

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: P437996

Luminaire Tested: **ISW-SA1A-730-U-SLL**

Issue Date: 12/10/2020

Test Information

Test Method: LM-79-08
Report Number: P437996
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: ISW-SA1A-730-U-SLL
Description: IMPACT ELITE LED WEDGE LUMINAIRE
(1) 70 CRI, 3000K, 350mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2239 lumens
Efficiency: N/A
Efficacy: 111.4 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

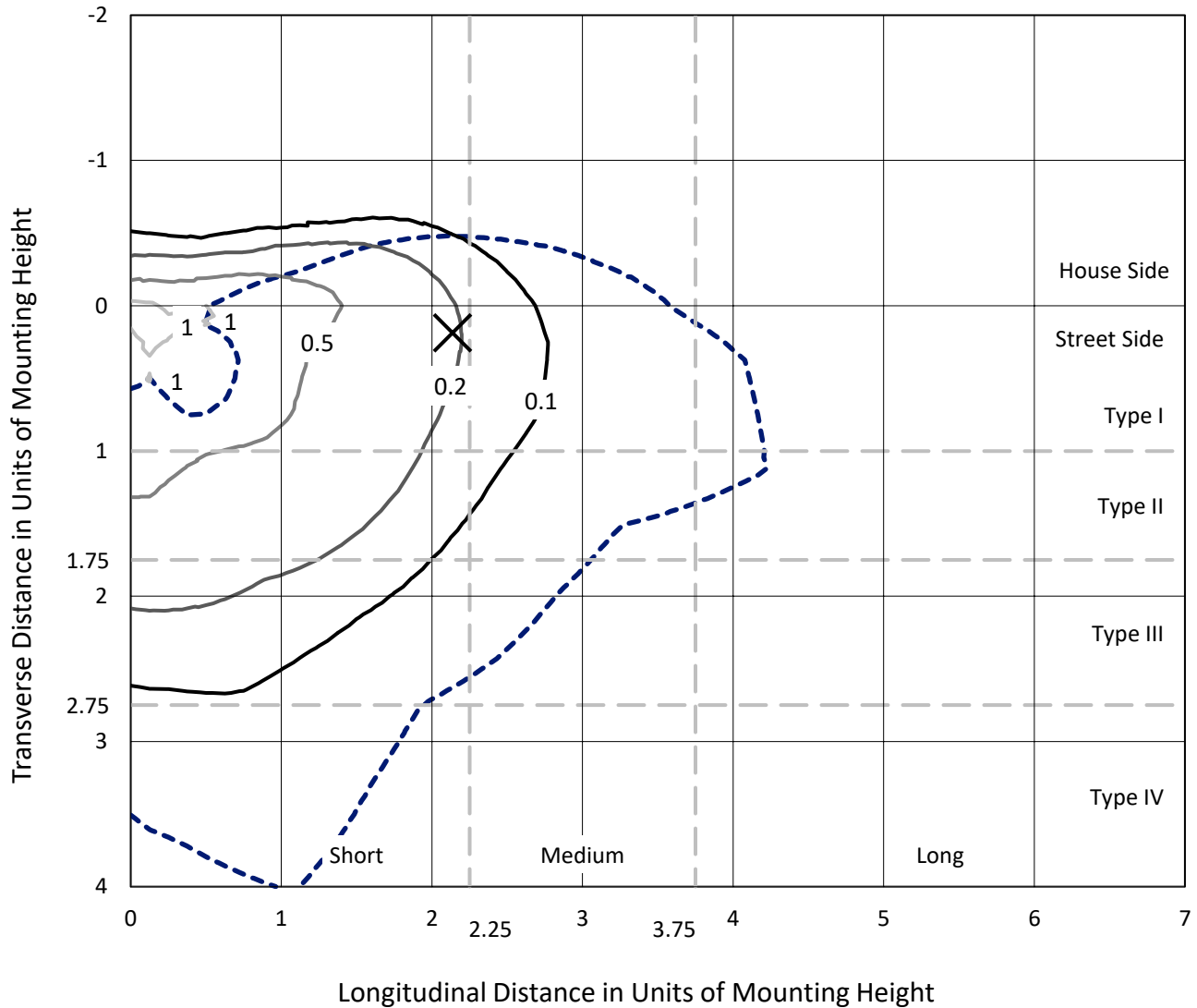
Input Watts (W): 20.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

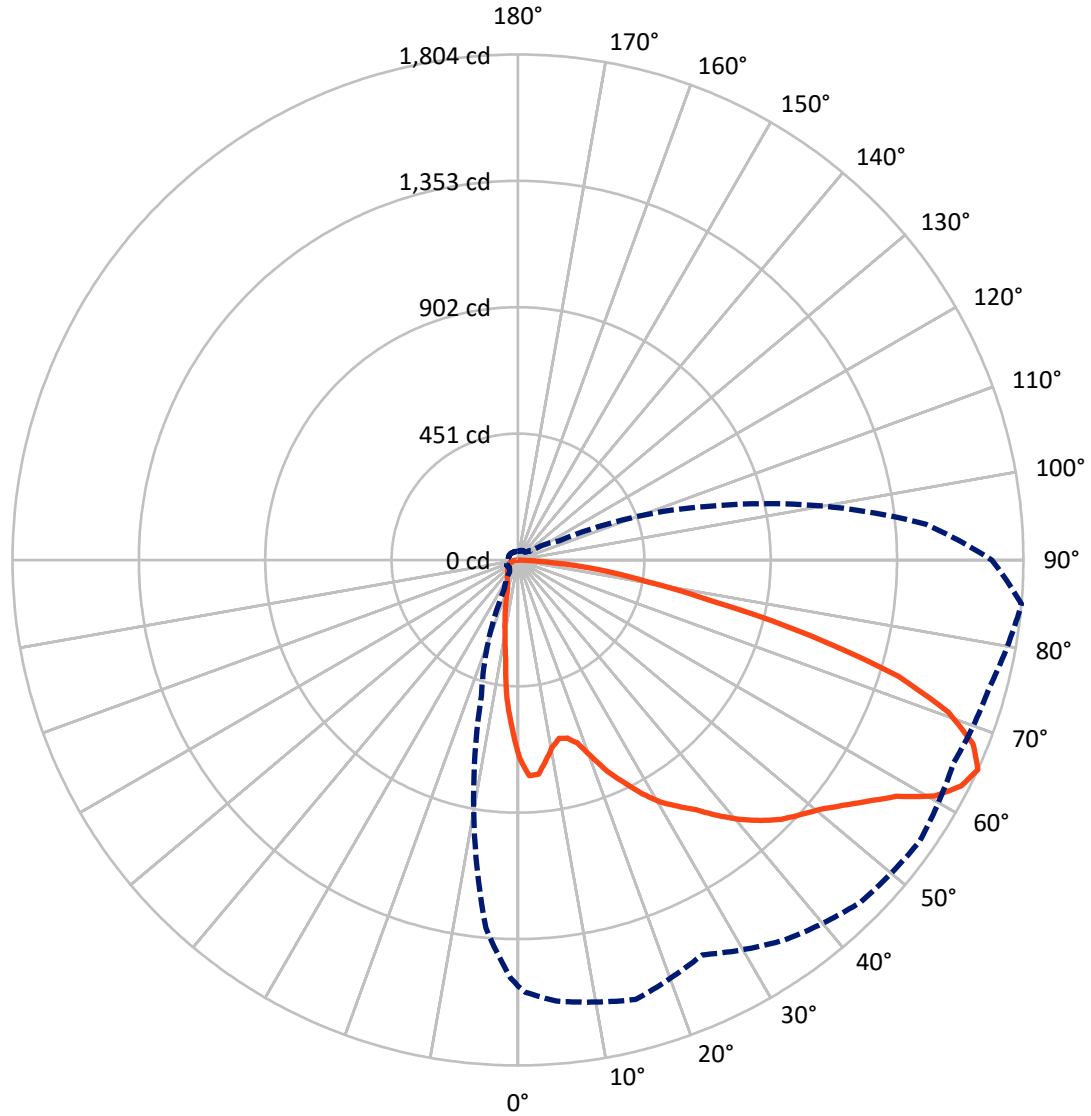
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 85-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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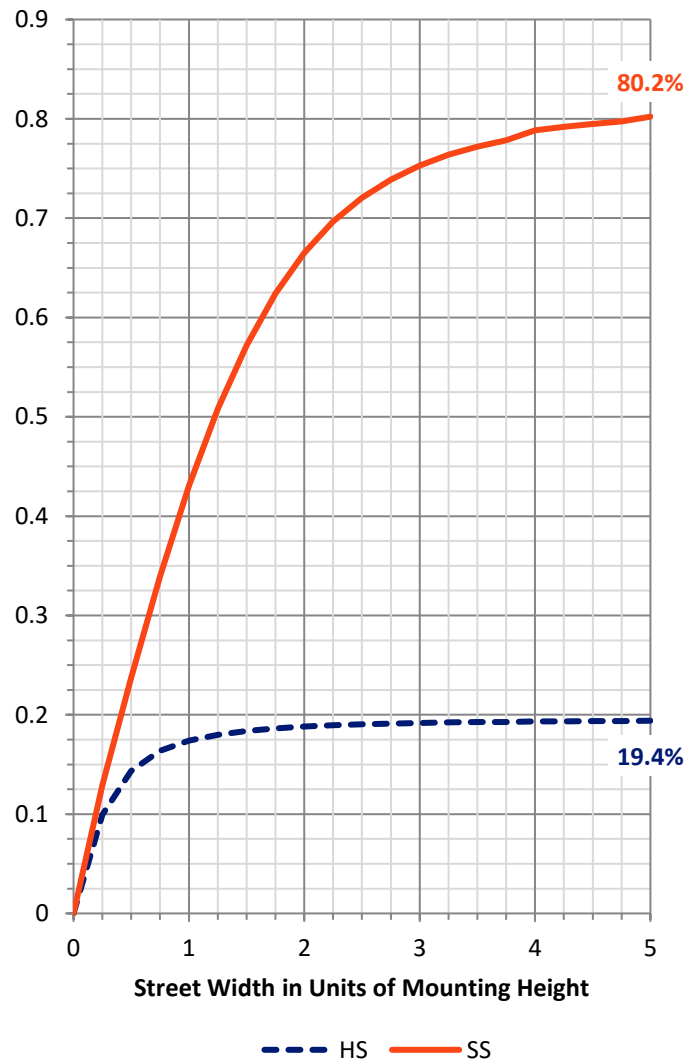
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 438.2 | 0.0 | 438.2 |
| | % Fixture | 19.6 | 0.0 | 19.6 |
| Street Side | Lumens | 1800.8 | 0.0 | 1800.8 |
| | % Fixture | 80.4 | 0.0 | 80.4 |
| Total | Lumens | 2239.0 | 0.0 | 2239.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 53.9 | 2.4 |
| 10°-20° | 112.0 | 5.0 |
| 20°-30° | 161.0 | 7.2 |
| 30°-40° | 231.2 | 10.3 |
| 40°-50° | 327.3 | 14.6 |
| 50°-60° | 455.1 | 20.3 |
| 60°-70° | 541.9 | 24.2 |
| 70°-80° | 313.2 | 14.0 |
| 80°-90° | 43.3 | 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° | 2239.0 | 100.0 |
| 0°-180° | 2239.0 | 100.0 |

