

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: P437197

Luminaire Tested: **ISS-SA1B-750-U-SLL-HSS**

Issue Date: 12/9/2020

Test Information

Test Method: LM-79-08
Report Number: P437197
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-074-21)
Test Lab: INNOVATION CENTER
Issue Date: 12/9/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: ISS-SA1B-750-U-SLL-HSS
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 70 CRI, 5000K, 450mA 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: 2588 lumens
Efficiency: N/A
Efficacy: 101.9 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

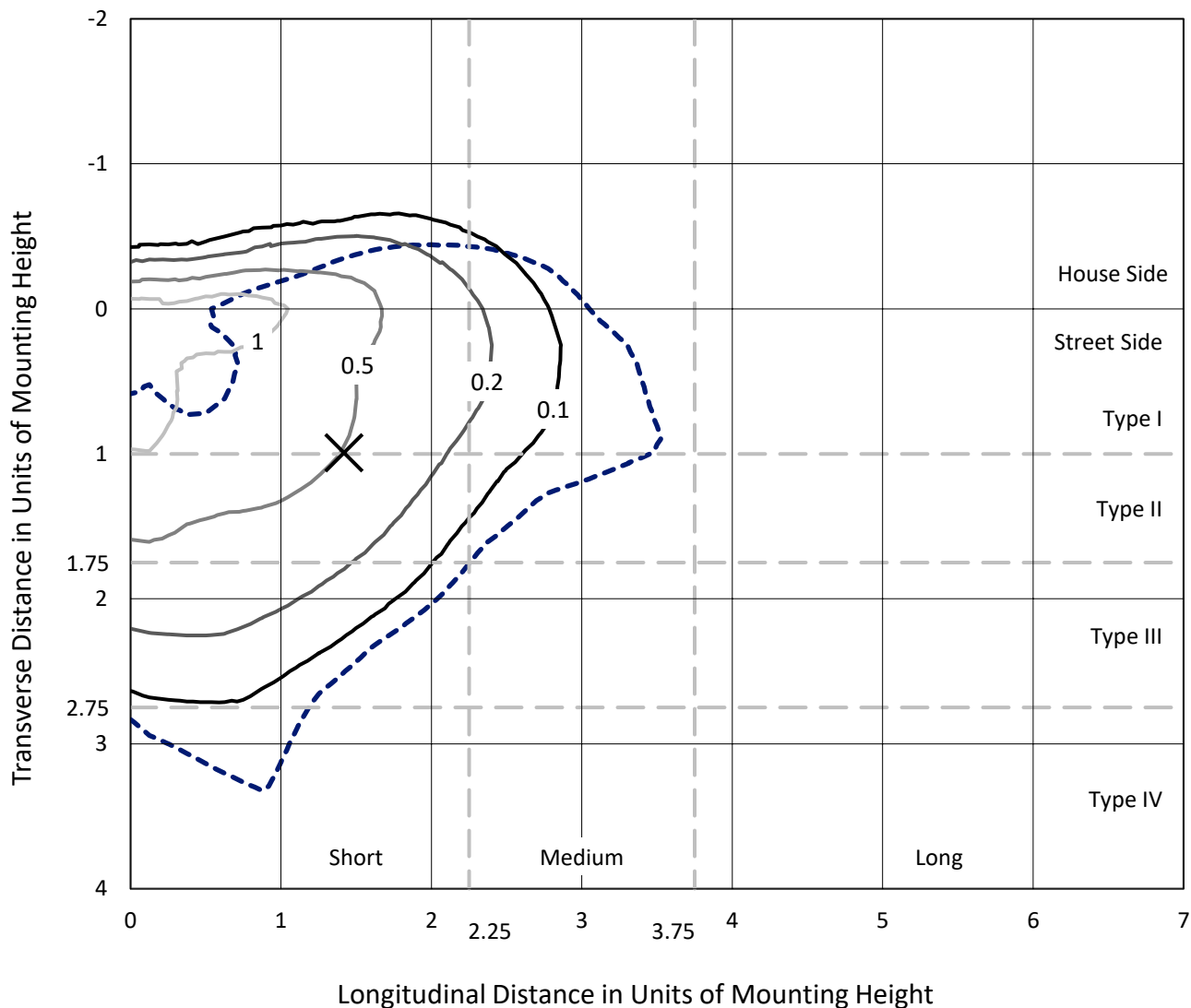
Input Watts (W): 25.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

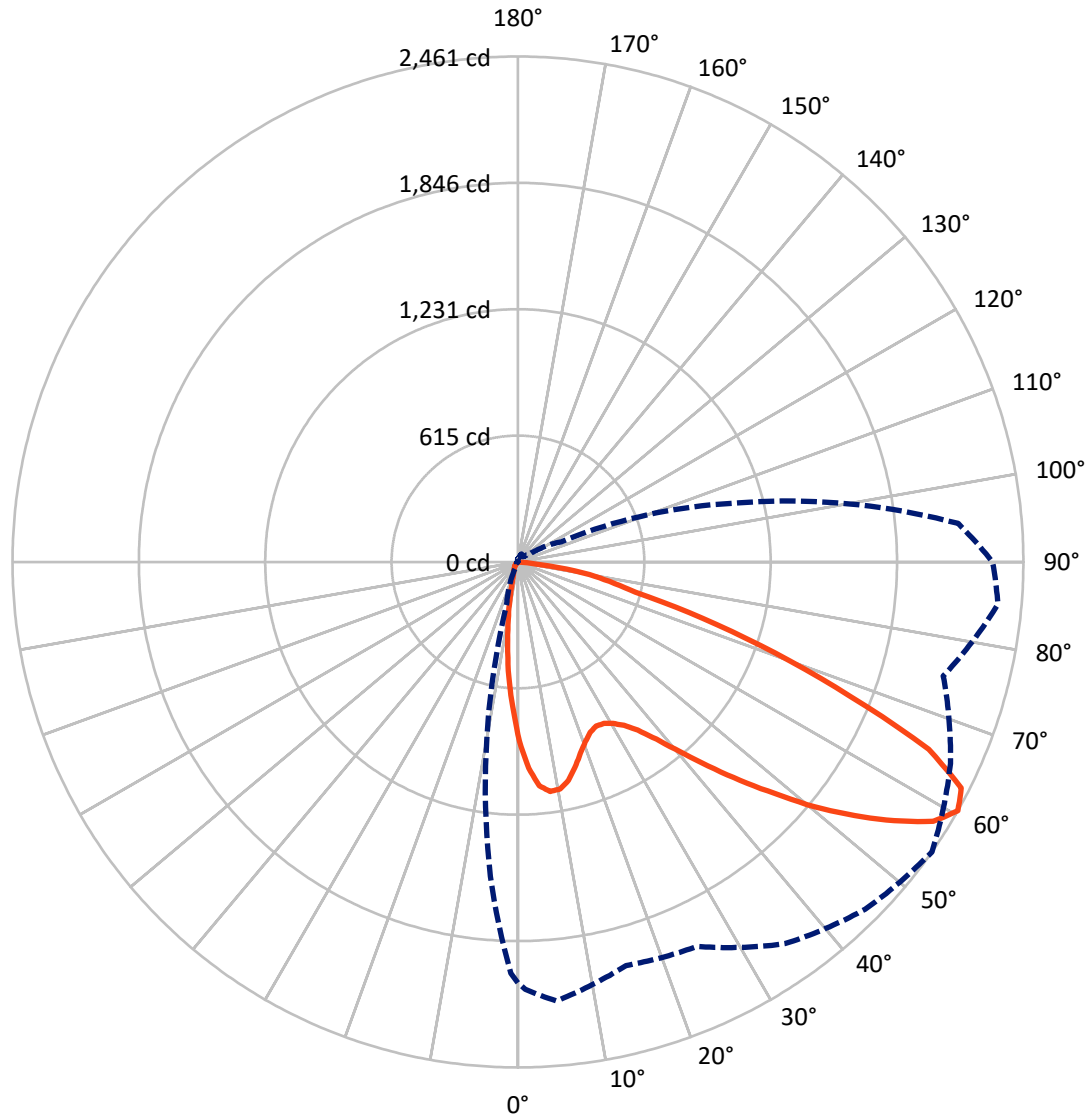
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 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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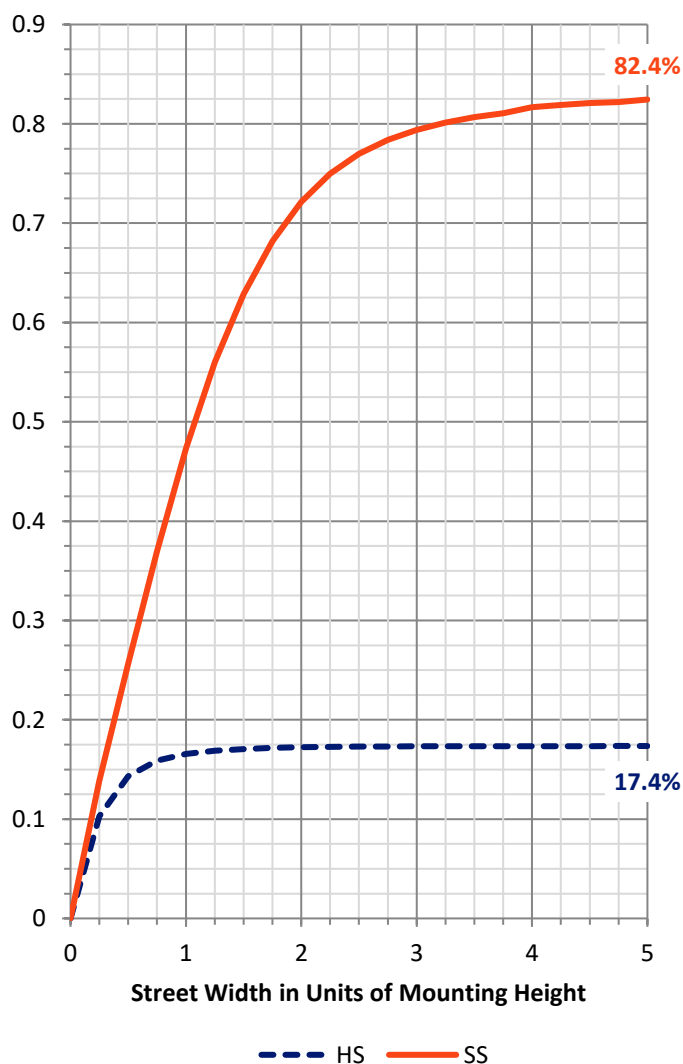
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 453.3 | 0.0 | 453.3 |
| | % Fixture | 17.5 | 0.0 | 17.5 |
| Street Side | Lumens | 2134.6 | 0.0 | 2134.6 |
| | % Fixture | 82.5 | 0.0 | 82.5 |
| Total | Lumens | 2588.0 | 0.0 | 2588.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 65.1 | 2.5 |
| 10°-20° | 127.4 | 4.9 |
| 20°-30° | 187.4 | 7.2 |
| 30°-40° | 280.2 | 10.8 |
| 40°-50° | 414.5 | 16.0 |
| 50°-60° | 595.8 | 23.0 |
| 60°-70° | 638.7 | 24.7 |
| 70°-80° | 258.0 | 10.0 |
| 80°-90° | 20.9 | 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° | 2588.0 | 100.0 |
| 0°-180° | 2588.0 | 100.0 |

