

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: P437199

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

Issue Date: 12/9/2020

Test Information

Test Method: LM-79-08
Report Number: P437199
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-074-23)
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-SLR-HSS
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 70 CRI, 5000K, 450mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR RIGHT 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: B0 - U0 - G1

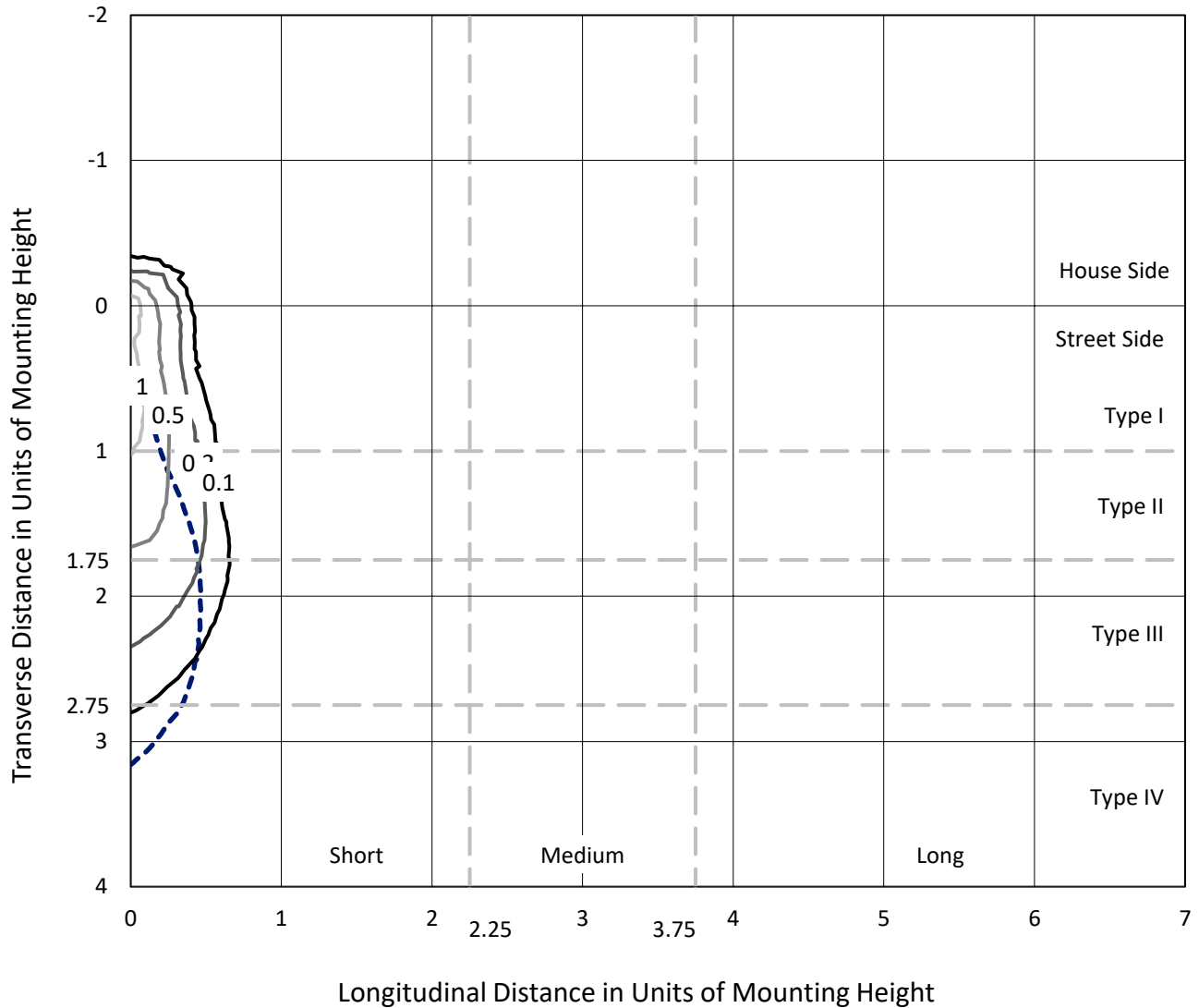
Input Watts (W): 25.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