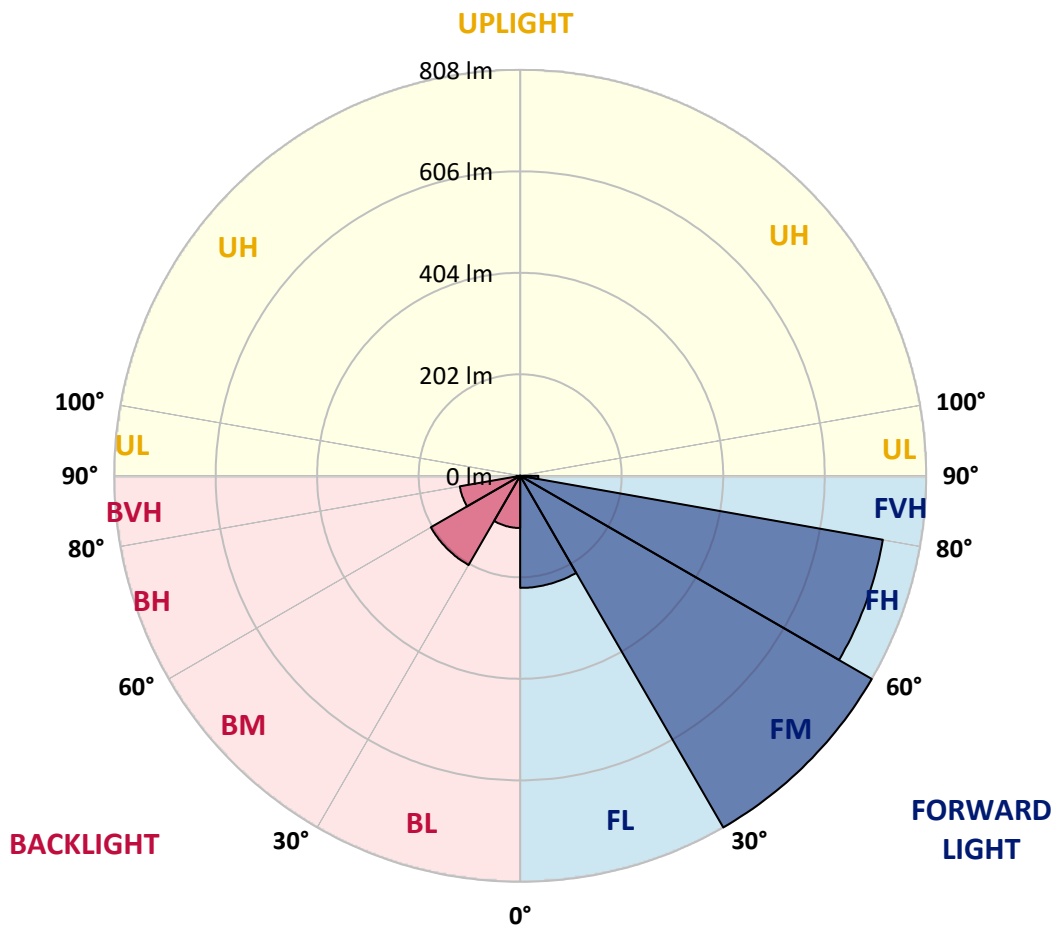


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 CATALOG NUMBER: ISW-SA1A-730-U-SLL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 223.1 | 10.0 | | | |
| FM (30°-60°) | 808.3 | 36.1 | | | |
| FH (60°-80°) | 733.2 | 32.7 | | | G1/1800 |
| FVH (80°-90°) | 36.2 | 1.6 | | | G1/100 |
| BL (0°-30°) | 103.8 | 4.6 | B0/110 | | |
| BM (30°-60°) | 205.3 | 9.2 | B0/220 | | |
| BH (60°-80°) | 122.0 | 5.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 7.1 | 0.3 | | | 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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 CATALOG NUMBER: ISW-SA1A-730-U-SLL

CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 707.3 | 707.3 | 707.3 | 707.3 | 707.3 | 707.3 | 707.3 | 707.3 | 707.3 | 707.3 | 707.3 |
| 2.5° | 741.2 | 743.9 | 750.3 | 772.3 | 786.0 | 797.0 | 810.7 | 797.0 | 793.3 | 775.0 | 771.4 |
| 5° | 714.6 | 721.0 | 739.3 | 780.5 | 814.4 | 850.1 | 868.4 | 852.8 | 831.8 | 799.7 | 767.7 |
| 7.5° | 662.5 | 670.7 | 694.5 | 758.6 | 822.6 | 871.1 | 894.9 | 878.4 | 835.4 | 778.7 | 721.0 |
| 10° | 609.4 | 622.2 | 650.6 | 731.1 | 798.8 | 852.8 | 889.4 | 872.0 | 819.9 | 745.8 | 677.1 |
| 12.5° | 577.4 | 586.5 | 618.6 | 702.7 | 774.1 | 828.1 | 855.6 | 845.5 | 797.0 | 726.5 | 653.3 |
| 15° | 570.1 | 579.2 | 611.2 | 692.7 | 755.8 | 796.1 | 802.5 | 805.2 | 786.9 | 732.9 | 659.7 |
| 17.5° | 590.2 | 597.5 | 641.4 | 709.2 | 734.8 | 743.0 | 753.1 | 765.0 | 774.1 | 745.8 | 686.3 |
| 20° | 638.7 | 653.3 | 691.8 | 743.0 | 729.3 | 710.1 | 715.6 | 730.2 | 765.0 | 783.3 | 747.6 |
| 22.5° | 703.7 | 720.1 | 768.6 | 789.7 | 732.9 | 691.8 | 687.2 | 700.0 | 764.1 | 824.4 | 820.8 |
| 25° | 775.9 | 798.8 | 851.0 | 851.9 | 748.5 | 679.0 | 669.8 | 681.7 | 762.2 | 861.0 | 879.3 |
| 27.5° | 851.0 | 872.0 | 928.8 | 900.4 | 778.7 | 679.9 | 668.9 | 680.8 | 766.8 | 900.4 | 944.3 |
| 30° | 906.8 | 934.3 | 983.7 | 946.1 | 797.9 | 691.8 | 675.3 | 690.9 | 776.9 | 920.5 | 1002.0 |
| 32.5° | 963.5 | 980.9 | 1033.1 | 972.7 | 819.0 | 710.1 | 689.0 | 712.8 | 802.5 | 939.7 | 1047.7 |
| 35° | 1013.9 | 1036.7 | 1089.8 | 988.2 | 850.1 | 741.2 | 713.7 | 744.8 | 839.1 | 967.2 | 1094.4 |
| 37.5° | 1077.9 | 1099.9 | 1148.4 | 1010.2 | 875.7 | 780.5 | 757.6 | 797.9 | 883.9 | 991.9 | 1156.6 |
| 40° | 1134.6 | 1169.4 | 1206.0 | 1037.6 | 905.0 | 838.2 | 823.5 | 878.4 | 944.3 | 1025.8 | 1217.0 |
| 42.5° | 1190.5 | 1219.7 | 1260.0 | 1068.8 | 942.5 | 908.6 | 915.0 | 972.7 | 1017.5 | 1077.0 | 1271.0 |
| 45° | 1230.7 | 1264.6 | 1300.3 | 1093.5 | 991.0 | 984.6 | 1027.6 | 1076.1 | 1092.6 | 1131.0 | 1319.5 |
| 47.5° | 1270.1 | 1296.6 | 1328.6 | 1118.2 | 1049.5 | 1069.7 | 1144.7 | 1182.2 | 1165.8 | 1179.5 | 1357.9 |
| 50° | 1322.2 | 1350.6 | 1359.7 | 1157.5 | 1123.7 | 1177.6 | 1259.1 | 1283.8 | 1236.2 | 1217.9 | 1398.2 |
| 52.5° | 1397.3 | 1411.0 | 1406.4 | 1204.2 | 1194.1 | 1290.2 | 1357.0 | 1394.5 | 1309.4 | 1254.5 | 1454.0 |
| 55° | 1497.9 | 1521.7 | 1492.4 | 1280.1 | 1266.4 | 1398.2 | 1476.0 | 1494.3 | 1390.9 | 1300.3 | 1518.0 |
| 57.5° | 1594.0 | 1615.0 | 1605.9 | 1372.6 | 1360.7 | 1491.5 | 1566.5 | 1583.9 | 1470.5 | 1385.4 | 1591.2 |
| 60° | 1629.7 | 1636.1 | 1669.0 | 1470.5 | 1454.9 | 1571.1 | 1656.2 | 1659.0 | 1565.6 | 1487.8 | 1710.2 |
| 62.5° | 1591.2 | 1616.9 | 1648.9 | 1562.0 | 1511.6 | 1639.7 | 1715.7 | 1733.1 | 1656.2 | 1612.3 | 1775.2 |
| 65° | 1519.9 | 1542.7 | 1580.3 | 1623.3 | 1554.6 | 1656.2 | 1727.6 | 1749.5 | 1714.8 | 1743.1 | 1803.5 |
| 67.5° | 1437.5 | 1465.9 | 1491.5 | 1633.3 | 1549.2 | 1562.0 | 1621.4 | 1635.2 | 1683.7 | 1800.8 | 1751.4 |
| 70° | 1331.4 | 1363.4 | 1385.4 | 1594.0 | 1418.3 | 1291.1 | 1333.2 | 1370.7 | 1444.8 | 1698.3 | 1629.7 |
| 72.5° | 1102.6 | 1153.9 | 1208.8 | 1415.6 | 1147.5 | 1002.9 | 1035.8 | 1060.5 | 1113.6 | 1450.3 | 1419.2 |
| 75° | 775.9 | 813.5 | 881.2 | 1140.1 | 881.2 | 710.1 | 761.3 | 761.3 | 828.1 | 1191.4 | 1077.9 |
| 77.5° | 463.9 | 464.8 | 530.7 | 750.3 | 536.2 | 478.6 | 507.8 | 521.6 | 541.7 | 843.7 | 715.6 |
| 80° | 262.6 | 266.3 | 288.2 | 485.0 | 317.5 | 326.7 | 361.4 | 398.0 | 367.8 | 523.4 | 460.3 |
| 82.5° | 122.6 | 108.0 | 114.4 | 228.8 | 180.3 | 213.2 | 218.7 | 235.2 | 237.0 | 334.9 | 302.0 |
| 85° | 10.1 | 8.2 | 11.0 | 41.2 | 32.0 | 29.3 | 21.0 | 40.3 | 63.1 | 146.4 | 129.9 |
| 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° | 707.3 | 707.3 | 707.3 | 707.3 | 707.3 | 707.3 | 707.3 | 707.3 | 707.3 | 707.3 | 707.3 |
| 2.5° | 759.5 | 750.3 | 730.2 | 714.6 | 700.0 | 672.6 | 661.6 | 646.0 | 637.8 | 623.1 | 626.8 |
| 5° | 743.9 | 722.9 | 677.1 | 646.0 | 605.8 | 572.8 | 552.7 | 534.4 | 527.1 | 511.5 | 506.0 |
| 7.5° | 687.2 | 668.9 | 611.2 | 560.0 | 510.6 | 471.2 | 433.7 | 406.3 | 393.5 | 379.7 | 378.8 |
| 10° | 638.7 | 608.5 | 542.6 | 482.2 | 425.5 | 388.9 | 361.4 | 338.6 | 318.4 | 301.0 | 291.0 |
| 12.5° | 611.2 | 573.7 | 500.5 | 427.3 | 388.0 | 362.4 | 332.2 | 303.8 | 280.9 | 260.8 | 248.9 |
| 15° | 611.2 | 567.3 | 480.4 | 409.0 | 369.7 | 331.2 | 296.5 | 267.2 | 237.0 | 213.2 | 205.9 |
| 17.5° | 639.6 | 585.6 | 485.0 | 397.1 | 341.3 | 298.3 | 254.4 | 215.9 | 186.7 | 165.6 | 158.3 |
| 20° | 695.4 | 630.5 | 495.9 | 383.4 | 313.9 | 254.4 | 201.3 | 160.1 | 133.6 | 123.5 | 121.7 |
| 22.5° | 760.4 | 684.4 | 512.4 | 370.6 | 285.5 | 207.7 | 151.0 | 121.7 | 109.8 | 106.1 | 106.1 |
| 25° | 831.8 | 744.8 | 533.5 | 356.9 | 256.2 | 164.7 | 115.3 | 101.6 | 97.0 | 95.2 | 95.2 |
| 27.5° | 898.6 | 810.7 | 571.0 | 351.4 | 228.8 | 133.6 | 100.7 | 90.6 | 87.8 | 86.0 | 86.9 |
| 30° | 963.5 | 869.3 | 609.4 | 340.4 | 198.6 | 116.2 | 90.6 | 83.3 | 79.6 | 78.7 | 79.6 |
| 32.5° | 1019.3 | 919.6 | 635.9 | 323.9 | 177.5 | 104.3 | 84.2 | 76.9 | 73.2 | 72.3 | 73.2 |
| 35° | 1083.4 | 969.0 | 662.5 | 312.0 | 166.5 | 97.0 | 79.6 | 72.3 | 68.6 | 66.8 | 66.8 |
