 624.6 | 723.3 | 858.1 | 1023.3 | 1087.8 | 1106.8 |
| 15° | 155.7 | 191.7 | 279.1 | 381.6 | 518.3 | 643.6 | 795.5 | 996.7 | 1076.4 | 1095.4 |
| 17.5° | 104.4 | 117.7 | 165.2 | 254.4 | 406.3 | 573.3 | 776.5 | 1025.2 | 1122.0 | 1144.8 |
| 20° | 87.3 | 93.0 | 110.1 | 157.6 | 286.7 | 499.3 | 768.9 | 1087.8 | 1205.5 | 1245.4 |
| 22.5° | 75.9 | 81.6 | 93.0 | 115.8 | 205.0 | 421.5 | 763.2 | 1179.0 | 1338.4 | 1380.2 |
| 25° | 66.4 | 72.1 | 81.6 | 98.7 | 144.3 | 343.6 | 772.7 | 1308.1 | 1509.3 | 1558.7 |
| 27.5° | 58.9 | 64.5 | 74.0 | 85.4 | 115.8 | 265.8 | 774.6 | 1429.6 | 1668.8 | 1720.0 |
| 30° | 51.3 | 57.0 | 64.5 | 74.0 | 93.0 | 205.0 | 740.4 | 1553.0 | 1797.9 | 1856.7 |
| 32.5° | 45.6 | 49.4 | 57.0 | 64.5 | 77.8 | 159.5 | 670.2 | 1647.9 | 1904.2 | 1961.1 |
| 35° | 38.0 | 41.8 | 49.4 | 55.1 | 68.3 | 129.1 | 592.3 | 1735.2 | 2031.4 | 2101.6 |
| 37.5° | 32.3 | 36.1 | 41.8 | 49.4 | 60.8 | 100.6 | 514.5 | 1811.2 | 2154.8 | 2223.1 |
| 40° | 26.6 | 32.3 | 38.0 | 43.7 | 55.1 | 77.8 | 429.1 | 1892.8 | 2295.3 | 2367.4 |
| 42.5° | 22.8 | 26.6 | 32.3 | 39.9 | 47.5 | 62.7 | 353.1 | 1944.0 | 2414.9 | 2500.3 |
| 45° | 17.1 | 22.8 | 30.4 | 39.9 | 39.9 | 49.4 | 303.8 | 1982.0 | 2500.3 | 2606.6 |
| 47.5° | 13.3 | 19.0 | 26.6 | 38.0 | 36.1 | 41.8 | 279.1 | 2048.5 | 2618.0 | 2716.7 |
| 50° | 11.4 | 15.2 | 26.6 | 32.3 | 30.4 | 36.1 | 286.7 | 2107.3 | 2707.2 | 2792.7 |
| 52.5° | 9.5 | 13.3 | 22.8 | 24.7 | 26.6 | 32.3 | 301.9 | 2215.5 | 2819.3 | 2885.7 |
| 55° | 7.6 | 11.4 | 17.1 | 20.9 | 22.8 | 30.4 | 326.5 | 2350.3 | 2965.4 | 3050.9 |
| 57.5° | 5.7 | 9.5 | 13.3 | 17.1 | 20.9 | 28.5 | 343.6 | 2435.8 | 3102.1 | 3168.6 |
| 60° | 5.7 | 7.6 | 11.4 | 15.2 | 19.0 | 26.6 | 318.9 | 2335.1 | 3043.3 | 3115.4 |
| 62.5° | 3.8 | 7.6 | 9.5 | 13.3 | 15.2 | 20.9 | 235.4 | 2114.9 | 2866.7 | 2965.4 |
| 65° | 1.9 | 5.7 | 7.6 | 9.5 | 11.4 | 15.2 | 134.8 | 1849.1 | 2657.9 | 2775.6 |
| 67.5° | 0.0 | 3.8 | 5.7 | 7.6 | 7.6 | 11.4 | 62.7 | 1492.2 | 2314.3 | 2433.9 |
| 70° | 0.0 | 1.9 | 3.8 | 3.8 | 5.7 | 9.5 | 32.3 | 1053.7 | 1820.6 | 1982.0 |
| 72.5° | 1.9 | 1.9 | 3.8 | 3.8 | 3.8 | 7.6 | 20.9 | 637.9 | 1224.5 | 1395.4 |
| 75° | 1.9 | 1.9 | 1.9 | 1.9 | 3.8 | 5.7 | 13.3 | 410.1 | 770.8 | 924.6 |
| 77.5° | 1.9 | 3.8 | 1.9 | 1.9 | 1.9 | 3.8 | 7.6 | 227.8 | 421.5 | 478.4 |
| 80° | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 3.8 | 3.8 | 20.9 | 199.3 | 267.7 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 1.9 | 1.9 | 1.9 | 1.9 | 102.5 | 131.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.9 | 0.0 | 0.0 | 1.9 | 1.9 |
| 87.5° | 0.0 | 0.0 | 0.0 | 1.9 | 1.9 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Test Information