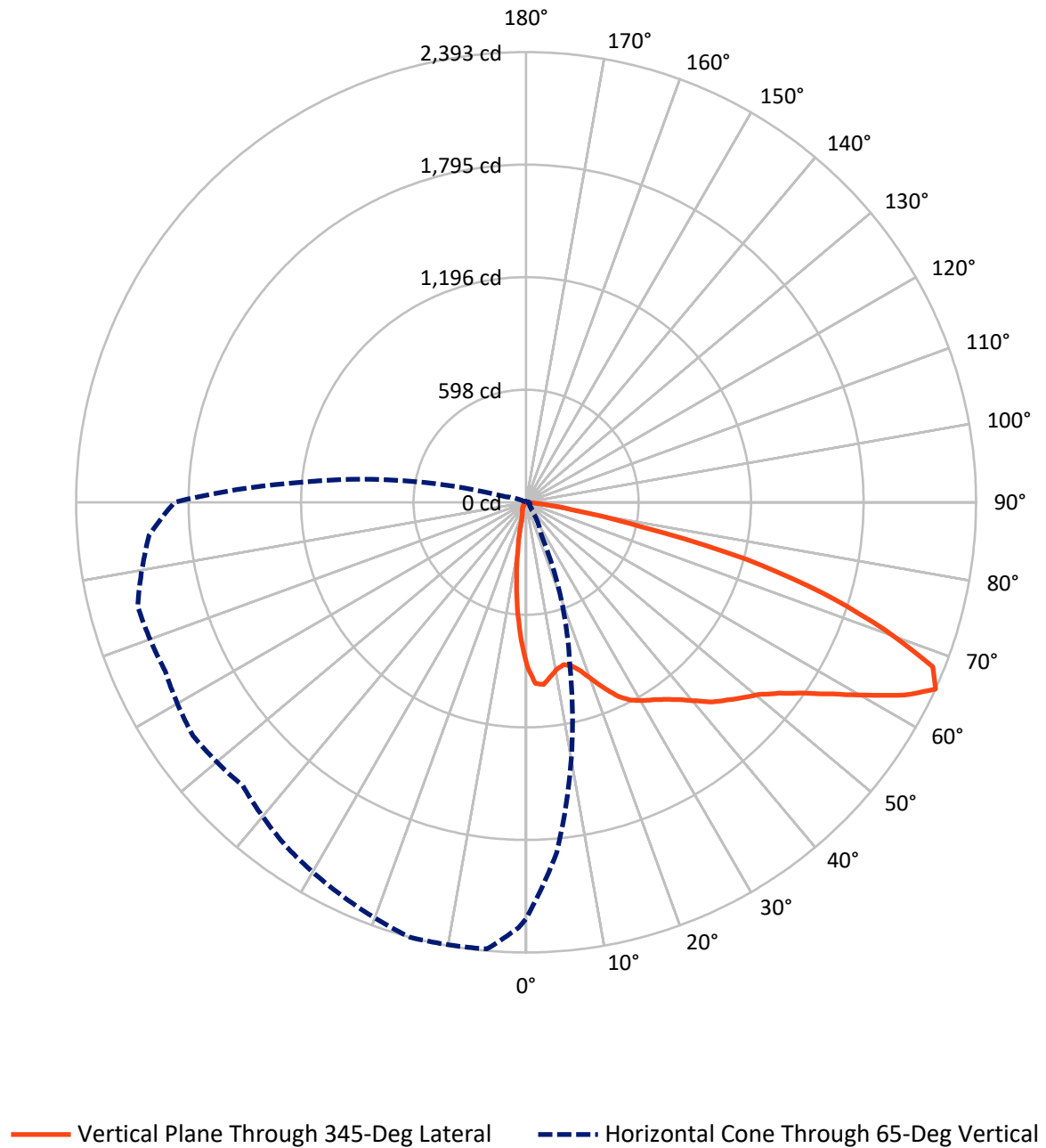
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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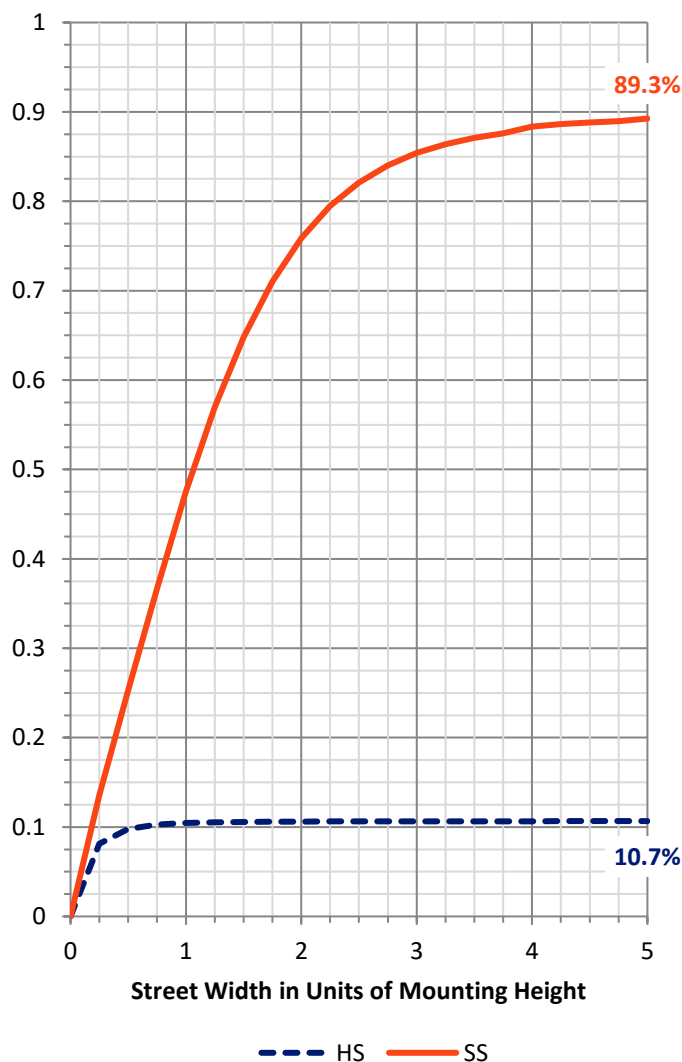
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 279.0 | 0.0 | 279.0 |
| | % Fixture | 10.8 | 0.0 | 10.8 |
| Street Side | Lumens | 2309.0 | 0.0 | 2309.0 |
| | % Fixture | 89.2 | 0.0 | 89.2 |
| Total | Lumens | 2588.0 | 0.0 | 2588.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 64.8 | 2.5 |
| 10°-20° | 126.2 | 4.9 |
| 20°-30° | 184.0 | 7.1 |
| 30°-40° | 273.5 | 10.6 |
| 40°-50° | 401.0 | 15.5 |
| 50°-60° | 577.1 | 22.3 |
| 60°-70° | 647.4 | 25.0 |
| 70°-80° | 284.0 | 11.0 |
| 80°-90° | 29.9 | 1.2 |
| 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

