

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: P438832

Luminaire Tested: **IST-SA1F-727-U-SLL**

Issue Date: 12/10/2020

Test Information

Test Method: LM-79-08
Report Number: P438832
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-074-20)
Test Lab: INNOVATION CENTER
Issue Date: 12/10/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: IST-SA1F-727-U-SLL
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5812 lumens
Efficiency: N/A
Efficacy: 88.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

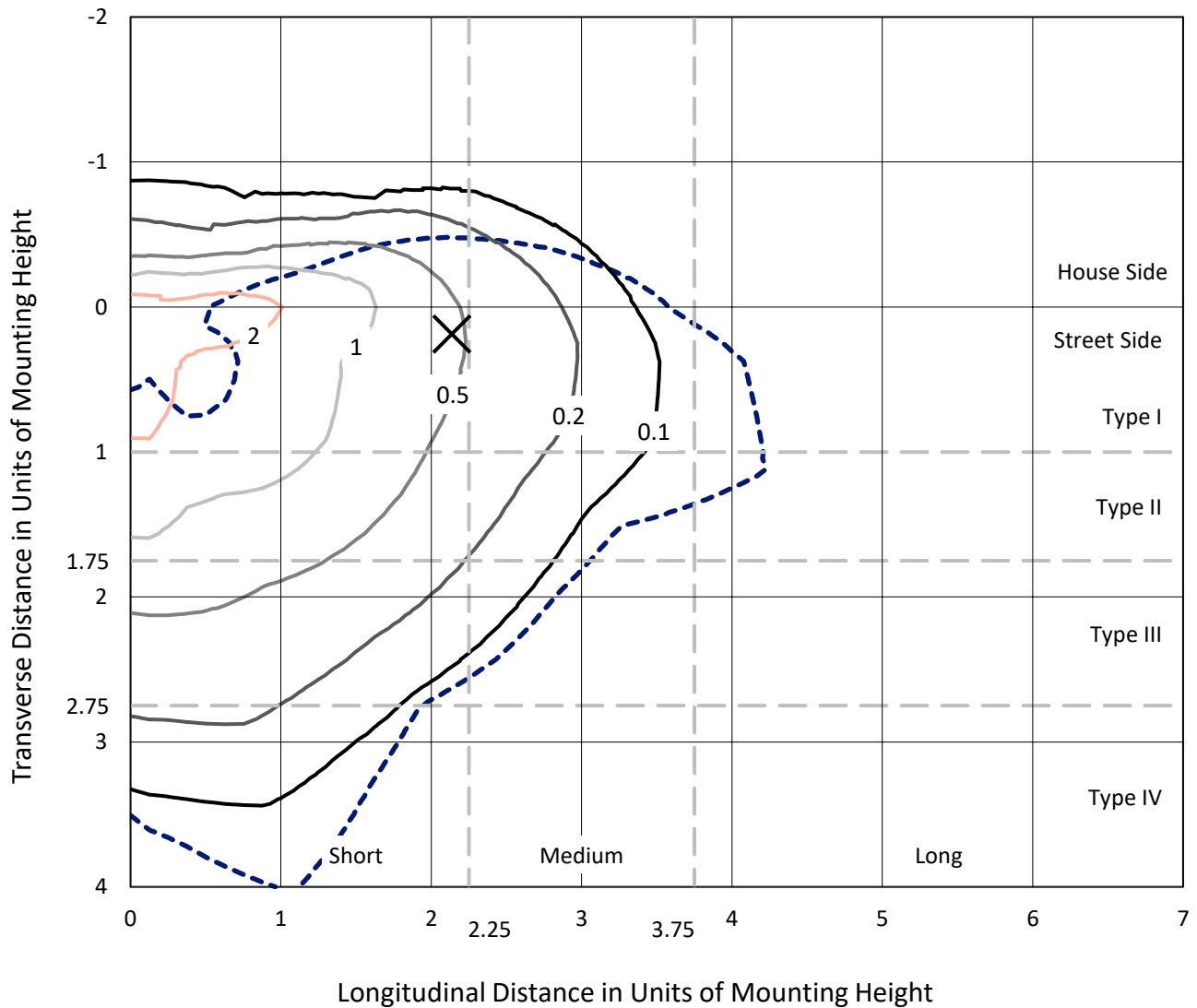
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

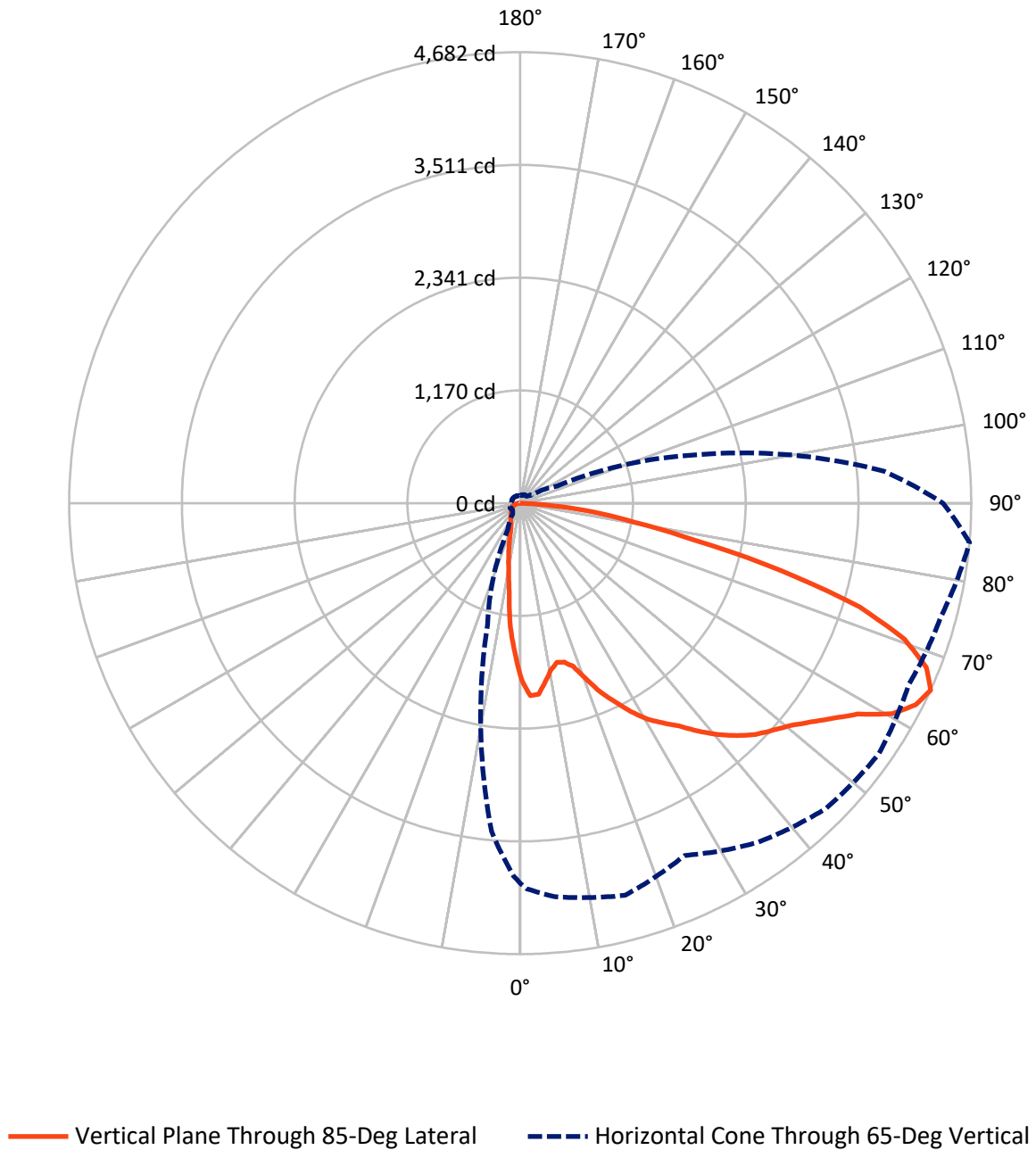
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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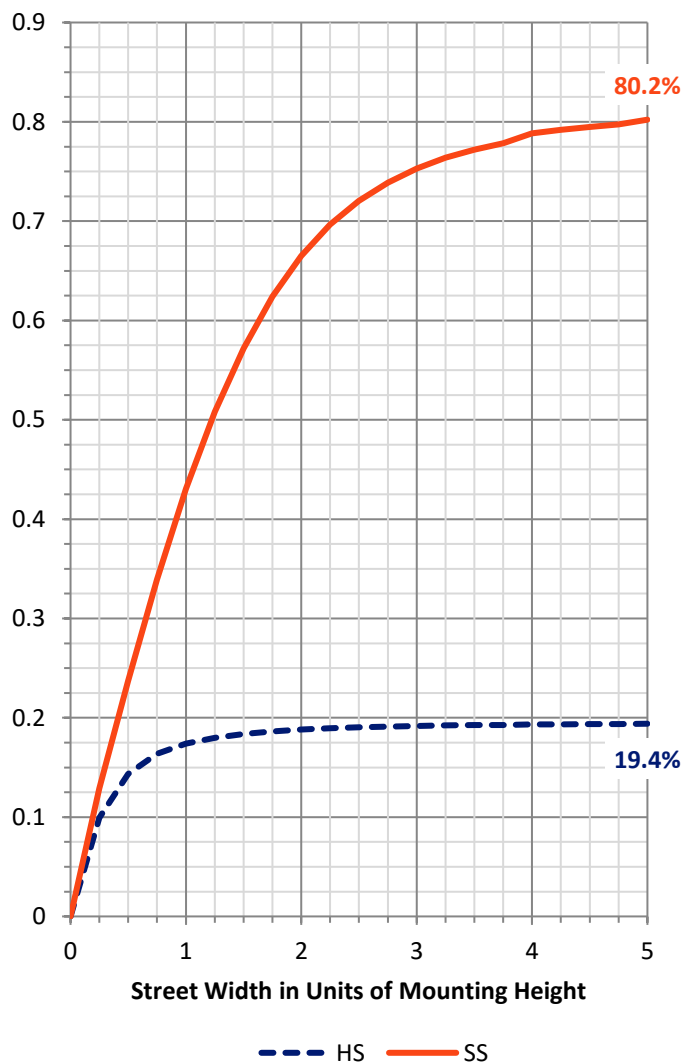
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1137.4 | 0.0 | 1137.4 |
| | % Fixture | 19.6 | 0.0 | 19.6 |
| Street Side | Lumens | 4674.6 | 0.0 | 4674.6 |
| | % Fixture | 80.4 | 0.0 | 80.4 |
| Total | Lumens | 5812.0 | 0.0 | 5812.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 139.8 | 2.4 |
| 10°-20° | 290.7 | 5.0 |
| 20°-30° | 418.0 | 7.2 |
| 30°-40° | 600.2 | 10.3 |
| 40°-50° | 849.6 | 14.6 |
| 50°-60° | 1181.3 | 20.3 |
| 60°-70° | 1406.7 | 24.2 |
| 70°-80° | 813.1 | 14.0 |
| 80°-90° | 112.4 | 1.9 |
| 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° | 5812.0 | 100.0 |
| 0°-180° | 5812.0 | 100.0 |