Test Method: LM-79-2008 Report
 Number: SP1-1908-441-10-R4
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 10/28/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: McGRAW-EDISON
 Catalog Number: **SA1C-722-U-5WQ**
 Description: McGRAW EDISON ROADWAY AND AREA LUMINAIRE

THIS IS A REVISION OF SP1-1908-441-4-R3. TO UPDATE THE CATALOG INFORMATION.TESTED IN SITU. ROADWAY AND AREA LUMINAIRE. (1) 70 CRI, 5000K, 1050MA LIGHTSQUARE WITH 16 LEDS AND TYPE V WIDE OPTICS.

Spectral Parameters

CCT (K): 2237
 CIE u': 0.2876
 CIE v': 0.5346
 Duv: -0.0006
 CIE x: 0.5005
 CIE y: 0.4134
 CIE z: 0.0860
 Peak Wavelength (nm): 603
 Dominant Wavelength (nm): 587
 Purity: 74.5
 Rf: 69.8
 Rg: 99.2

| | | | |
|-----------|------|------|-------|
| CRI (Ra): | 72.0 | | |
| R1: | 68.9 | R9: | -17.4 |
| R2: | 83.0 | R10: | 61.3 |
| R3: | 95.2 | R11: | 59.8 |
| R4: | 66.2 | R12: | 50.5 |
| R5: | 65.9 | R13: | 71.1 |
| R6: | 76.3 | R14: | 96.9 |
| R7: | 76.7 | | |
| R8: | 43.8 | | |



Test Conditions

Stabilization Time: 71M
 Operation Time: 12H
 Room Temperature (°C) / RH%: 24.7/41%
 Sphere Temperature (°C): 25.6

REPORT NUMBER: SP1-1908-441-10-R4

| Measurement and Test Equipment | | | |
|--------------------------------|-----------------------|------------------|----------------------|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | IN0058 | 6/28/2019 | 12/28/2019 |
| Power Meter | IN0071 | 12/5/2018 | 12/5/2019 |
| AC Power Source | IN0063 | 12/5/2018 | 12/5/2019 |
| DC Power Source | IN0208 | 12/5/2018 | 12/5/2019 |
| Sphere Thermometer | IN0085 | 12/5/2018 | 12/5/2019 |
| Room Thermometer | IN0046 | 12/5/2018 | 12/5/2019 |