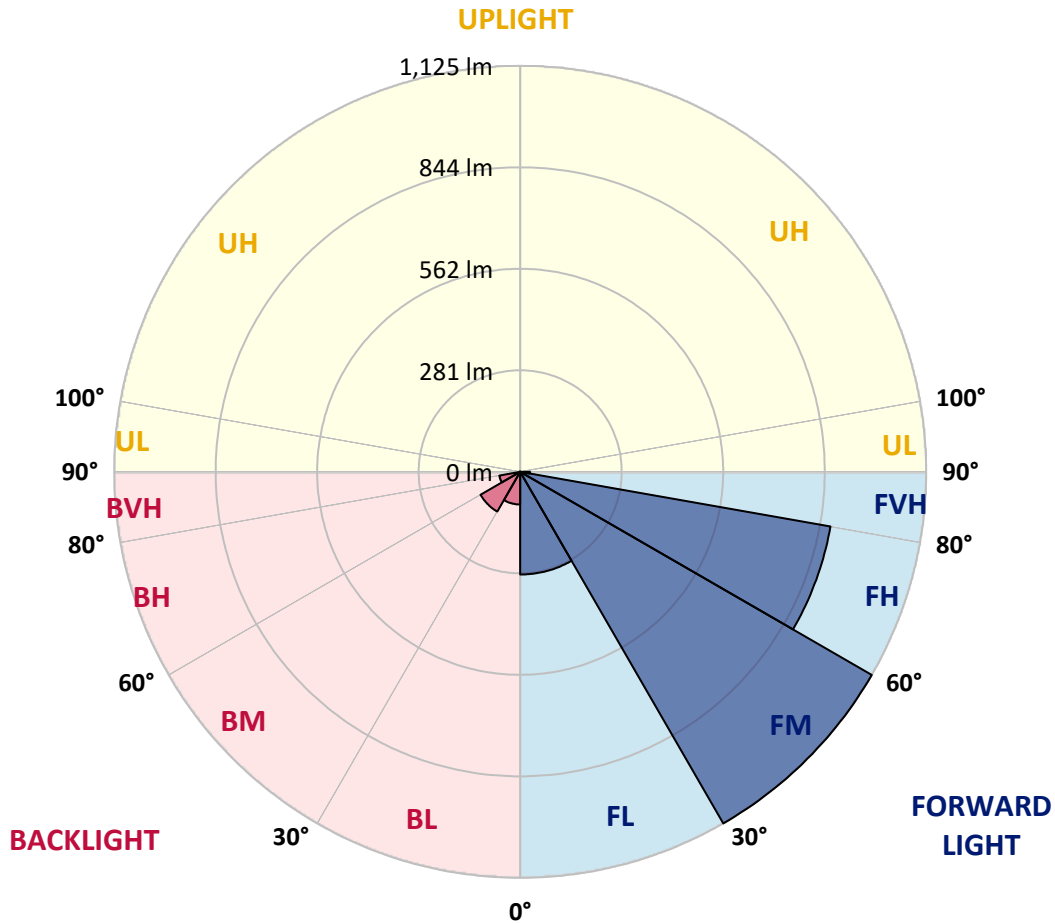


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 284.6 | 11.0 | | | |
| FM (30°-60°) | 1124.7 | 43.5 | | | |
| FH (60°-80°) | 872.8 | 33.7 | | | G1/1800 |
| FVH (80°-90°) | 27.0 | 1.0 | | | G1/100 |
| BL (0°-30°) | 90.5 | 3.5 | B0/110 | | |
| BM (30°-60°) | 127.0 | 4.9 | B0/220 | | |
| BH (60°-80°) | 58.6 | 2.3 | B0/110 | | G0/110 |
| BVH (80°-90°) | 2.9 | 0.1 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B0-U0-G1
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 873.4 | 873.4 | 873.4 | 873.4 | 873.4 | 873.4 | 873.4 | 873.4 | 873.4 | 873.4 | 873.4 |
| 2.5° | 924.3 | 924.3 | 910.7 | 878.3 | 848.5 | 812.5 | 792.6 | 774.0 | 754.1 | 740.4 | 719.3 |
| 5° | 880.8 | 872.1 | 852.3 | 792.6 | 729.3 | 687.0 | 654.7 | 597.6 | 570.2 | 550.4 | 541.7 |
| 7.5° | 808.8 | 803.8 | 771.5 | 701.9 | 626.2 | 557.8 | 514.3 | 467.1 | 429.9 | 414.9 | 388.9 |
| 10° | 759.1 | 754.1 | 713.1 | 618.7 | 530.5 | 480.8 | 446.0 | 412.5 | 376.4 | 340.4 | 313.1 |
| 12.5° | 734.2 | 724.3 | 684.5 | 577.7 | 501.9 | 453.5 | 413.7 | 372.7 | 328.0 | 288.2 | 255.9 |
| 15° | 740.4 | 724.3 | 679.6 | 570.2 | 480.8 | 421.2 | 370.2 | 310.6 | 265.9 | 218.7 | 188.8 |
| 17.5° | 783.9 | 766.5 | 711.9 | 576.5 | 453.5 | 377.7 | 310.6 | 243.5 | 183.9 | 140.4 | 125.5 |
| 20° | 864.7 | 846.0 | 771.5 | 590.1 | 436.1 | 334.2 | 239.8 | 167.7 | 121.8 | 101.9 | 93.2 |
| 22.5° | 967.8 | 943.0 | 854.7 | 612.5 | 416.2 | 290.7 | 181.4 | 119.3 | 93.2 | 80.8 | 74.5 |
| 25° | 1075.9 | 1051.0 | 952.9 | 646.0 | 403.8 | 253.4 | 140.4 | 93.2 | 75.8 | 68.3 | 64.6 |
| 27.5° | 1174.0 | 1143.0 | 1041.1 | 695.7 | 388.9 | 219.9 | 116.8 | 80.8 | 68.3 | 59.6 | 57.1 |
| 30° | 1263.5 | 1227.5 | 1129.3 | 738.0 | 367.7 | 190.1 | 100.6 | 74.5 | 63.4 | 55.9 | 52.2 |
| 32.5° | 1339.3 | 1310.7 | 1201.4 | 767.8 | 350.3 | 173.9 | 89.5 | 65.8 | 54.7 | 48.5 | 46.0 |
| 35° | 1430.0 | 1402.6 | 1270.9 | 792.6 | 339.2 | 166.5 | 82.0 | 62.1 | 50.9 | 44.7 | 39.8 |
| 37.5° | 1553.0 | 1513.2 | 1348.0 | 815.0 | 326.7 | 160.3 | 75.8 | 58.4 | 48.5 | 41.0 | 37.3 |
| 40° | 1663.5 | 1620.0 | 1437.4 | 831.1 | 320.5 | 155.3 | 74.5 | 55.9 | 46.0 | 38.5 | 34.8 |
| 42.5° | 1761.7 | 1721.9 | 1509.5 | 837.4 | 315.6 | 146.6 | 73.3 | 54.7 | 46.0 | 37.3 | 32.3 |
| 45° | 1823.8 | 1787.8 | 1595.2 | 853.5 | 315.6 | 140.4 | 68.3 | 54.7 | 44.7 | 36.0 | 31.1 |
| 47.5° | 1880.9 | 1846.1 | 1669.7 | 870.9 | 310.6 | 135.4 | 62.1 | 59.6 | 44.7 | 34.8 | 28.6 |
| 50° | 1964.2 | 1936.8 | 1764.2 | 923.1 | 301.9 | 128.0 | 55.9 | 58.4 | 46.0 | 33.5 | 28.6 |
| 52.5° | 2069.8 | 2057.4 | 1903.3 | 993.9 | 289.5 | 114.3 | 49.7 | 54.7 | 46.0 | 32.3 | 27.3 |
| 55° | 2186.6 | 2181.6 | 2048.7 | 1058.5 | 274.6 | 98.1 | 46.0 | 49.7 | 44.7 | 29.8 | 24.8 |
| 57.5° | 2257.4 | 2257.4 | 2143.1 | 1094.5 | 262.1 | 78.3 | 41.0 | 41.0 | 43.5 | 27.3 | 22.4 |
| 60° | 2283.5 | 2256.1 | 2131.9 | 1090.8 | 241.0 | 64.6 | 37.3 | 33.5 | 46.0 | 23.6 | 19.9 |
| 62.5° | 2281.0 | 2221.3 | 2027.5 | 1031.2 | 212.4 | 59.6 | 32.3 | 28.6 | 33.5 | 21.1 | 17.4 |
| 65° | 2213.9 | 2141.8 | 1868.5 | 898.2 | 191.3 | 59.6 | 27.3 | 23.6 | 22.4 | 18.6 | 13.7 |
| 67.5° | 2028.8 | 1985.3 | 1636.2 | 761.6 | 176.4 | 59.6 | 23.6 | 19.9 | 17.4 | 14.9 | 12.4 |
| 70° | 1723.2 | 1666.0 | 1318.1 | 587.6 | 165.2 | 59.6 | 19.9 | 17.4 | 16.2 | 12.4 | 9.9 |
| 72.5° | 1123.1 | 1090.8 | 806.3 | 403.8 | 135.4 | 58.4 | 17.4 | 16.2 | 14.9 | 11.2 | 8.7 |
| 75° | 611.2 | 565.3 | 443.5 | 144.1 | 96.9 | 42.2 | 14.9 | 13.7 | 11.2 | 9.9 | 7.5 |
| 77.5° | 264.6 | 254.7 | 226.1 | 38.5 | 28.6 | 12.4 | 8.7 | 8.7 | 7.5 | 7.5 | 5.0 |
| 80° | 34.8 | 26.1 | 29.8 | 11.2 | 9.9 | 6.2 | 5.0 | 3.7 | 3.7 | 3.7 | 2.5 |
| 82.5° | 1.2 | 1.2 | 0.0 | 1.2 | 3.7 | 2.5 | 0.0 | 0.0 | 1.2 | 1.2 | 1.2 |
| 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 |



