

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: P436970

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

Issue Date: 12/9/2020

Test Information

Test Method: LM-79-08
Report Number: P436970
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-074-20)
Test Lab: INNOVATION CENTER
Issue Date: 12/9/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: ISC-SA1A-730-U-SLL
Description: IMPACT ELITE LED CYLINDER 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: 2229 lumens
Efficiency: N/A
Efficacy: 110.9 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

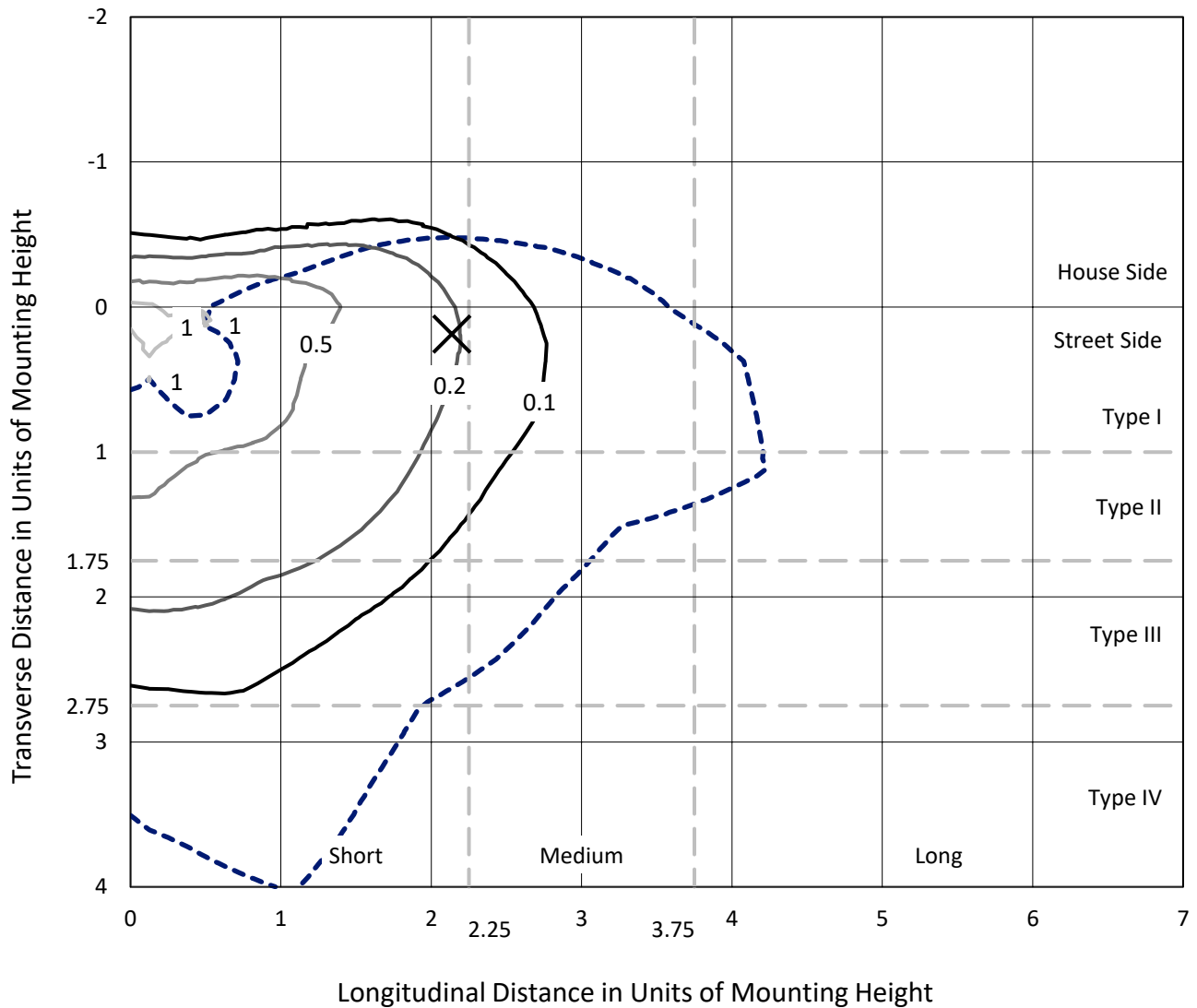
Input Watts (W): 20.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P436970
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Iso-Footcandle Lines of Horizontal Illumination

