

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: P438586

Luminaire Tested: **ISW-SA1D-760-U-SLR-HSS**

Issue Date: 12/10/2020

Test Information

Test Method: LM-79-08
Report Number: P438586
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-074-23)
Test Lab: INNOVATION CENTER
Issue Date: 12/10/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: ISW-SA1D-760-U-SLR-HSS
Description: IMPACT ELITE LED WEDGE LUMINAIRE
(1) 70 CRI, 5700K, 800mA 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: 4275 lumens
Efficiency: N/A
Efficacy: 94.6 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

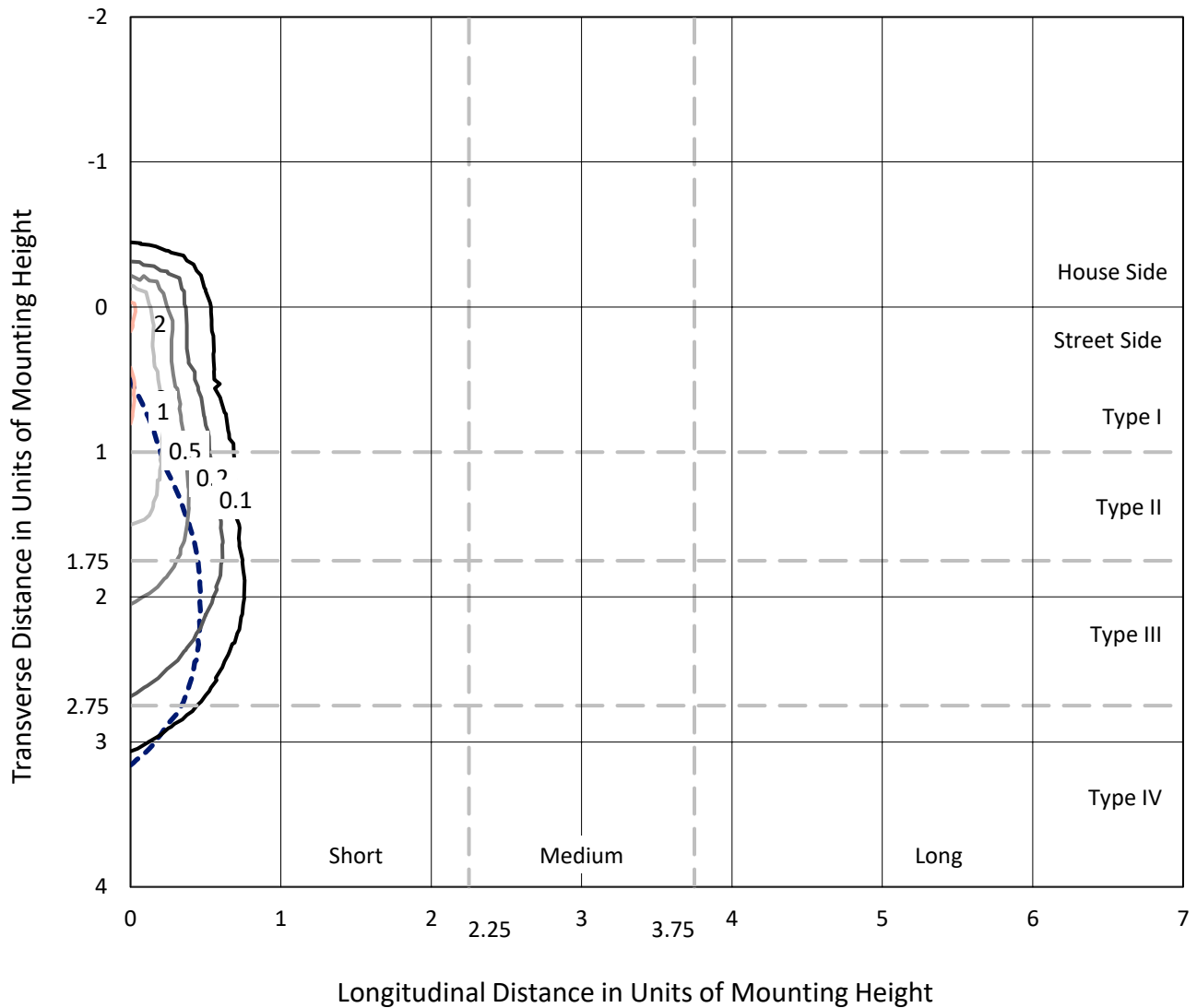
Input Watts (W): 45.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P438586
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Iso-Footcandle Lines of Horizontal Illumination

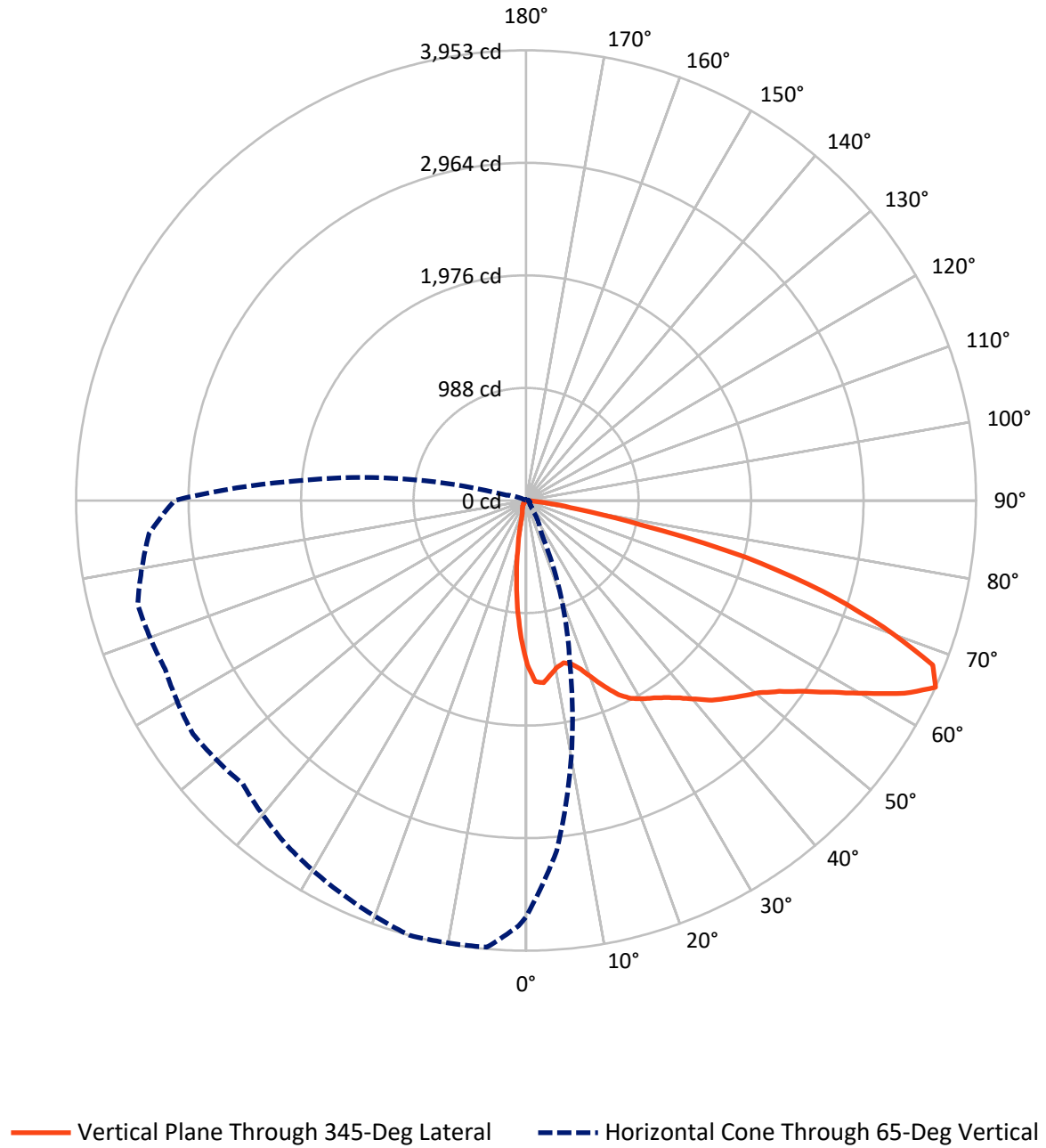
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type IV - Short - N/A

REPORT NUMBER: P438586
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Luminous Intensity Polar Plot



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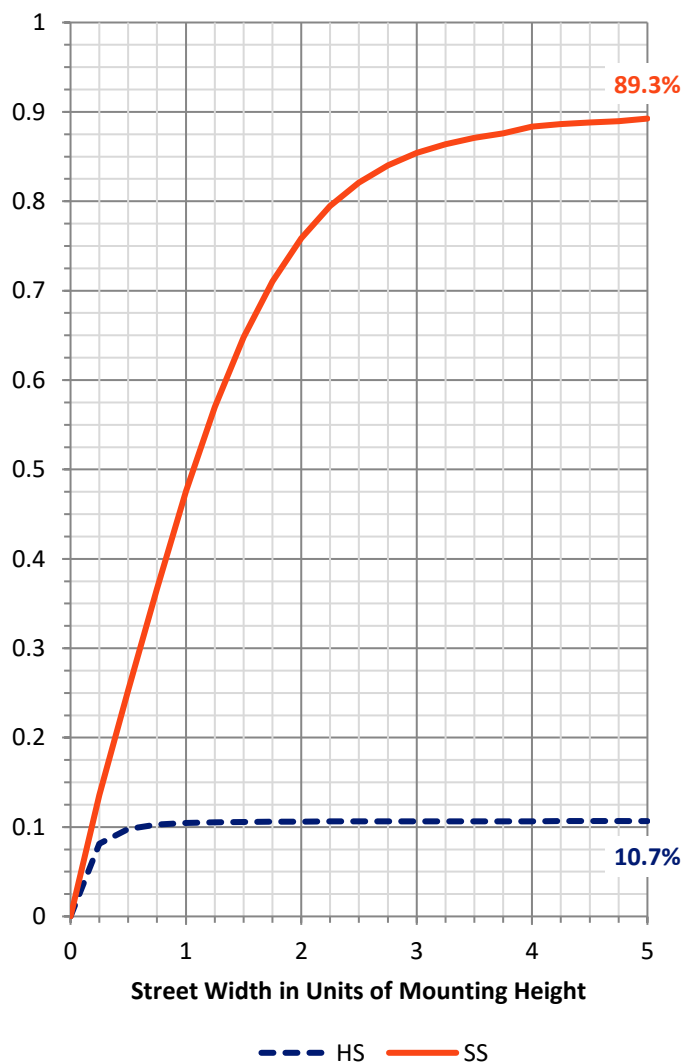
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 460.9 | 0.0 | 460.9 |
| | % Fixture | 10.8 | 0.0 | 10.8 |
| Street Side | Lumens | 3814.1 | 0.0 | 3814.1 |
| | % Fixture | 89.2 | 0.0 | 89.2 |