| 37.5° | 1158.4 | 1028.5 | 682.6 | 294.6 | 159.2 | 89.7 | 75.9 | 68.6 | 64.1 | 62.2 | 62.2 |
| 40° | 1259.1 | 1100.8 | 699.1 | 280.9 | 151.0 | 86.0 | 71.4 | 65.0 | 60.4 | 58.6 | 57.6 |
| 42.5° | 1328.6 | 1163.9 | 712.8 | 271.8 | 142.7 | 84.2 | 68.6 | 63.1 | 57.6 | 54.9 | 54.0 |
| 45° | 1376.2 | 1219.7 | 722.0 | 267.2 | 135.4 | 79.6 | 66.8 | 61.3 | 54.9 | 51.2 | 51.2 |
| 47.5° | 1422.0 | 1265.5 | 722.9 | 260.8 | 129.9 | 74.1 | 69.5 | 58.6 | 52.2 | 48.5 | 48.5 |
| 50° | 1473.2 | 1323.1 | 740.3 | 254.4 | 123.5 | 67.7 | 68.6 | 57.6 | 50.3 | 46.7 | 45.8 |
| 52.5° | 1524.4 | 1401.8 | 774.1 | 245.2 | 114.4 | 62.2 | 65.0 | 58.6 | 48.5 | 44.8 | 43.9 |
| 55° | 1616.0 | 1499.7 | 816.2 | 231.5 | 102.5 | 56.7 | 60.4 | 57.6 | 45.8 | 42.1 | 41.2 |
| 57.5° | 1675.4 | 1591.2 | 849.2 | 216.9 | 85.1 | 53.1 | 53.1 | 55.8 | 43.0 | 39.3 | 38.4 |
| 60° | 1709.3 | 1608.6 | 855.6 | 199.5 | 69.5 | 47.6 | 45.8 | 56.7 | 40.3 | 35.7 | 35.7 |
| 62.5° | 1708.4 | 1549.2 | 823.5 | 183.0 | 60.4 | 43.9 | 41.2 | 49.4 | 37.5 | 33.9 | 32.9 |
| 65° | 1691.0 | 1461.3 | 751.2 | 162.0 | 56.7 | 40.3 | 36.6 | 37.5 | 34.8 | 31.1 | 30.2 |
| 67.5° | 1616.0 | 1309.4 | 635.9 | 140.9 | 54.9 | 36.6 | 33.9 | 32.0 | 30.2 | 27.5 | 26.5 |
| 70° | 1433.9 | 1138.3 | 495.9 | 130.8 | 54.0 | 32.0 | 29.3 | 27.5 | 25.6 | 23.8 | 23.8 |
| 72.5° | 1165.8 | 887.6 | 378.8 | 125.4 | 54.9 | 29.3 | 24.7 | 23.8 | 22.0 | 21.0 | 20.1 |
| 75° | 807.1 | 656.1 | 274.5 | 110.7 | 53.1 | 24.7 | 21.0 | 19.2 | 18.3 | 16.5 | 16.5 |
| 77.5° | 518.8 | 429.2 | 182.1 | 88.8 | 43.0 | 20.1 | 15.6 | 14.6 | 13.7 | 12.8 | 12.8 |
| 80° | 341.3 | 291.9 | 106.1 | 63.1 | 26.5 | 13.7 | 11.0 | 11.0 | 10.1 | 8.2 | 8.2 |
| 82.5° | 216.9 | 220.5 | 54.9 | 29.3 | 15.6 | 8.2 | 6.4 | 5.5 | 5.5 | 3.7 | 3.7 |
| 85° | 47.6 | 83.3 | 24.7 | 11.9 | 5.5 | 0.9 | 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° | 707.3 | 707.3 | 707.3 | 707.3 | 707.3 | 707.3 | 707.3 | 707.3 | 707.3 | 707.3 | 707.3 |
| 2.5° | 614.0 | 606.7 | 603.9 | 603.9 | 592.0 | 592.9 | 592.9 | 600.3 | 599.3 | 605.8 | 603.0 |
| 5° | 499.6 | 492.3 | 492.3 | 494.1 | 495.9 | 487.7 | 490.5 | 483.1 | 496.9 | 486.8 | 479.5 |
| 7.5° | 368.8 | 367.8 | 374.2 | 388.9 | 386.1 | 383.4 | 377.9 | 364.2 | 356.9 | 364.2 | 360.5 |
| 10° | 282.7 | 285.5 | 283.7 | 290.1 | 291.0 | 290.1 | 280.9 | 278.2 | 274.5 | 278.2 | 282.7 |
| 12.5° | 237.0 | 226.0 | 214.1 | 213.2 | 220.5 | 220.5 | 219.6 | 220.5 | 223.3 | 223.3 | 226.9 |
| 15° | 197.6 | 190.3 | 174.8 | 167.5 | 172.9 | 169.3 | 170.2 | 173.9 | 176.6 | 180.3 | 178.4 |
| 17.5° | 157.4 | 151.0 | 143.7 | 139.1 | 141.8 | 139.1 | 138.2 | 137.3 | 137.3 | 136.3 | 140.0 |
| 20° | 119.9 | 119.0 | 121.7 | 119.9 | 120.8 | 119.0 | 116.2 | 112.5 | 109.8 | 111.6 | 113.5 |
| 22.5° | 104.3 | 105.2 | 107.1 | 108.9 | 108.9 | 107.1 | 102.5 | 98.8 | 97.9 | 97.9 | 98.8 |
| 25° | 96.1 | 96.1 | 98.8 | 99.7 | 100.7 | 97.9 | 92.4 | 89.7 | 89.7 | 89.7 | 89.7 |
| 27.5° | 86.9 | 88.8 | 90.6 | 92.4 | 93.3 | 90.6 | 86.0 | 83.3 | 83.3 | 82.4 | 81.4 |
| 30° | 80.5 | 81.4 | 83.3 | 84.2 | 85.1 | 82.4 | 79.6 | 76.9 | 76.9 | 76.9 | 75.9 |
| 32.5° | 73.2 | 75.9 | 76.9 | 77.8 | 78.7 | 76.9 | 74.1 | 72.3 | 71.4 | 70.5 | 68.6 |
| 35° | 67.7 | 68.6 | 71.4 | 71.4 | 72.3 | 71.4 | 69.5 | 67.7 | 65.0 | 64.1 | 64.1 |
| 37.5° | 62.2 | 62.2 | 64.1 | 65.9 | 67.7 | 66.8 | 64.1 | 61.3 | 60.4 | 60.4 | 60.4 |
| 40° | 58.6 | 57.6 | 58.6 | 61.3 | 63.1 | 63.1 | 59.5 | 57.6 | 57.6 | 56.7 | 56.7 |
| 42.5° | 54.0 | 54.0 | 54.0 | 56.7 | 60.4 | 58.6 | 54.9 | 54.9 | 54.9 | 54.0 | 54.0 |
| 45° | 51.2 | 50.3 | 51.2 | 51.2 | 55.8 | 53.1 | 52.2 | 51.2 | 52.2 | 51.2 | 52.2 |
| 47.5° | 47.6 | 47.6 | 47.6 | 48.5 | 51.2 | 49.4 | 48.5 | 48.5 | 49.4 | 49.4 | 49.4 |
| 50° | 44.8 | 44.8 | 44.8 | 45.8 | 46.7 | 46.7 | 46.7 | 46.7 | 46.7 | 47.6 | 47.6 |
| 52.5° | 43.0 | 42.1 | 43.0 | 43.0 | 43.9 | 44.8 | 43.9 | 44.8 | 44.8 | 44.8 | 45.8 |
| 55° | 41.2 | 40.3 | 41.2 | 41.2 | 43.0 | 42.1 | 42.1 | 43.0 | 43.0 | 43.9 | 44.8 |
| 57.5° | 38.4 | 37.5 | 39.3 | 39.3 | 41.2 | 41.2 | 40.3 | 41.2 | 41.2 | 42.1 | 42.1 |
| 60° | 35.7 | 35.7 | 36.6 | 36.6 | 38.4 | 39.3 | 39.3 | 39.3 | 39.3 | 39.3 | 39.3 |
| 62.5° | 32.9 | 32.9 | 33.9 | 34.8 | 36.6 | 36.6 | 37.5 | 37.5 | 37.5 | 37.5 | 36.6 |
| 65° | 30.2 | 31.1 | 32.0 | 32.0 | 33.9 | 34.8 | 34.8 | 34.8 | 34.8 | 34.8 | 34.8 |
| 67.5° | 26.5 | 28.4 | 29.3 | 30.2 | 32.0 | 32.0 | 32.9 | 32.9 | 32.0 | 32.0 | 32.0 |
| 70° | 23.8 | 24.7 | 25.6 | 26.5 | 29.3 | 29.3 | 30.2 | 30.2 | 29.3 | 29.3 | 30.2 |
| 72.5° | 20.1 | 21.0 | 22.0 | 23.8 | 26.5 | 26.5 | 27.5 | 27.5 | 26.5 | 26.5 | 26.5 |
| 75° | 17.4 | 17.4 | 18.3 | 20.1 | 23.8 | 23.8 | 23.8 | 24.7 | 23.8 | 23.8 | 22.9 |
| 77.5° | 12.8 | 13.7 | 14.6 | 17.4 | 20.1 | 21.0 | 21.0 | 21.0 | 20.1 | 20.1 | 19.2 |
| 80° | 8.2 | 9.2 | 11.0 | 12.8 | 15.6 | 16.5 | 17.4 | 17.4 | 16.5 | 16.5 | 15.6 |
| 82.5° | 3.7 | 5.5 | 6.4 | 8.2 | 10.1 | 12.8 | 12.8 | 13.7 | 12.8 | 11.9 | 11.9 |
| 85° | 0.0 | 0.0 | 0.9 | 2.7 | 4.6 | 7.3 | 8.2 | 9.2 | 8.2 | 7.3 | 7.3 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.8 | 1.8 | 1.8 | 0.9 | 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: P437996
 CATALOG NUMBER: ISW-SA1A-730-U-SLL