Coefficient of Utilization

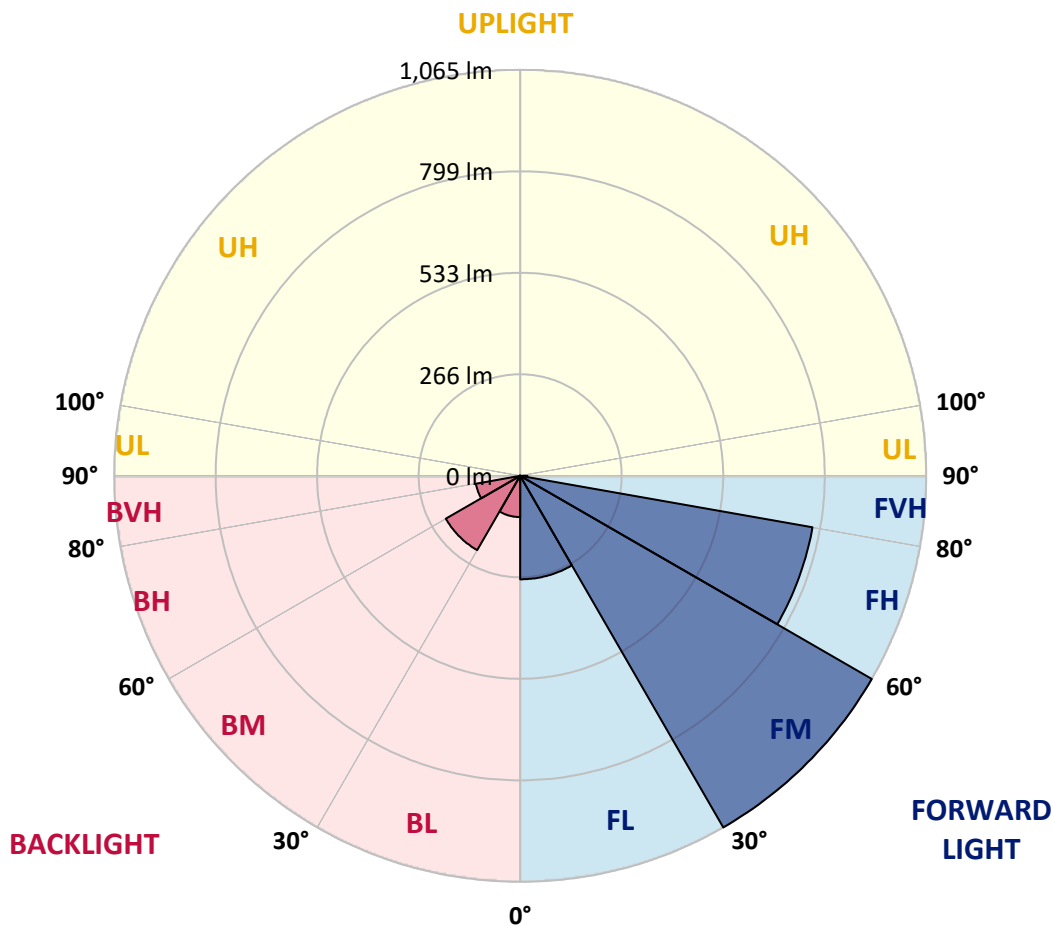


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 271.6 | 10.5 | | | |
| FM (30°-60°) | 1065.3 | 41.2 | | | |
| FH (60°-80°) | 778.8 | 30.1 | | | G1/1800 |
| FVH (80°-90°) | 19.0 | 0.7 | | | G1/100 |
| BL (0°-30°) | 108.3 | 4.2 | B0/110 | | |
| BM (30°-60°) | 225.2 | 8.7 | B1/1000 | | |
| BH (60°-80°) | 117.9 | 4.6 | B1/500 | | G1/500 |
| BVH (80°-90°) | 1.9 | 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° | 873.2 | 873.2 | 873.2 | 873.2 | 873.2 | 873.2 | 873.2 | 873.2 | 873.2 | 873.2 | 873.2 |
| 2.5° | 938.2 | 938.2 | 945.7 | 968.2 | 993.1 | 1005.6 | 1019.4 | 1005.6 | 1003.1 | 983.2 | 968.2 |
| 5° | 909.5 | 915.7 | 939.4 | 999.4 | 1063.1 | 1095.6 | 1113.1 | 1094.3 | 1060.6 | 1016.9 | 961.9 |
| 7.5° | 844.5 | 852.0 | 879.5 | 976.9 | 1064.4 | 1129.3 | 1160.5 | 1128.1 | 1070.6 | 990.7 | 910.7 |
| 10° | 774.5 | 788.3 | 824.5 | 935.7 | 1036.9 | 1114.3 | 1158.0 | 1124.3 | 1053.1 | 950.7 | 852.0 |
| 12.5° | 728.3 | 738.3 | 787.0 | 898.2 | 1006.9 | 1075.6 | 1099.3 | 1091.8 | 1026.9 | 931.9 | 828.2 |
| 15° | 720.8 | 733.3 | 784.5 | 895.7 | 978.2 | 1019.4 | 1028.1 | 1038.1 | 1015.6 | 934.4 | 835.7 |
| 17.5° | 753.3 | 767.0 | 824.5 | 914.4 | 951.9 | 951.9 | 960.7 | 980.7 | 1001.9 | 959.4 | 880.7 |
| 20° | 819.5 | 838.2 | 902.0 | 963.2 | 938.2 | 908.2 | 909.5 | 935.7 | 993.1 | 1015.6 | 960.7 |
| 22.5° | 908.2 | 933.2 | 1010.6 | 1039.4 | 953.2 | 884.5 | 878.2 | 900.7 | 994.4 | 1073.1 | 1070.6 |
| 25° | 1025.6 | 1055.6 | 1130.6 | 1129.3 | 989.4 | 874.5 | 868.2 | 884.5 | 1005.6 | 1135.6 | 1166.8 |
| 27.5° | 1131.8 | 1156.8 | 1231.8 | 1200.5 | 1025.6 | 887.0 | 873.2 | 890.7 | 1014.4 | 1181.8 | 1253.0 |
| 30° | 1221.8 | 1243.0 | 1309.2 | 1251.7 | 1056.9 | 908.2 | 884.5 | 911.9 | 1033.1 | 1206.8 | 1330.4 |
| 32.5° | 1290.5 | 1321.7 | 1382.9 | 1291.7 | 1094.3 | 935.7 | 910.7 | 948.2 | 1064.4 | 1239.3 | 1397.9 |
| 35° | 1382.9 | 1399.2 | 1471.6 | 1331.7 | 1144.3 | 994.4 | 954.4 | 1004.4 | 1115.6 | 1281.7 | 1472.9 |
| 37.5° | 1462.9 | 1505.3 | 1552.8 | 1372.9 | 1205.5 | 1066.9 | 1023.1 | 1094.3 | 1185.5 | 1330.4 | 1560.3 |
| 40° | 1557.8 | 1606.5 | 1657.7 | 1431.6 | 1261.7 | 1161.8 | 1143.1 | 1213.0 | 1290.5 | 1401.7 | 1646.5 |
| 42.5° | 1645.3 | 1690.2 | 1725.2 | 1500.3 | 1330.4 | 1269.2 | 1283.0 | 1356.7 | 1397.9 | 1475.4 | 1720.2 |
| 45° | 1715.2 | 1755.2 | 1807.7 | 1547.8 | 1406.6 | 1389.2 | 1459.1 | 1516.6 | 1504.1 | 1539.1 | 1786.4 |
| 47.5° | 1787.7 | 1836.4 | 1857.6 | 1597.8 | 1505.3 | 1546.6 | 1671.5 | 1684.0 | 1615.3 | 1597.8 | 1843.9 |
| 50° | 1837.6 | 1873.9 | 1887.6 | 1659.0 | 1626.5 | 1753.9 | 1853.9 | 1875.1 | 1736.5 | 1644.0 | 1918.8 |
| 52.5° | 1898.9 | 1933.8 | 1950.1 | 1731.5 | 1756.4 | 1940.1 | 2056.3 | 2051.3 | 1853.9 | 1720.2 | 1992.5 |
| 55° | 2007.5 | 2040.0 | 2056.3 | 1820.1 | 1848.9 | 2100.0 | 2228.7 | 2223.7 | 1993.8 | 1830.1 | 2102.5 |
| 57.5° | 2085.0 | 2112.5 | 2138.7 | 1920.1 | 1963.8 | 2202.4 | 2346.1 | 2383.6 | 2162.4 | 1968.8 | 2222.4 |
| 60° | 2050.0 | 2081.2 | 2145.0 | 2033.8 | 2065.0 | 2268.6 | 2391.1 | 2461.0 | 2323.6 | 2143.7 | 2346.1 |
| 62.5° | 1951.3 | 1997.5 | 2063.8 | 2123.7 | 2143.7 | 2279.9 | 2328.6 | 2422.3 | 2409.8 | 2319.8 | 2402.3 |
| 65° | 1826.4 | 1873.9 | 1937.6 | 2136.2 | 2126.2 | 2112.5 | 2141.2 | 2197.4 | 2284.9 | 2404.8 | 2374.8 |
| 67.5° | 1601.5 | 1670.2 | 1750.2 | 1990.0 | 1848.9 | 1770.2 | 1777.7 | 1746.4 | 1922.6 | 2282.4 | 2234.9 |
| 70° | 1304.2 | 1374.2 | 1460.4 | 1687.7 | 1425.4 | 1321.7 | 1347.9 | 1327.9 | 1466.6 | 1958.8 | 1915.1 |
| 72.5° | 918.2 | 993.1 | 1099.3 | 1406.6 | 993.1 | 825.8 | 888.2 | 940.7 | 1105.6 | 1571.6 | 1406.6 |
| 75° | 608.4 | 662.1 | 738.3 | 1059.4 | 708.3 | 554.7 | 568.4 | 589.6 | 739.6 | 1188.0 | 888.2 |
| 77.5° | 314.8 | 368.5 | 402.3 | 567.2 | 438.5 | 437.2 | 427.2 | 454.7 | 462.2 | 713.3 | 463.5 |
| 80° | 176.1 | 193.6 | 211.1 | 276.1 | 219.9 | 259.8 | 268.6 | 328.6 | 304.8 | 357.3 | 193.6 |
| 82.5° | 86.2 | 108.7 | 118.7 | 169.9 | 141.2 | 103.7 | 51.2 | 107.4 | 181.1 | 193.6 | 89.9 |
| 85° | 1.2 | 2.5 | 6.2 | 13.7 | 3.7 | 3.7 | 0.0 | 3.7 | 18.7 | 23.7 | 31.2 |
| 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° | 873.2 | 873.2 | 873.2 | 873.2 | 873.2 | 873.2 | 873.2 | 873.2 | 873.2 | 873.2 | 873.2 |
| 2.5° | 951.9 | 941.9 | 913.2 | 888.2 | 849.5 | 833.2 | 807.0 | 800.8 | 779.5 | 758.3 | 745.8 |
| 5° | 934.4 | 905.7 | 847.0 | 789.5 | 737.1 | 688.3 | 652.1 | 622.1 | 588.4 | 574.7 | 583.4 |
| 7.5° | 864.5 | 824.5 | 739.6 | 672.1 | 597.1 | 540.9 | 489.7 | 463.5 | 432.2 | 419.7 | 411.0 |
| 10° | 807.0 | 758.3 | 660.9 | 572.2 | 500.9 | 457.2 | 426.0 | 388.5 | 352.3 | 323.6 | 319.8 |
| 12.5° | 770.8 | 718.3 | 609.6 | 515.9 | 463.5 | 421.0 | 384.8 | 336.0 | 294.8 | 267.3 | 254.8 |
| 15° | 769.5 | 704.6 | 593.4 | 494.7 | 433.5 | 379.8 | 333.5 | 278.6 | 236.1 | 201.1 | 188.6 |
| 17.5° | 814.5 | 735.8 | 600.9 | 472.2 | 391.0 | 321.1 | 261.1 | 203.6 | 162.4 | 138.7 | 126.2 |
| 20° | 893.2 | 807.0 | 614.6 | 449.7 | 349.8 | 261.1 | 183.6 | 138.7 | 111.2 | 99.9 | 94.9 |