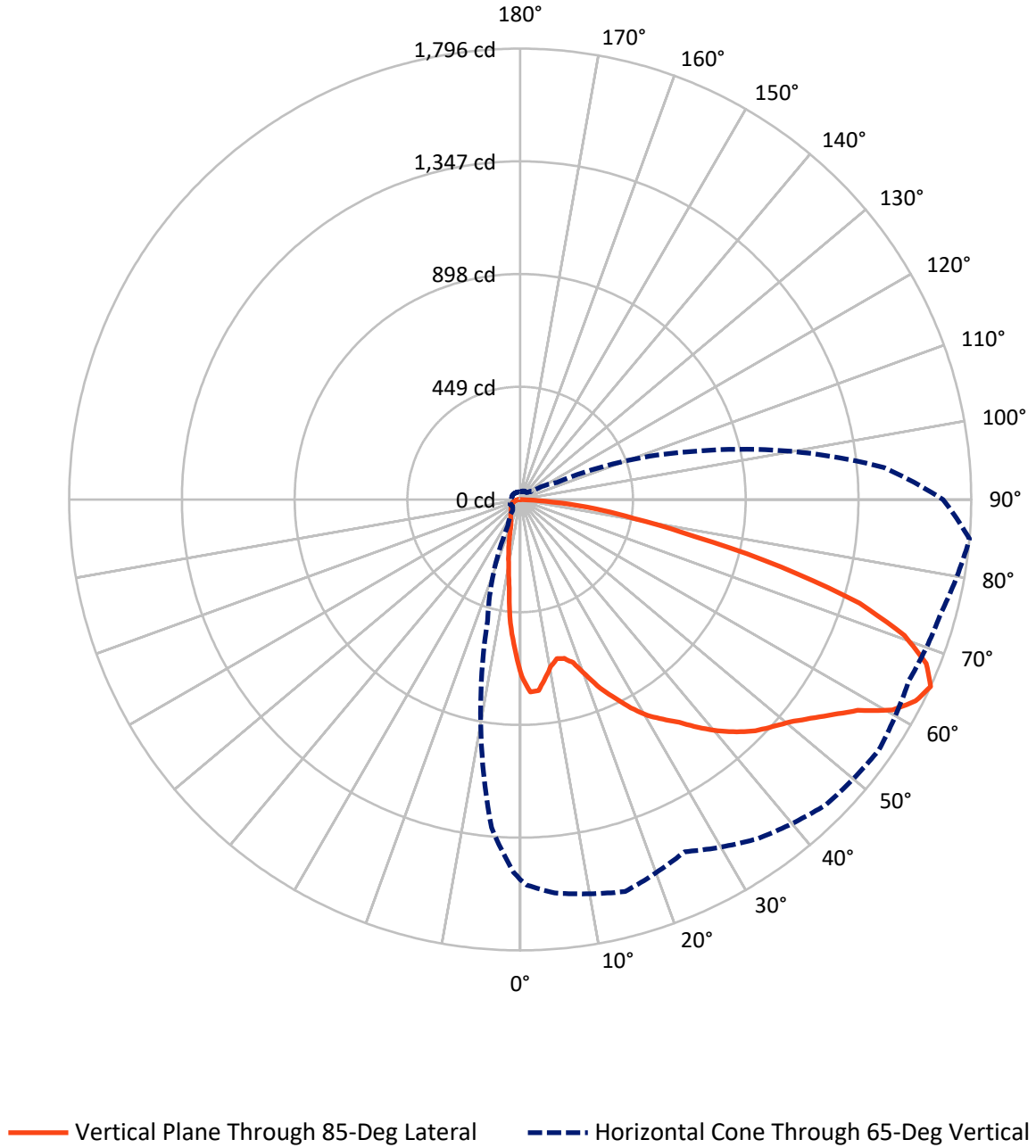
✕ Max cd
 - - - 1/2 Max cd



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



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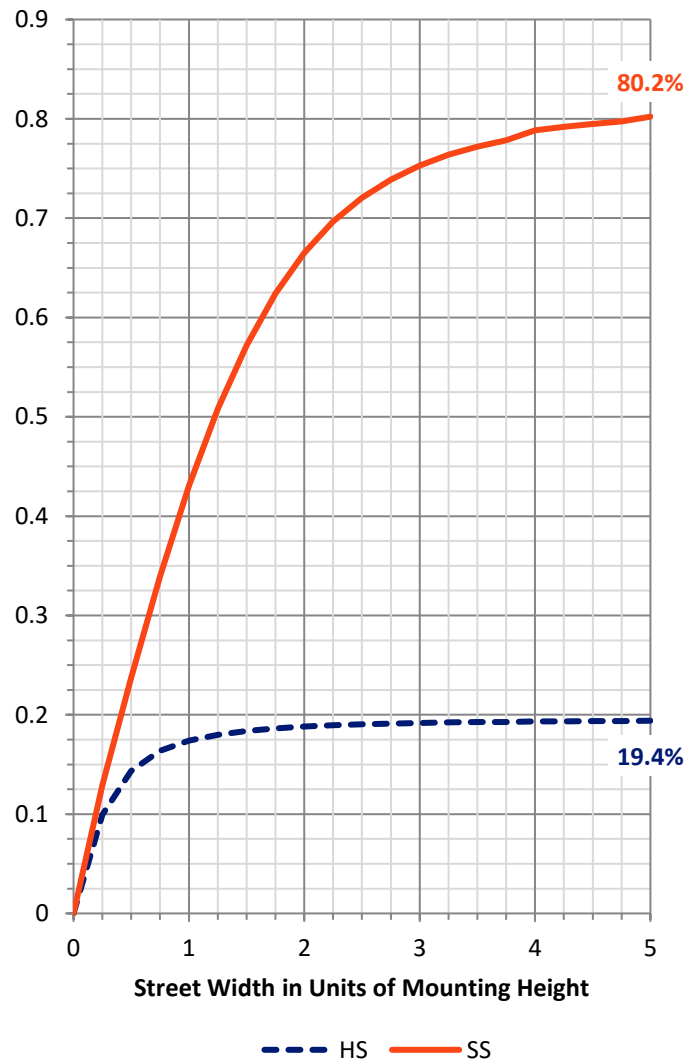
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 436.2 | 0.0 | 436.2 |
| | % Fixture | 19.6 | 0.0 | 19.6 |
| Street Side | Lumens | 1792.8 | 0.0 | 1792.8 |
| | % Fixture | 80.4 | 0.0 | 80.4 |
| Total | Lumens | 2229.0 | 0.0 | 2229.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 53.6 | 2.4 |
| 10°-20° | 111.5 | 5.0 |
| 20°-30° | 160.3 | 7.2 |
| 30°-40° | 230.2 | 10.3 |
| 40°-50° | 325.8 | 14.6 |
| 50°-60° | 453.1 | 20.3 |
| 60°-70° | 539.5 | 24.2 |
| 70°-80° | 311.8 | 14.0 |
| 80°-90° | 43.1 | 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° | 2229.0 | 100.0 |
| 0°-180° | 2229.0 | 100.0 |