CANDELA DISTRIBUTION (continued):

| | 285° | 295° | 305° | 315° | 325° | 335° | 345° | 355° | 359° | 360° |
|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|
| 0° | 707.3 | 707.3 | 707.3 | 707.3 | 707.3 | 707.3 | 707.3 | 707.3 | 707.3 | 707.3 |
| 2.5° | 613.1 | 623.1 | 638.7 | 647.8 | 668.9 | 688.1 | 708.2 | 734.8 | 740.3 | 741.2 |
| 5° | 486.8 | 498.7 | 528.0 | 539.9 | 578.3 | 609.4 | 655.2 | 700.0 | 711.9 | 714.6 |
| 7.5° | 371.5 | 380.7 | 412.7 | 435.6 | 477.6 | 521.6 | 580.1 | 633.2 | 659.7 | 662.5 |
| 10° | 290.1 | 314.8 | 339.5 | 373.3 | 409.9 | 452.9 | 514.2 | 582.0 | 611.2 | 609.4 |
| 12.5° | 244.3 | 269.9 | 300.1 | 334.0 | 371.5 | 409.9 | 465.8 | 540.8 | 570.1 | 577.4 |
| 15° | 195.8 | 226.9 | 259.9 | 294.6 | 338.6 | 376.1 | 441.0 | 524.3 | 560.0 | 570.1 |
| 17.5° | 151.9 | 176.6 | 208.6 | 253.5 | 296.5 | 349.5 | 431.9 | 539.9 | 580.1 | 590.2 |
| 20° | 119.9 | 138.2 | 161.0 | 204.1 | 259.0 | 324.8 | 427.3 | 569.2 | 624.1 | 638.7 |
| 22.5° | 102.5 | 109.8 | 126.3 | 163.8 | 221.4 | 298.3 | 424.6 | 610.3 | 679.0 | 703.7 |
| 25° | 91.5 | 96.1 | 105.2 | 129.0 | 183.9 | 275.4 | 429.2 | 661.6 | 755.8 | 775.9 |
| 27.5° | 83.3 | 86.9 | 91.5 | 108.9 | 159.2 | 255.3 | 437.4 | 719.2 | 821.7 | 851.0 |
| 30° | 75.9 | 78.7 | 85.1 | 97.0 | 139.1 | 235.2 | 440.1 | 775.9 | 880.3 | 906.8 |
| 32.5° | 70.5 | 74.1 | 79.6 | 89.7 | 127.2 | 221.4 | 432.8 | 819.0 | 934.3 | 963.5 |
| 35° | 65.0 | 69.5 | 75.0 | 83.3 | 117.1 | 209.5 | 416.3 | 854.6 | 985.5 | 1013.9 |
| 37.5° | 62.2 | 65.0 | 70.5 | 76.9 | 109.8 | 197.6 | 401.7 | 890.3 | 1038.6 | 1077.9 |
| 40° | 58.6 | 61.3 | 66.8 | 72.3 | 100.7 | 184.8 | 391.6 | 936.1 | 1099.0 | 1134.6 |
| 42.5° | 55.8 | 59.5 | 64.1 | 70.5 | 93.3 | 171.1 | 381.6 | 972.7 | 1152.9 | 1190.5 |
| 45° | 54.0 | 57.6 | 62.2 | 70.5 | 86.9 | 160.1 | 370.6 | 1004.7 | 1194.1 | 1230.7 |
| 47.5° | 51.2 | 55.8 | 62.2 | 67.7 | 84.2 | 152.8 | 370.6 | 1043.1 | 1231.6 | 1270.1 |
| 50° | 50.3 | 54.9 | 65.0 | 65.9 | 82.4 | 150.1 | 386.1 | 1087.1 | 1285.6 | 1322.2 |
| 52.5° | 49.4 | 54.0 | 65.0 | 62.2 | 80.5 | 151.9 | 409.9 | 1166.7 | 1355.2 | 1397.3 |
| 55° | 46.7 | 53.1 | 62.2 | 57.6 | 75.9 | 153.7 | 436.5 | 1271.0 | 1458.6 | 1497.9 |
| 57.5° | 44.8 | 52.2 | 58.6 | 53.1 | 69.5 | 151.0 | 472.2 | 1364.3 | 1566.5 | 1594.0 |
| 60° | 42.1 | 51.2 | 51.2 | 49.4 | 62.2 | 142.7 | 512.4 | 1423.8 | 1607.7 | 1629.7 |
| 62.5° | 40.3 | 50.3 | 45.8 | 45.8 | 56.7 | 129.9 | 526.1 | 1409.2 | 1567.5 | 1591.2 |
| 65° | 37.5 | 43.9 | 41.2 | 42.1 | 52.2 | 115.3 | 502.4 | 1317.6 | 1491.5 | 1519.9 |
| 67.5° | 34.8 | 37.5 | 36.6 | 38.4 | 50.3 | 100.7 | 438.3 | 1208.8 | 1393.6 | 1437.5 |
| 70° | 31.1 | 32.9 | 32.9 | 34.8 | 47.6 | 90.6 | 366.0 | 1068.8 | 1266.4 | 1331.4 |
| 72.5° | 28.4 | 29.3 | 29.3 | 32.0 | 44.8 | 85.1 | 289.2 | 906.8 | 1062.4 | 1102.6 |
| 75° | 23.8 | 25.6 | 25.6 | 27.5 | 40.3 | 72.3 | 197.6 | 664.3 | 743.0 | 775.9 |
| 77.5° | 21.0 | 21.0 | 22.0 | 22.9 | 32.0 | 48.5 | 116.2 | 409.0 | 446.5 | 463.9 |
| 80° | 16.5 | 17.4 | 16.5 | 16.5 | 20.1 | 32.0 | 63.1 | 239.7 | 271.8 | 262.6 |
| 82.5° | 11.9 | 11.9 | 10.1 | 10.1 | 11.9 | 17.4 | 27.5 | 124.4 | 127.2 | 122.6 |
| 85° | 6.4 | 4.6 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 26.5 | 12.8 | 10.1 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.9 | 0.9 | 0.9 | 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



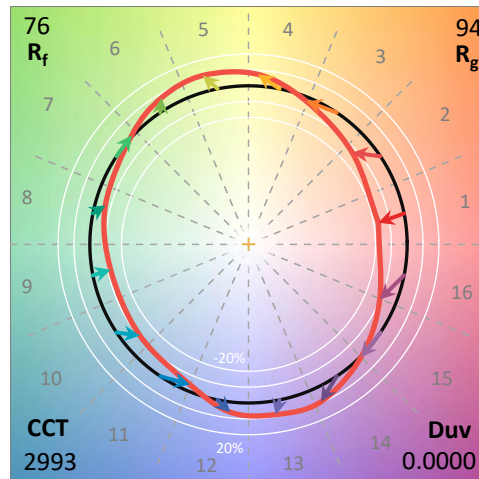
Test Information

Test Method: LM-79-2008
 Report Number: SP1-1908-441-2-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-730-U-5WQ**
 Description: McGRAW EDISON ROADWAY AND AREA LUMINAIRE

THIS IS A REVISION OF SP1-1908-441-2-R3. TO UPDATE THE CATALOG INFORMATION.TESTED IN SITU. (1) 70 CRI, 3000K, 1050MA LIGHTSQUARE WITH 16 LEDS AND TYPE V WIDE OPTICS.

Spectral Parameters

| | | | | | |
|---------------------------|--------|-----------|------|------|-------|
| CCT (K): | 2993 | CRI (Ra): | 71.8 | R9: | -38.3 |
| CIE u': | 0.2508 | R1: | 67.5 | R10: | 62.5 |
| CIE v': | 0.5215 | R2: | 82.9 | R11: | 63.7 |
| Duv: | 0.0000 | R3: | 94.7 | R12: | 57.8 |
| CIE x: | 0.4374 | R4: | 67.7 | R13: | 70.4 |
| CIE y: | 0.4043 | R5: | 67.9 | R14: | 97.3 |
| CIE z: | 0.1583 | R6: | 77.6 | | |
| Peak Wavelength (nm): | 593 | R7: | 76.0 | | |
| Dominant Wavelength (nm): | 582 | R8: | 40.5 | | |
| Purity: | 53 | | | | |
| Rf: | 75.7 | | | | |
| Rg: | 93.9 | | | | |



Test Conditions

Stabilization Time: 53M
 Operation Time: 12H
 Room Temperature (°C) / RH%: 25.0./44%
 Sphere Temperature (°C): 25.7

REPORT NUMBER: SP1-1908-441-2-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: SP1-1908-441-2-R4

CIE 1931 Chromaticity Diagram



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



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-1908-441-2-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 | 2397 | NR | 490 | 24908 | NR | 620 | 118784 | NR | 750 | 5037 | NR | 880 | 2677 | NR |
| 365 | 2084 | NR | 495 | 30998 | NR | 625 | 108951 | NR | 755 | 4413 | NR | 885 | 2940 | NR |
| 370 | 2143 | NR | 500 | 37103 | NR | 630 | 99573 | NR | 760 | 4189 | NR | 890 | 3116 | NR |
| 375 | 2413 | NR | 505 | 42987 | NR | 635 | 90444 | NR | 765 | 3677 | NR | 895 | 3345 | NR |
| 380 | 2172 | NR | 510 | 48702 | NR | 640 | 80749 | NR | 770 | 3366 | NR | 900 | 2312 | NR |
| 385 | 1997 | NR | 515 | 53741 | NR | 645 | 71664 | NR | 775 | 3211 | NR | 905 | 2829 | NR |
| 390 | 1830 | NR | 520 | 57283 | NR | 650 | 63936 | NR | 780 | 2682 | NR | 910 | 2783 | NR |
| 395 | 1861 | NR | 525 | 61876 | NR | 655 | 56611 | NR | 785 | 2804 | NR | 915 | 2662 | NR |
| 400 | 1717 | NR | 530 | 65398 | NR | 660 | 49763 | NR | 790 | 2581 | NR | 920 | 3047 | NR |
| 405 | 1761 | NR | 535 | 69597 | NR | 665 | 42891 | NR | 795 | 2711 | NR | 925 | 2256 | NR |
| 410 | 2680 | NR | 540 | 74214 | NR | 670 | 36939 | NR | 800 | 2609 | NR | 930 | 2976 | NR |
| 415 | 4374 | NR | 545 | 79911 | NR | 675 | 31946 | NR | 805 | 2581 | NR | 935 | 3503 | NR |
| 420 | 8071 | NR | 550 | 86153 | NR | 680 | 27385 | NR | 810 | 2404 | NR | 940 | 4226 | NR |
| 425 | 15169 | NR | 555 | 93952 | NR | 685 | 23504 | NR | 815 | 2556 | NR | 945 | 2930 | NR |
| 430 | 26038 | NR | 560 | 102904 | NR | 690 | 20210 | NR | 820 | 2742 | NR | 950 | 2115 | NR |
| 435 | 41316 | NR | 565 | 112009 | NR | 695 | 17459 | NR | 825 | 2014 | NR | 955 | 2634 | NR |
| 440 | 59674 | NR | 570 | 121662 | NR | 700 | 15207 | NR | 830 | 2488 | NR | 960 | 4200 | NR |
| 445 | 72751 | NR | 575 | 130476 | NR | 705 | 13322 | NR | 835 | 2625 | NR | 965 | 1982 | NR |
| 450 | 65091 | NR | 580 | 137926 | NR | 710 | 11676 | NR | 840 | 2754 | NR | 970 | 3613 | NR |
| 455 | 44894 | NR | 585 | 143406 | NR | 715 | 10626 | NR | 845 | 2708 | NR | 975 | 4034 | NR |
| 460 | 32712 | NR | 590 | 147039 | NR | 720 | 9416 | NR | 850 | 2608 | NR | 980 | 3922 | NR |
| 465 | 25296 | NR | 595 | 147365 | NR | 725 | 8333 | NR | 855 | 2605 | NR | 985 | 1909 | NR |
| 470 | 19318 | NR | 600 | 145800 | NR | 730 | 7134 | NR | 860 | 1765 | NR | 990 | 3617 | NR |
| 475 | 17265 | NR | 605 | 141363 | NR | 735 | 6437 | NR | 865 | 2581 | NR | 995 | 4767 | NR |
| 480 | 18260 | NR | 610 | 134199 | NR | 740 | 5834 | NR | 870 | 3016 | NR | 1000 | 2528 | NR |
| 485 | 20845 | NR | 615 | 127683 | NR | 745 | 5500 | NR | 875 | 3952 | NR | | | |