| 22.5° | 988.2 | 885.7 | 639.6 | 432.2 | 307.3 | 197.4 | 129.9 | 99.9 | 87.4 | 80.0 | 78.7 |
| 25° | 1103.1 | 985.7 | 674.6 | 419.7 | 268.6 | 152.4 | 101.2 | 82.5 | 75.0 | 70.0 | 67.5 |
| 27.5° | 1204.3 | 1081.8 | 727.1 | 409.8 | 231.1 | 124.9 | 86.2 | 72.5 | 65.0 | 61.2 | 60.0 |
| 30° | 1279.2 | 1160.5 | 787.0 | 387.3 | 201.1 | 108.7 | 81.2 | 68.7 | 60.0 | 55.0 | 53.7 |
| 32.5° | 1365.4 | 1220.5 | 815.8 | 364.8 | 183.6 | 96.2 | 71.2 | 61.2 | 55.0 | 50.0 | 48.7 |
| 35° | 1460.4 | 1304.2 | 844.5 | 347.3 | 172.4 | 86.2 | 65.0 | 53.7 | 46.2 | 41.2 | 40.0 |
| 37.5° | 1570.3 | 1396.7 | 870.7 | 332.3 | 166.1 | 80.0 | 61.2 | 50.0 | 42.5 | 37.5 | 35.0 |
| 40° | 1692.7 | 1469.1 | 888.2 | 322.3 | 157.4 | 76.2 | 58.7 | 47.5 | 40.0 | 33.7 | 32.5 |
| 42.5° | 1790.2 | 1552.8 | 893.2 | 318.6 | 148.7 | 75.0 | 56.2 | 46.2 | 37.5 | 32.5 | 30.0 |
| 45° | 1860.1 | 1626.5 | 910.7 | 314.8 | 142.4 | 70.0 | 55.0 | 45.0 | 35.0 | 30.0 | 27.5 |
| 47.5° | 1911.3 | 1705.2 | 926.9 | 311.1 | 136.2 | 63.7 | 58.7 | 45.0 | 33.7 | 27.5 | 25.0 |
| 50° | 2006.3 | 1797.7 | 958.2 | 301.1 | 127.4 | 57.5 | 58.7 | 43.7 | 32.5 | 26.2 | 23.7 |
| 52.5° | 2108.7 | 1917.6 | 1028.1 | 289.8 | 116.2 | 51.2 | 53.7 | 43.7 | 31.2 | 25.0 | 22.5 |
| 55° | 2206.2 | 2063.8 | 1093.1 | 274.8 | 97.4 | 46.2 | 50.0 | 43.7 | 28.7 | 23.7 | 21.2 |
| 57.5° | 2277.4 | 2161.2 | 1128.1 | 256.1 | 77.5 | 41.2 | 41.2 | 41.2 | 25.0 | 20.0 | 18.7 |
| 60° | 2311.1 | 2151.2 | 1111.8 | 232.4 | 62.5 | 36.2 | 33.7 | 42.5 | 22.5 | 17.5 | 16.2 |
| 62.5° | 2284.9 | 2047.5 | 1040.6 | 207.4 | 55.0 | 31.2 | 27.5 | 37.5 | 20.0 | 15.0 | 13.7 |
| 65° | 2203.7 | 1872.6 | 921.9 | 187.4 | 53.7 | 26.2 | 22.5 | 22.5 | 16.2 | 12.5 | 11.2 |
| 67.5° | 2002.5 | 1642.8 | 780.8 | 168.6 | 55.0 | 22.5 | 18.7 | 17.5 | 13.7 | 10.0 | 8.7 |
| 70° | 1665.2 | 1320.5 | 590.9 | 159.9 | 55.0 | 18.7 | 16.2 | 13.7 | 10.0 | 8.7 | 7.5 |
| 72.5° | 1058.1 | 819.5 | 409.8 | 141.2 | 55.0 | 15.0 | 13.7 | 12.5 | 7.5 | 6.2 | 3.7 |
| 75° | 627.1 | 498.4 | 192.4 | 108.7 | 46.2 | 12.5 | 10.0 | 7.5 | 3.7 | 2.5 | 2.5 |
| 77.5° | 368.5 | 319.8 | 83.7 | 60.0 | 20.0 | 7.5 | 5.0 | 2.5 | 1.2 | 0.0 | 0.0 |
| 80° | 151.2 | 131.2 | 31.2 | 17.5 | 8.7 | 3.7 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 88.7 | 92.4 | 11.2 | 7.5 | 2.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 27.5 | 42.5 | 0.0 | 1.2 | 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° | 873.2 | 873.2 | 873.2 | 873.2 | 873.2 | 873.2 | 873.2 | 873.2 | 873.2 | 873.2 | 873.2 |
| 2.5° | 744.5 | 732.1 | 727.1 | 719.6 | 713.3 | 705.8 | 715.8 | 724.6 | 714.6 | 725.8 | 743.3 |
| 5° | 574.7 | 555.9 | 580.9 | 564.7 | 573.4 | 563.4 | 549.7 | 552.2 | 554.7 | 549.7 | 563.4 |
| 7.5° | 398.5 | 407.3 | 413.5 | 412.3 | 419.7 | 406.0 | 406.0 | 397.3 | 384.8 | 389.8 | 387.3 |
| 10° | 302.3 | 284.8 | 291.1 | 289.8 | 303.6 | 284.8 | 272.3 | 258.6 | 257.3 | 259.8 | 257.3 |
| 12.5° | 241.1 | 219.9 | 206.1 | 198.6 | 197.4 | 188.6 | 177.4 | 163.7 | 154.9 | 153.7 | 161.2 |
| 15° | 181.1 | 164.9 | 152.4 | 141.2 | 139.9 | 122.4 | 107.4 | 97.4 | 88.7 | 89.9 | 94.9 |
| 17.5° | 124.9 | 119.9 | 116.2 | 106.2 | 99.9 | 84.9 | 72.5 | 66.2 | 63.7 | 63.7 | 65.0 |
| 20° | 91.2 | 88.7 | 86.2 | 82.5 | 76.2 | 65.0 | 57.5 | 55.0 | 53.7 | 53.7 | 55.0 |
| 22.5° | 76.2 | 72.5 | 70.0 | 68.7 | 63.7 | 55.0 | 50.0 | 47.5 | 47.5 | 47.5 | 47.5 |
| 25° | 65.0 | 62.5 | 61.2 | 58.7 | 55.0 | 47.5 | 43.7 | 42.5 | 41.2 | 41.2 | 42.5 |
| 27.5° | 58.7 | 53.7 | 51.2 | 51.2 | 47.5 | 42.5 | 38.7 | 37.5 | 36.2 | 36.2 | 37.5 |
| 30° | 52.5 | 48.7 | 46.2 | 43.7 | 41.2 | 36.2 | 33.7 | 32.5 | 32.5 | 32.5 | 32.5 |
| 32.5° | 46.2 | 43.7 | 41.2 | 38.7 | 35.0 | 32.5 | 30.0 | 28.7 | 27.5 | 27.5 | 27.5 |
| 35° | 37.5 | 35.0 | 35.0 | 33.7 | 30.0 | 27.5 | 25.0 | 23.7 | 22.5 | 23.7 | 23.7 |
| 37.5° | 32.5 | 28.7 | 28.7 | 28.7 | 26.2 | 23.7 | 21.2 | 20.0 | 18.7 | 18.7 | 20.0 |
| 40° | 30.0 | 25.0 | 23.7 | 23.7 | 23.7 | 20.0 | 17.5 | 16.2 | 15.0 | 15.0 | 16.2 |
| 42.5° | 26.2 | 22.5 | 20.0 | 18.7 | 20.0 | 17.5 | 13.7 | 12.5 | 12.5 | 12.5 | 12.5 |
| 45° | 25.0 | 20.0 | 17.5 | 15.0 | 16.2 | 15.0 | 11.2 | 10.0 | 10.0 | 10.0 | 10.0 |
| 47.5° | 22.5 | 17.5 | 15.0 | 11.2 | 11.2 | 11.2 | 8.7 | 7.5 | 7.5 | 7.5 | 7.5 |
| 50° | 21.2 | 16.2 | 11.2 | 10.0 | 8.7 | 8.7 | 7.5 | 6.2 | 5.0 | 5.0 | 6.2 |
| 52.5° | 20.0 | 15.0 | 10.0 | 7.5 | 6.2 | 6.2 | 5.0 | 5.0 | 3.7 | 3.7 | 3.7 |
| 55° | 18.7 | 12.5 | 8.7 | 6.2 | 5.0 | 3.7 | 3.7 | 3.7 | 3.7 | 2.5 | 3.7 |
| 57.5° | 16.2 | 11.2 | 6.2 | 5.0 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 |
| 60° | 15.0 | 8.7 | 5.0 | 2.5 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 |
| 62.5° | 12.5 | 7.5 | 3.7 | 2.5 | 1.2 | 0.0 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 |
| 65° | 10.0 | 6.2 | 2.5 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 7.5 | 5.0 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 6.2 | 2.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 3.7 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 1.2 | 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: P437197
 CATALOG NUMBER: ISS-SA1B-750-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