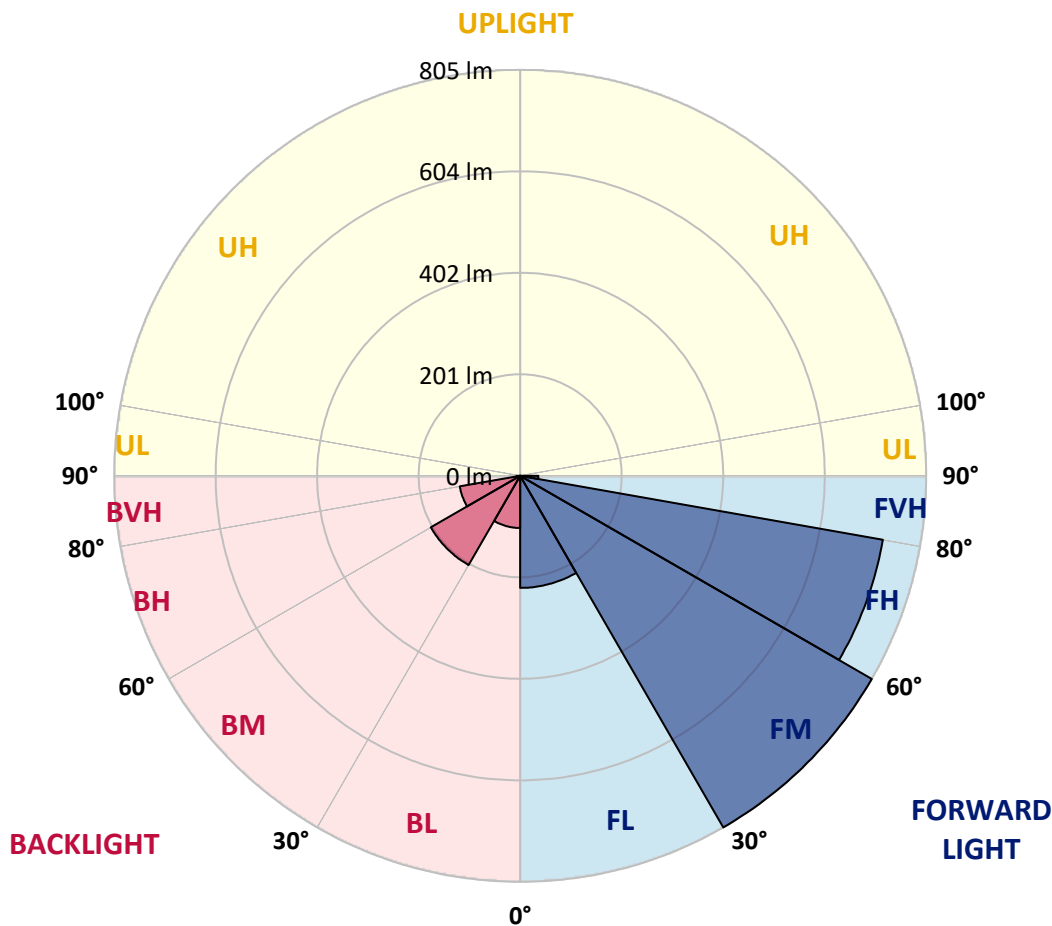


REPORT NUMBER: P436970
 CATALOG NUMBER: ISC-SA1A-730-U-SLL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 222.1 | 10.0 | | | |
| FM (30°-60°) | 804.7 | 36.1 | | | |
| FH (60°-80°) | 729.9 | 32.7 | | | G1/1800 |
| FVH (80°-90°) | 36.1 | 1.6 | | | G1/100 |
| BL (0°-30°) | 103.3 | 4.6 | B0/110 | | |
| BM (30°-60°) | 204.4 | 9.2 | B0/220 | | |
| BH (60°-80°) | 121.5 | 5.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 7.0 | 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: ISC-SA1A-730-U-SLL

CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 704.2 | 704.2 | 704.2 | 704.2 | 704.2 | 704.2 | 704.2 | 704.2 | 704.2 | 704.2 | 704.2 |
| 2.5° | 737.9 | 740.6 | 747.0 | 768.8 | 782.5 | 793.4 | 807.1 | 793.4 | 789.8 | 771.6 | 767.9 |
| 5° | 711.5 | 717.8 | 736.0 | 777.0 | 810.7 | 846.3 | 864.5 | 849.0 | 828.1 | 796.2 | 764.3 |
| 7.5° | 659.5 | 667.7 | 691.4 | 755.2 | 818.9 | 867.2 | 890.9 | 874.5 | 831.7 | 775.2 | 717.8 |
| 10° | 606.7 | 619.4 | 647.7 | 727.8 | 795.3 | 849.0 | 885.4 | 868.1 | 816.2 | 742.4 | 674.1 |
| 12.5° | 574.8 | 583.9 | 615.8 | 699.6 | 770.7 | 824.4 | 851.7 | 841.7 | 793.4 | 723.3 | 650.4 |
| 15° | 567.5 | 576.6 | 608.5 | 689.6 | 752.4 | 792.5 | 798.9 | 801.6 | 783.4 | 729.7 | 656.8 |
| 17.5° | 587.6 | 594.8 | 638.6 | 706.0 | 731.5 | 739.7 | 749.7 | 761.6 | 770.7 | 742.4 | 683.2 |
| 20° | 635.8 | 650.4 | 688.7 | 739.7 | 726.0 | 706.9 | 712.4 | 726.9 | 761.6 | 779.8 | 744.2 |
| 22.5° | 700.5 | 716.9 | 765.2 | 786.1 | 729.7 | 688.7 | 684.1 | 696.9 | 760.6 | 820.8 | 817.1 |
| 25° | 772.5 | 795.3 | 847.2 | 848.1 | 745.2 | 675.9 | 666.8 | 678.7 | 758.8 | 857.2 | 875.4 |
| 27.5° | 847.2 | 868.1 | 924.6 | 896.4 | 775.2 | 676.8 | 665.9 | 677.7 | 763.4 | 896.4 | 940.1 |
| 30° | 902.7 | 930.1 | 979.3 | 941.9 | 794.3 | 688.7 | 672.3 | 687.8 | 773.4 | 916.4 | 997.5 |
| 32.5° | 959.2 | 976.5 | 1028.5 | 968.3 | 815.3 | 706.9 | 685.9 | 709.6 | 798.9 | 935.5 | 1043.0 |
| 35° | 1009.3 | 1032.1 | 1084.9 | 983.8 | 846.3 | 737.9 | 710.5 | 741.5 | 835.3 | 962.9 | 1089.5 |
| 37.5° | 1073.1 | 1095.0 | 1143.2 | 1005.7 | 871.8 | 777.0 | 754.3 | 794.3 | 880.0 | 987.5 | 1151.4 |
| 40° | 1129.6 | 1164.2 | 1200.6 | 1033.0 | 900.9 | 834.4 | 819.9 | 874.5 | 940.1 | 1021.2 | 1211.6 |
| 42.5° | 1185.1 | 1214.3 | 1254.4 | 1064.0 | 938.3 | 904.6 | 910.9 | 968.3 | 1013.0 | 1072.2 | 1265.3 |
| 45° | 1225.2 | 1258.9 | 1294.5 | 1088.6 | 986.6 | 980.2 | 1023.0 | 1071.3 | 1087.7 | 1125.9 | 1313.6 |
| 47.5° | 1264.4 | 1290.8 | 1322.7 | 1113.2 | 1044.9 | 1064.9 | 1139.6 | 1176.9 | 1160.5 | 1174.2 | 1351.8 |
| 50° | 1316.3 | 1344.6 | 1353.7 | 1152.3 | 1118.6 | 1172.4 | 1253.5 | 1278.1 | 1230.7 | 1212.5 | 1391.9 |
| 52.5° | 1391.0 | 1404.7 | 1400.1 | 1198.8 | 1188.8 | 1284.4 | 1350.9 | 1388.3 | 1303.6 | 1248.9 | 1447.5 |
| 55° | 1491.2 | 1514.9 | 1485.8 | 1274.4 | 1260.8 | 1391.9 | 1469.4 | 1487.6 | 1384.6 | 1294.5 | 1511.3 |
| 57.5° | 1586.9 | 1607.8 | 1598.7 | 1366.4 | 1354.6 | 1484.8 | 1559.5 | 1576.9 | 1463.9 | 1379.2 | 1584.1 |
| 60° | 1622.4 | 1628.8 | 1661.6 | 1463.9 | 1448.4 | 1564.1 | 1648.8 | 1651.5 | 1558.6 | 1481.2 | 1702.6 |
| 62.5° | 1584.1 | 1609.6 | 1641.5 | 1555.0 | 1504.9 | 1632.4 | 1708.0 | 1725.3 | 1648.8 | 1605.1 | 1767.2 |
| 65° | 1513.1 | 1535.9 | 1573.2 | 1616.0 | 1547.7 | 1648.8 | 1719.9 | 1741.7 | 1707.1 | 1735.4 | 1795.5 |
| 67.5° | 1431.1 | 1459.3 | 1484.8 | 1626.0 | 1542.2 | 1555.0 | 1614.2 | 1627.9 | 1676.1 | 1792.7 | 1743.6 |
| 70° | 1325.4 | 1357.3 | 1379.2 | 1586.9 | 1412.0 | 1285.3 | 1327.3 | 1364.6 | 1438.4 | 1690.7 | 1622.4 |
| 72.5° | 1097.7 | 1148.7 | 1203.4 | 1409.2 | 1142.3 | 998.4 | 1031.2 | 1055.8 | 1108.6 | 1443.9 | 1412.9 |
| 75° | 772.5 | 809.8 | 877.2 | 1135.0 | 877.2 | 706.9 | 757.9 | 757.9 | 824.4 | 1186.1 | 1073.1 |
| 77.5° | 461.9 | 462.8 | 528.3 | 747.0 | 533.8 | 476.4 | 505.6 | 519.2 | 539.3 | 839.9 | 712.4 |
| 80° | 261.4 | 265.1 | 286.9 | 482.8 | 316.1 | 325.2 | 359.8 | 396.3 | 366.2 | 521.1 | 458.2 |
| 82.5° | 122.1 | 107.5 | 113.9 | 227.7 | 179.5 | 212.3 | 217.7 | 234.1 | 235.9 | 333.4 | 300.6 |
| 85° | 10.0 | 8.2 | 10.9 | 41.0 | 31.9 | 29.2 | 21.0 | 40.1 | 62.9 | 145.8 | 129.4 |
| 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° | 704.2 | 704.2 | 704.2 | 704.2 | 704.2 | 704.2 | 704.2 | 704.2 | 704.2 | 704.2 | 704.2 |
| 2.5° | 756.1 | 747.0 | 726.9 | 711.5 | 696.9 | 669.5 | 658.6 | 643.1 | 634.9 | 620.4 | 624.0 |
| 5° | 740.6 | 719.6 | 674.1 | 643.1 | 603.0 | 570.3 | 550.2 | 532.0 | 524.7 | 509.2 | 503.8 |
| 7.5° | 684.1 | 665.9 | 608.5 | 557.5 | 508.3 | 469.1 | 431.8 | 404.5 | 391.7 | 378.0 | 377.1 |
| 10° | 635.8 | 605.8 | 540.2 | 480.1 | 423.6 | 387.2 | 359.8 | 337.1 | 317.0 | 299.7 | 289.7 |
| 12.5° | 608.5 | 571.2 | 498.3 | 425.4 | 386.2 | 360.7 | 330.7 | 302.4 | 279.7 | 259.6 | 247.8 |
| 15° | 608.5 | 564.8 | 478.2 | 407.2 | 368.0 | 329.8 | 295.1 | 266.0 | 235.9 | 212.3 | 205.0 |
| 17.5° | 636.8 | 583.0 | 482.8 | 395.4 | 339.8 | 297.0 | 253.2 | 215.0 | 185.8 | 164.9 | 157.6 |
| 20° | 692.3 | 627.6 | 493.7 | 381.7 | 312.5 | 253.2 | 200.4 | 159.4 | 133.0 | 123.0 | 121.2 |
| 22.5° | 757.0 | 681.4 | 510.1 | 368.9 | 284.2 | 206.8 | 150.3 | 121.2 | 109.3 | 105.7 | 105.7 |
| 25° | 828.1 | 741.5 | 531.1 | 355.3 | 255.1 | 164.0 | 114.8 | 101.1 | 96.6 | 94.7 | 94.7 |
| 27.5° | 894.6 | 807.1 | 568.4 | 349.8 | 227.7 | 133.0 | 100.2 | 90.2 | 87.5 | 85.6 | 86.5 |
| 30° | 959.2 | 865.4 | 606.7 | 338.9 | 197.7 | 115.7 | 90.2 | 82.9 | 79.3 | 78.3 | 79.3 |
| 32.5° | 1014.8 | 915.5 | 633.1 | 322.5 | 176.7 | 103.8 | 83.8 | 76.5 | 72.9 | 72.0 | 72.9 |
| 35° | 1078.6 | 964.7 | 659.5 | 310.6 | 165.8 | 96.6 | 79.3 | 72.0 | 68.3 | 66.5 | 66.5 |