REPORT NUMBER: SP1-1908-441-2-R4

Scotopic Flux vs. Wavelength



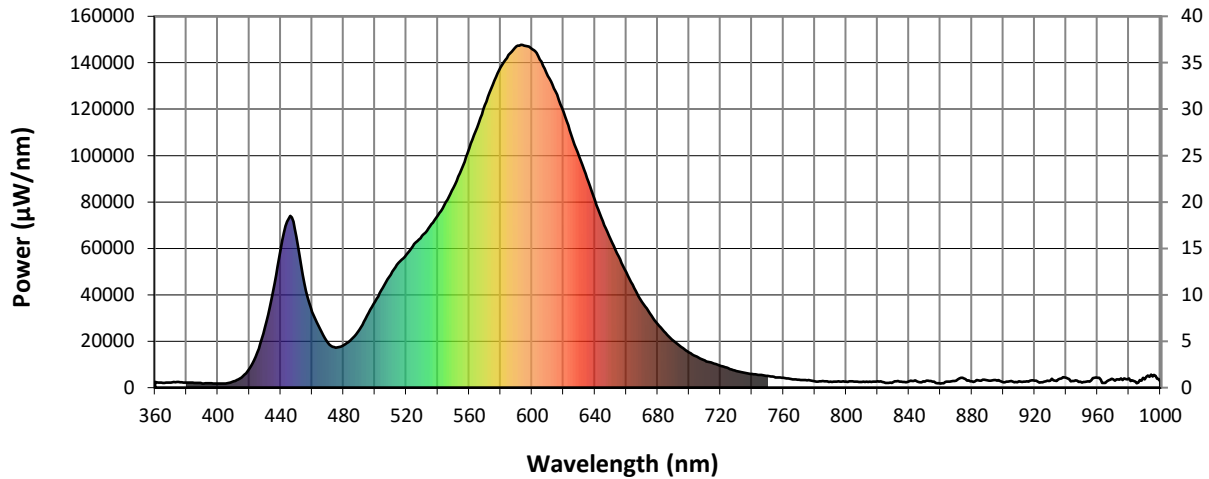
Scotopic Lumens: 8494.8

S/P: 1.23

| 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 | 2397 | NR | 490 | 24908 | NR | 620 | 118784 | NR | 750 | 5037 | NR | 880 | 2677 | NR |
| 365 | 2084 | NR | 495 | 30998 | NR | 625 | 108951 | NR | 755 | 4413 | NR | 885 | 2940 | NR |
| 370 | 2143 | NR | 500 | 37103 | NR | 630 | 99573 | NR | 760 | 4189 | NR | 890 | 3116 | NR |
| 375 | 2413 | NR | 505 | 42987 | NR | 635 | 90444 | NR | 765 | 3677 | NR | 895 | 3345 | NR |
| 380 | 2172 | NR | 510 | 48702 | NR | 640 | 80749 | NR | 770 | 3366 | NR | 900 | 2312 | NR |
| 385 | 1997 | NR | 515 | 53741 | NR | 645 | 71664 | NR | 775 | 3211 | NR | 905 | 2829 | NR |
| 390 | 1830 | NR | 520 | 57283 | NR | 650 | 63936 | NR | 780 | 2682 | NR | 910 | 2783 | NR |
| 395 | 1861 | NR | 525 | 61876 | NR | 655 | 56611 | NR | 785 | 2804 | NR | 915 | 2662 | NR |
| 400 | 1717 | NR | 530 | 65398 | NR | 660 | 49763 | NR | 790 | 2581 | NR | 920 | 3047 | NR |
| 405 | 1761 | NR | 535 | 69597 | NR | 665 | 42891 | NR | 795 | 2711 | NR | 925 | 2256 | NR |
| 410 | 2680 | NR | 540 | 74214 | NR | 670 | 36939 | NR | 800 | 2609 | NR | 930 | 2976 | NR |
| 415 | 4374 | NR | 545 | 79911 | NR | 675 | 31946 | NR | 805 | 2581 | NR | 935 | 3503 | NR |
| 420 | 8071 | NR | 550 | 86153 | NR | 680 | 27385 | NR | 810 | 2404 | NR | 940 | 4226 | NR |
| 425 | 15169 | NR | 555 | 93952 | NR | 685 | 23504 | NR | 815 | 2556 | NR | 945 | 2930 | NR |
| 430 | 26038 | NR | 560 | 102904 | NR | 690 | 20210 | NR | 820 | 2742 | NR | 950 | 2115 | NR |
| 435 | 41316 | NR | 565 | 112009 | NR | 695 | 17459 | NR | 825 | 2014 | NR | 955 | 2634 | NR |
| 440 | 59674 | NR | 570 | 121662 | NR | 700 | 15207 | NR | 830 | 2488 | NR | 960 | 4200 | NR |
| 445 | 72751 | NR | 575 | 130476 | NR | 705 | 13322 | NR | 835 | 2625 | NR | 965 | 1982 | NR |
| 450 | 65091 | NR | 580 | 137926 | NR | 710 | 11676 | NR | 840 | 2754 | NR | 970 | 3613 | NR |
| 455 | 44894 | NR | 585 | 143406 | NR | 715 | 10626 | NR | 845 | 2708 | NR | 975 | 4034 | NR |
| 460 | 32712 | NR | 590 | 147039 | NR | 720 | 9416 | NR | 850 | 2608 | NR | 980 | 3922 | NR |
| 465 | 25296 | NR | 595 | 147365 | NR | 725 | 8333 | NR | 855 | 2605 | NR | 985 | 1909 | NR |
| 470 | 19318 | NR | 600 | 145800 | NR | 730 | 7134 | NR | 860 | 1765 | NR | 990 | 3617 | NR |
| 475 | 17265 | NR | 605 | 141363 | NR | 735 | 6437 | NR | 865 | 2581 | NR | 995 | 4767 | NR |
| 480 | 18260 | NR | 610 | 134199 | NR | 740 | 5834 | NR | 870 | 3016 | NR | 1000 | 2528 | NR |
| 485 | 20845 | NR | 615 | 127683 | NR | 745 | 5500 | NR | 875 | 3952 | NR | | | |