| Total | Lumens | 4275.0 | 0.0 | 4275.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 107.1 | 2.5 |
| 10°-20° | 208.5 | 4.9 |
| 20°-30° | 304.0 | 7.1 |
| 30°-40° | 451.9 | 10.6 |
| 40°-50° | 662.4 | 15.5 |
| 50°-60° | 953.2 | 22.3 |
| 60°-70° | 1069.4 | 25.0 |
| 70°-80° | 469.2 | 11.0 |
| 80°-90° | 49.4 | 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° | 4275.0 | 100.0 |
| 0°-180° | 4275.0 | 100.0 |

Coefficient of Utilization



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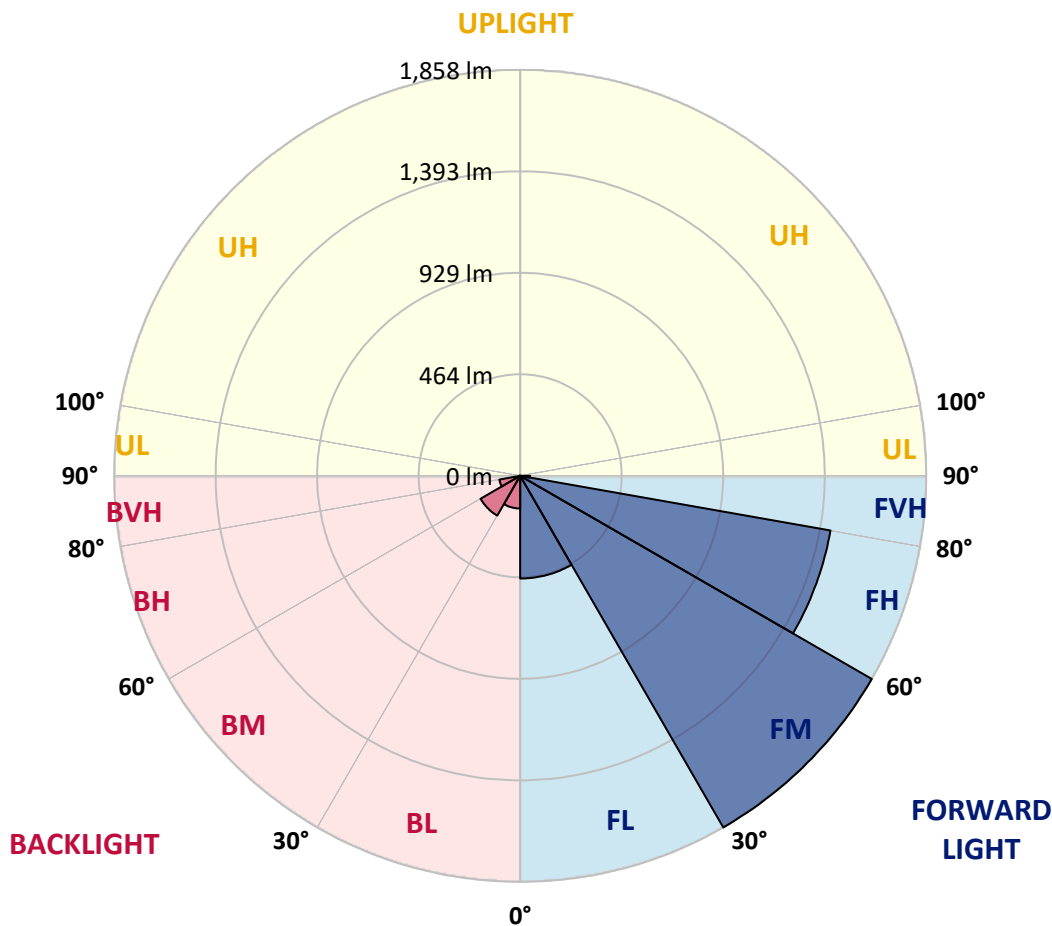
CATALOG NUMBER: ISW-SA1D-760-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 470.1 | 11.0 | | | |
| FM (30°-60°) | 1857.8 | 43.5 | | | |
| FH (60°-80°) | 1441.7 | 33.7 | | | G1/1800 |
| FVH (80°-90°) | 44.6 | 1.0 | | | G1/100 |
| BL (0°-30°) | 149.5 | 3.5 | B1/500 | | |
| BM (30°-60°) | 209.7 | 4.9 | B0/220 | | |
| BH (60°-80°) | 96.9 | 2.3 | B0/110 | | G0/110 |
| BVH (80°-90°) | 4.8 | 0.1 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1442.7 | 1442.7 | 1442.7 | 1442.7 | 1442.7 | 1442.7 | 1442.7 | 1442.7 | 1442.7 | 1442.7 | 1442.7 |
| 2.5° | 1526.8 | 1526.8 | 1504.3 | 1450.9 | 1401.7 | 1342.1 | 1309.3 | 1278.5 | 1245.7 | 1223.1 | 1188.2 |
| 5° | 1455.0 | 1440.6 | 1407.8 | 1309.3 | 1204.6 | 1134.9 | 1081.5 | 987.1 | 942.0 | 909.1 | 894.8 |