| | 285° | 295° | 305° | 315° | 325° | 335° | 345° | 355° | 359° | 360° |
|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|
| 0° | 873.2 | 873.2 | 873.2 | 873.2 | 873.2 | 873.2 | 873.2 | 873.2 | 873.2 | 873.2 |
| 2.5° | 742.1 | 749.5 | 777.0 | 802.0 | 829.5 | 859.5 | 884.5 | 920.7 | 931.9 | 938.2 |
| 5° | 560.9 | 588.4 | 622.1 | 652.1 | 705.8 | 755.8 | 814.5 | 878.2 | 904.5 | 909.5 |
| 7.5° | 404.8 | 423.5 | 459.7 | 519.7 | 568.4 | 643.4 | 719.6 | 804.5 | 844.5 | 844.5 |
| 10° | 278.6 | 309.8 | 356.0 | 412.3 | 477.2 | 543.4 | 632.1 | 728.3 | 765.8 | 774.5 |
| 12.5° | 177.4 | 212.4 | 274.8 | 336.0 | 411.0 | 476.0 | 564.7 | 673.3 | 715.8 | 728.3 |
| 15° | 102.4 | 126.2 | 183.6 | 251.1 | 341.0 | 423.5 | 523.4 | 655.9 | 708.3 | 720.8 |
| 17.5° | 68.7 | 77.5 | 108.7 | 167.4 | 267.3 | 377.3 | 510.9 | 674.6 | 738.3 | 753.3 |
| 20° | 57.5 | 61.2 | 72.5 | 103.7 | 188.6 | 328.6 | 505.9 | 715.8 | 793.3 | 819.5 |
| 22.5° | 50.0 | 53.7 | 61.2 | 76.2 | 134.9 | 277.3 | 502.2 | 775.8 | 880.7 | 908.2 |
| 25° | 43.7 | 47.5 | 53.7 | 65.0 | 94.9 | 226.1 | 508.4 | 860.7 | 993.1 | 1025.6 |
| 27.5° | 38.7 | 42.5 | 48.7 | 56.2 | 76.2 | 174.9 | 509.7 | 940.7 | 1098.1 | 1131.8 |
| 30° | 33.7 | 37.5 | 42.5 | 48.7 | 61.2 | 134.9 | 487.2 | 1021.9 | 1183.0 | 1221.8 |
| 32.5° | 30.0 | 32.5 | 37.5 | 42.5 | 51.2 | 104.9 | 441.0 | 1084.3 | 1253.0 | 1290.5 |
| 35° | 25.0 | 27.5 | 32.5 | 36.2 | 45.0 | 84.9 | 389.8 | 1141.8 | 1336.7 | 1382.9 |
| 37.5° | 21.2 | 23.7 | 27.5 | 32.5 | 40.0 | 66.2 | 338.5 | 1191.8 | 1417.9 | 1462.9 |
| 40° | 17.5 | 21.2 | 25.0 | 28.7 | 36.2 | 51.2 | 282.3 | 1245.5 | 1510.3 | 1557.8 |
| 42.5° | 15.0 | 17.5 | 21.2 | 26.2 | 31.2 | 41.2 | 232.4 | 1279.2 | 1589.0 | 1645.3 |
| 45° | 11.2 | 15.0 | 20.0 | 26.2 | 26.2 | 32.5 | 199.9 | 1304.2 | 1645.3 | 1715.2 |
| 47.5° | 8.7 | 12.5 | 17.5 | 25.0 | 23.7 | 27.5 | 183.6 | 1347.9 | 1722.7 | 1787.7 |
| 50° | 7.5 | 10.0 | 17.5 | 21.2 | 20.0 | 23.7 | 188.6 | 1386.7 | 1781.4 | 1837.6 |
| 52.5° | 6.2 | 8.7 | 15.0 | 16.2 | 17.5 | 21.2 | 198.6 | 1457.9 | 1855.1 | 1898.9 |
| 55° | 5.0 | 7.5 | 11.2 | 13.7 | 15.0 | 20.0 | 214.9 | 1546.6 | 1951.3 | 2007.5 |
| 57.5° | 3.7 | 6.2 | 8.7 | 11.2 | 13.7 | 18.7 | 226.1 | 1602.8 | 2041.3 | 2085.0 |
| 60° | 3.7 | 5.0 | 7.5 | 10.0 | 12.5 | 17.5 | 209.9 | 1536.6 | 2002.5 | 2050.0 |
| 62.5° | 2.5 | 5.0 | 6.2 | 8.7 | 10.0 | 13.7 | 154.9 | 1391.7 | 1886.4 | 1951.3 |
| 65° | 1.2 | 3.7 | 5.0 | 6.2 | 7.5 | 10.0 | 88.7 | 1216.8 | 1748.9 | 1826.4 |
| 67.5° | 0.0 | 2.5 | 3.7 | 5.0 | 5.0 | 7.5 | 41.2 | 981.9 | 1522.8 | 1601.5 |
| 70° | 0.0 | 1.2 | 2.5 | 2.5 | 3.7 | 6.2 | 21.2 | 693.3 | 1198.0 | 1304.2 |
| 72.5° | 1.2 | 1.2 | 2.5 | 2.5 | 2.5 | 5.0 | 13.7 | 419.7 | 805.8 | 918.2 |
| 75° | 1.2 | 1.2 | 1.2 | 1.2 | 2.5 | 3.7 | 8.7 | 269.8 | 507.2 | 608.4 |
| 77.5° | 1.2 | 2.5 | 1.2 | 1.2 | 1.2 | 2.5 | 5.0 | 149.9 | 277.3 | 314.8 |
| 80° | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 2.5 | 2.5 | 13.7 | 131.2 | 176.1 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 | 1.2 | 1.2 | 1.2 | 67.5 | 86.2 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 | 0.0 | 0.0 | 1.2 | 1.2 |
| 87.5° | 0.0 | 0.0 | 0.0 | 1.2 | 1.2 | 1.2 | 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: SP1-1908-441-4-R4