Coefficient of Utilization

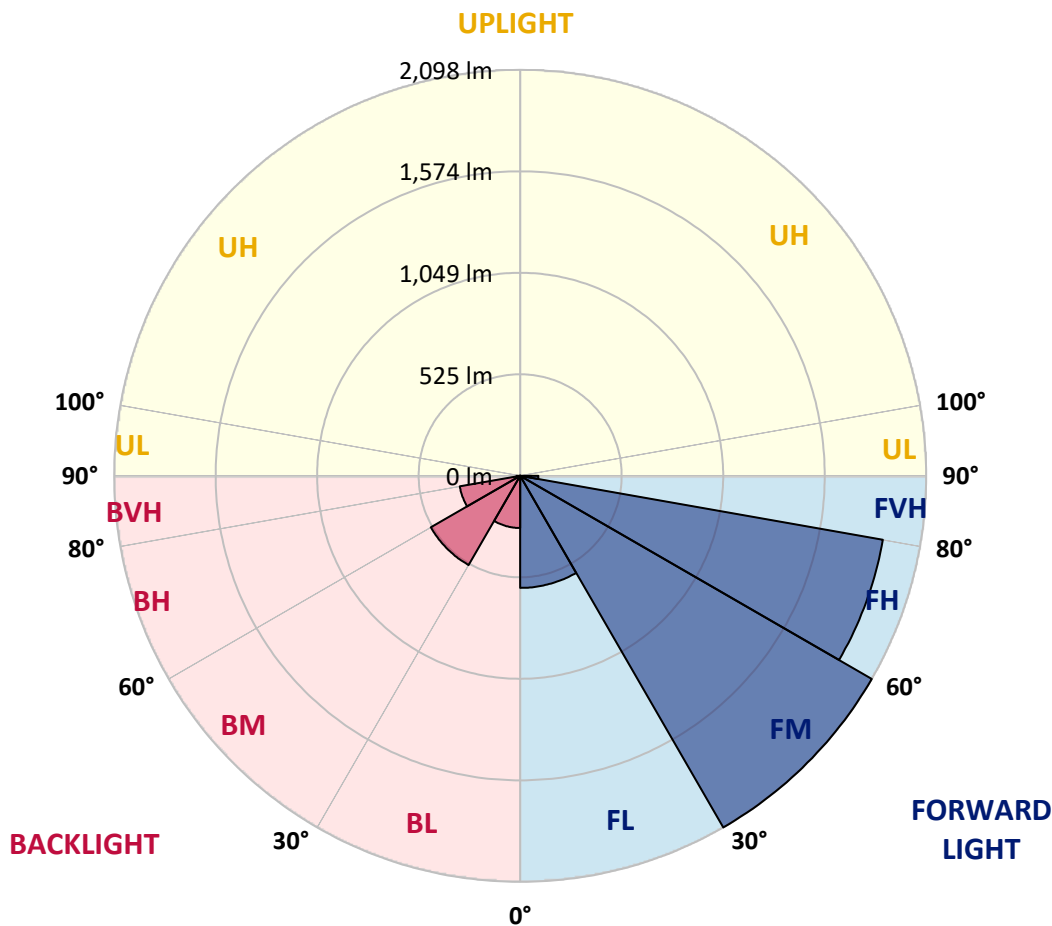


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 579.2 | 10.0 | | | |
| FM (30°-60°) | 2098.2 | 36.1 | | | |
| FH (60°-80°) | 1903.2 | 32.7 | | | G2/5000 |
| FVH (80°-90°) | 94.1 | 1.6 | | | G1/100 |
| BL (0°-30°) | 269.4 | 4.6 | B1/500 | | |
| BM (30°-60°) | 532.9 | 9.2 | B1/1000 | | |
| BH (60°-80°) | 316.7 | 5.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 18.4 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2
 Type IV Short





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CATALOG NUMBER: IST-SA1F-727-U-SLL

CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1836.1 | 1836.1 | 1836.1 | 1836.1 | 1836.1 | 1836.1 | 1836.1 | 1836.1 | 1836.1 | 1836.1 | 1836.1 |
| 2.5° | 1924.0 | 1931.1 | 1947.7 | 2004.7 | 2040.3 | 2068.8 | 2104.5 | 2068.8 | 2059.3 | 2011.8 | 2002.3 |
| 5° | 1855.1 | 1871.7 | 1919.2 | 2026.1 | 2114.0 | 2206.6 | 2254.1 | 2213.7 | 2159.1 | 2076.0 | 1992.8 |
| 7.5° | 1719.7 | 1741.1 | 1802.8 | 1969.1 | 2135.3 | 2261.2 | 2323.0 | 2280.2 | 2168.6 | 2021.3 | 1871.7 |
| 10° | 1581.9 | 1615.2 | 1688.8 | 1897.8 | 2073.6 | 2213.7 | 2308.7 | 2263.6 | 2128.2 | 1935.8 | 1757.7 |
| 12.5° | 1498.8 | 1522.5 | 1605.7 | 1824.2 | 2009.5 | 2149.6 | 2220.9 | 2194.7 | 2068.8 | 1885.9 | 1695.9 |
| 15° | 1479.8 | 1503.5 | 1586.7 | 1798.1 | 1962.0 | 2066.5 | 2083.1 | 2090.2 | 2042.7 | 1902.6 | 1712.6 |
| 17.5° | 1532.0 | 1551.0 | 1665.0 | 1840.8 | 1907.3 | 1928.7 | 1954.8 | 1985.7 | 2009.5 | 1935.8 | 1781.4 |
| 20° | 1657.9 | 1695.9 | 1795.7 | 1928.7 | 1893.1 | 1843.2 | 1857.4 | 1895.4 | 1985.7 | 2033.2 | 1940.6 |
| 22.5° | 1826.6 | 1869.3 | 1995.2 | 2049.8 | 1902.6 | 1795.7 | 1783.8 | 1817.1 | 1983.3 | 2140.1 | 2130.6 |
| 25° | 2014.2 | 2073.6 | 2209.0 | 2211.4 | 1943.0 | 1762.4 | 1738.7 | 1769.6 | 1978.6 | 2235.1 | 2282.6 |
| 27.5° | 2209.0 | 2263.6 | 2410.9 | 2337.2 | 2021.3 | 1764.8 | 1736.3 | 1767.2 | 1990.5 | 2337.2 | 2451.3 |
| 30° | 2353.9 | 2425.1 | 2553.4 | 2456.0 | 2071.2 | 1795.7 | 1752.9 | 1793.3 | 2016.6 | 2389.5 | 2600.9 |
| 32.5° | 2501.1 | 2546.3 | 2681.7 | 2524.9 | 2125.8 | 1843.2 | 1788.6 | 1850.3 | 2083.1 | 2439.4 | 2719.7 |
| 35° | 2631.8 | 2691.2 | 2828.9 | 2565.3 | 2206.6 | 1924.0 | 1852.7 | 1933.5 | 2178.1 | 2510.6 | 2840.8 |
| 37.5° | 2798.0 | 2855.0 | 2980.9 | 2622.3 | 2273.1 | 2026.1 | 1966.7 | 2071.2 | 2294.5 | 2574.8 | 3002.3 |
| 40° | 2945.3 | 3035.6 | 3130.6 | 2693.5 | 2349.1 | 2175.7 | 2137.7 | 2280.2 | 2451.3 | 2662.7 | 3159.1 |
| 42.5° | 3090.2 | 3166.2 | 3270.7 | 2774.3 | 2446.5 | 2358.6 | 2375.2 | 2524.9 | 2641.3 | 2795.7 | 3299.2 |
| 45° | 3194.7 | 3282.6 | 3375.2 | 2838.4 | 2572.4 | 2555.8 | 2667.4 | 2793.3 | 2836.0 | 2935.8 | 3425.1 |
| 47.5° | 3296.8 | 3365.7 | 3448.9 | 2902.6 | 2724.4 | 2776.7 | 2971.4 | 3068.8 | 3026.1 | 3061.7 | 3524.9 |
| 50° | 3432.2 | 3505.9 | 3529.6 | 3004.7 | 2916.8 | 3056.9 | 3268.3 | 3332.5 | 3209.0 | 3161.5 | 3629.4 |
| 52.5° | 3627.0 | 3662.6 | 3650.8 | 3125.8 | 3099.7 | 3349.1 | 3522.5 | 3619.9 | 3399.0 | 3256.5 | 3774.3 |
| 55° | 3888.3 | 3950.0 | 3874.0 | 3323.0 | 3287.3 | 3629.4 | 3831.3 | 3878.8 | 3610.4 | 3375.2 | 3940.5 |
| 57.5° | 4137.7 | 4192.3 | 4168.6 | 3562.9 | 3532.0 | 3871.7 | 4066.4 | 4111.6 | 3817.0 | 3596.1 | 4130.6 |
| 60° | 4230.3 | 4246.9 | 4332.5 | 3817.0 | 3776.6 | 4078.3 | 4299.2 | 4306.3 | 4064.1 | 3862.2 | 4439.3 |
| 62.5° | 4130.6 | 4197.1 | 4280.2 | 4054.5 | 3923.9 | 4256.4 | 4453.6 | 4498.7 | 4299.2 | 4185.2 | 4608.0 |
| 65° | 3945.3 | 4004.7 | 4102.1 | 4213.7 | 4035.5 | 4299.2 | 4484.5 | 4541.5 | 4451.2 | 4524.8 | 4681.6 |
| 67.5° | 3731.5 | 3805.1 | 3871.7 | 4239.8 | 4021.3 | 4054.5 | 4208.9 | 4244.6 | 4370.5 | 4674.5 | 4546.2 |
| 70° | 3456.0 | 3539.1 | 3596.1 | 4137.7 | 3681.6 | 3351.5 | 3460.7 | 3558.1 | 3750.5 | 4408.5 | 4230.3 |
| 72.5° | 2862.2 | 2995.2 | 3137.7 | 3674.5 | 2978.6 | 2603.3 | 2688.8 | 2752.9 | 2890.7 | 3764.8 | 3684.0 |
| 75° | 2014.2 | 2111.6 | 2287.4 | 2959.6 | 2287.4 | 1843.2 | 1976.2 | 1976.2 | 2149.6 | 3092.6 | 2798.0 |
| 77.5° | 1204.3 | 1206.6 | 1377.6 | 1947.7 | 1391.9 | 1242.3 | 1318.3 | 1353.9 | 1406.1 | 2190.0 | 1857.4 |
| 80° | 681.7 | 691.2 | 748.2 | 1258.9 | 824.2 | 848.0 | 938.2 | 1033.2 | 954.8 | 1358.6 | 1194.7 |
| 82.5° | 318.3 | 280.3 | 296.9 | 593.8 | 467.9 | 553.4 | 567.7 | 610.4 | 615.2 | 869.3 | 783.8 |
| 85° | 26.1 | 21.4 | 28.5 | 106.9 | 83.1 | 76.0 | 54.6 | 104.5 | 163.9 | 380.0 | 337.3 |
| 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° | 1836.1 | 1836.1 | 1836.1 | 1836.1 | 1836.1 | 1836.1 | 1836.1 | 1836.1 | 1836.1 | 1836.1 | 1836.1 |
| 2.5° | 1971.5 | 1947.7 | 1895.4 | 1855.1 | 1817.1 | 1745.8 | 1717.3 | 1676.9 | 1655.5 | 1617.5 | 1627.0 |
| 5° | 1931.1 | 1876.4 | 1757.7 | 1676.9 | 1572.4 | 1486.9 | 1434.7 | 1387.1 | 1368.1 | 1327.8 | 1313.5 |
| 7.5° | 1783.8 | 1736.3 | 1586.7 | 1453.7 | 1325.4 | 1223.3 | 1125.9 | 1054.6 | 1021.4 | 985.7 | 983.4 |
| 10° | 1657.9 | 1579.5 | 1408.5 | 1251.8 | 1104.5 | 1009.5 | 938.2 | 878.8 | 826.6 | 781.5 | 755.3 |
| 12.5° | 1586.7 | 1489.3 | 1299.3 | 1109.2 | 1007.1 | 940.6 | 862.2 | 788.6 | 729.2 | 676.9 | 646.1 |
| 15° | 1586.7 | 1472.7 | 1247.0 | 1061.7 | 959.6 | 859.8 | 769.6 | 693.6 | 615.2 | 553.4 | 534.4 |
| 17.5° | 1660.3 | 1520.2 | 1258.9 | 1030.9 | 886.0 | 774.3 | 660.3 | 560.6 | 484.6 | 429.9 | 410.9 |
| 20° | 1805.2 | 1636.5 | 1287.4 | 995.2 | 814.7 | 660.3 | 522.6 | 415.7 | 346.8 | 320.7 | 315.9 |
| 22.5° | 1973.8 | 1776.7 | 1330.1 | 962.0 | 741.1 | 539.2 | 391.9 | 315.9 | 285.0 | 275.5 | 275.5 |
| 25° | 2159.1 | 1933.5 | 1384.8 | 926.3 | 665.1 | 427.5 | 299.3 | 263.7 | 251.8 | 247.0 | 247.0 |
| 27.5° | 2332.5 | 2104.5 | 1482.2 | 912.1 | 593.8 | 346.8 | 261.3 | 235.1 | 228.0 | 223.3 | 225.6 |
| 30° | 2501.1 | 2256.5 | 1581.9 | 883.6 | 515.4 | 301.7 | 235.1 | 216.1 | 206.6 | 204.3 | 206.6 |
| 32.5° | 2646.0 | 2387.1 | 1650.8 | 840.8 | 460.8 | 270.8 | 218.5 | 199.5 | 190.0 | 187.6 | 190.0 |
| 35° | 2812.3 | 2515.4 | 1719.7 | 810.0 | 432.3 | 251.8 | 206.6 | 187.6 | 178.1 | 173.4 | 173.4 |