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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 873.4 | 873.4 | 873.4 | 873.4 | 873.4 | 873.4 | 873.4 | 873.4 | 873.4 | 873.4 | 873.4 |
| 2.5° | 729.3 | 714.4 | 703.2 | 703.2 | 718.1 | 709.4 | 719.3 | 713.1 | 730.5 | 739.2 | 736.7 |
| 5° | 523.0 | 529.2 | 523.0 | 533.0 | 549.1 | 557.8 | 562.8 | 575.2 | 574.0 | 578.9 | 587.6 |
| 7.5° | 378.9 | 378.9 | 381.4 | 378.9 | 393.8 | 410.0 | 418.7 | 414.9 | 412.5 | 407.5 | 416.2 |
| 10° | 304.4 | 290.7 | 274.6 | 274.6 | 277.0 | 285.7 | 287.0 | 280.8 | 272.1 | 255.9 | 260.9 |
| 12.5° | 238.5 | 228.6 | 218.7 | 197.5 | 196.3 | 191.3 | 190.1 | 172.7 | 159.0 | 154.1 | 154.1 |
| 15° | 175.2 | 169.0 | 157.8 | 147.8 | 137.9 | 132.9 | 124.2 | 103.1 | 89.5 | 88.2 | 89.5 |
| 17.5° | 116.8 | 113.1 | 109.3 | 109.3 | 105.6 | 96.9 | 88.2 | 74.5 | 68.3 | 65.8 | 67.1 |
| 20° | 87.0 | 85.7 | 82.0 | 83.2 | 83.2 | 75.8 | 67.1 | 60.9 | 58.4 | 58.4 | 59.6 |
| 22.5° | 72.1 | 70.8 | 67.1 | 67.1 | 67.1 | 63.4 | 57.1 | 53.4 | 52.2 | 52.2 | 52.2 |
| 25° | 62.1 | 60.9 | 58.4 | 57.1 | 57.1 | 54.7 | 49.7 | 47.2 | 46.0 | 46.0 | 46.0 |
| 27.5° | 55.9 | 54.7 | 52.2 | 49.7 | 49.7 | 47.2 | 44.7 | 41.0 | 41.0 | 41.0 | 41.0 |
| 30° | 49.7 | 48.5 | 47.2 | 44.7 | 43.5 | 41.0 | 38.5 | 37.3 | 36.0 | 36.0 | 36.0 |
| 32.5° | 44.7 | 43.5 | 42.2 | 41.0 | 38.5 | 36.0 | 33.5 | 32.3 | 31.1 | 31.1 | 31.1 |
| 35° | 38.5 | 36.0 | 34.8 | 36.0 | 34.8 | 31.1 | 29.8 | 27.3 | 26.1 | 26.1 | 26.1 |
| 37.5° | 34.8 | 32.3 | 29.8 | 28.6 | 28.6 | 28.6 | 26.1 | 23.6 | 22.4 | 21.1 | 22.4 |
| 40° | 32.3 | 29.8 | 27.3 | 24.8 | 23.6 | 24.8 | 22.4 | 19.9 | 18.6 | 17.4 | 18.6 |
| 42.5° | 29.8 | 27.3 | 23.6 | 21.1 | 18.6 | 21.1 | 18.6 | 16.2 | 14.9 | 13.7 | 14.9 |
| 45° | 28.6 | 26.1 | 22.4 | 18.6 | 16.2 | 16.2 | 16.2 | 13.7 | 11.2 | 11.2 | 11.2 |
| 47.5° | 27.3 | 24.8 | 19.9 | 16.2 | 13.7 | 12.4 | 12.4 | 9.9 | 8.7 | 7.5 | 7.5 |
| 50° | 26.1 | 23.6 | 18.6 | 13.7 | 11.2 | 9.9 | 9.9 | 7.5 | 6.2 | 6.2 | 6.2 |
| 52.5° | 24.8 | 22.4 | 17.4 | 12.4 | 9.9 | 7.5 | 6.2 | 5.0 | 5.0 | 3.7 | 3.7 |
| 55° | 22.4 | 19.9 | 14.9 | 11.2 | 8.7 | 6.2 | 5.0 | 3.7 | 3.7 | 2.5 | 3.7 |
| 57.5° | 21.1 | 18.6 | 13.7 | 9.9 | 7.5 | 5.0 | 3.7 | 2.5 | 2.5 | 2.5 | 2.5 |
| 60° | 18.6 | 16.2 | 11.2 | 7.5 | 5.0 | 3.7 | 2.5 | 2.5 | 2.5 | 1.2 | 1.2 |
| 62.5° | 14.9 | 13.7 | 9.9 | 6.2 | 3.7 | 2.5 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 |
| 65° | 13.7 | 12.4 | 8.7 | 5.0 | 2.5 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 |
| 67.5° | 11.2 | 9.9 | 6.2 | 3.7 | 1.2 | 1.2 | 0.0 | 1.2 | 1.2 | 0.0 | 0.0 |
| 70° | 8.7 | 8.7 | 5.0 | 2.5 | 1.2 | 0.0 | 0.0 | 1.2 | 1.2 | 0.0 | 0.0 |
| 72.5° | 7.5 | 7.5 | 5.0 | 1.2 | 0.0 | 0.0 | 0.0 | 1.2 | 1.2 | 1.2 | 0.0 |
| 75° | 6.2 | 6.2 | 5.0 | 2.5 | 0.0 | 0.0 | 0.0 | 1.2 | 1.2 | 1.2 | 1.2 |
| 77.5° | 5.0 | 3.7 | 2.5 | 1.2 | 0.0 | 0.0 | 0.0 | 1.2 | 1.2 | 1.2 | 1.2 |
| 80° | 2.5 | 2.5 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 | 1.2 | 1.2 | 1.2 |
| 82.5° | 1.2 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 | 2.5 | 2.5 | 1.2 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 | 2.5 | 2.5 | 2.5 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 | 2.5 | 2.5 | 2.5 | 2.5 |
| 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° | 873.4 | 873.4 | 873.4 | 873.4 | 873.4 | 873.4 | 873.4 | 873.4 | 873.4 | 873.4 | 873.4 |