| 7.5° | 1336.0 | 1327.8 | 1274.4 | 1159.5 | 1034.3 | 921.4 | 849.6 | 771.6 | 710.1 | 685.4 | 642.3 |
| 10° | 1253.9 | 1245.7 | 1178.0 | 1022.0 | 876.3 | 794.2 | 736.7 | 681.3 | 621.8 | 562.3 | 517.2 |
| 12.5° | 1212.9 | 1196.4 | 1130.8 | 954.3 | 829.1 | 749.1 | 683.4 | 615.7 | 541.8 | 476.1 | 422.8 |
| 15° | 1223.1 | 1196.4 | 1122.6 | 942.0 | 794.2 | 695.7 | 611.6 | 513.1 | 439.2 | 361.2 | 311.9 |
| 17.5° | 1294.9 | 1266.2 | 1175.9 | 952.2 | 749.1 | 623.9 | 513.1 | 402.2 | 303.7 | 231.9 | 207.3 |
| 20° | 1428.3 | 1397.5 | 1274.4 | 974.8 | 720.3 | 552.0 | 396.1 | 277.0 | 201.1 | 168.3 | 153.9 |
| 22.5° | 1598.7 | 1557.6 | 1411.9 | 1011.7 | 687.5 | 480.2 | 299.6 | 197.0 | 153.9 | 133.4 | 123.1 |
| 25° | 1777.2 | 1736.2 | 1574.0 | 1067.1 | 667.0 | 418.6 | 231.9 | 153.9 | 125.2 | 112.9 | 106.7 |
| 27.5° | 1939.3 | 1888.0 | 1719.7 | 1149.2 | 642.3 | 363.2 | 192.9 | 133.4 | 112.9 | 98.5 | 94.4 |
| 30° | 2087.1 | 2027.6 | 1865.5 | 1219.0 | 607.5 | 314.0 | 166.2 | 123.1 | 104.7 | 92.3 | 86.2 |
| 32.5° | 2212.3 | 2165.1 | 1984.5 | 1268.3 | 578.7 | 287.3 | 147.8 | 108.8 | 90.3 | 80.0 | 75.9 |
| 35° | 2362.1 | 2316.9 | 2099.4 | 1309.3 | 560.3 | 275.0 | 135.4 | 102.6 | 84.1 | 73.9 | 65.7 |
| 37.5° | 2565.3 | 2499.6 | 2226.6 | 1346.2 | 539.7 | 264.7 | 125.2 | 96.5 | 80.0 | 67.7 | 61.6 |
| 40° | 2747.9 | 2676.1 | 2374.4 | 1372.9 | 529.5 | 256.5 | 123.1 | 92.3 | 75.9 | 63.6 | 57.5 |