| 37.5° | 1153.3 | 1023.9 | 679.6 | 293.3 | 158.5 | 89.3 | 75.6 | 68.3 | 63.8 | 61.9 | 61.9 |
| 40° | 1253.5 | 1095.9 | 696.0 | 279.7 | 150.3 | 85.6 | 71.1 | 64.7 | 60.1 | 58.3 | 57.4 |
| 42.5° | 1322.7 | 1158.7 | 709.6 | 270.6 | 142.1 | 83.8 | 68.3 | 62.9 | 57.4 | 54.7 | 53.7 |
| 45° | 1370.1 | 1214.3 | 718.7 | 266.0 | 134.8 | 79.3 | 66.5 | 61.0 | 54.7 | 51.0 | 51.0 |
| 47.5° | 1415.6 | 1259.8 | 719.6 | 259.6 | 129.4 | 73.8 | 69.2 | 58.3 | 51.9 | 48.3 | 48.3 |
| 50° | 1466.6 | 1317.2 | 737.0 | 253.2 | 123.0 | 67.4 | 68.3 | 57.4 | 50.1 | 46.5 | 45.5 |
| 52.5° | 1517.6 | 1395.6 | 770.7 | 244.1 | 113.9 | 61.9 | 64.7 | 58.3 | 48.3 | 44.6 | 43.7 |
| 55° | 1608.7 | 1493.0 | 812.6 | 230.5 | 102.0 | 56.5 | 60.1 | 57.4 | 45.5 | 41.9 | 41.0 |
| 57.5° | 1667.9 | 1584.1 | 845.4 | 215.9 | 84.7 | 52.8 | 52.8 | 55.6 | 42.8 | 39.2 | 38.3 |
| 60° | 1701.7 | 1601.4 | 851.7 | 198.6 | 69.2 | 47.4 | 45.5 | 56.5 | 40.1 | 35.5 | 35.5 |
| 62.5° | 1700.7 | 1542.2 | 819.9 | 182.2 | 60.1 | 43.7 | 41.0 | 49.2 | 37.3 | 33.7 | 32.8 |
| 65° | 1683.4 | 1454.8 | 747.9 | 161.2 | 56.5 | 40.1 | 36.4 | 37.3 | 34.6 | 31.0 | 30.1 |
| 67.5° | 1608.7 | 1303.6 | 633.1 | 140.3 | 54.7 | 36.4 | 33.7 | 31.9 | 30.1 | 27.3 | 26.4 |
| 70° | 1427.5 | 1133.2 | 493.7 | 130.3 | 53.7 | 31.9 | 29.2 | 27.3 | 25.5 | 23.7 | 23.7 |
| 72.5° | 1160.5 | 883.6 | 377.1 | 124.8 | 54.7 | 29.2 | 24.6 | 23.7 | 21.9 | 21.0 | 20.0 |
| 75° | 803.5 | 653.1 | 273.3 | 110.2 | 52.8 | 24.6 | 21.0 | 19.1 | 18.2 | 16.4 | 16.4 |
| 77.5° | 516.5 | 427.2 | 181.3 | 88.4 | 42.8 | 20.0 | 15.5 | 14.6 | 13.7 | 12.8 | 12.8 |
| 80° | 339.8 | 290.6 | 105.7 | 62.9 | 26.4 | 13.7 | 10.9 | 10.9 | 10.0 | 8.2 | 8.2 |
| 82.5° | 215.9 | 219.5 | 54.7 | 29.2 | 15.5 | 8.2 | 6.4 | 5.5 | 5.5 | 3.6 | 3.6 |
| 85° | 47.4 | 82.9 | 24.6 | 11.8 | 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° | 704.2 | 704.2 | 704.2 | 704.2 | 704.2 | 704.2 | 704.2 | 704.2 | 704.2 | 704.2 | 704.2 |
| 2.5° | 611.2 | 604.0 | 601.2 | 601.2 | 589.4 | 590.3 | 590.3 | 597.6 | 596.7 | 603.0 | 600.3 |
| 5° | 497.4 | 490.1 | 490.1 | 491.9 | 493.7 | 485.5 | 488.3 | 481.0 | 494.6 | 484.6 | 477.3 |
| 7.5° | 367.1 | 366.2 | 372.6 | 387.2 | 384.4 | 381.7 | 376.2 | 362.6 | 355.3 | 362.6 | 358.9 |
| 10° | 281.5 | 284.2 | 282.4 | 288.8 | 289.7 | 288.8 | 279.7 | 276.9 | 273.3 | 276.9 | 281.5 |
| 12.5° | 235.9 | 225.0 | 213.2 | 212.3 | 219.5 | 219.5 | 218.6 | 219.5 | 222.3 | 222.3 | 225.9 |
| 15° | 196.8 | 189.5 | 174.0 | 166.7 | 172.2 | 168.5 | 169.4 | 173.1 | 175.8 | 179.5 | 177.6 |
| 17.5° | 156.7 | 150.3 | 143.0 | 138.5 | 141.2 | 138.5 | 137.6 | 136.6 | 136.6 | 135.7 | 139.4 |
| 20° | 119.3 | 118.4 | 121.2 | 119.3 | 120.2 | 118.4 | 115.7 | 112.0 | 109.3 | 111.1 | 113.0 |
| 22.5° | 103.8 | 104.8 | 106.6 | 108.4 | 108.4 | 106.6 | 102.0 | 98.4 | 97.5 | 97.5 | 98.4 |
| 25° | 95.6 | 95.6 | 98.4 | 99.3 | 100.2 | 97.5 | 92.0 | 89.3 | 89.3 | 89.3 | 89.3 |
| 27.5° | 86.5 | 88.4 | 90.2 | 92.0 | 92.9 | 90.2 | 85.6 | 82.9 | 82.9 | 82.0 | 81.1 |
| 30° | 80.2 | 81.1 | 82.9 | 83.8 | 84.7 | 82.0 | 79.3 | 76.5 | 76.5 | 76.5 | 75.6 |
| 32.5° | 72.9 | 75.6 | 76.5 | 77.4 | 78.3 | 76.5 | 73.8 | 72.0 | 71.1 | 70.1 | 68.3 |
| 35° | 67.4 | 68.3 | 71.1 | 71.1 | 72.0 | 71.1 | 69.2 | 67.4 | 64.7 | 63.8 | 63.8 |
| 37.5° | 61.9 | 61.9 | 63.8 | 65.6 | 67.4 | 66.5 | 63.8 | 61.0 | 60.1 | 60.1 | 60.1 |
| 40° | 58.3 | 57.4 | 58.3 | 61.0 | 62.9 | 62.9 | 59.2 | 57.4 | 57.4 | 56.5 | 56.5 |
| 42.5° | 53.7 | 53.7 | 53.7 | 56.5 | 60.1 | 58.3 | 54.7 | 54.7 | 54.7 | 53.7 | 53.7 |
| 45° | 51.0 | 50.1 | 51.0 | 51.0 | 55.6 | 52.8 | 51.9 | 51.0 | 51.9 | 51.0 | 51.9 |
| 47.5° | 47.4 | 47.4 | 47.4 | 48.3 | 51.0 | 49.2 | 48.3 | 48.3 | 49.2 | 49.2 | 49.2 |
| 50° | 44.6 | 44.6 | 44.6 | 45.5 | 46.5 | 46.5 | 46.5 | 46.5 | 46.5 | 47.4 | 47.4 |
| 52.5° | 42.8 | 41.9 | 42.8 | 42.8 | 43.7 | 44.6 | 43.7 | 44.6 | 44.6 | 44.6 | 45.5 |
| 55° | 41.0 | 40.1 | 41.0 | 41.0 | 42.8 | 41.9 | 41.9 | 42.8 | 42.8 | 43.7 | 44.6 |
| 57.5° | 38.3 | 37.3 | 39.2 | 39.2 | 41.0 | 41.0 | 40.1 | 41.0 | 41.0 | 41.9 | 41.9 |
| 60° | 35.5 | 35.5 | 36.4 | 36.4 | 38.3 | 39.2 | 39.2 | 39.2 | 39.2 | 39.2 | 39.2 |
| 62.5° | 32.8 | 32.8 | 33.7 | 34.6 | 36.4 | 36.4 | 37.3 | 37.3 | 37.3 | 37.3 | 36.4 |
| 65° | 30.1 | 31.0 | 31.9 | 31.9 | 33.7 | 34.6 | 34.6 | 34.6 | 34.6 | 34.6 | 34.6 |
| 67.5° | 26.4 | 28.2 | 29.2 | 30.1 | 31.9 | 31.9 | 32.8 | 32.8 | 31.9 | 31.9 | 31.9 |
| 70° | 23.7 | 24.6 | 25.5 | 26.4 | 29.2 | 29.2 | 30.1 | 30.1 | 29.2 | 29.2 | 30.1 |
| 72.5° | 20.0 | 21.0 | 21.9 | 23.7 | 26.4 | 26.4 | 27.3 | 27.3 | 26.4 | 26.4 | 26.4 |
| 75° | 17.3 | 17.3 | 18.2 | 20.0 | 23.7 | 23.7 | 23.7 | 24.6 | 23.7 | 23.7 | 22.8 |
| 77.5° | 12.8 | 13.7 | 14.6 | 17.3 | 20.0 | 21.0 | 21.0 | 21.0 | 20.0 | 20.0 | 19.1 |
| 80° | 8.2 | 9.1 | 10.9 | 12.8 | 15.5 | 16.4 | 17.3 | 17.3 | 16.4 | 16.4 | 15.5 |
| 82.5° | 3.6 | 5.5 | 6.4 | 8.2 | 10.0 | 12.8 | 12.8 | 13.7 | 12.8 | 11.8 | 11.8 |
| 85° | 0.0 | 0.0 | 0.9 | 2.7 | 4.6 | 7.3 | 8.2 | 9.1 | 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: P436970
 CATALOG NUMBER: ISC-SA1A-730-U-SLL