| 37.5° | 3007.1 | 2669.8 | 1771.9 | 764.8 | 413.3 | 232.8 | 197.1 | 178.1 | 166.3 | 161.5 | 161.5 |
| 40° | 3268.3 | 2857.4 | 1814.7 | 729.2 | 391.9 | 223.3 | 185.3 | 168.6 | 156.8 | 152.0 | 149.6 |
| 42.5° | 3448.9 | 3021.3 | 1850.3 | 705.4 | 370.5 | 218.5 | 178.1 | 163.9 | 149.6 | 142.5 | 140.1 |
| 45° | 3572.4 | 3166.2 | 1874.1 | 693.6 | 351.5 | 206.6 | 173.4 | 159.1 | 142.5 | 133.0 | 133.0 |
| 47.5° | 3691.1 | 3285.0 | 1876.4 | 676.9 | 337.3 | 192.4 | 180.5 | 152.0 | 135.4 | 125.9 | 125.9 |
| 50° | 3824.1 | 3434.6 | 1921.6 | 660.3 | 320.7 | 175.8 | 178.1 | 149.6 | 130.6 | 121.1 | 118.8 |
| 52.5° | 3957.2 | 3638.9 | 2009.5 | 636.6 | 296.9 | 161.5 | 168.6 | 152.0 | 125.9 | 116.4 | 114.0 |
| 55° | 4194.7 | 3893.0 | 2118.7 | 600.9 | 266.0 | 147.3 | 156.8 | 149.6 | 118.8 | 109.3 | 106.9 |
| 57.5° | 4349.1 | 4130.6 | 2204.2 | 562.9 | 220.9 | 137.8 | 137.8 | 144.9 | 111.6 | 102.1 | 99.8 |
| 60° | 4437.0 | 4175.7 | 2220.9 | 517.8 | 180.5 | 123.5 | 118.8 | 147.3 | 104.5 | 92.6 | 92.6 |
| 62.5° | 4434.6 | 4021.3 | 2137.7 | 475.0 | 156.8 | 114.0 | 106.9 | 128.3 | 97.4 | 87.9 | 85.5 |
| 65° | 4389.5 | 3793.3 | 1950.1 | 420.4 | 147.3 | 104.5 | 95.0 | 97.4 | 90.3 | 80.8 | 78.4 |
| 67.5° | 4194.7 | 3399.0 | 1650.8 | 365.8 | 142.5 | 95.0 | 87.9 | 83.1 | 78.4 | 71.3 | 68.9 |
| 70° | 3722.0 | 2954.8 | 1287.4 | 339.7 | 140.1 | 83.1 | 76.0 | 71.3 | 66.5 | 61.8 | 61.8 |
| 72.5° | 3026.1 | 2304.0 | 983.4 | 325.4 | 142.5 | 76.0 | 64.1 | 61.8 | 57.0 | 54.6 | 52.3 |
| 75° | 2095.0 | 1703.1 | 712.6 | 287.4 | 137.8 | 64.1 | 54.6 | 49.9 | 47.5 | 42.8 | 42.8 |
| 77.5° | 1346.8 | 1114.0 | 472.7 | 230.4 | 111.6 | 52.3 | 40.4 | 38.0 | 35.6 | 33.3 | 33.3 |
| 80° | 886.0 | 757.7 | 275.5 | 163.9 | 68.9 | 35.6 | 28.5 | 28.5 | 26.1 | 21.4 | 21.4 |
| 82.5° | 562.9 | 572.4 | 142.5 | 76.0 | 40.4 | 21.4 | 16.6 | 14.3 | 14.3 | 9.5 | 9.5 |
| 85° | 123.5 | 216.1 | 64.1 | 30.9 | 14.3 | 2.4 | 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° | 1836.1 | 1836.1 | 1836.1 | 1836.1 | 1836.1 | 1836.1 | 1836.1 | 1836.1 | 1836.1 | 1836.1 | 1836.1 |
| 2.5° | 1593.8 | 1574.8 | 1567.7 | 1567.7 | 1536.8 | 1539.2 | 1539.2 | 1558.2 | 1555.8 | 1572.4 | 1565.3 |
| 5° | 1296.9 | 1277.9 | 1277.9 | 1282.6 | 1287.4 | 1266.0 | 1273.1 | 1254.1 | 1289.8 | 1263.6 | 1244.6 |
| 7.5° | 957.2 | 954.8 | 971.5 | 1009.5 | 1002.4 | 995.2 | 981.0 | 945.3 | 926.3 | 945.3 | 935.8 |
| 10° | 734.0 | 741.1 | 736.3 | 753.0 | 755.3 | 753.0 | 729.2 | 722.1 | 712.6 | 722.1 | 734.0 |
| 12.5° | 615.2 | 586.7 | 555.8 | 553.4 | 572.4 | 572.4 | 570.1 | 572.4 | 579.6 | 579.6 | 589.1 |
| 15° | 513.1 | 494.1 | 453.7 | 434.7 | 448.9 | 439.4 | 441.8 | 451.3 | 458.4 | 467.9 | 463.2 |
| 17.5° | 408.5 | 391.9 | 372.9 | 361.0 | 368.2 | 361.0 | 358.7 | 356.3 | 356.3 | 353.9 | 363.4 |
| 20° | 311.2 | 308.8 | 315.9 | 311.2 | 313.5 | 308.8 | 301.7 | 292.2 | 285.0 | 289.8 | 294.5 |
| 22.5° | 270.8 | 273.2 | 277.9 | 282.7 | 282.7 | 277.9 | 266.0 | 256.5 | 254.2 | 254.2 | 256.5 |
| 25° | 249.4 | 249.4 | 256.5 | 258.9 | 261.3 | 254.2 | 239.9 | 232.8 | 232.8 | 232.8 | 232.8 |
| 27.5° | 225.6 | 230.4 | 235.1 | 239.9 | 242.3 | 235.1 | 223.3 | 216.1 | 216.1 | 213.8 | 211.4 |
| 30° | 209.0 | 211.4 | 216.1 | 218.5 | 220.9 | 213.8 | 206.6 | 199.5 | 199.5 | 199.5 | 197.1 |
| 32.5° | 190.0 | 197.1 | 199.5 | 201.9 | 204.3 | 199.5 | 192.4 | 187.6 | 185.3 | 182.9 | 178.1 |
| 35° | 175.8 | 178.1 | 185.3 | 185.3 | 187.6 | 185.3 | 180.5 | 175.8 | 168.6 | 166.3 | 166.3 |
| 37.5° | 161.5 | 161.5 | 166.3 | 171.0 | 175.8 | 173.4 | 166.3 | 159.1 | 156.8 | 156.8 | 156.8 |
| 40° | 152.0 | 149.6 | 152.0 | 159.1 | 163.9 | 163.9 | 154.4 | 149.6 | 149.6 | 147.3 | 147.3 |
| 42.5° | 140.1 | 140.1 | 140.1 | 147.3 | 156.8 | 152.0 | 142.5 | 142.5 | 142.5 | 140.1 | 140.1 |
| 45° | 133.0 | 130.6 | 133.0 | 133.0 | 144.9 | 137.8 | 135.4 | 133.0 | 135.4 | 133.0 | 135.4 |
| 47.5° | 123.5 | 123.5 | 123.5 | 125.9 | 133.0 | 128.3 | 125.9 | 125.9 | 128.3 | 128.3 | 128.3 |
| 50° | 116.4 | 116.4 | 116.4 | 118.8 | 121.1 | 121.1 | 121.1 | 121.1 | 121.1 | 123.5 | 123.5 |
| 52.5° | 111.6 | 109.3 | 111.6 | 111.6 | 114.0 | 116.4 | 114.0 | 116.4 | 116.4 | 116.4 | 118.8 |
| 55° | 106.9 | 104.5 | 106.9 | 106.9 | 111.6 | 109.3 | 109.3 | 111.6 | 111.6 | 114.0 | 116.4 |
| 57.5° | 99.8 | 97.4 | 102.1 | 102.1 | 106.9 | 106.9 | 104.5 | 106.9 | 106.9 | 109.3 | 109.3 |
| 60° | 92.6 | 92.6 | 95.0 | 95.0 | 99.8 | 102.1 | 102.1 | 102.1 | 102.1 | 102.1 | 102.1 |
| 62.5° | 85.5 | 85.5 | 87.9 | 90.3 | 95.0 | 95.0 | 97.4 | 97.4 | 97.4 | 97.4 | 95.0 |
| 65° | 78.4 | 80.8 | 83.1 | 83.1 | 87.9 | 90.3 | 90.3 | 90.3 | 90.3 | 90.3 | 90.3 |
| 67.5° | 68.9 | 73.6 | 76.0 | 78.4 | 83.1 | 83.1 | 85.5 | 85.5 | 83.1 | 83.1 | 83.1 |
| 70° | 61.8 | 64.1 | 66.5 | 68.9 | 76.0 | 76.0 | 78.4 | 78.4 | 76.0 | 76.0 | 78.4 |
| 72.5° | 52.3 | 54.6 | 57.0 | 61.8 | 68.9 | 68.9 | 71.3 | 71.3 | 68.9 | 68.9 | 68.9 |
| 75° | 45.1 | 45.1 | 47.5 | 52.3 | 61.8 | 61.8 | 61.8 | 64.1 | 61.8 | 61.8 | 59.4 |
| 77.5° | 33.3 | 35.6 | 38.0 | 45.1 | 52.3 | 54.6 | 54.6 | 54.6 | 52.3 | 52.3 | 49.9 |
| 80° | 21.4 | 23.8 | 28.5 | 33.3 | 40.4 | 42.8 | 45.1 | 45.1 | 42.8 | 42.8 | 40.4 |
| 82.5° | 9.5 | 14.3 | 16.6 | 21.4 | 26.1 | 33.3 | 33.3 | 35.6 | 33.3 | 30.9 | 30.9 |
| 85° | 0.0 | 0.0 | 2.4 | 7.1 | 11.9 | 19.0 | 21.4 | 23.8 | 21.4 | 19.0 | 19.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.8 | 4.8 | 4.8 | 2.4 | 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: P438832
 CATALOG NUMBER: IST-SA1F-727-U-SLL