| 42.5° | 2910.0 | 2844.4 | 2493.4 | 1383.2 | 521.3 | 242.2 | 121.1 | 90.3 | 75.9 | 61.6 | 53.4 |
| 45° | 3012.6 | 2953.1 | 2635.0 | 1409.9 | 521.3 | 231.9 | 112.9 | 90.3 | 73.9 | 59.5 | 51.3 |
| 47.5° | 3107.0 | 3049.6 | 2758.2 | 1438.6 | 513.1 | 223.7 | 102.6 | 98.5 | 73.9 | 57.5 | 47.2 |
| 50° | 3244.5 | 3199.4 | 2914.1 | 1524.8 | 498.7 | 211.4 | 92.3 | 96.5 | 75.9 | 55.4 | 47.2 |
| 52.5° | 3419.0 | 3398.4 | 3144.0 | 1641.8 | 478.2 | 188.8 | 82.1 | 90.3 | 75.9 | 53.4 | 45.1 |
| 55° | 3611.9 | 3603.7 | 3384.1 | 1748.5 | 453.5 | 162.1 | 75.9 | 82.1 | 73.9 | 49.3 | 41.0 |
| 57.5° | 3728.9 | 3728.9 | 3540.0 | 1808.0 | 433.0 | 129.3 | 67.7 | 67.7 | 71.8 | 45.1 | 36.9 |
| 60° | 3771.9 | 3726.8 | 3521.6 | 1801.8 | 398.1 | 106.7 | 61.6 | 55.4 | 75.9 | 39.0 | 32.8 |
| 62.5° | 3767.8 | 3669.3 | 3349.2 | 1703.3 | 350.9 | 98.5 | 53.4 | 47.2 | 55.4 | 34.9 | 28.7 |
| 65° | 3657.0 | 3538.0 | 3086.5 | 1483.7 | 316.0 | 98.5 | 45.1 | 39.0 | 36.9 | 30.8 | 22.6 |
| 67.5° | 3351.2 | 3279.4 | 2702.7 | 1258.0 | 291.4 | 98.5 | 39.0 | 32.8 | 28.7 | 24.6 | 20.5 |
| 70° | 2846.4 | 2752.0 | 2177.4 | 970.7 | 272.9 | 98.5 | 32.8 | 28.7 | 26.7 | 20.5 | 16.4 |
| 72.5° | 1855.2 | 1801.8 | 1331.9 | 667.0 | 223.7 | 96.5 | 28.7 | 26.7 | 24.6 | 18.5 | 14.4 |
| 75° | 1009.7 | 933.8 | 732.6 | 238.1 | 160.1 | 69.8 | 24.6 | 22.6 | 18.5 | 16.4 | 12.3 |