| 2.5° | 742.9 | 762.8 | 785.2 | 798.8 | 828.7 | 854.7 | 885.8 | 913.1 | 945.4 | 962.8 | 969.0 |
| 5° | 596.3 | 607.5 | 636.1 | 673.4 | 706.9 | 754.1 | 808.8 | 869.7 | 935.5 | 966.6 | 988.9 |
| 7.5° | 411.2 | 421.2 | 462.2 | 496.9 | 552.9 | 613.7 | 688.3 | 771.5 | 857.2 | 900.7 | 940.5 |
| 10° | 268.4 | 282.0 | 316.8 | 365.3 | 436.1 | 510.6 | 586.4 | 673.4 | 772.7 | 823.7 | 877.1 |
| 12.5° | 155.3 | 171.4 | 213.7 | 277.0 | 346.6 | 426.1 | 504.4 | 600.1 | 710.6 | 766.5 | 821.2 |
| 15° | 89.5 | 95.7 | 120.5 | 176.4 | 254.7 | 351.6 | 443.5 | 546.6 | 675.8 | 738.0 | 802.6 |
| 17.5° | 67.1 | 70.8 | 78.3 | 101.9 | 162.7 | 269.6 | 398.8 | 530.5 | 679.6 | 762.8 | 820.0 |
| 20° | 59.6 | 62.1 | 65.8 | 74.5 | 103.1 | 191.3 | 344.1 | 519.3 | 715.6 | 822.4 | 892.0 |
| 22.5° | 53.4 | 55.9 | 59.6 | 65.8 | 78.3 | 129.2 | 287.0 | 518.1 | 775.2 | 910.7 | 988.9 |
| 25° | 47.2 | 49.7 | 53.4 | 59.6 | 69.6 | 93.2 | 222.4 | 514.3 | 849.8 | 1007.6 | 1105.7 |
| 27.5° | 41.0 | 43.5 | 47.2 | 53.4 | 62.1 | 77.0 | 169.0 | 503.2 | 939.2 | 1111.9 | 1216.3 |
| 30° | 36.0 | 38.5 | 42.2 | 47.2 | 55.9 | 67.1 | 129.2 | 484.5 | 1016.3 | 1205.1 | 1290.8 |
| 32.5° | 31.1 | 33.5 | 37.3 | 42.2 | 49.7 | 58.4 | 104.4 | 444.8 | 1075.9 | 1278.4 | 1351.7 |
| 35° | 26.1 | 28.6 | 32.3 | 37.3 | 43.5 | 49.7 | 85.7 | 380.2 | 1136.8 | 1354.2 | 1425.0 |
| 37.5° | 22.4 | 24.8 | 27.3 | 32.3 | 38.5 | 44.7 | 70.8 | 339.2 | 1181.5 | 1448.6 | 1518.2 |
| 40° | 18.6 | 21.1 | 24.8 | 28.6 | 33.5 | 42.2 | 57.1 | 284.5 | 1226.2 | 1539.3 | 1603.9 |
| 42.5° | 14.9 | 17.4 | 21.1 | 26.1 | 31.1 | 37.3 | 46.0 | 234.8 | 1270.9 | 1621.3 | 1682.2 |
| 45° | 11.2 | 13.7 | 17.4 | 23.6 | 31.1 | 32.3 | 37.3 | 200.0 | 1282.1 | 1698.3 | 1750.5 |
| 47.5° | 8.7 | 9.9 | 13.7 | 19.9 | 29.8 | 28.6 | 31.1 | 173.9 | 1303.2 | 1759.2 | 1817.6 |
| 50° | 6.2 | 7.5 | 11.2 | 18.6 | 26.1 | 23.6 | 27.3 | 164.0 | 1333.1 | 1806.4 | 1837.5 |
| 52.5° | 5.0 | 6.2 | 8.7 | 16.2 | 21.1 | 21.1 | 24.8 | 173.9 | 1371.6 | 1862.3 | 1888.4 |
| 55° | 3.7 | 5.0 | 7.5 | 11.2 | 16.2 | 18.6 | 23.6 | 187.6 | 1446.1 | 1960.4 | 1955.5 |
| 57.5° | 2.5 | 3.7 | 6.2 | 8.7 | 12.4 | 16.2 | 22.4 | 208.7 | 1521.9 | 2071.0 | 2076.0 |
| 60° | 2.5 | 3.7 | 5.0 | 7.5 | 11.2 | 13.7 | 19.9 | 211.2 | 1509.5 | 2087.2 | 2160.5 |
| 62.5° | 1.2 | 2.5 | 5.0 | 6.2 | 8.7 | 11.2 | 17.4 | 177.7 | 1390.2 | 2008.9 | 2115.7 |
| 65° | 1.2 | 2.5 | 3.7 | 6.2 | 7.5 | 9.9 | 13.7 | 113.1 | 1210.1 | 1869.8 | 2011.4 |
| 67.5° | 1.2 | 2.5 | 3.7 | 5.0 | 6.2 | 8.7 | 11.2 | 58.4 | 1026.2 | 1725.6 | 1862.3 |
| 70° | 1.2 | 2.5 | 3.7 | 5.0 | 6.2 | 7.5 | 9.9 | 28.6 | 777.7 | 1454.8 | 1631.2 |
| 72.5° | 1.2 | 2.5 | 3.7 | 5.0 | 5.0 | 6.2 | 8.7 | 19.9 | 499.4 | 1093.3 | 1263.5 |
| 75° | 1.2 | 2.5 | 2.5 | 3.7 | 5.0 | 6.2 | 7.5 | 13.7 | 323.0 | 735.5 | 957.9 |
| 77.5° | 1.2 | 2.5 | 2.5 | 3.7 | 5.0 | 6.2 | 8.7 | 12.4 | 236.0 | 504.4 | 662.2 |
| 80° | 1.2 | 2.5 | 2.5 | 3.7 | 5.0 | 5.0 | 6.2 | 8.7 | 126.7 | 334.2 | 421.2 |
| 82.5° | 2.5 | 2.5 | 3.7 | 3.7 | 3.7 | 5.0 | 6.2 | 6.2 | 65.8 | 213.7 | 284.5 |
| 85° | 2.5 | 2.5 | 3.7 | 3.7 | 5.0 | 5.0 | 5.0 | 6.2 | 28.6 | 89.5 | 141.6 |
| 87.5° | 2.5 | 3.7 | 3.7 | 3.7 | 5.0 | 5.0 | 5.0 | 5.0 | 3.7 | 5.0 | 5.0 |
| 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: P437199
 CATALOG NUMBER: ISS-SA1B-750-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