REPORT NUMBER: SP1-1908-441-2-R4

Melanopic Flux vs. Wavelength



Melanopic Lumens: 3101.5 M/P: 0.45

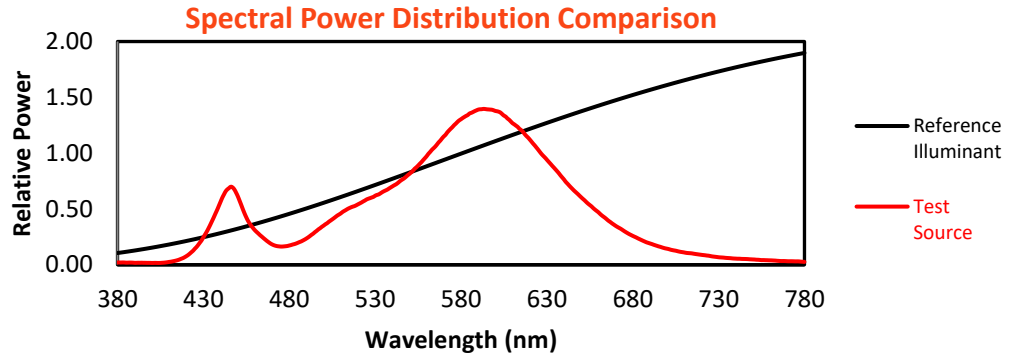
| λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) |
|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|
| 360 | 2397 | NR | 490 | 24908 | NR | 620 | 118784 | NR | 750 | 5037 | NR | 880 | 2677 | NR |
| 365 | 2084 | NR | 495 | 30998 | NR | 625 | 108951 | NR | 755 | 4413 | NR | 885 | 2940 | NR |
| 370 | 2143 | NR | 500 | 37103 | NR | 630 | 99573 | NR | 760 | 4189 | NR | 890 | 3116 | NR |
| 375 | 2413 | NR | 505 | 42987 | NR | 635 | 90444 | NR | 765 | 3677 | NR | 895 | 3345 | NR |
| 380 | 2172 | NR | 510 | 48702 | NR | 640 | 80749 | NR | 770 | 3366 | NR | 900 | 2312 | NR |
| 385 | 1997 | NR | 515 | 53741 | NR | 645 | 71664 | NR | 775 | 3211 | NR | 905 | 2829 | NR |
| 390 | 1830 | NR | 520 | 57283 | NR | 650 | 63936 | NR | 780 | 2682 | NR | 910 | 2783 | NR |
| 395 | 1861 | NR | 525 | 61876 | NR | 655 | 56611 | NR | 785 | 2804 | NR | 915 | 2662 | NR |
| 400 | 1717 | NR | 530 | 65398 | NR | 660 | 49763 | NR | 790 | 2581 | NR | 920 | 3047 | NR |
| 405 | 1761 | NR | 535 | 69597 | NR | 665 | 42891 | NR | 795 | 2711 | NR | 925 | 2256 | NR |
| 410 | 2680 | NR | 540 | 74214 | NR | 670 | 36939 | NR | 800 | 2609 | NR | 930 | 2976 | NR |
| 415 | 4374 | NR | 545 | 79911 | NR | 675 | 31946 | NR | 805 | 2581 | NR | 935 | 3503 | NR |
| 420 | 8071 | NR | 550 | 86153 | NR | 680 | 27385 | NR | 810 | 2404 | NR | 940 | 4226 | NR |
| 425 | 15169 | NR | 555 | 93952 | NR | 685 | 23504 | NR | 815 | 2556 | NR | 945 | 2930 | NR |
| 430 | 26038 | NR | 560 | 102904 | NR | 690 | 20210 | NR | 820 | 2742 | NR | 950 | 2115 | NR |
| 435 | 41316 | NR | 565 | 112009 | NR | 695 | 17459 | NR | 825 | 2014 | NR | 955 | 2634 | NR |
| 440 | 59674 | NR | 570 | 121662 | NR | 700 | 15207 | NR | 830 | 2488 | NR | 960 | 4200 | NR |
| 445 | 72751 | NR | 575 | 130476 | NR | 705 | 13322 | NR | 835 | 2625 | NR | 965 | 1982 | NR |
| 450 | 65091 | NR | 580 | 137926 | NR | 710 | 11676 | NR | 840 | 2754 | NR | 970 | 3613 | NR |
| 455 | 44894 | NR | 585 | 143406 | NR | 715 | 10626 | NR | 845 | 2708 | NR | 975 | 4034 | NR |
| 460 | 32712 | NR | 590 | 147039 | NR | 720 | 9416 | NR | 850 | 2608 | NR | 980 | 3922 | NR |
| 465 | 25296 | NR | 595 | 147365 | NR | 725 | 8333 | NR | 855 | 2605 | NR | 985 | 1909 | NR |
| 470 | 19318 | NR | 600 | 145800 | NR | 730 | 7134 | NR | 860 | 1765 | NR | 990 | 3617 | NR |
| 475 | 17265 | NR | 605 | 141363 | NR | 735 | 6437 | NR | 865 | 2581 | NR | 995 | 4767 | NR |
| 480 | 18260 | NR | 610 | 134199 | NR | 740 | 5834 | NR | 870 | 3016 | NR | 1000 | 2528 | NR |
| 485 | 20845 | NR | 615 | 127683 | NR | 745 | 5500 | NR | 875 | 3952 | NR | | | |

REPORT NUMBER: SP1-1908-441-2-R4

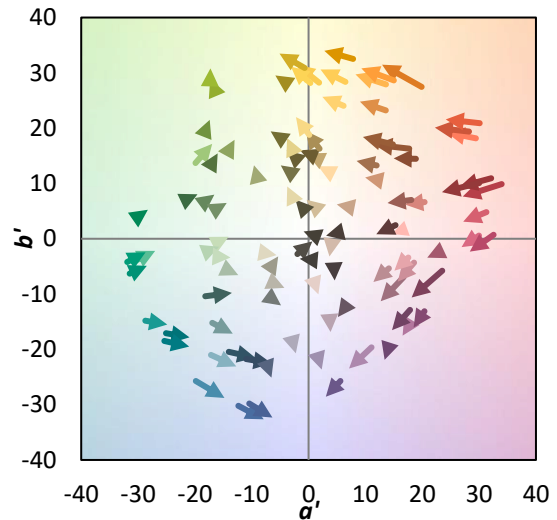
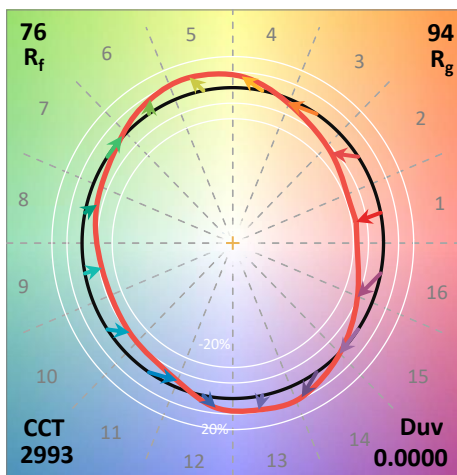
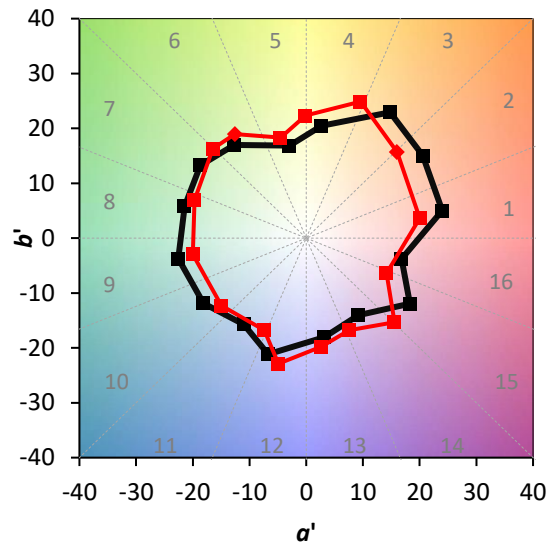
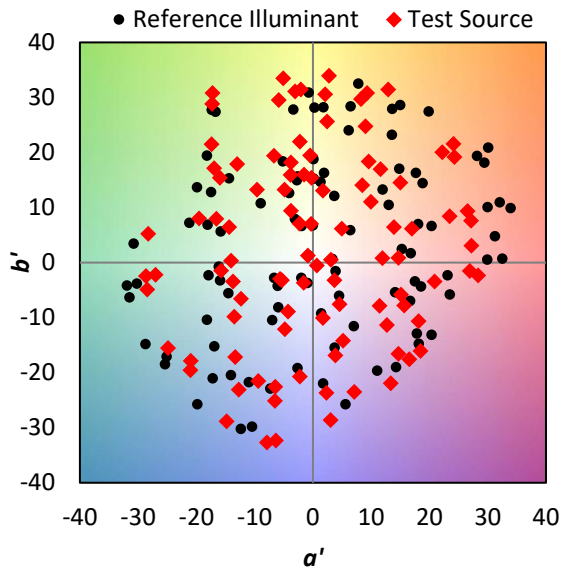
TM-30-18