| 77.5° | 437.1 | 420.7 | 373.5 | 63.6 | 47.2 | 20.5 | 14.4 | 14.4 | 12.3 | 12.3 | 8.2 |
| 80° | 57.5 | 43.1 | 49.3 | 18.5 | 16.4 | 10.3 | 8.2 | 6.2 | 6.2 | 6.2 | 4.1 |
| 82.5° | 2.1 | 2.1 | 0.0 | 2.1 | 6.2 | 4.1 | 0.0 | 0.0 | 2.1 | 2.1 | 2.1 |
| 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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 CATALOG NUMBER: ISW-SA1D-760-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1442.7 | 1442.7 | 1442.7 | 1442.7 | 1442.7 | 1442.7 | 1442.7 | 1442.7 | 1442.7 | 1442.7 | 1442.7 |
| 2.5° | 1204.6 | 1180.0 | 1161.5 | 1161.5 | 1186.2 | 1171.8 | 1188.2 | 1178.0 | 1206.7 | 1221.1 | 1217.0 |
| 5° | 864.0 | 874.2 | 864.0 | 880.4 | 907.1 | 921.4 | 929.6 | 950.2 | 948.1 | 956.3 | 970.7 |
| 7.5° | 625.9 | 625.9 | 630.0 | 625.9 | 650.5 | 677.2 | 691.6 | 685.4 | 681.3 | 673.1 | 687.5 |
| 10° | 502.8 | 480.2 | 453.5 | 453.5 | 457.6 | 472.0 | 474.1 | 463.8 | 449.4 | 422.8 | 431.0 |
| 12.5° | 394.0 | 377.6 | 361.2 | 326.3 | 324.2 | 316.0 | 314.0 | 285.3 | 262.7 | 254.5 | 254.5 |
| 15° | 289.4 | 279.1 | 260.6 | 244.2 | 227.8 | 219.6 | 205.2 | 170.3 | 147.8 | 145.7 | 147.8 |
| 17.5° | 192.9 | 186.8 | 180.6 | 180.6 | 174.4 | 160.1 | 145.7 | 123.1 | 112.9 | 108.8 | 110.8 |
| 20° | 143.7 | 141.6 | 135.4 | 137.5 | 137.5 | 125.2 | 110.8 | 100.6 | 96.5 | 96.5 | 98.5 |