| | 285° | 295° | 305° | 315° | 325° | 335° | 345° | 355° | 359° | 360° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 873.4 | 873.4 | 873.4 | 873.4 | 873.4 | 873.4 | 873.4 | 873.4 | 873.4 | 873.4 |
| 2.5° | 987.7 | 1003.8 | 1011.3 | 1005.1 | 1000.1 | 985.2 | 964.1 | 943.0 | 925.6 | 924.3 |
| 5° | 1039.9 | 1074.6 | 1102.0 | 1088.3 | 1069.7 | 1026.2 | 972.8 | 913.1 | 890.8 | 880.8 |
| 7.5° | 1028.7 | 1104.5 | 1150.4 | 1138.0 | 1100.7 | 1018.7 | 935.5 | 857.2 | 821.2 | 808.8 |
| 10° | 977.7 | 1079.6 | 1140.5 | 1136.8 | 1102.0 | 1005.1 | 902.0 | 807.5 | 769.0 | 759.1 |
| 12.5° | 930.5 | 1031.2 | 1089.6 | 1092.0 | 1079.6 | 990.2 | 885.8 | 785.2 | 739.2 | 734.2 |
| 15° | 905.7 | 991.4 | 1026.2 | 1033.6 | 1038.6 | 988.9 | 900.7 | 800.1 | 751.6 | 740.4 |
| 17.5° | 910.7 | 951.6 | 960.3 | 954.1 | 987.7 | 990.2 | 943.0 | 852.3 | 797.6 | 783.9 |
| 20° | 940.5 | 925.6 | 897.0 | 903.2 | 940.5 | 995.1 | 1006.3 | 944.2 | 882.1 | 864.7 |
| 22.5° | 997.6 | 924.3 | 867.2 | 862.2 | 910.7 | 1003.8 | 1074.6 | 1042.3 | 977.7 | 967.8 |
| 25° | 1082.1 | 943.0 | 854.7 | 844.8 | 887.0 | 1012.5 | 1144.2 | 1145.5 | 1094.5 | 1075.9 |
| 27.5° | 1164.1 | 972.8 | 853.5 | 843.6 | 887.0 | 1023.7 | 1191.4 | 1247.3 | 1193.9 | 1174.0 |
| 30° | 1211.3 | 1007.6 | 873.4 | 854.7 | 903.2 | 1033.6 | 1222.5 | 1328.1 | 1280.9 | 1263.5 |
| 32.5° | 1254.8 | 1044.8 | 894.5 | 872.1 | 934.3 | 1061.0 | 1251.1 | 1401.4 | 1360.4 | 1339.3 |
| 35° | 1290.8 | 1088.3 | 934.3 | 899.5 | 980.2 | 1100.7 | 1285.8 | 1482.1 | 1456.0 | 1430.0 |
| 37.5° | 1325.6 | 1131.8 | 990.2 | 970.3 | 1057.3 | 1157.9 | 1331.8 | 1566.6 | 1579.0 | 1553.0 |
| 40° | 1375.3 | 1181.5 | 1085.8 | 1069.7 | 1170.3 | 1244.8 | 1387.7 | 1651.1 | 1692.1 | 1663.5 |
| 42.5° | 1422.5 | 1244.8 | 1182.7 | 1197.6 | 1307.0 | 1345.5 | 1451.1 | 1728.1 | 1774.1 | 1761.7 |
| 45° | 1466.0 | 1323.1 | 1323.1 | 1359.1 | 1454.8 | 1456.0 | 1499.5 | 1781.5 | 1830.0 | 1823.8 |
| 47.5° | 1523.1 | 1420.0 | 1468.5 | 1567.9 | 1618.8 | 1551.7 | 1551.7 | 1832.5 | 1898.3 | 1880.9 |
| 50° | 1579.0 | 1549.2 | 1661.0 | 1751.7 | 1796.5 | 1667.2 | 1605.1 | 1900.8 | 1979.1 | 1964.2 |
| 52.5° | 1639.9 | 1674.7 | 1841.2 | 1930.6 | 1956.7 | 1798.9 | 1685.9 | 1969.1 | 2069.8 | 2069.8 |
| 55° | 1738.1 | 1781.5 | 2031.3 | 2105.8 | 2143.1 | 1908.3 | 1789.0 | 2066.0 | 2180.3 | 2186.6 |
| 57.5° | 1838.7 | 1884.7 | 2138.1 | 2232.5 | 2281.0 | 2069.8 | 1921.9 | 2195.3 | 2258.6 | 2257.4 |
| 60° | 1944.3 | 1992.7 | 2221.3 | 2314.5 | 2385.3 | 2235.0 | 2079.7 | 2313.3 | 2295.9 | 2283.5 |
| 62.5° | 2074.7 | 2074.7 | 2252.4 | 2295.9 | 2381.6 | 2339.4 | 2257.4 | 2380.4 | 2309.6 | 2281.0 |
| 65° | 2138.1 | 2118.2 | 2163.0 | 2130.7 | 2228.8 | 2309.6 | 2392.8 | 2382.9 | 2261.1 | 2213.9 |
| 67.5° | 2104.6 | 1984.1 | 1907.0 | 1858.6 | 1879.7 | 2018.8 | 2333.2 | 2264.8 | 2064.8 | 2028.8 |
| 70° | 1874.7 | 1586.5 | 1514.4 | 1437.4 | 1396.4 | 1540.5 | 2016.4 | 2000.2 | 1756.7 | 1723.2 |
| 72.5° | 1528.1 | 1145.5 | 971.5 | 1049.8 | 1010.0 | 1172.8 | 1652.3 | 1411.3 | 1152.9 | 1123.1 |
| 75° | 1268.5 | 852.3 | 633.6 | 634.8 | 641.1 | 770.3 | 1207.6 | 838.6 | 633.6 | 611.2 |
| 77.5° | 918.1 | 600.1 | 511.9 | 458.4 | 463.4 | 492.0 | 628.6 | 357.8 | 292.0 | 264.6 |
| 80° | 560.3 | 371.5 | 413.7 | 367.7 | 355.3 | 273.3 | 270.8 | 52.2 | 34.8 | 34.8 |
| 82.5° | 305.6 | 236.0 | 219.9 | 79.5 | 123.0 | 149.1 | 123.0 | 2.5 | 1.2 | 1.2 |
| 85° | 155.3 | 94.4 | 44.7 | 13.7 | 16.2 | 13.7 | 2.5 | 0.0 | 0.0 | 0.0 |
| 87.5° | 5.0 | 3.7 | 3.7 | 2.5 | 2.5 | 1.2 | 1.2 | 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 .