CANDELA DISTRIBUTION (continued):

| | 285° | 295° | 305° | 315° | 325° | 335° | 345° | 355° | 359° | 360° |
|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|
| 0° | 704.2 | 704.2 | 704.2 | 704.2 | 704.2 | 704.2 | 704.2 | 704.2 | 704.2 | 704.2 |
| 2.5° | 610.3 | 620.4 | 635.8 | 645.0 | 665.9 | 685.0 | 705.1 | 731.5 | 737.0 | 737.9 |
| 5° | 484.6 | 496.5 | 525.6 | 537.5 | 575.7 | 606.7 | 652.2 | 696.9 | 708.7 | 711.5 |
| 7.5° | 369.8 | 379.0 | 410.8 | 433.6 | 475.5 | 519.2 | 577.5 | 630.4 | 656.8 | 659.5 |
| 10° | 288.8 | 313.4 | 338.0 | 371.7 | 408.1 | 450.9 | 512.0 | 579.4 | 608.5 | 606.7 |
| 12.5° | 243.2 | 268.7 | 298.8 | 332.5 | 369.8 | 408.1 | 463.7 | 538.4 | 567.5 | 574.8 |
| 15° | 194.9 | 225.9 | 258.7 | 293.3 | 337.1 | 374.4 | 439.1 | 522.0 | 557.5 | 567.5 |
| 17.5° | 151.2 | 175.8 | 207.7 | 252.3 | 295.1 | 348.0 | 430.0 | 537.5 | 577.5 | 587.6 |
| 20° | 119.3 | 137.6 | 160.3 | 203.1 | 257.8 | 323.4 | 425.4 | 566.6 | 621.3 | 635.8 |
| 22.5° | 102.0 | 109.3 | 125.7 | 163.1 | 220.4 | 297.0 | 422.7 | 607.6 | 675.9 | 700.5 |
| 25° | 91.1 | 95.6 | 104.8 | 128.4 | 183.1 | 274.2 | 427.2 | 658.6 | 752.4 | 772.5 |
| 27.5° | 82.9 | 86.5 | 91.1 | 108.4 | 158.5 | 254.2 | 435.4 | 716.0 | 818.0 | 847.2 |
| 30° | 75.6 | 78.3 | 84.7 | 96.6 | 138.5 | 234.1 | 438.2 | 772.5 | 876.3 | 902.7 |
| 32.5° | 70.1 | 73.8 | 79.3 | 89.3 | 126.6 | 220.4 | 430.9 | 815.3 | 930.1 | 959.2 |
| 35° | 64.7 | 69.2 | 74.7 | 82.9 | 116.6 | 208.6 | 414.5 | 850.8 | 981.1 | 1009.3 |
| 37.5° | 61.9 | 64.7 | 70.1 | 76.5 | 109.3 | 196.8 | 399.9 | 886.4 | 1033.9 | 1073.1 |
| 40° | 58.3 | 61.0 | 66.5 | 72.0 | 100.2 | 184.0 | 389.9 | 931.9 | 1094.0 | 1129.6 |
| 42.5° | 55.6 | 59.2 | 63.8 | 70.1 | 92.9 | 170.3 | 379.9 | 968.3 | 1147.8 | 1185.1 |
| 45° | 53.7 | 57.4 | 61.9 | 70.1 | 86.5 | 159.4 | 368.9 | 1000.2 | 1188.8 | 1225.2 |
| 47.5° | 51.0 | 55.6 | 61.9 | 67.4 | 83.8 | 152.1 | 368.9 | 1038.5 | 1226.1 | 1264.4 |
| 50° | 50.1 | 54.7 | 64.7 | 65.6 | 82.0 | 149.4 | 384.4 | 1082.2 | 1279.9 | 1316.3 |
| 52.5° | 49.2 | 53.7 | 64.7 | 61.9 | 80.2 | 151.2 | 408.1 | 1161.5 | 1349.1 | 1391.0 |
| 55° | 46.5 | 52.8 | 61.9 | 57.4 | 75.6 | 153.0 | 434.5 | 1265.3 | 1452.1 | 1491.2 |
| 57.5° | 44.6 | 51.9 | 58.3 | 52.8 | 69.2 | 150.3 | 470.0 | 1358.2 | 1559.5 | 1586.9 |
| 60° | 41.9 | 51.0 | 51.0 | 49.2 | 61.9 | 142.1 | 510.1 | 1417.4 | 1600.5 | 1622.4 |
| 62.5° | 40.1 | 50.1 | 45.5 | 45.5 | 56.5 | 129.4 | 523.8 | 1402.9 | 1560.5 | 1584.1 |
| 65° | 37.3 | 43.7 | 41.0 | 41.9 | 51.9 | 114.8 | 500.1 | 1311.8 | 1484.8 | 1513.1 |
| 67.5° | 34.6 | 37.3 | 36.4 | 38.3 | 50.1 | 100.2 | 436.3 | 1203.4 | 1387.4 | 1431.1 |
| 70° | 31.0 | 32.8 | 32.8 | 34.6 | 47.4 | 90.2 | 364.4 | 1064.0 | 1260.8 | 1325.4 |
| 72.5° | 28.2 | 29.2 | 29.2 | 31.9 | 44.6 | 84.7 | 287.9 | 902.7 | 1057.6 | 1097.7 |
| 75° | 23.7 | 25.5 | 25.5 | 27.3 | 40.1 | 72.0 | 196.8 | 661.3 | 739.7 | 772.5 |
| 77.5° | 21.0 | 21.0 | 21.9 | 22.8 | 31.9 | 48.3 | 115.7 | 407.2 | 444.5 | 461.9 |
| 80° | 16.4 | 17.3 | 16.4 | 16.4 | 20.0 | 31.9 | 62.9 | 238.7 | 270.6 | 261.4 |
| 82.5° | 11.8 | 11.8 | 10.0 | 10.0 | 11.8 | 17.3 | 27.3 | 123.9 | 126.6 | 122.1 |
| 85° | 6.4 | 4.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 26.4 | 12.8 | 10.0 |
| 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

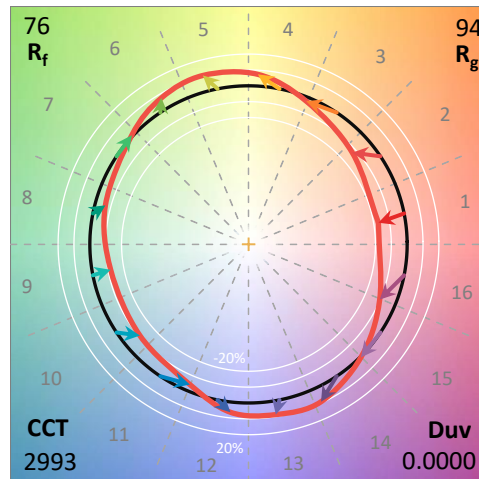
THIS IS A REVISION OF SP1-1908-441-2-R3. TO UPDATE THE CATALOG INFORMATION.TESTED IN SITU. (1) 70 CRI, 3000K, 1050MA LIGHTSQUARE WITH 16 LEDS AND TYPE V WIDE OPTICS.