CANDELA DISTRIBUTION (continued):

| | 285° | 295° | 305° | 315° | 325° | 335° | 345° | 355° | 359° | 360° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1836.1 | 1836.1 | 1836.1 | 1836.1 | 1836.1 | 1836.1 | 1836.1 | 1836.1 | 1836.1 | 1836.1 |
| 2.5° | 1591.4 | 1617.5 | 1657.9 | 1681.7 | 1736.3 | 1786.2 | 1838.4 | 1907.3 | 1921.6 | 1924.0 |
| 5° | 1263.6 | 1294.5 | 1370.5 | 1401.4 | 1501.2 | 1581.9 | 1700.7 | 1817.1 | 1847.9 | 1855.1 |
| 7.5° | 964.4 | 988.1 | 1071.2 | 1130.6 | 1239.9 | 1353.9 | 1505.9 | 1643.7 | 1712.6 | 1719.7 |
| 10° | 753.0 | 817.1 | 881.2 | 969.1 | 1064.1 | 1175.7 | 1334.9 | 1510.7 | 1586.7 | 1581.9 |
| 12.5° | 634.2 | 700.7 | 779.1 | 867.0 | 964.4 | 1064.1 | 1209.0 | 1403.8 | 1479.8 | 1498.8 |
| 15° | 508.3 | 589.1 | 674.6 | 764.8 | 878.8 | 976.2 | 1144.9 | 1361.0 | 1453.7 | 1479.8 |
| 17.5° | 394.3 | 458.4 | 541.6 | 657.9 | 769.6 | 907.3 | 1121.1 | 1401.4 | 1505.9 | 1532.0 |
| 20° | 311.2 | 358.7 | 418.0 | 529.7 | 672.2 | 843.2 | 1109.2 | 1477.4 | 1619.9 | 1657.9 |
| 22.5° | 266.0 | 285.0 | 327.8 | 425.2 | 574.8 | 774.3 | 1102.1 | 1584.3 | 1762.4 | 1826.6 |
| 25° | 237.5 | 249.4 | 273.2 | 334.9 | 477.4 | 714.9 | 1114.0 | 1717.3 | 1962.0 | 2014.2 |
| 27.5° | 216.1 | 225.6 | 237.5 | 282.7 | 413.3 | 662.7 | 1135.4 | 1866.9 | 2133.0 | 2209.0 |
| 30° | 197.1 | 204.3 | 220.9 | 251.8 | 361.0 | 610.4 | 1142.5 | 2014.2 | 2285.0 | 2353.9 |
| 32.5° | 182.9 | 192.4 | 206.6 | 232.8 | 330.2 | 574.8 | 1123.5 | 2125.8 | 2425.1 | 2501.1 |
| 35° | 168.6 | 180.5 | 194.8 | 216.1 | 304.0 | 543.9 | 1080.7 | 2218.5 | 2558.1 | 2631.8 |
| 37.5° | 161.5 | 168.6 | 182.9 | 199.5 | 285.0 | 513.1 | 1042.7 | 2311.1 | 2695.9 | 2798.0 |
| 40° | 152.0 | 159.1 | 173.4 | 187.6 | 261.3 | 479.8 | 1016.6 | 2429.9 | 2852.7 | 2945.3 |
| 42.5° | 144.9 | 154.4 | 166.3 | 182.9 | 242.3 | 444.2 | 990.5 | 2524.9 | 2992.8 | 3090.2 |
| 45° | 140.1 | 149.6 | 161.5 | 182.9 | 225.6 | 415.7 | 962.0 | 2608.0 | 3099.7 | 3194.7 |
| 47.5° | 133.0 | 144.9 | 161.5 | 175.8 | 218.5 | 396.7 | 962.0 | 2707.8 | 3197.1 | 3296.8 |
| 50° | 130.6 | 142.5 | 168.6 | 171.0 | 213.8 | 389.5 | 1002.4 | 2821.8 | 3337.2 | 3432.2 |
| 52.5° | 128.3 | 140.1 | 168.6 | 161.5 | 209.0 | 394.3 | 1064.1 | 3028.4 | 3517.7 | 3627.0 |
| 55° | 121.1 | 137.8 | 161.5 | 149.6 | 197.1 | 399.0 | 1133.0 | 3299.2 | 3786.1 | 3888.3 |
| 57.5° | 116.4 | 135.4 | 152.0 | 137.8 | 180.5 | 391.9 | 1225.6 | 3541.5 | 4066.4 | 4137.7 |
| 60° | 109.3 | 133.0 | 133.0 | 128.3 | 161.5 | 370.5 | 1330.1 | 3695.9 | 4173.3 | 4230.3 |
| 62.5° | 104.5 | 130.6 | 118.8 | 118.8 | 147.3 | 337.3 | 1365.8 | 3657.9 | 4068.8 | 4130.6 |
| 65° | 97.4 | 114.0 | 106.9 | 109.3 | 135.4 | 299.3 | 1304.0 | 3420.4 | 3871.7 | 3945.3 |
| 67.5° | 90.3 | 97.4 | 95.0 | 99.8 | 130.6 | 261.3 | 1137.7 | 3137.7 | 3617.5 | 3731.5 |
| 70° | 80.8 | 85.5 | 85.5 | 90.3 | 123.5 | 235.1 | 950.1 | 2774.3 | 3287.3 | 3456.0 |
| 72.5° | 73.6 | 76.0 | 76.0 | 83.1 | 116.4 | 220.9 | 750.6 | 2353.9 | 2757.7 | 2862.2 |
| 75° | 61.8 | 66.5 | 66.5 | 71.3 | 104.5 | 187.6 | 513.1 | 1724.4 | 1928.7 | 2014.2 |
| 77.5° | 54.6 | 54.6 | 57.0 | 59.4 | 83.1 | 125.9 | 301.7 | 1061.7 | 1159.1 | 1204.3 |
| 80° | 42.8 | 45.1 | 42.8 | 42.8 | 52.3 | 83.1 | 163.9 | 622.3 | 705.4 | 681.7 |
| 82.5° | 30.9 | 30.9 | 26.1 | 26.1 | 30.9 | 45.1 | 71.3 | 323.0 | 330.2 | 318.3 |
| 85° | 16.6 | 11.9 | 9.5 | 9.5 | 9.5 | 9.5 | 9.5 | 68.9 | 33.3 | 26.1 |
| 87.5° | 0.0 | 0.0 | 0.0 | 2.4 | 2.4 | 2.4 | 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 |

LM-79-2008: Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Report Prepared for

Cooper Lighting Solutions

McGRAW-EDISON

Report Number: SP1-1908-441-1-R4

Test Date: 08/20/2019

Luminaire Tested: SA1C-727-U-5WQ

Test Information

Test Method: LM-79-2008
 Report Number: SP1-1908-441-1-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-727-U-5WQ**
 Description: McGRAW EDISON ROADWAY AND AREA LUMINAIRE

THIS IS A REVISION OF SP1-1908-441-1-R3. TO UPDATE THE CATALOG NUMBER.TESTED IN
 SITU. (1) 70 CRI, 2700K, 1050MA LIGHTSQUARE WITH 16 LEDS AND TYPE V WIDE OPTICS.