| 22.5° | 119.0 | 117.0 | 110.8 | 110.8 | 110.8 | 104.7 | 94.4 | 88.2 | 86.2 | 86.2 | 86.2 |
| 25° | 102.6 | 100.6 | 96.5 | 94.4 | 94.4 | 90.3 | 82.1 | 78.0 | 75.9 | 75.9 | 75.9 |
| 27.5° | 92.3 | 90.3 | 86.2 | 82.1 | 82.1 | 78.0 | 73.9 | 67.7 | 67.7 | 67.7 | 67.7 |
| 30° | 82.1 | 80.0 | 78.0 | 73.9 | 71.8 | 67.7 | 63.6 | 61.6 | 59.5 | 59.5 | 59.5 |
| 32.5° | 73.9 | 71.8 | 69.8 | 67.7 | 63.6 | 59.5 | 55.4 | 53.4 | 51.3 | 51.3 | 51.3 |
| 35° | 63.6 | 59.5 | 57.5 | 59.5 | 57.5 | 51.3 | 49.3 | 45.1 | 43.1 | 43.1 | 43.1 |
| 37.5° | 57.5 | 53.4 | 49.3 | 47.2 | 47.2 | 47.2 | 43.1 | 39.0 | 36.9 | 34.9 | 36.9 |
| 40° | 53.4 | 49.3 | 45.1 | 41.0 | 39.0 | 41.0 | 36.9 | 32.8 | 30.8 | 28.7 | 30.8 |
| 42.5° | 49.3 | 45.1 | 39.0 | 34.9 | 30.8 | 34.9 | 30.8 | 26.7 | 24.6 | 22.6 | 24.6 |
| 45° | 47.2 | 43.1 | 36.9 | 30.8 | 26.7 | 26.7 | 26.7 | 22.6 | 18.5 | 18.5 | 18.5 |
| 47.5° | 45.1 | 41.0 | 32.8 | 26.7 | 22.6 | 20.5 | 20.5 | 16.4 | 14.4 | 12.3 | 12.3 |
| 50° | 43.1 | 39.0 | 30.8 | 22.6 | 18.5 | 16.4 | 16.4 | 12.3 | 10.3 | 10.3 | 10.3 |
| 52.5° | 41.0 | 36.9 | 28.7 | 20.5 | 16.4 | 12.3 | 10.3 | 8.2 | 8.2 | 6.2 | 6.2 |
| 55° | 36.9 | 32.8 | 24.6 | 18.5 | 14.4 | 10.3 | 8.2 | 6.2 | 6.2 | 4.1 | 6.2 |
| 57.5° | 34.9 | 30.8 | 22.6 | 16.4 | 12.3 | 8.2 | 6.2 | 4.1 | 4.1 | 4.1 | 4.1 |
| 60° | 30.8 | 26.7 | 18.5 | 12.3 | 8.2 | 6.2 | 4.1 | 4.1 | 4.1 | 2.1 | 2.1 |