Test Date: 10/02/2019

Luminaire Tested: SA1C-750-U-5WQ

Data in this report applies to families of products SA1C-760-U-5WQ .

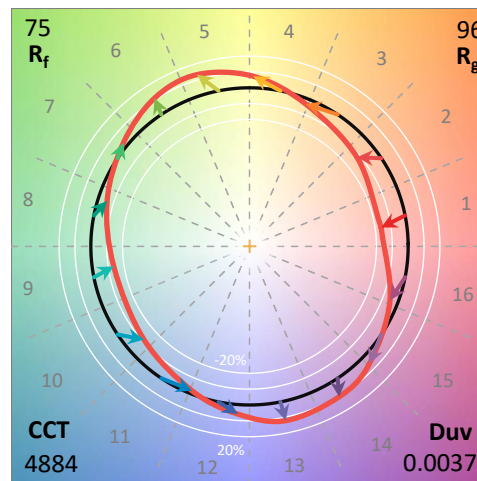
Test Information

Test Method: LM-79-2008
 Report Number: SP1-1908-441-4-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-750-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): | 4884 | CRI (Ra): | 73.5 | R9: | -28.4 |
| CIE u': | 0.2101 | R1: | 70.5 | R10: | 48.6 |
| CIE v': | 0.4904 | R2: | 77.7 | R11: | 73.2 |
| Duv: | 0.0037 | R3: | 84.6 | R12: | 50.7 |
| CIE x: | 0.3493 | R4: | 74.7 | R13: | 71.2 |
| CIE y: | 0.3624 | R5: | 71.9 | R14: | 91.4 |
| CIE z: | 0.2884 | R6: | 70.7 | | |
| Peak Wavelength (nm): | 444 | R7: | 81.2 | | |
| Dominant Wavelength (nm): | 571 | R8: | 56.9 | | |
| Purity: | 13.7 | | | | |
| Rf: | 74.9 | | | | |
| Rg: | 96.3 | | | | |