Spectral Parameters

CCT (K): 2741
 CIE u': 0.2605
 CIE v': 0.5272
 Duv: 0.0005
 CIE x: 0.4573
 CIE y: 0.4113
 CIE z: 0.1313
 Peak Wavelength (nm): 602
 Dominant Wavelength (nm): 583
 Purity: 61.2
 Rf: 69.9
 Rg: 98.3

| | | | |
|-----------|------|------|-------|
| CRI (Ra): | 71.5 | | |
| R1: | 69.2 | R9: | -16.1 |
| R2: | 79.4 | R10: | 51.4 |
| R3: | 87.8 | R11: | 63.1 |
| R4: | 69.4 | R12: | 42.0 |
| R5: | 66.4 | R13: | 70.2 |
| R6: | 69.8 | R14: | 92.4 |
| R7: | 79.8 | | |
| R8: | 50.1 | | |



Test Conditions

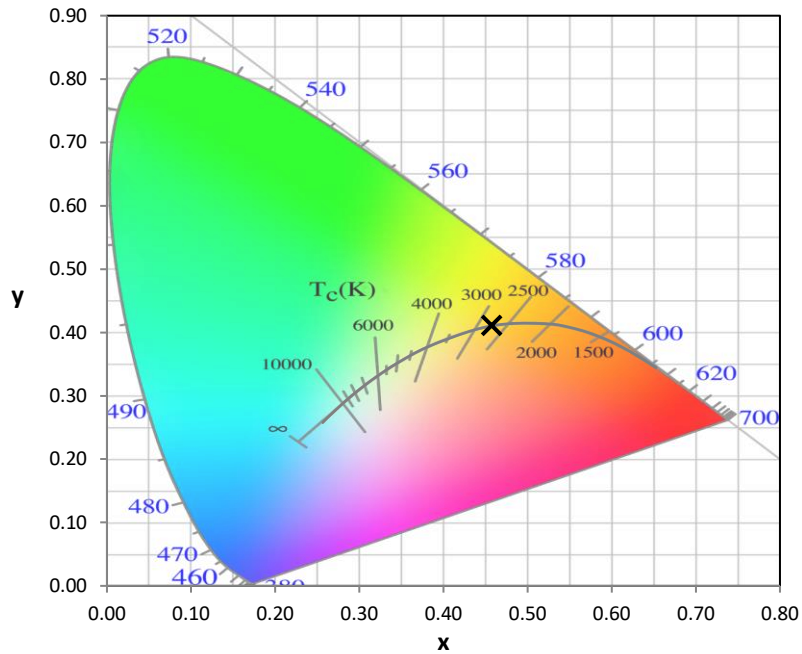
Stabilization Time: 56M
 Operation Time: 12H
 Room Temperature (°C) / RH%: 25.3./42%
 Sphere Temperature (°C): 25.7

REPORT NUMBER: SP1-1908-441-1-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: SP1-1908-441-1-R4

CIE 1931 Chromaticity Diagram



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



Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-1908-441-1-R4

Photopic Flux vs. Wavelength



Photopic Lumens: 6211.7

| λ (nm) | Power ($\mu\text{W}/\text{nm}$) | Lumens (ϕ/nm) | λ (nm) | Power ($\mu\text{W}/\text{nm}$) | Lumens (ϕ/nm) | λ (nm) | Power ($\mu\text{W}/\text{nm}$) | Lumens (ϕ/nm) | λ (nm) | Power ($\mu\text{W}/\text{nm}$) | Lumens (ϕ/nm) | λ (nm) | Power ($\mu\text{W}/\text{nm}$) | Lumens (ϕ/nm) |
|----------------|-----------------------------------|-----------------------------|----------------|-----------------------------------|-----------------------------|----------------|-----------------------------------|-----------------------------|----------------|-----------------------------------|-----------------------------|----------------|-----------------------------------|-----------------------------|
| 360 | 2044 | 0.0 | 490 | 7179 | 1.0 | 620 | 118034 | 30.7 | 750 | 8362 | 0.0 | 880 | 3128 | 0.0 |
| 365 | 2016 | 0.0 | 495 | 10476 | 1.9 | 625 | 111884 | 24.7 | 755 | 7635 | 0.0 | 885 | 3110 | 0.0 |
| 370 | 2020 | 0.0 | 500 | 15549 | 3.4 | 630 | 106119 | 19.2 | 760 | 6582 | 0.0 | 890 | 2632 | 0.0 |
| 375 | 2137 | 0.0 | 505 | 22477 | 6.3 | 635 | 99706 | 15.0 | 765 | 5777 | 0.0 | 895 | 2709 | 0.0 |
| 380 | 2046 | 0.0 | 510 | 30417 | 10.4 | 640 | 92142 | 11.0 | 770 | 5474 | 0.0 | 900 | 2016 | 0.0 |
| 385 | 1925 | 0.0 | 515 | 39274 | 16.3 | 645 | 84987 | 8.2 | 775 | 4977 | 0.0 | 905 | 1748 | 0.0 |
| 390 | 1893 | 0.0 | 520 | 47282 | 22.9 | 650 | 78016 | 5.7 | 780 | 4723 | 0.0 | 910 | 2046 | 0.0 |
| 395 | 1695 | 0.0 | 525 | 55413 | 29.7 | 655 | 71541 | 4.1 | 785 | 4219 | 0.0 | 915 | 1844 | 0.0 |
| 400 | 1633 | 0.0 | 530 | 62377 | 36.7 | 660 | 64863 | 2.7 | 790 | 3969 | 0.0 | 920 | 2734 | 0.0 |
| 405 | 2065 | 0.0 | 535 | 68520 | 42.5 | 665 | 58485 | 1.9 | 795 | 4122 | 0.0 | 925 | 2307 | 0.0 |
| 410 | 3449 | 0.0 | 540 | 73435 | 47.8 | 670 | 51641 | 1.1 | 800 | 2864 | 0.0 | 930 | 2039 | 0.0 |
| 415 | 7117 | 0.0 | 545 | 78677 | 52.4 | 675 | 46030 | 0.8 | 805 | 3151 | 0.0 | 935 | 1784 | 0.0 |
| 420 | 13992 | 0.0 | 550 | 83331 | 56.6 | 680 | 40590 | 0.5 | 810 | 3022 | 0.0 | 940 | 2464 | 0.0 |
| 425 | 25176 | 0.1 | 555 | 89120 | 60.9 | 685 | 35691 | 0.3 | 815 | 3471 | 0.0 | 945 | 2794 | 0.0 |
| 430 | 38151 | 0.3 | 560 | 94613 | 64.3 | 690 | 31631 | 0.2 | 820 | 2749 | 0.0 | 950 | 3090 | 0.0 |
| 435 | 49673 | 0.6 | 565 | 99818 | 66.4 | 695 | 27437 | 0.1 | 825 | 2729 | 0.0 | 955 | 1866 | 0.0 |
| 440 | 57273 | 0.9 | 570 | 106526 | 69.3 | 700 | 24589 | 0.1 | 830 | 2282 | 0.0 | 960 | 3110 | 0.0 |
| 445 | 54802 | 1.1 | 575 | 111610 | 69.4 | 705 | 21832 | 0.0 | 835 | 3140 | 0.0 | 965 | 3880 | 0.0 |
| 450 | 39184 | 1.0 | 580 | 117163 | 69.6 | 710 | 19500 | 0.0 | 840 | 2365 | 0.0 | 970 | 3243 | 0.0 |
| 455 | 22506 | 0.8 | 585 | 122201 | 67.9 | 715 | 17870 | 0.0 | 845 | 3024 | 0.0 | 975 | 2014 | 0.0 |
| 460 | 13692 | 0.6 | 590 | 125662 | 65.0 | 720 | 15924 | 0.0 | 850 | 2510 | 0.0 | 980 | 1688 | 0.0 |
| 465 | 9446 | 0.5 | 595 | 127415 | 60.4 | 725 | 14268 | 0.0 | 855 | 2739 | 0.0 | 985 | 2827 | 0.0 |
| 470 | 6698 | 0.4 | 600 | 129155 | 55.7 | 730 | 12438 | 0.0 | 860 | 3515 | 0.0 | 990 | 4172 | 0.0 |
| 475 | 5328 | 0.4 | 605 | 128057 | 49.6 | 735 | 11255 | 0.0 | 865 | 3600 | 0.0 | 995 | 3177 | 0.0 |
| 480 | 5081 | 0.5 | 610 | 126031 | 43.3 | 740 | 9951 | 0.0 | 870 | 3609 | 0.0 | 1000 | 3241 | 0.0 |
| 485 | 5579 | 0.7 | 615 | 123059 | 37.1 | 745 | 8870 | 0.0 | 875 | 3208 | 0.0 | | | |