REPORT NUMBER: SP1-1908-441-10-R4

CIE 1931 Chromaticity Diagram



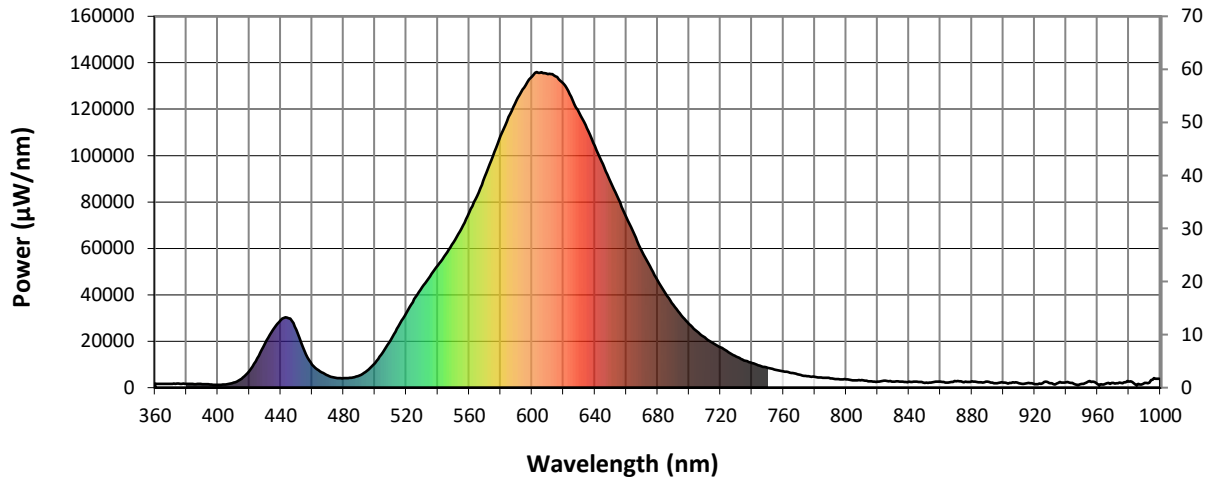
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2200K 4-step quadrangle

REPORT NUMBER: SP1-1908-441-10-R4

Photopic Flux vs. Wavelength



#####

| λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) |
|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|
| 360 | 1768 | NR | 490 | 5206 | NR | 620 | 130919 | NR | 750 | 8553 | NR | 880 | 2713 | NR |
| 365 | 1569 | NR | 495 | 7286 | NR | 625 | 125335 | NR | 755 | 7696 | NR | 885 | 2316 | NR |
| 370 | 1594 | NR | 500 | 10654 | NR | 630 | 118388 | NR | 760 | 6978 | NR | 890 | 2539 | NR |
| 375 | 1744 | NR | 505 | 15189 | NR | 635 | 111855 | NR | 765 | 6377 | NR | 895 | 1933 | NR |
| 380 | 1659 | NR | 510 | 20541 | NR | 640 | 104062 | NR | 770 | 5600 | NR | 900 | 2216 | NR |
| 385 | 1504 | NR | 515 | 26492 | NR | 645 | 96365 | NR | 775 | 5000 | NR | 905 | 2067 | NR |
| 390 | 1541 | NR | 520 | 32294 | NR | 650 | 88651 | NR | 780 | 4709 | NR | 910 | 1959 | NR |
| 395 | 1355 | NR | 525 | 38123 | NR | 655 | 81152 | NR | 785 | 4305 | NR | 915 | 1874 | NR |
| 400 | 1243 | NR | 530 | 43232 | NR | 660 | 73523 | NR | 790 | 4040 | NR | 920 | 1484 | NR |
| 405 | 1417 | NR | 535 | 48012 | NR | 665 | 66123 | NR | 795 | 3642 | NR | 925 | 1914 | NR |
| 410 | 2147 | NR | 540 | 52623 | NR | 670 | 58677 | NR | 800 | 3594 | NR | 930 | 1948 | NR |
| 415 | 3837 | NR | 545 | 57516 | NR | 675 | 52349 | NR | 805 | 3190 | NR | 935 | 2079 | NR |
| 420 | 7159 | NR | 550 | 62613 | NR | 680 | 46159 | NR | 810 | 3241 | NR | 940 | 2263 | NR |
| 425 | 12599 | NR | 555 | 68554 | NR | 685 | 40525 | NR | 815 | 2732 | NR | 945 | 1688 | NR |
| 430 | 19019 | NR | 560 | 75325 | NR | 690 | 35615 | NR | 820 | 2612 | NR | 950 | 1560 | NR |
| 435 | 24875 | NR | 565 | 82533 | NR | 695 | 31158 | NR | 825 | 2966 | NR | 955 | 2826 | NR |
| 440 | 29103 | NR | 570 | 90909 | NR | 700 | 27409 | NR | 830 | 2574 | NR | 960 | 1477 | NR |
| 445 | 29901 | NR | 575 | 99621 | NR | 705 | 24204 | NR | 835 | 2633 | NR | 965 | 1568 | NR |
| 450 | 24862 | NR | 580 | 108484 | NR | 710 | 21558 | NR | 840 | 2526 | NR | 970 | 2030 | NR |
| 455 | 15942 | NR | 585 | 116679 | NR | 715 | 19222 | NR | 845 | 2631 | NR | 975 | 1986 | NR |
| 460 | 9916 | NR | 590 | 123752 | NR | 720 | 17310 | NR | 850 | 2079 | NR | 980 | 2540 | NR |
| 465 | 7051 | NR | 595 | 129324 | NR | 725 | 15280 | NR | 855 | 2309 | NR | 985 | 1139 | NR |
| 470 | 5227 | NR | 600 | 134082 | NR | 730 | 13282 | NR | 860 | 2528 | NR | 990 | 2018 | NR |
| 475 | 4257 | NR | 605 | 135698 | NR | 735 | 11753 | NR | 865 | 2121 | NR | 995 | 3445 | NR |
| 480 | 4052 | NR | 610 | 135144 | NR | 740 | 10654 | NR | 870 | 2751 | NR | 1000 | 3704 | NR |
| 485 | 4298 | NR | 615 | 134180 | NR | 745 | 9451 | NR | 875 | 2317 | NR | | | |