Spectral Parameters

CCT (K): 2993
 CIE u': 0.2508
 CIE v': 0.5215
 Duv: 0.0000
 CIE x: 0.4374
 CIE y: 0.4043
 CIE z: 0.1583
 Peak Wavelength (nm): 593
 Dominant Wavelength (nm): 582
 Purity: 53

| | | | |
|-----------|------|------|-------|
| CRI (Ra): | 71.8 | | |
| R1: | 67.5 | R9: | -38.3 |
| R2: | 82.9 | R10: | 62.5 |
| R3: | 94.7 | R11: | 63.7 |
| R4: | 67.7 | R12: | 57.8 |
| R5: | 67.9 | R13: | 70.4 |
| R6: | 77.6 | R14: | 97.3 |
| R7: | 76.0 | | |
| R8: | 40.5 | | |

Rf: 75.7
 Rg: 93.9



Test Conditions

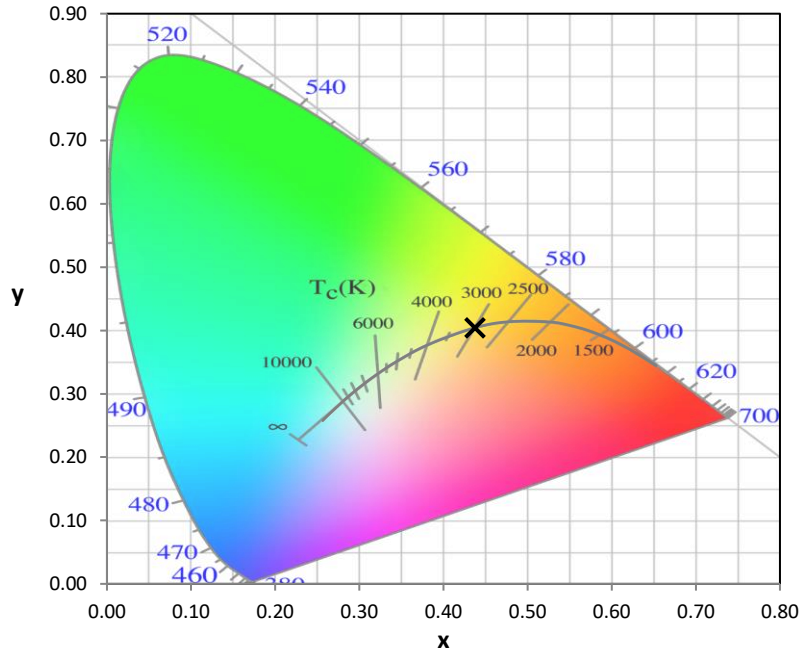
Stabilization Time: 53M
 Operation Time: 12H
 Room Temperature (°C) / RH%: 25.0./44%
 Sphere Temperature (°C): 25.7

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

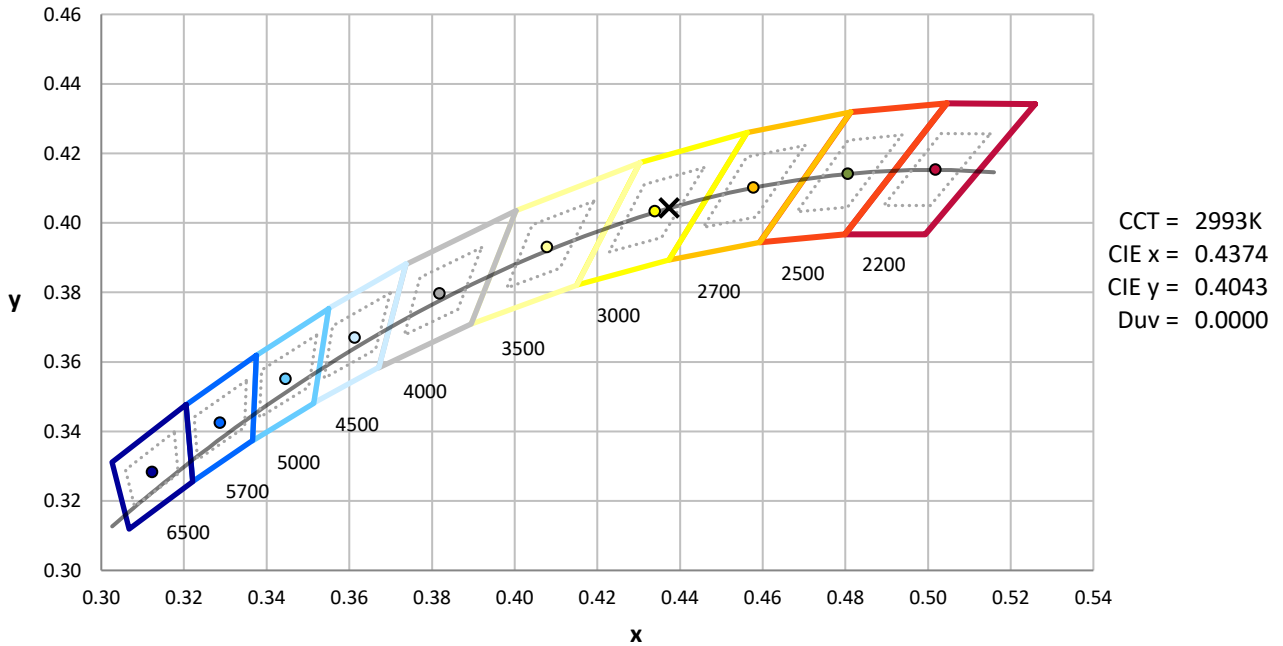
| Measurement and Test Equipment | | | |
|--------------------------------|-----------------------|------------------|----------------------|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | IN0058 | 6/28/2019 | 12/28/2019 |
| Power Meter | IN0071 | 12/5/2018 | 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