REPORT NUMBER: SP1-1908-441-1-R4

Scotopic Flux vs. Wavelength



Scotopic Lumens: 6474.3

S/P: 1.04

| 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 | 2044 | 0.0 | 490 | 7179 | 6.0 | 620 | 118034 | 0.1 | 750 | 8362 | 0.0 | 880 | 3128 | 0.0 |
| 365 | 2016 | 0.0 | 495 | 10476 | 8.6 | 625 | 111884 | 0.1 | 755 | 7635 | 0.0 | 885 | 3110 | 0.0 |
| 370 | 2020 | 0.0 | 500 | 15549 | 12.5 | 630 | 106119 | 0.0 | 760 | 6582 | 0.0 | 890 | 2632 | 0.0 |
| 375 | 2137 | 0.0 | 505 | 22477 | 17.3 | 635 | 99706 | 0.0 | 765 | 5777 | 0.0 | 895 | 2709 | 0.0 |
| 380 | 2046 | 0.0 | 510 | 30417 | 21.8 | 640 | 92142 | 0.0 | 770 | 5474 | 0.0 | 900 | 2016 | 0.0 |
| 385 | 1925 | 0.0 | 515 | 39274 | 25.7 | 645 | 84987 | 0.0 | 775 | 4977 | 0.0 | 905 | 1748 | 0.0 |
| 390 | 1893 | 0.0 | 520 | 47282 | 27.5 | 650 | 78016 | 0.0 | 780 | 4723 | 0.0 | 910 | 2046 | 0.0 |
| 395 | 1695 | 0.0 | 525 | 55413 | 28.1 | 655 | 71541 | 0.0 | 785 | 4219 | 0.0 | 915 | 1844 | 0.0 |
| 400 | 1633 | 0.0 | 530 | 62377 | 27.0 | 660 | 64863 | 0.0 | 790 | 3969 | 0.0 | 920 | 2734 | 0.0 |
| 405 | 2065 | 0.0 | 535 | 68520 | 24.7 | 665 | 58485 | 0.0 | 795 | 4122 | 0.0 | 925 | 2307 | 0.0 |
| 410 | 3449 | 0.1 | 540 | 73435 | 21.5 | 670 | 51641 | 0.0 | 800 | 2864 | 0.0 | 930 | 2039 | 0.0 |
| 415 | 7117 | 0.5 | 545 | 78677 | 18.3 | 675 | 46030 | 0.0 | 805 | 3151 | 0.0 | 935 | 1784 | 0.0 |
| 420 | 13992 | 1.6 | 550 | 83331 | 15.0 | 680 | 40590 | 0.0 | 810 | 3022 | 0.0 | 940 | 2464 | 0.0 |
| 425 | 25176 | 3.9 | 555 | 89120 | 12.0 | 685 | 35691 | 0.0 | 815 | 3471 | 0.0 | 945 | 2794 | 0.0 |
| 430 | 38151 | 8.1 | 560 | 94613 | 9.3 | 690 | 31631 | 0.0 | 820 | 2749 | 0.0 | 950 | 3090 | 0.0 |
| 435 | 49673 | 13.3 | 565 | 99818 | 7.0 | 695 | 27437 | 0.0 | 825 | 2729 | 0.0 | 955 | 1866 | 0.0 |
| 440 | 57273 | 19.1 | 570 | 106526 | 5.2 | 700 | 24589 | 0.0 | 830 | 2282 | 0.0 | 960 | 3110 | 0.0 |
| 445 | 54802 | 21.6 | 575 | 111610 | 3.7 | 705 | 21832 | 0.0 | 835 | 3140 | 0.0 | 965 | 3880 | 0.0 |
| 450 | 39184 | 18.1 | 580 | 117163 | 2.6 | 710 | 19500 | 0.0 | 840 | 2365 | 0.0 | 970 | 3243 | 0.0 |
| 455 | 22506 | 11.8 | 585 | 122201 | 1.8 | 715 | 17870 | 0.0 | 845 | 3024 | 0.0 | 975 | 2014 | 0.0 |
| 460 | 13692 | 8.1 | 590 | 125662 | 1.2 | 720 | 15924 | 0.0 | 850 | 2510 | 0.0 | 980 | 1688 | 0.0 |
| 465 | 9446 | 6.2 | 595 | 127415 | 0.8 | 725 | 14268 | 0.0 | 855 | 2739 | 0.0 | 985 | 2827 | 0.0 |
| 470 | 6698 | 4.8 | 600 | 129155 | 0.5 | 730 | 12438 | 0.0 | 860 | 3515 | 0.0 | 990 | 4172 | 0.0 |
| 475 | 5328 | 4.1 | 605 | 128057 | 0.4 | 735 | 11255 | 0.0 | 865 | 3600 | 0.0 | 995 | 3177 | 0.0 |
| 480 | 5081 | 4.1 | 610 | 126031 | 0.2 | 740 | 9951 | 0.0 | 870 | 3609 | 0.0 | 1000 | 3241 | 0.0 |
| 485 | 5579 | 4.6 | 615 | 123059 | 0.1 | 745 | 8870 | 0.0 | 875 | 3208 | 0.0 | | | |