REPORT NUMBER: SP1-1908-441-10-R4

Scotopic Flux vs. Wavelength



Scotopic Lumens: 4696.9

S/P: 0.85

| λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) |
|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|
| 360 | 1768 | NR | 490 | 5206 | NR | 620 | 130919 | NR | 750 | 8553 | NR | 880 | 2713 | NR |
| 365 | 1569 | NR | 495 | 7286 | NR | 625 | 125335 | NR | 755 | 7696 | NR | 885 | 2316 | NR |
| 370 | 1594 | NR | 500 | 10654 | NR | 630 | 118388 | NR | 760 | 6978 | NR | 890 | 2539 | NR |
| 375 | 1744 | NR | 505 | 15189 | NR | 635 | 111855 | NR | 765 | 6377 | NR | 895 | 1933 | NR |
| 380 | 1659 | NR | 510 | 20541 | NR | 640 | 104062 | NR | 770 | 5600 | NR | 900 | 2216 | NR |
| 385 | 1504 | NR | 515 | 26492 | NR | 645 | 96365 | NR | 775 | 5000 | NR | 905 | 2067 | NR |
| 390 | 1541 | NR | 520 | 32294 | NR | 650 | 88651 | NR | 780 | 4709 | NR | 910 | 1959 | NR |
| 395 | 1355 | NR | 525 | 38123 | NR | 655 | 81152 | NR | 785 | 4305 | NR | 915 | 1874 | NR |
| 400 | 1243 | NR | 530 | 43232 | NR | 660 | 73523 | NR | 790 | 4040 | NR | 920 | 1484 | NR |
| 405 | 1417 | NR | 535 | 48012 | NR | 665 | 66123 | NR | 795 | 3642 | NR | 925 | 1914 | NR |
| 410 | 2147 | NR | 540 | 52623 | NR | 670 | 58677 | NR | 800 | 3594 | NR | 930 | 1948 | NR |
| 415 | 3837 | NR | 545 | 57516 | NR | 675 | 52349 | NR | 805 | 3190 | NR | 935 | 2079 | NR |
| 420 | 7159 | NR | 550 | 62613 | NR | 680 | 46159 | NR | 810 | 3241 | NR | 940 | 2263 | NR |
| 425 | 12599 | NR | 555 | 68554 | NR | 685 | 40525 | NR | 815 | 2732 | NR | 945 | 1688 | NR |
| 430 | 19019 | NR | 560 | 75325 | NR | 690 | 35615 | NR | 820 | 2612 | NR | 950 | 1560 | NR |
| 435 | 24875 | NR | 565 | 82533 | NR | 695 | 31158 | NR | 825 | 2966 | NR | 955 | 2826 | NR |
| 440 | 29103 | NR | 570 | 90909 | NR | 700 | 27409 | NR | 830 | 2574 | NR | 960 | 1477 | NR |
| 445 | 29901 | NR | 575 | 99621 | NR | 705 | 24204 | NR | 835 | 2633 | NR | 965 | 1568 | NR |
| 450 | 24862 | NR | 580 | 108484 | NR | 710 | 21558 | NR | 840 | 2526 | NR | 970 | 2030 | NR |
| 455 | 15942 | NR | 585 | 116679 | NR | 715 | 19222 | NR | 845 | 2631 | NR | 975 | 1986 | NR |
| 460 | 9916 | NR | 590 | 123752 | NR | 720 | 17310 | NR | 850 | 2079 | NR | 980 | 2540 | NR |
| 465 | 7051 | NR | 595 | 129324 | NR | 725 | 15280 | NR | 855 | 2309 | NR | 985 | 1139 | NR |
| 470 | 5227 | NR | 600 | 134082 | NR | 730 | 13282 | NR | 860 | 2528 | NR | 990 | 2018 | NR |
| 475 | 4257 | NR | 605 | 135698 | NR | 735 | 11753 | NR | 865 | 2121 | NR | 995 | 3445 | NR |
| 480 | 4052 | NR | 610 | 135144 | NR | 740 | 10654 | NR | 870 | 2751 | NR | 1000 | 3704 | NR |
| 485 | 4298 | NR | 615 | 134180 | NR | 745 | 9451 | NR | 875 | 2317 | NR | | | |