Test Conditions

Stabilization Time: 240M
 Operation Time: 12H
 Room Temperature (°C) / RH%: 25.0./44%
 Sphere Temperature (°C): 25.7

REPORT NUMBER: SP1-1908-441-4-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: SP1-1908-441-4-R4

CIE 1931 Chromaticity Diagram



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



Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-1908-441-4-R4

Photopic Flux vs. Wavelength



#####

| 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 | 2945 | NR | 490 | 37941 | NR | 620 | 88803 | NR | 750 | 3908 | NR | 880 | 2997 | NR |
| 365 | 2596 | NR | 495 | 48525 | NR | 625 | 80578 | NR | 755 | 3988 | NR | 885 | 2927 | NR |
| 370 | 2732 | NR | 500 | 60609 | NR | 630 | 73127 | NR | 760 | 3335 | NR | 890 | 2649 | NR |
| 375 | 2894 | NR | 505 | 72036 | NR | 635 | 66244 | NR | 765 | 3438 | NR | 895 | 2828 | NR |
| 380 | 2822 | NR | 510 | 82168 | NR | 640 | 59440 | NR | 770 | 3427 | NR | 900 | 1407 | NR |
| 385 | 2394 | NR | 515 | 90898 | NR | 645 | 52864 | NR | 775 | 2759 | NR | 905 | 2224 | NR |
| 390 | 2370 | NR | 520 | 97142 | NR | 650 | 47085 | NR | 780 | 2340 | NR | 910 | 2905 | NR |
| 395 | 2267 | NR | 525 | 103255 | NR | 655 | 41789 | NR | 785 | 2412 | NR | 915 | 3350 | NR |
| 400 | 2262 | NR | 530 | 106697 | NR | 660 | 37064 | NR | 790 | 1999 | NR | 920 | 3114 | NR |
| 405 | 3000 | NR | 535 | 110081 | NR | 665 | 32299 | NR | 795 | 2054 | NR | 925 | 2834 | NR |
| 410 | 5324 | NR | 540 | 112494 | NR | 670 | 28142 | NR | 800 | 2331 | NR | 930 | 2271 | NR |
| 415 | 10725 | NR | 545 | 115513 | NR | 675 | 24505 | NR | 805 | 2648 | NR | 935 | 2228 | NR |
| 420 | 22128 | NR | 550 | 117203 | NR | 680 | 21162 | NR | 810 | 2485 | NR | 940 | 2833 | NR |
| 425 | 44095 | NR | 555 | 119753 | NR | 685 | 18400 | NR | 815 | 2409 | NR | 945 | 2941 | NR |
| 430 | 77002 | NR | 560 | 122602 | NR | 690 | 16065 | NR | 820 | 2221 | NR | 950 | 2323 | NR |
| 435 | 119881 | NR | 565 | 124314 | NR | 695 | 13860 | NR | 825 | 1562 | NR | 955 | 1667 | NR |
| 440 | 164454 | NR | 570 | 126775 | NR | 700 | 12177 | NR | 830 | 2249 | NR | 960 | 749 | NR |
| 445 | 179997 | NR | 575 | 127511 | NR | 705 | 10757 | NR | 835 | 2573 | NR | 965 | 2669 | NR |
| 450 | 142822 | NR | 580 | 127577 | NR | 710 | 9601 | NR | 840 | 2764 | NR | 970 | 3968 | NR |
| 455 | 90008 | NR | 585 | 126153 | NR | 715 | 8944 | NR | 845 | 3109 | NR | 975 | 3886 | NR |
| 460 | 60557 | NR | 590 | 123678 | NR | 720 | 7947 | NR | 850 | 2963 | NR | 980 | 2788 | NR |
| 465 | 43305 | NR | 595 | 119774 | NR | 725 | 7062 | NR | 855 | 2336 | NR | 985 | 3496 | NR |
| 470 | 31089 | NR | 600 | 115733 | NR | 730 | 6004 | NR | 860 | 2118 | NR | 990 | 2913 | NR |
| 475 | 26278 | NR | 605 | 109231 | NR | 735 | 5594 | NR | 865 | 3144 | NR | 995 | 4659 | NR |
| 480 | 27060 | NR | 610 | 102408 | NR | 740 | 5165 | NR | 870 | 3069 | NR | 1000 | 1308 | NR |
| 485 | 30698 | NR | 615 | 96015 | NR | 745 | 4687 | NR | 875 | 3311 | NR | | | |