REPORT NUMBER: SP1-1908-441-1-R4

Melanopic Flux vs. Wavelength



Melanopic Lumens: 2145.7 M/P: 0.35

| λ (nm) | Power ($\mu\text{W}/\text{nm}$) | Lumens (ϕ/nm) | λ (nm) | Power ($\mu\text{W}/\text{nm}$) | Lumens (ϕ/nm) | λ (nm) | Power ($\mu\text{W}/\text{nm}$) | Lumens (ϕ/nm) | λ (nm) | Power ($\mu\text{W}/\text{nm}$) | Lumens (ϕ/nm) | λ (nm) | Power ($\mu\text{W}/\text{nm}$) | Lumens (ϕ/nm) |
|----------------|-----------------------------------|-----------------------------|----------------|-----------------------------------|-----------------------------|----------------|-----------------------------------|-----------------------------|----------------|-----------------------------------|-----------------------------|----------------|-----------------------------------|-----------------------------|
| 360 | 2044 | 0.0 | 490 | 7179 | 11.1 | 620 | 118034 | 1.5 | 750 | 8362 | 0.0 | 880 | 3128 | 0.0 |
| 365 | 2016 | 0.0 | 495 | 10476 | 16.9 | 625 | 111884 | 0.9 | 755 | 7635 | 0.0 | 885 | 3110 | 0.0 |
| 370 | 2020 | 0.0 | 500 | 15549 | 26.0 | 630 | 106119 | 0.6 | 760 | 6582 | 0.0 | 890 | 2632 | 0.0 |
| 375 | 2137 | 0.0 | 505 | 22477 | 38.2 | 635 | 99706 | 0.4 | 765 | 5777 | 0.0 | 895 | 2709 | 0.0 |
| 380 | 2046 | 0.0 | 510 | 30417 | 51.6 | 640 | 92142 | 0.2 | 770 | 5474 | 0.0 | 900 | 2016 | 0.0 |
| 385 | 1925 | 0.0 | 515 | 39274 | 65.1 | 645 | 84987 | 0.1 | 775 | 4977 | 0.0 | 905 | 1748 | 0.0 |
| 390 | 1893 | 0.0 | 520 | 47282 | 75.2 | 650 | 78016 | 0.1 | 780 | 4723 | 0.0 | 910 | 2046 | 0.0 |
| 395 | 1695 | 0.0 | 525 | 55413 | 82.9 | 655 | 71541 | 0.1 | 785 | 4219 | 0.0 | 915 | 1844 | 0.0 |
| 400 | 1633 | 0.0 | 530 | 62377 | 86.0 | 660 | 64863 | 0.0 | 790 | 3969 | 0.0 | 920 | 2734 | 0.0 |
| 405 | 2065 | 0.1 | 535 | 68520 | 85.4 | 665 | 58485 | 0.0 | 795 | 4122 | 0.0 | 925 | 2307 | 0.0 |
| 410 | 3449 | 0.2 | 540 | 73435 | 81.1 | 670 | 51641 | 0.0 | 800 | 2864 | 0.0 | 930 | 2039 | 0.0 |
| 415 | 7117 | 0.7 | 545 | 78677 | 75.4 | 675 | 46030 | 0.0 | 805 | 3151 | 0.0 | 935 | 1784 | 0.0 |
| 420 | 13992 | 2.3 | 550 | 83331 | 68.1 | 680 | 40590 | 0.0 | 810 | 3022 | 0.0 | 940 | 2464 | 0.0 |
| 425 | 25176 | 6.2 | 555 | 89120 | 60.9 | 685 | 35691 | 0.0 | 815 | 3471 | 0.0 | 945 | 2794 | 0.0 |
| 430 | 38151 | 13.0 | 560 | 94613 | 52.9 | 690 | 31631 | 0.0 | 820 | 2749 | 0.0 | 950 | 3090 | 0.0 |
| 435 | 49673 | 22.2 | 565 | 99818 | 44.8 | 695 | 27437 | 0.0 | 825 | 2729 | 0.0 | 955 | 1866 | 0.0 |
| 440 | 57273 | 32.0 | 570 | 106526 | 37.6 | 700 | 24589 | 0.0 | 830 | 2282 | 0.0 | 960 | 3110 | 0.0 |
| 445 | 54802 | 36.7 | 575 | 111610 | 30.4 | 705 | 21832 | 0.0 | 835 | 3140 | 0.0 | 965 | 3880 | 0.0 |
| 450 | 39184 | 30.4 | 580 | 117163 | 24.1 | 710 | 19500 | 0.0 | 840 | 2365 | 0.0 | 970 | 3243 | 0.0 |
| 455 | 22506 | 19.7 | 585 | 122201 | 18.7 | 715 | 17870 | 0.0 | 845 | 3024 | 0.0 | 975 | 2014 | 0.0 |
| 460 | 13692 | 13.2 | 590 | 125662 | 14.0 | 720 | 15924 | 0.0 | 850 | 2510 | 0.0 | 980 | 1688 | 0.0 |
| 465 | 9446 | 10.0 | 595 | 127415 | 10.2 | 725 | 14268 | 0.0 | 855 | 2739 | 0.0 | 985 | 2827 | 0.0 |
| 470 | 6698 | 7.7 | 600 | 129155 | 7.3 | 730 | 12438 | 0.0 | 860 | 3515 | 0.0 | 990 | 4172 | 0.0 |
| 475 | 5328 | 6.7 | 605 | 128057 | 5.0 | 735 | 11255 | 0.0 | 865 | 3600 | 0.0 | 995 | 3177 | 0.0 |
| 480 | 5081 | 6.9 | 610 | 126031 | 3.4 | 740 | 9951 | 0.0 | 870 | 3609 | 0.0 | 1000 | 3241 | 0.0 |
| 485 | 5579 | 8.1 | 615 | 123059 | 2.3 | 745 | 8870 | 0.0 | 875 | 3208 | 0.0 | | | |

REPORT NUMBER: SP1-1908-441-1-R4

TM-30-18

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

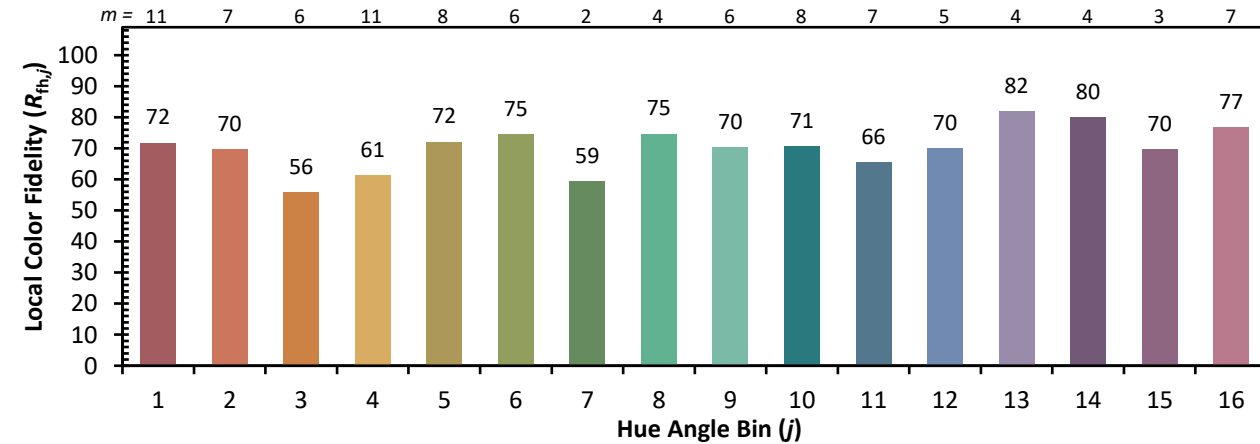
| | | | |
|------------|------------|------------|------------|
| CES01 = 86 | CES26 = 54 | CES51 = 77 | CES76 = 48 |
| CES02 = 63 | CES27 = 74 | CES52 = 80 | CES77 = 75 |
| CES03 = 31 | CES28 = 80 | CES53 = 66 | CES78 = 56 |
| CES04 = 71 | CES29 = 44 | CES54 = 77 | CES79 = 81 |
| CES05 = 50 | CES30 = 46 | CES55 = 74 | CES80 = 80 |
| CES06 = 52 | CES31 = 50 | CES56 = 63 | CES81 = 73 |
| CES07 = 42 | CES32 = 49 | CES57 = 60 | CES82 = 91 |
| CES08 = 41 | CES33 = 53 | CES58 = 63 | CES83 = 84 |
| CES09 = 29 | CES34 = 66 | CES59 = 85 | CES84 = 90 |
| CES10 = 77 | CES35 = 82 | CES60 = 89 | CES85 = 87 |
| CES11 = 60 | CES36 = 78 | CES61 = 85 | CES86 = 65 |
| CES12 = 66 | CES37 = 75 | CES62 = 69 | CES87 = 78 |
| CES13 = 43 | CES38 = 53 | CES63 = 68 | CES88 = 73 |
| CES14 = 74 | CES39 = 91 | CES64 = 68 | CES89 = 68 |
| CES15 = 71 | CES40 = 85 | CES65 = 65 | CES90 = 68 |
| CES16 = 48 | CES41 = 76 | CES66 = 62 | CES91 = 91 |
| CES17 = 50 | CES42 = 76 | CES67 = 60 | CES92 = 71 |
| CES18 = 57 | CES43 = 65 | CES68 = 68 | CES93 = 82 |
| CES19 = 73 | CES44 = 98 | CES69 = 77 | CES94 = 57 |
| CES20 = 67 | CES45 = 75 | CES70 = 60 | CES95 = 78 |
| CES21 = 88 | CES46 = 70 | CES71 = 57 | CES96 = 80 |
| CES22 = 80 | CES47 = 63 | CES72 = 86 | CES97 = 79 |
| CES23 = 92 | CES48 = 51 | CES73 = 52 | CES98 = 71 |
| CES24 = 91 | CES49 = 68 | CES74 = 90 | CES99 = 64 |
| CES25 = 73 | CES50 = 77 | CES75 = 58 | |



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Color Rendition by Hue-Angle Bin



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Measure Comparisons



(END OF REPORT)