REPORT NUMBER: SP1-1908-441-10-R4

Melanopic Flux vs. Wavelength



Melanopic Lumens: 1470.8 M/P: 0.27

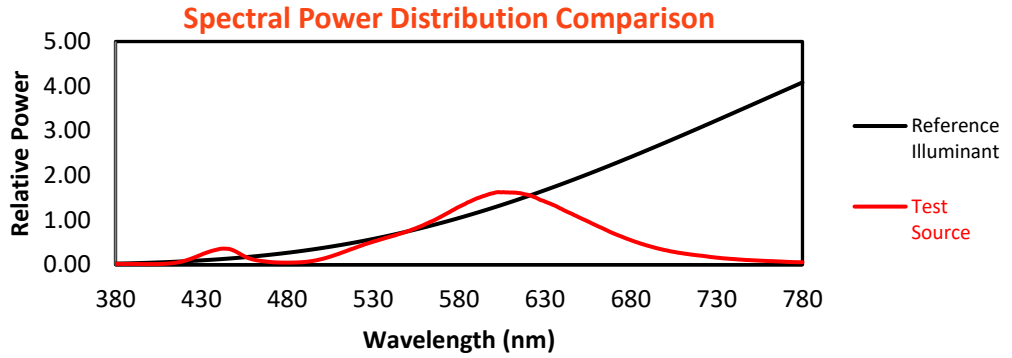
| λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) |
|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|
| 360 | 1768 | NR | 490 | 5206 | NR | 620 | 130919 | NR | 750 | 8553 | NR | 880 | 2713 | NR |
| 365 | 1569 | NR | 495 | 7286 | NR | 625 | 125335 | NR | 755 | 7696 | NR | 885 | 2316 | NR |
| 370 | 1594 | NR | 500 | 10654 | NR | 630 | 118388 | NR | 760 | 6978 | NR | 890 | 2539 | NR |
| 375 | 1744 | NR | 505 | 15189 | NR | 635 | 111855 | NR | 765 | 6377 | NR | 895 | 1933 | NR |
| 380 | 1659 | NR | 510 | 20541 | NR | 640 | 104062 | NR | 770 | 5600 | NR | 900 | 2216 | NR |
| 385 | 1504 | NR | 515 | 26492 | NR | 645 | 96365 | NR | 775 | 5000 | NR | 905 | 2067 | NR |
| 390 | 1541 | NR | 520 | 32294 | NR | 650 | 88651 | NR | 780 | 4709 | NR | 910 | 1959 | NR |
| 395 | 1355 | NR | 525 | 38123 | NR | 655 | 81152 | NR | 785 | 4305 | NR | 915 | 1874 | NR |
| 400 | 1243 | NR | 530 | 43232 | NR | 660 | 73523 | NR | 790 | 4040 | NR | 920 | 1484 | NR |
| 405 | 1417 | NR | 535 | 48012 | NR | 665 | 66123 | NR | 795 | 3642 | NR | 925 | 1914 | NR |
| 410 | 2147 | NR | 540 | 52623 | NR | 670 | 58677 | NR | 800 | 3594 | NR | 930 | 1948 | NR |
| 415 | 3837 | NR | 545 | 57516 | NR | 675 | 52349 | NR | 805 | 3190 | NR | 935 | 2079 | NR |
| 420 | 7159 | NR | 550 | 62613 | NR | 680 | 46159 | NR | 810 | 3241 | NR | 940 | 2263 | NR |
| 425 | 12599 | NR | 555 | 68554 | NR | 685 | 40525 | NR | 815 | 2732 | NR | 945 | 1688 | NR |
| 430 | 19019 | NR | 560 | 75325 | NR | 690 | 35615 | NR | 820 | 2612 | NR | 950 | 1560 | NR |
| 435 | 24875 | NR | 565 | 82533 | NR | 695 | 31158 | NR | 825 | 2966 | NR | 955 | 2826 | NR |
| 440 | 29103 | NR | 570 | 90909 | NR | 700 | 27409 | NR | 830 | 2574 | NR | 960 | 1477 | NR |
| 445 | 29901 | NR | 575 | 99621 | NR | 705 | 24204 | NR | 835 | 2633 | NR | 965 | 1568 | NR |
| 450 | 24862 | NR | 580 | 108484 | NR | 710 | 21558 | NR | 840 | 2526 | NR | 970 | 2030 | NR |
| 455 | 15942 | NR | 585 | 116679 | NR | 715 | 19222 | NR | 845 | 2631 | NR | 975 | 1986 | NR |
| 460 | 9916 | NR | 590 | 123752 | NR | 720 | 17310 | NR | 850 | 2079 | NR | 980 | 2540 | NR |
| 465 | 7051 | NR | 595 | 129324 | NR | 725 | 15280 | NR | 855 | 2309 | NR | 985 | 1139 | NR |
| 470 | 5227 | NR | 600 | 134082 | NR | 730 | 13282 | NR | 860 | 2528 | NR | 990 | 2018 | NR |
| 475 | 4257 | NR | 605 | 135698 | NR | 735 | 11753 | NR | 865 | 2121 | NR | 995 | 3445 | NR |
| 480 | 4052 | NR | 610 | 135144 | NR | 740 | 10654 | NR | 870 | 2751 | NR | 1000 | 3704 | NR |
| 485 | 4298 | NR | 615 | 134180 | NR | 745 | 9451 | NR | 875 | 2317 | NR | | | |