| 62.5° | 24.6 | 22.6 | 16.4 | 10.3 | 6.2 | 4.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 |
| 65° | 22.6 | 20.5 | 14.4 | 8.2 | 4.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 |
| 67.5° | 18.5 | 16.4 | 10.3 | 6.2 | 2.1 | 2.1 | 0.0 | 2.1 | 2.1 | 0.0 | 0.0 |
| 70° | 14.4 | 14.4 | 8.2 | 4.1 | 2.1 | 0.0 | 0.0 | 2.1 | 2.1 | 0.0 | 0.0 |
| 72.5° | 12.3 | 12.3 | 8.2 | 2.1 | 0.0 | 0.0 | 0.0 | 2.1 | 2.1 | 2.1 | 0.0 |
| 75° | 10.3 | 10.3 | 8.2 | 4.1 | 0.0 | 0.0 | 0.0 | 2.1 | 2.1 | 2.1 | 2.1 |
| 77.5° | 8.2 | 6.2 | 4.1 | 2.1 | 0.0 | 0.0 | 0.0 | 2.1 | 2.1 | 2.1 | 2.1 |
| 80° | 4.1 | 4.1 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 | 2.1 | 2.1 | 2.1 |
| 82.5° | 2.1 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 | 4.1 | 4.1 | 2.1 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 | 4.1 | 4.1 | 4.1 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 | 4.1 | 4.1 | 4.1 | 4.1 |
| 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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 CATALOG NUMBER: ISW-SA1D-760-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1442.7 | 1442.7 | 1442.7 | 1442.7 | 1442.7 | 1442.7 | 1442.7 | 1442.7 | 1442.7 | 1442.7 | 1442.7 |
| 2.5° | 1227.2 | 1260.1 | 1297.0 | 1319.6 | 1368.8 | 1411.9 | 1463.2 | 1508.4 | 1561.7 | 1590.5 | 1600.7 |