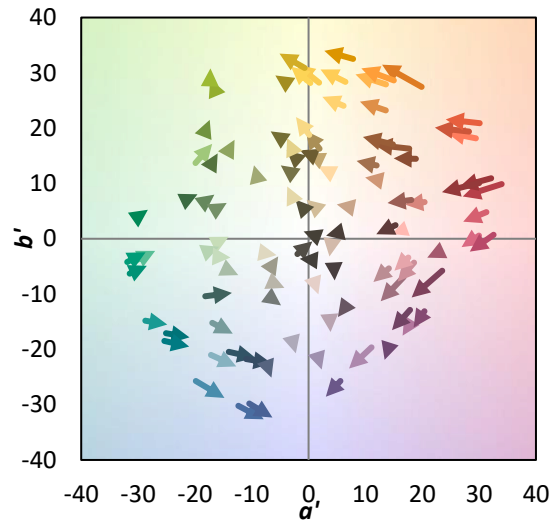
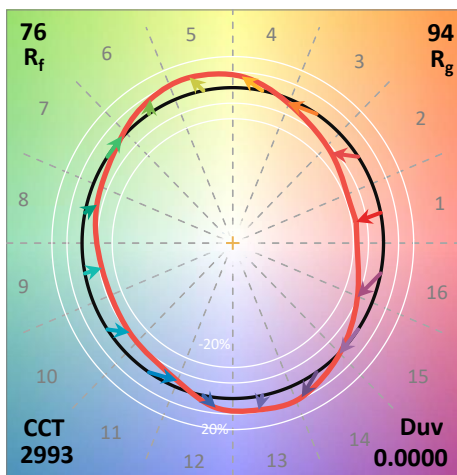
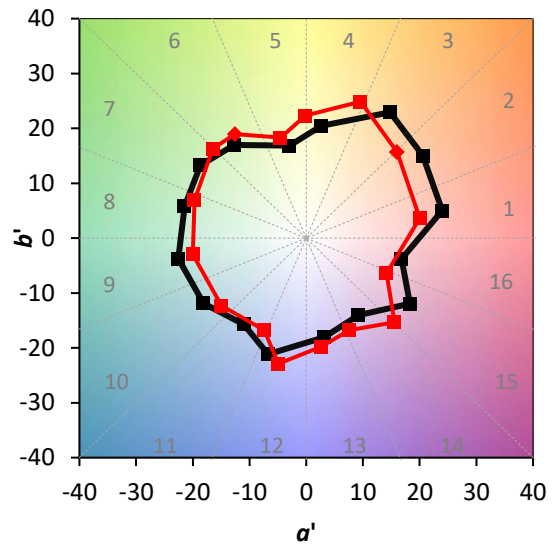
TM-30-18

Summary

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



Color Vector Graphics

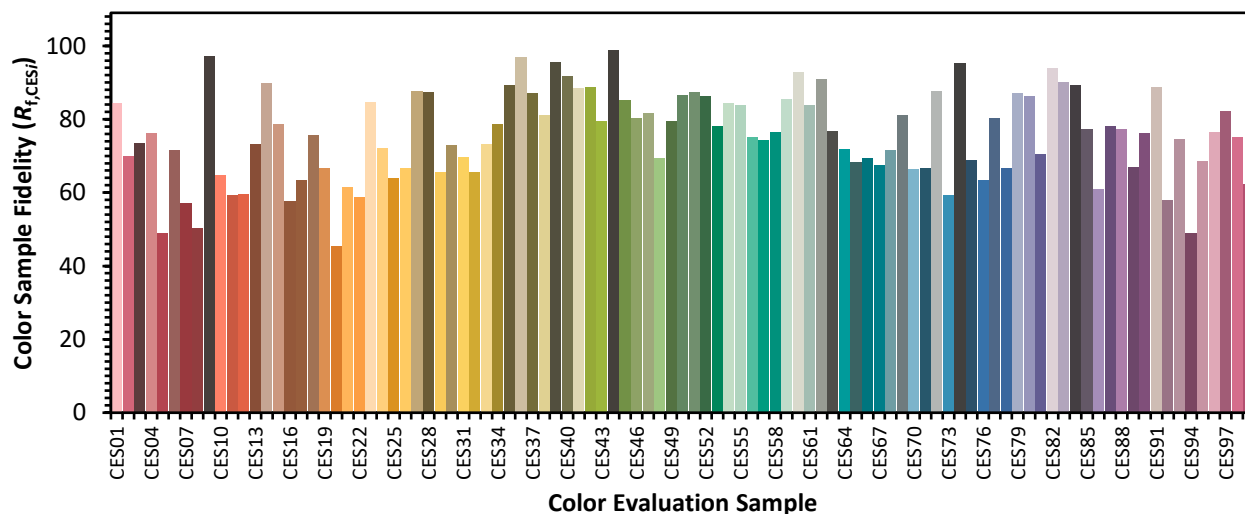


REPORT NUMBER: SP1-1908-441-2-R4

TM-30-18

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

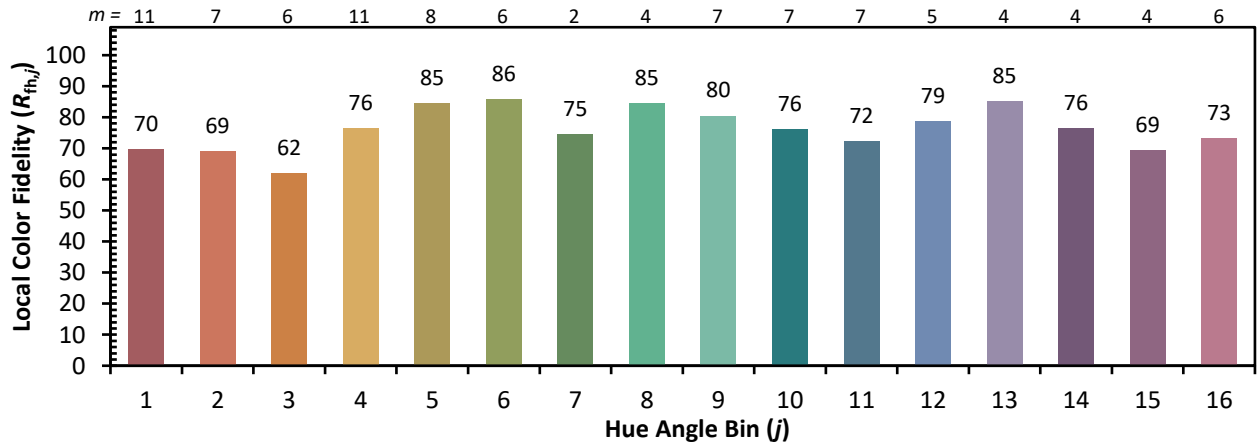
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|------------|------------|------------|------------|
| CES01 = 86 | CES26 = 67 | CES51 = 87 | CES76 = 63 |
| CES02 = 63 | CES27 = 88 | CES52 = 86 | CES77 = 80 |
| CES03 = 31 | CES28 = 87 | CES53 = 78 | CES78 = 67 |
| CES04 = 71 | CES29 = 66 | CES54 = 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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Measure Comparisons



(END OF REPORT)