REPORT NUMBER: SP1-1908-441-10-R4

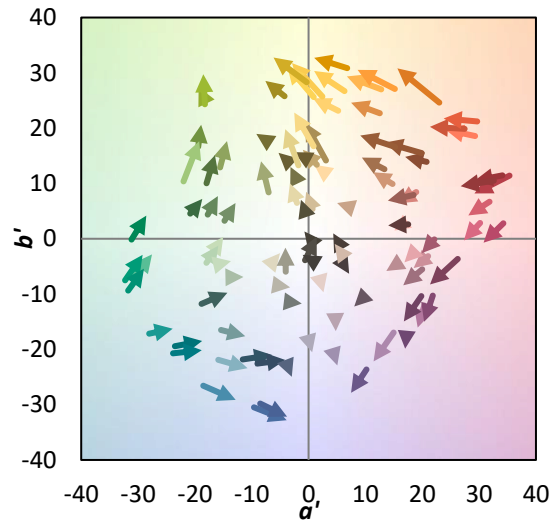
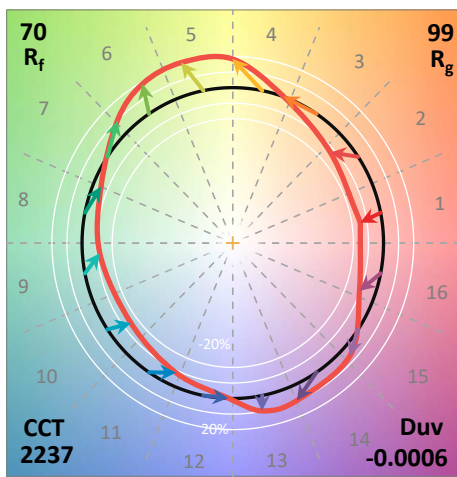
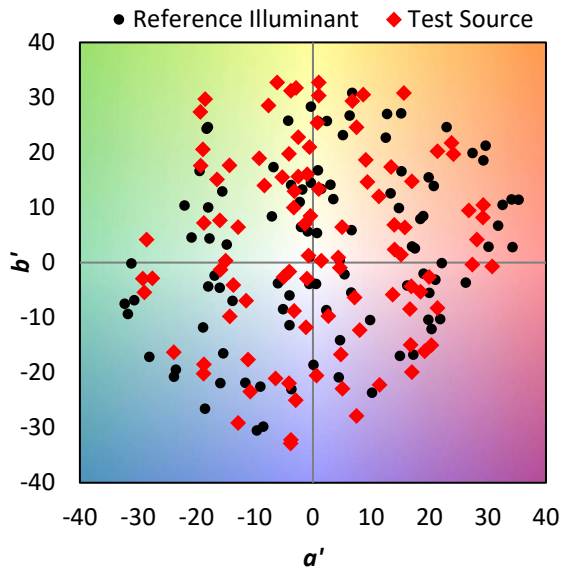
TM-30-18