REPORT NUMBER: SP1-1908-441-4-R4

Scotopic Flux vs. Wavelength

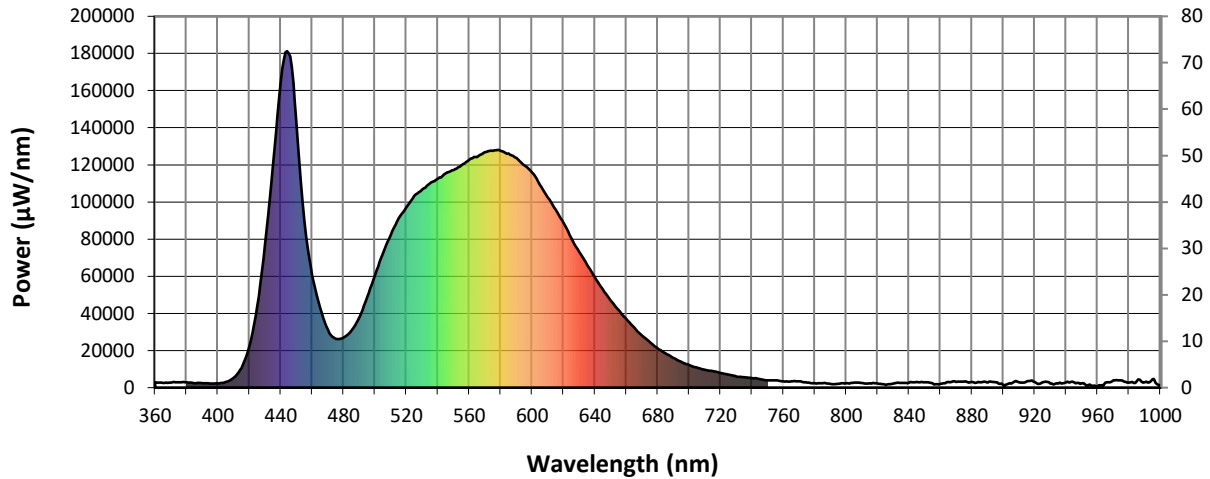


Scotopic Lumens: 13493.5 S/P: 1.77

| 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 | 2945 | NR | 490 | 37941 | NR | 620 | 88803 | NR | 750 | 3908 | NR | 880 | 2997 | NR |
| 365 | 2596 | NR | 495 | 48525 | NR | 625 | 80578 | NR | 755 | 3988 | NR | 885 | 2927 | NR |
| 370 | 2732 | NR | 500 | 60609 | NR | 630 | 73127 | NR | 760 | 3335 | NR | 890 | 2649 | NR |
| 375 | 2894 | NR | 505 | 72036 | NR | 635 | 66244 | NR | 765 | 3438 | NR | 895 | 2828 | NR |
| 380 | 2822 | NR | 510 | 82168 | NR | 640 | 59440 | NR | 770 | 3427 | NR | 900 | 1407 | NR |
| 385 | 2394 | NR | 515 | 90898 | NR | 645 | 52864 | NR | 775 | 2759 | NR | 905 | 2224 | NR |
| 390 | 2370 | NR | 520 | 97142 | NR | 650 | 47085 | NR | 780 | 2340 | NR | 910 | 2905 | NR |
| 395 | 2267 | NR | 525 | 103255 | NR | 655 | 41789 | NR | 785 | 2412 | NR | 915 | 3350 | NR |
| 400 | 2262 | NR | 530 | 106697 | NR | 660 | 37064 | NR | 790 | 1999 | NR | 920 | 3114 | NR |
| 405 | 3000 | NR | 535 | 110081 | NR | 665 | 32299 | NR | 795 | 2054 | NR | 925 | 2834 | NR |
| 410 | 5324 | NR | 540 | 112494 | NR | 670 | 28142 | NR | 800 | 2331 | NR | 930 | 2271 | NR |
| 415 | 10725 | NR | 545 | 115513 | NR | 675 | 24505 | NR | 805 | 2648 | NR | 935 | 2228 | NR |
| 420 | 22128 | NR | 550 | 117203 | NR | 680 | 21162 | NR | 810 | 2485 | NR | 940 | 2833 | NR |
| 425 | 44095 | NR | 555 | 119753 | NR | 685 | 18400 | NR | 815 | 2409 | NR | 945 | 2941 | NR |
| 430 | 77002 | NR | 560 | 122602 | NR | 690 | 16065 | NR | 820 | 2221 | NR | 950 | 2323 | NR |
| 435 | 119881 | NR | 565 | 124314 | NR | 695 | 13860 | NR | 825 | 1562 | NR | 955 | 1667 | NR |
| 440 | 164454 | NR | 570 | 126775 | NR | 700 | 12177 | NR | 830 | 2249 | NR | 960 | 749 | NR |
| 445 | 179997 | NR | 575 | 127511 | NR | 705 | 10757 | NR | 835 | 2573 | NR | 965 | 2669 | NR |
| 450 | 142822 | NR | 580 | 127577 | NR | 710 | 9601 | NR | 840 | 2764 | NR | 970 | 3968 | NR |
| 455 | 90008 | NR | 585 | 126153 | NR | 715 | 8944 | NR | 845 | 3109 | NR | 975 | 3886 | NR |
| 460 | 60557 | NR | 590 | 123678 | NR | 720 | 7947 | NR | 850 | 2963 | NR | 980 | 2788 | NR |
| 465 | 43305 | NR | 595 | 119774 | NR | 725 | 7062 | NR | 855 | 2336 | NR | 985 | 3496 | NR |
| 470 | 31089 | NR | 600 | 115733 | NR | 730 | 6004 | NR | 860 | 2118 | NR | 990 | 2913 | NR |
| 475 | 26278 | NR | 605 | 109231 | NR | 735 | 5594 | NR | 865 | 3144 | NR | 995 | 4659 | NR |
| 480 | 27060 | NR | 610 | 102408 | NR | 740 | 5165 | NR | 870 | 3069 | NR | 1000 | 1308 | NR |
| 485 | 30698 | NR | 615 | 96015 | NR | 745 | 4687 | NR | 875 | 3311 | NR | | | |

REPORT NUMBER: SP1-1908-441-4-R4

Melanopic Flux vs. Wavelength



Melanopic Lumens: 5378.9 M/P: 0.71

| 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 | 2945 | NR | 490 | 37941 | NR | 620 | 88803 | NR | 750 | 3908 | NR | 880 | 2997 | NR |
| 365 | 2596 | NR | 495 | 48525 | NR | 625 | 80578 | NR | 755 | 3988 | NR | 885 | 2927 | NR |
| 370 | 2732 | NR | 500 | 60609 | NR | 630 | 73127 | NR | 760 | 3335 | NR | 890 | 2649 | NR |
| 375 | 2894 | NR | 505 | 72036 | NR | 635 | 66244 | NR | 765 | 3438 | NR | 895 | 2828 | NR |
| 380 | 2822 | NR | 510 | 82168 | NR | 640 | 59440 | NR | 770 | 3427 | NR | 900 | 1407 | NR |
| 385 | 2394 | NR | 515 | 90898 | NR | 645 | 52864 | NR | 775 | 2759 | NR | 905 | 2224 | NR |
| 390 | 2370 | NR | 520 | 97142 | NR | 650 | 47085 | NR | 780 | 2340 | NR | 910 | 2905 | NR |
| 395 | 2267 | NR | 525 | 103255 | NR | 655 | 41789 | NR | 785 | 2412 | NR | 915 | 3350 | NR |
| 400 | 2262 | NR | 530 | 106697 | NR | 660 | 37064 | NR | 790 | 1999 | NR | 920 | 3114 | NR |
| 405 | 3000 | NR | 535 | 110081 | NR | 665 | 32299 | NR | 795 | 2054 | NR | 925 | 2834 | NR |
| 410 | 5324 | NR | 540 | 112494 | NR | 670 | 28142 | NR | 800 | 2331 | NR | 930 | 2271 | NR |
| 415 | 10725 | NR | 545 | 115513 | NR | 675 | 24505 | NR | 805 | 2648 | NR | 935 | 2228 | NR |
| 420 | 22128 | NR | 550 | 117203 | NR | 680 | 21162 | NR | 810 | 2485 | NR | 940 | 2833 | NR |
| 425 | 44095 | NR | 555 | 119753 | NR | 685 | 18400 | NR | 815 | 2409 | NR | 945 | 2941 | NR |
| 430 | 77002 | NR | 560 | 122602 | NR | 690 | 16065 | NR | 820 | 2221 | NR | 950 | 2323 | NR |
| 435 | 119881 | NR | 565 | 124314 | NR | 695 | 13860 | NR | 825 | 1562 | NR | 955 | 1667 | NR |
| 440 | 164454 | NR | 570 | 126775 | NR | 700 | 12177 | NR | 830 | 2249 | NR | 960 | 749 | NR |
| 445 | 179997 | NR | 575 | 127511 | NR | 705 | 10757 | NR | 835 | 2573 | NR | 965 | 2669 | NR |
| 450 | 142822 | NR | 580 | 127577 | NR | 710 | 9601 | NR | 840 | 2764 | NR | 970 | 3968 | NR |
| 455 | 90008 | NR | 585 | 126153 | NR | 715 | 8944 | NR | 845 | 3109 | NR | 975 | 3886 | NR |
| 460 | 60557 | NR | 590 | 123678 | NR | 720 | 7947 | NR | 850 | 2963 | NR | 980 | 2788 | NR |
| 465 | 43305 | NR | 595 | 119774 | NR | 725 | 7062 | NR | 855 | 2336 | NR | 985 | 3496 | NR |
| 470 | 31089 | NR | 600 | 115733 | NR | 730 | 6004 | NR | 860 | 2118 | NR | 990 | 2913 | NR |
| 475 | 26278 | NR | 605 | 109231 | NR | 735 | 5594 | NR | 865 | 3144 | NR | 995 | 4659 | NR |
| 480 | 27060 | NR | 610 | 102408 | NR | 740 | 5165 | NR | 870 | 3069 | NR | 1000 | 1308 | NR |
| 485 | 30698 | NR | 615 | 96015 | NR | 745 | 4687 | NR | 875 | 3311 | NR | | | |