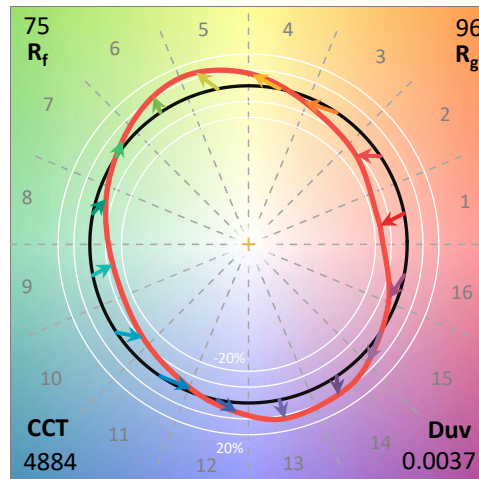
Test Information

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

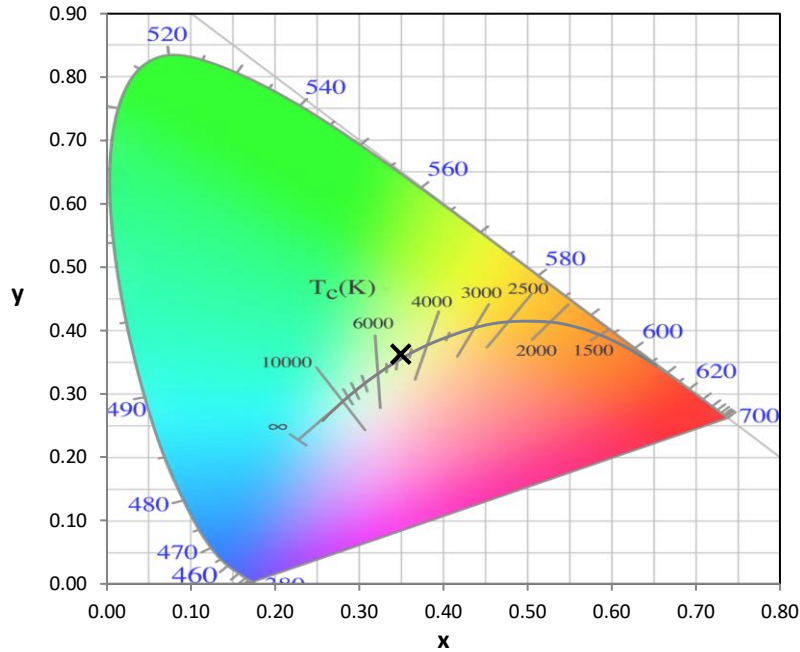
Stabilization Time: 240M
 Operation Time: 12H
 Room Temperature (°C) / RH%: 25.0./44%
 Sphere Temperature (°C): 25.7

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

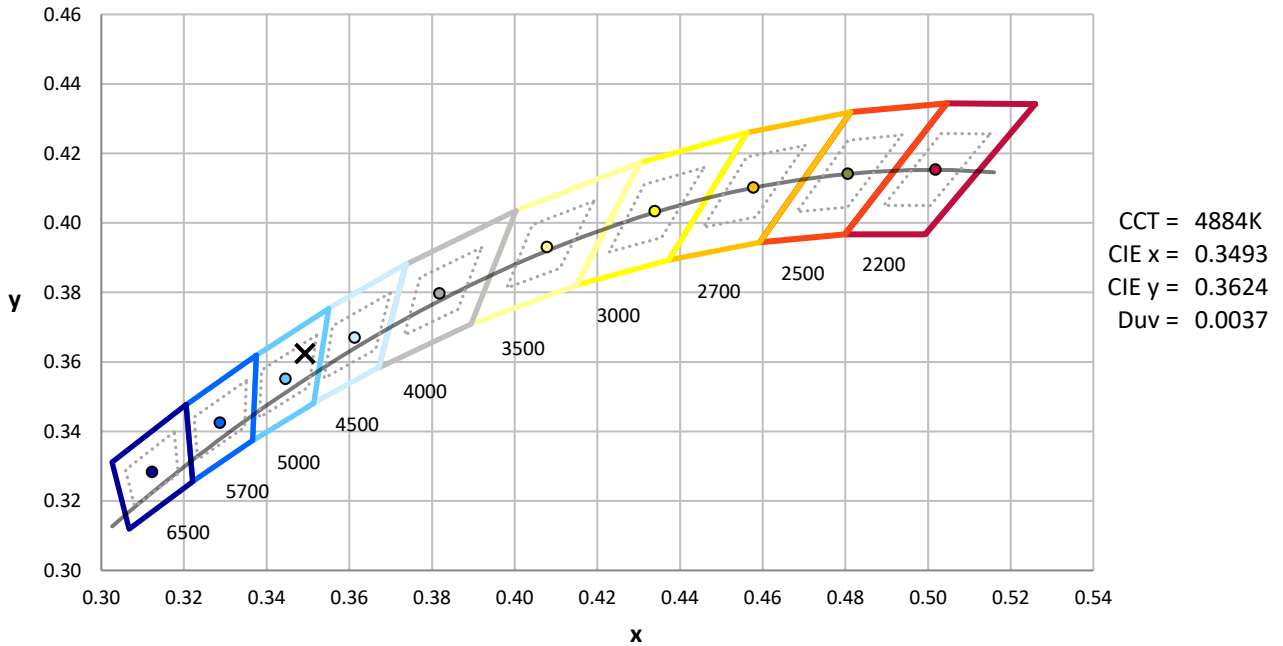
| Measurement and Test Equipment | | | |
|--------------------------------|-----------------------|------------------|----------------------|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | IN0058 | 6/28/2019 | 12/28/2019 |
| Power Meter | IN0071 | 12/5/2018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