Summary

$R_f = 69.8$
 $R_g = 99.2$
 $CIE R_a = 72.0$
 $R_9 = -17.4$



Color Vector Graphics

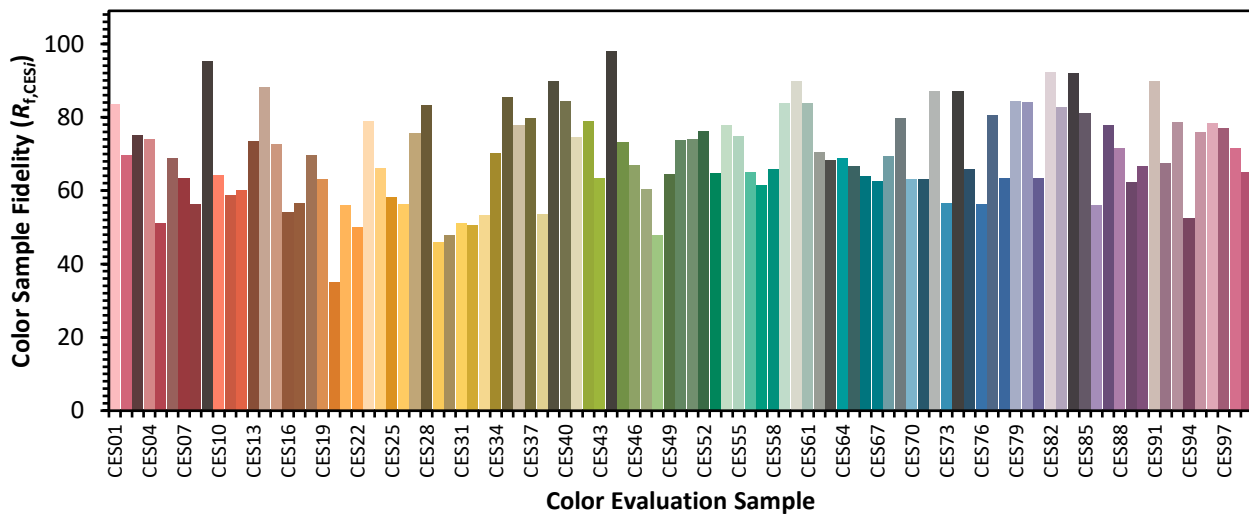


REPORT NUMBER: SP1-1908-441-10-R4

TM-30-18

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

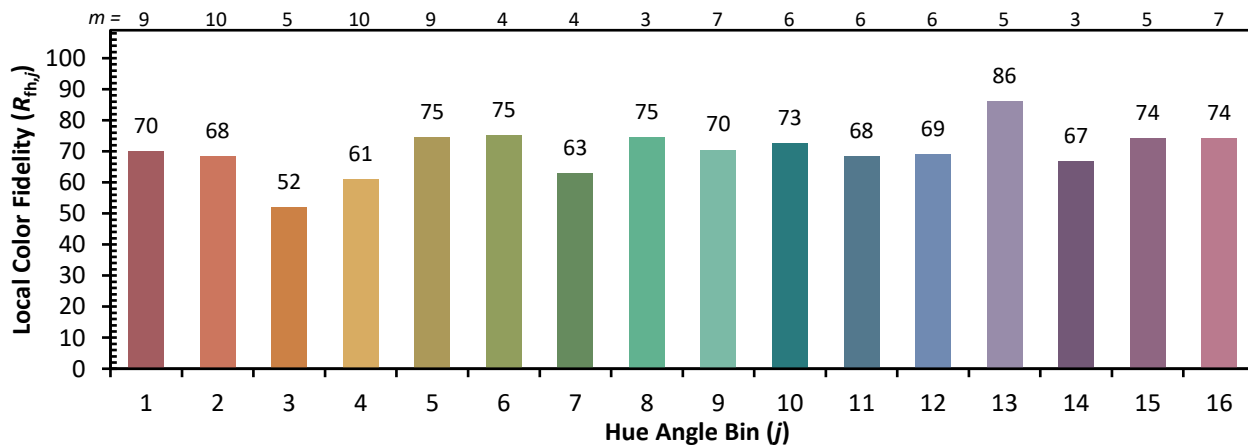
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|------------|------------|------------|------------|
| CES01 = 87 | CES26 = 56 | CES51 = 74 | CES76 = 56 |
| CES02 = 65 | CES27 = 76 | CES52 = 76 | CES77 = 81 |
| CES03 = 32 | CES28 = 83 | CES53 = 65 | CES78 = 63 |
| CES04 = 72 | CES29 = 46 | CES54 = 78 | CES79 = 84 |
| CES05 = 52 | CES30 = 48 | CES55 = 75 | CES80 = 84 |
| CES06 = 52 | CES31 = 51 | CES56 = 65 | CES81 = 63 |
| CES07 = 44 | CES32 = 51 | CES57 = 62 | CES82 = 92 |
| CES08 = 42 | CES33 = 53 | CES58 = 66 | CES83 = 83 |
| CES09 = 29 | CES34 = 70 | CES59 = 84 | CES84 = 92 |
| CES10 = 78 | CES35 = 85 | CES60 = 90 | CES85 = 81 |
| CES11 = 61 | CES36 = 78 | CES61 = 84 | CES86 = 56 |