REPORT NUMBER: SP1-1908-441-4-R4

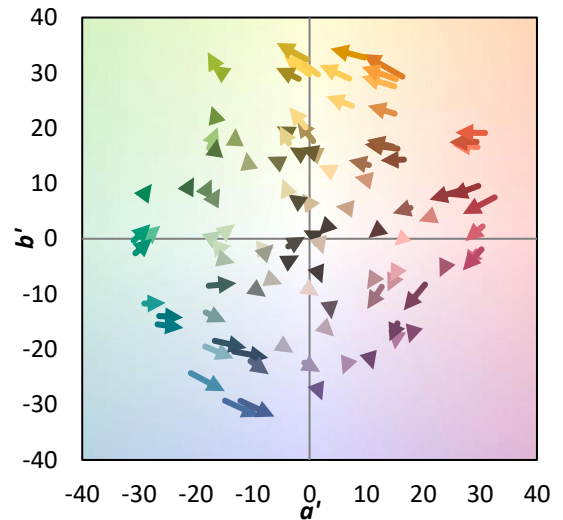
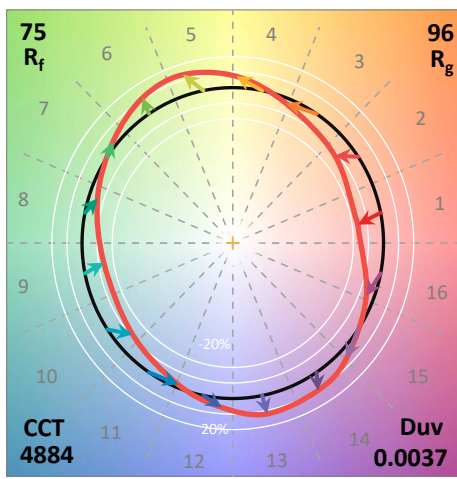
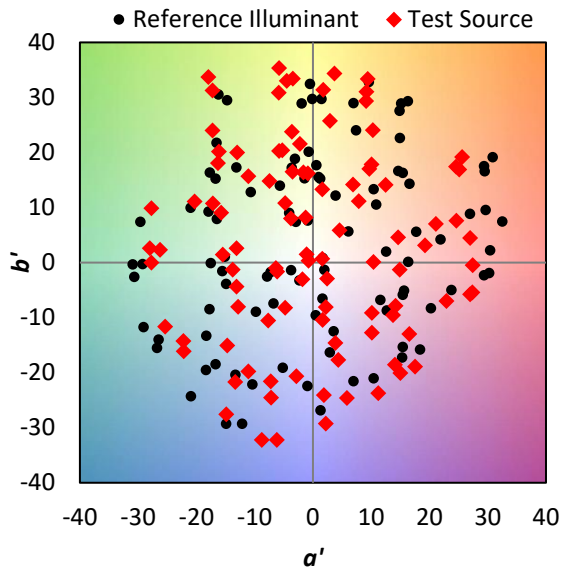
TM-30-18

Summary

$R_f = 74.9$
 $R_g = 96.3$
 CIE $R_a = 73.5$
 $R_g = -28.4$



Color Vector Graphics

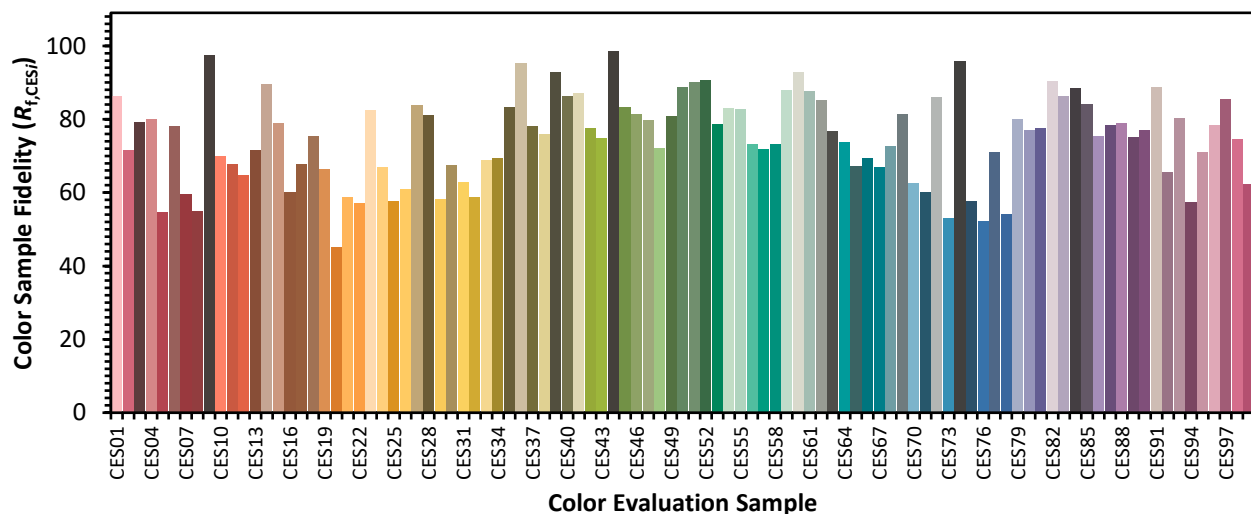


REPORT NUMBER: SP1-1908-441-4-R4

TM-30-18

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

| | | | |
|------------|------------|------------|------------|
| CES01 = 85 | CES26 = 61 | CES51 = 90 | CES76 = 52 |
| CES02 = 60 | CES27 = 84 | CES52 = 91 | CES77 = 71 |
| CES03 = 30 | CES28 = 81 | CES53 = 79 | CES78 = 54 |
| CES04 = 69 | CES29 = 58 | CES54 = 83 | CES79 = 80 |
| CES05 = 46 | CES30 = 67 | CES55 = 83 | CES80 = 77 |
| CES06 = 50 | CES31 = 63 | CES56 = 73 | CES81 = 77 |
| CES07 = 39 | CES32 = 59 | CES57 = 72 | CES82 = 90 |
| CES08 = 38 | CES33 = 69 | CES58 = 73 | CES83 = 86 |
| CES09 = 29 | CES34 = 69 | CES59 = 88 | CES84 = 88 |
| CES10 = 73 | CES35 = 83 | CES60 = 93 | CES85 = 84 |
| CES11 = 56 | CES36 = 95 | CES61 = 88 | CES86 = 75 |
| CES12 = 61 | CES37 = 78 | CES62 = 85 | CES87 = 78 |
| CES13 = 41 | CES38 = 76 | CES63 = 77 | CES88 = 79 |
| CES14 = 74 | CES39 = 93 | CES64 = 74 | CES89 = 75 |
| CES15 = 70 | CES40 = 86 | CES65 = 67 | CES90 = 77 |
| CES16 = 46 | CES41 = 87 | CES66 = 69 | CES91 = 89 |
| CES17 = 49 | CES42 = 78 | CES67 = 67 | CES92 = 66 |
| CES18 = 55 | CES43 = 75 | CES68 = 73 | CES93 = 80 |
| CES19 = 71 | CES44 = 99 | CES69 = 81 | CES94 = 57 |
| CES20 = 64 | CES45 = 83 | CES70 = 63 | CES95 = 71 |
| CES21 = 85 | CES46 = 81 | CES71 = 60 | CES96 = 78 |
| CES22 = 77 | CES47 = 80 | CES72 = 86 | CES97 = 85 |
| CES23 = 91 | CES48 = 72 | CES73 = 53 | CES98 = 75 |
| CES24 = 90 | CES49 = 81 | CES74 = 96 | CES99 = 62 |
| CES25 = 71 | CES50 = 89 | CES75 = 58 | |



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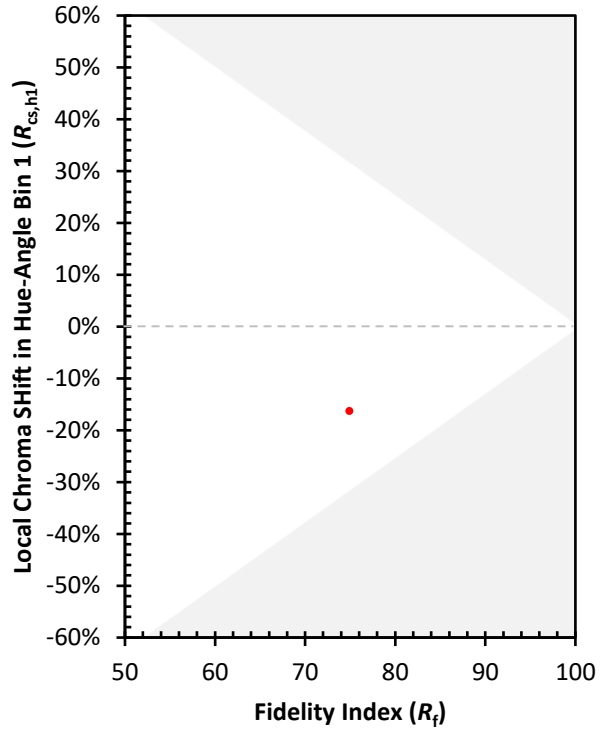
Color Rendition by Hue-Angle Bin



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Measure Comparisons



(END OF REPORT)