Summary

$R_f = 75.7$
 $R_g = 93.9$
CIE $R_a = 71.8$
 $R_9 = -38.3$



Color Vector Graphics

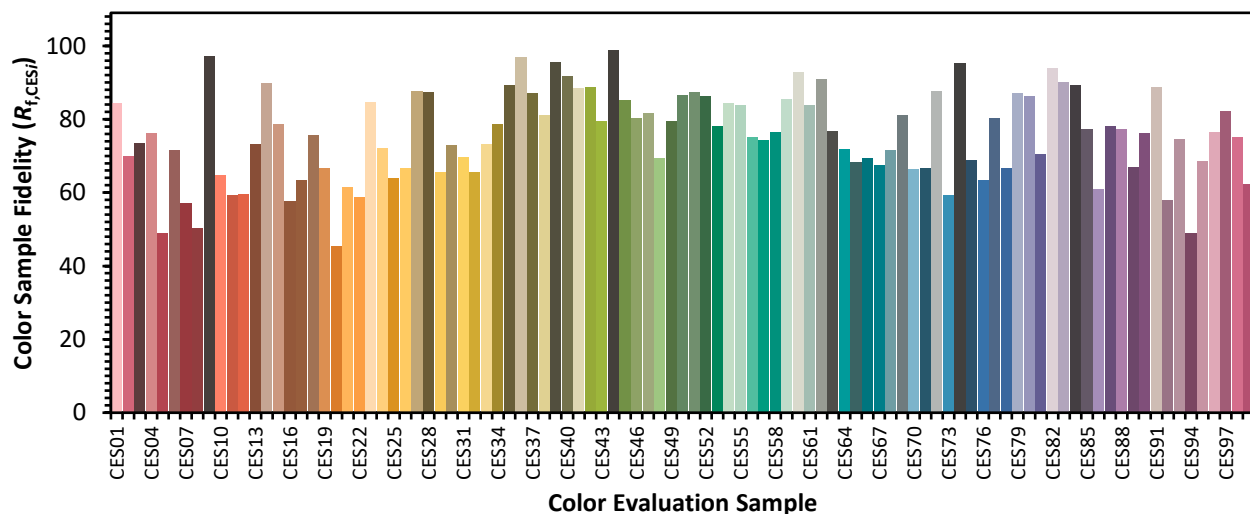


REPORT NUMBER: SP1-1908-441-2-R4

TM-30-18

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

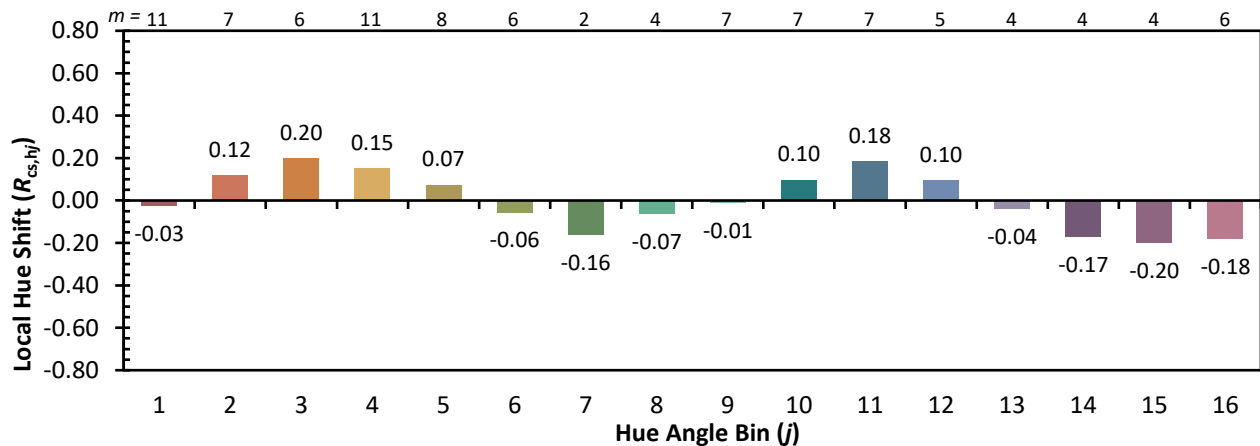
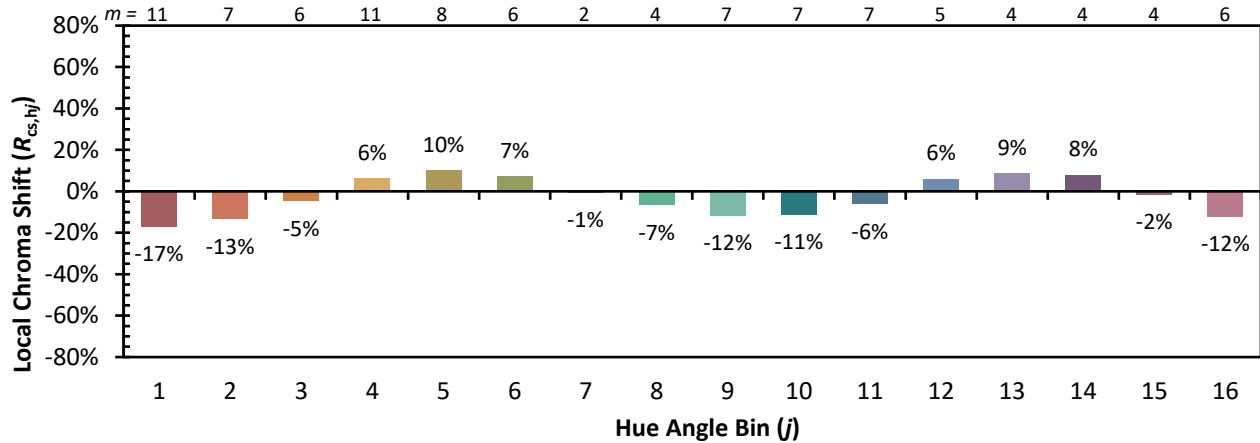
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|------------|------------|------------|------------|
| CES01 = 86 | CES26 = 67 | CES51 = 87 | CES76 = 63 |
| CES02 = 63 | CES27 = 88 | CES52 = 86 | CES77 = 80 |
| CES03 = 31 | CES28 = 87 | CES53 = 78 | CES78 = 67 |
| CES04 = 71 | CES29 = 66 | CES54 = 84 | CES79 = 87 |
| CES05 = 49 | CES30 = 73 | CES55 = 84 | CES80 = 86 |
| CES06 = 51 | CES31 = 70 | CES56 = 75 | CES81 = 71 |
| CES07 = 41 | CES32 = 65 | CES57 = 74 | CES82 = 94 |
| CES08 = 40 | CES33 = 73 | CES58 = 76 | CES83 = 90 |
| CES09 = 29 | CES34 = 79 | CES59 = 85 | CES84 = 89 |
| CES10 = 76 | CES35 = 89 | CES60 = 93 | CES85 = 77 |
| CES11 = 59 | CES36 = 97 | CES61 = 84 | CES86 = 61 |
| CES12 = 65 | CES37 = 87 | CES62 = 91 | CES87 = 78 |
| CES13 = 43 | CES38 = 81 | CES63 = 77 | CES88 = 77 |
| CES14 = 74 | CES39 = 95 | CES64 = 72 | CES89 = 67 |
| CES15 = 71 | CES40 = 92 | CES65 = 68 | CES90 = 76 |
| CES16 = 47 | CES41 = 88 | CES66 = 69 | CES91 = 89 |
| CES17 = 50 | CES42 = 89 | CES67 = 67 | CES92 = 58 |
| CES18 = 56 | CES43 = 79 | CES68 = 72 | CES93 = 74 |
| CES19 = 73 | CES44 = 99 | CES69 = 81 | CES94 = 49 |
| CES20 = 66 | CES45 = 85 | CES70 = 66 | CES95 = 68 |
| CES21 = 87 | CES46 = 80 | CES71 = 67 | CES96 = 76 |
| CES22 = 79 | CES47 = 82 | CES72 = 88 | CES97 = 82 |
| CES23 = 92 | CES48 = 69 | CES73 = 59 | CES98 = 75 |
| CES24 = 91 | CES49 = 80 | CES74 = 95 | CES99 = 62 |
| CES25 = 73 | CES50 = 87 | CES75 = 69 | |



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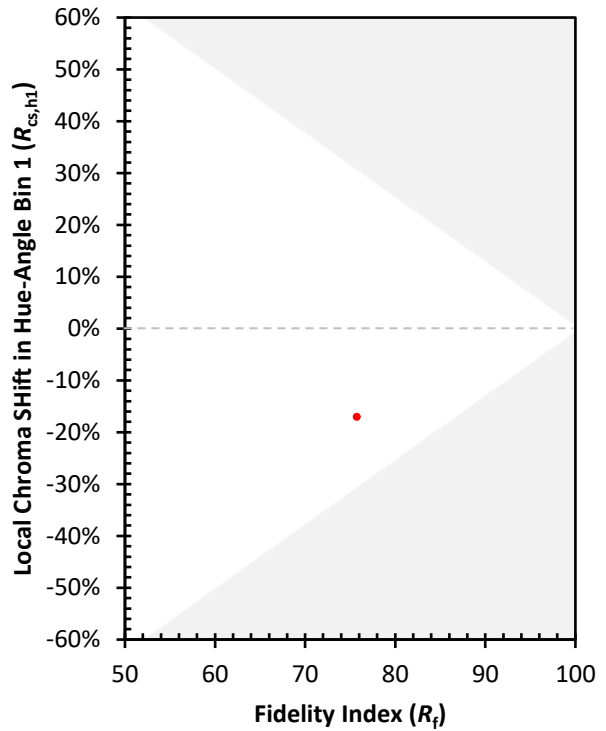
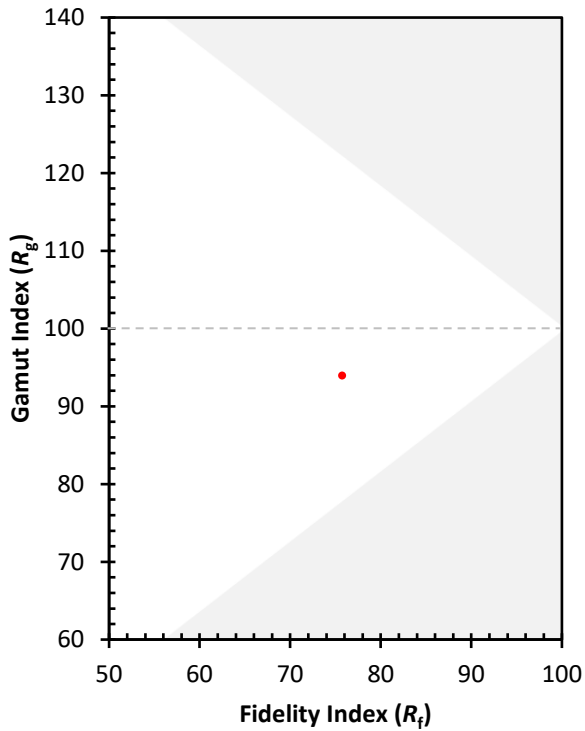
Color Rendition by Hue-Angle Bin



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Measure Comparisons



(END OF REPORT)