| CES12 = 68 | CES37 = 80 | CES62 = 70 | CES87 = 78 |
| CES13 = 45 | CES38 = 53 | CES63 = 68 | CES88 = 72 |
| CES14 = 75 | CES39 = 90 | CES64 = 69 | CES89 = 62 |
| CES15 = 72 | CES40 = 84 | CES65 = 67 | CES90 = 67 |
| CES16 = 49 | CES41 = 75 | CES66 = 64 | CES91 = 90 |
| CES17 = 51 | CES42 = 79 | CES67 = 63 | CES92 = 67 |
| CES18 = 57 | CES43 = 64 | CES68 = 69 | CES93 = 79 |
| CES19 = 74 | CES44 = 98 | CES69 = 80 | CES94 = 52 |
| CES20 = 68 | CES45 = 73 | CES70 = 63 | CES95 = 76 |
| CES21 = 89 | CES46 = 67 | CES71 = 63 | CES96 = 78 |
| CES22 = 81 | CES47 = 60 | CES72 = 87 | CES97 = 77 |
| CES23 = 92 | CES48 = 48 | CES73 = 56 | CES98 = 71 |
| CES24 = 92 | CES49 = 64 | CES74 = 87 | CES99 = 65 |
| CES25 = 74 | CES50 = 74 | CES75 = 66 | |



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Color Rendition by Hue-Angle Bin



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Measure Comparisons



(END OF REPORT)