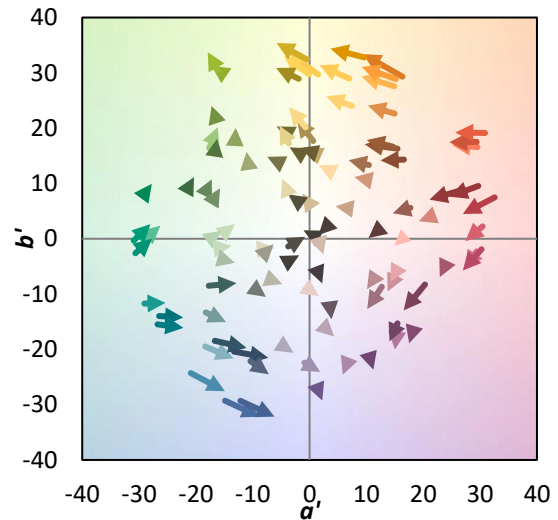
TM-30-18

Summary

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



Color Vector Graphics

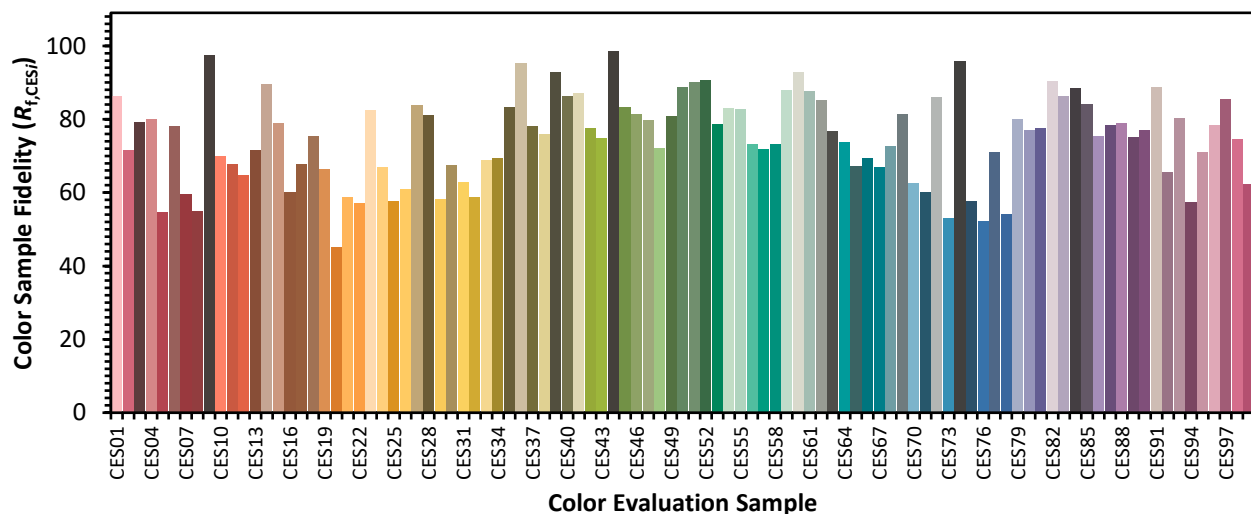


REPORT NUMBER: SP1-1908-441-4-R4

TM-30-18

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

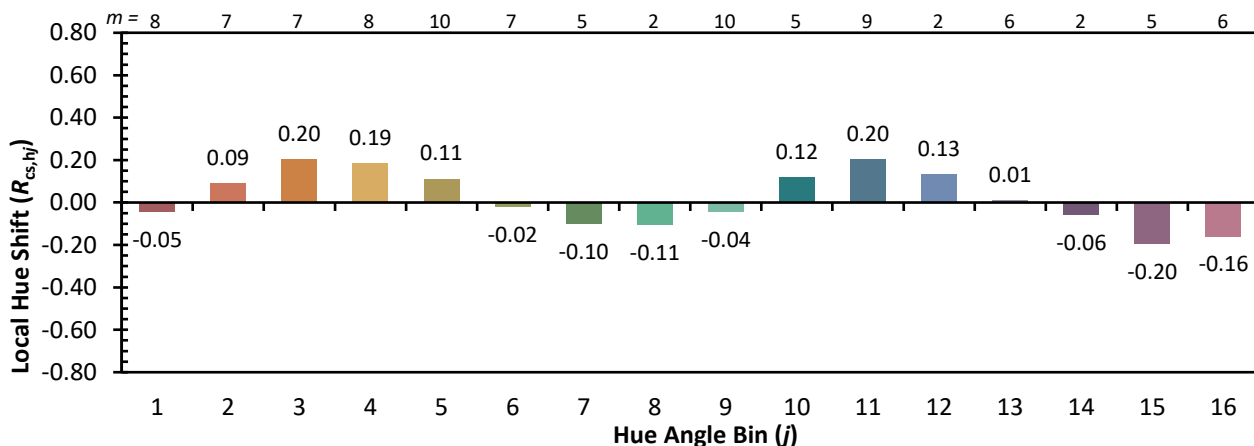
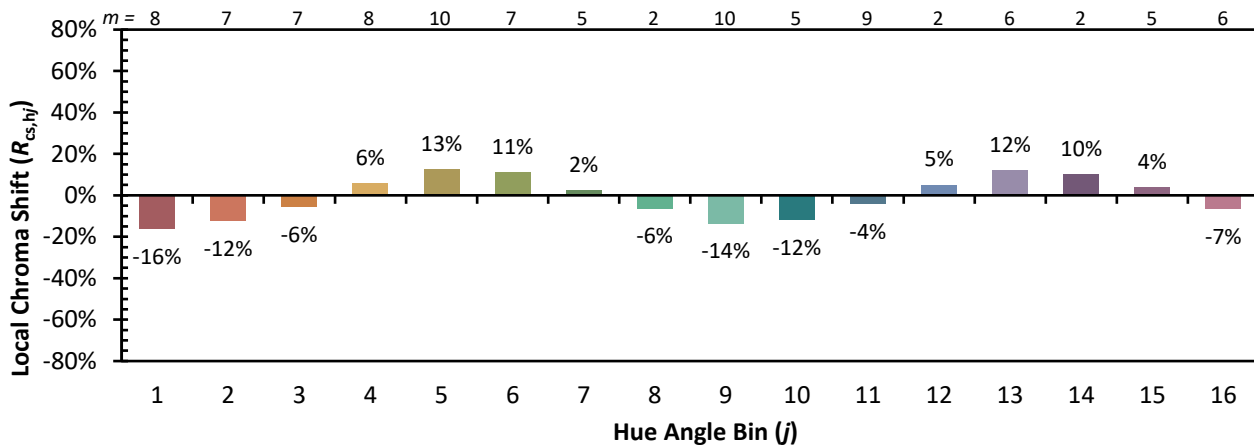
| | | | |
|------------|------------|------------|------------|
| CES01 = 85 | CES26 = 61 | CES51 = 90 | CES76 = 52 |
| CES02 = 60 | CES27 = 84 | CES52 = 91 | CES77 = 71 |
| CES03 = 30 | CES28 = 81 | CES53 = 79 | CES78 = 54 |
| CES04 = 69 | CES29 = 58 | CES54 = 83 | CES79 = 80 |
| CES05 = 46 | CES30 = 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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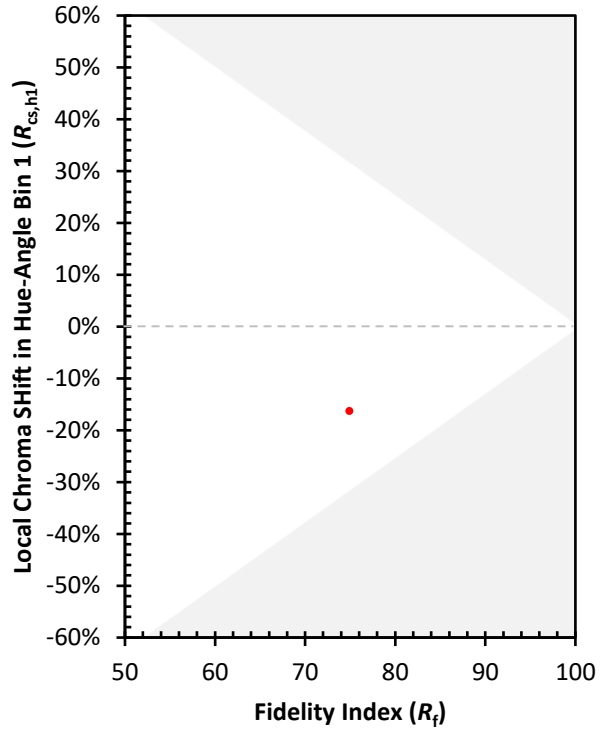
Color Rendition by Hue-Angle Bin



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Measure Comparisons



(END OF REPORT)