| 5° | 985.1 | 1003.5 | 1050.7 | 1112.3 | 1167.7 | 1245.7 | 1336.0 | 1436.5 | 1545.3 | 1596.6 | 1633.6 |
| 7.5° | 679.3 | 695.7 | 763.4 | 820.9 | 913.2 | 1013.8 | 1136.9 | 1274.4 | 1416.0 | 1487.8 | 1553.5 |
| 10° | 443.3 | 465.8 | 523.3 | 603.3 | 720.3 | 843.5 | 968.6 | 1112.3 | 1276.5 | 1360.6 | 1448.9 |
| 12.5° | 256.5 | 283.2 | 353.0 | 457.6 | 572.6 | 703.9 | 833.2 | 991.2 | 1173.9 | 1266.2 | 1356.5 |
| 15° | 147.8 | 158.0 | 199.1 | 291.4 | 420.7 | 580.8 | 732.6 | 903.0 | 1116.4 | 1219.0 | 1325.7 |
| 17.5° | 110.8 | 117.0 | 129.3 | 168.3 | 268.8 | 445.3 | 658.8 | 876.3 | 1122.6 | 1260.1 | 1354.5 |
| 20° | 98.5 | 102.6 | 108.8 | 123.1 | 170.3 | 316.0 | 568.5 | 857.8 | 1182.1 | 1358.6 | 1473.5 |
| 22.5° | 88.2 | 92.3 | 98.5 | 108.8 | 129.3 | 213.4 | 474.1 | 855.8 | 1280.6 | 1504.3 | 1633.6 |
| 25° | 78.0 | 82.1 | 88.2 | 98.5 | 114.9 | 153.9 | 367.3 | 849.6 | 1403.7 | 1664.3 | 1826.5 |
| 27.5° | 67.7 | 71.8 | 78.0 | 88.2 | 102.6 | 127.2 | 279.1 | 831.1 | 1551.5 | 1836.7 | 2009.1 |
| 30° | 59.5 | 63.6 | 69.8 | 78.0 | 92.3 | 110.8 | 213.4 | 800.4 | 1678.7 | 1990.6 | 2132.2 |
| 32.5° | 51.3 | 55.4 | 61.6 | 69.8 | 82.1 | 96.5 | 172.4 | 734.7 | 1777.2 | 2111.7 | 2232.8 |
| 35° | 43.1 | 47.2 | 53.4 | 61.6 | 71.8 | 82.1 | 141.6 | 628.0 | 1877.8 | 2236.9 | 2353.9 |
| 37.5° | 36.9 | 41.0 | 45.1 | 53.4 | 63.6 | 73.9 | 117.0 | 560.3 | 1951.6 | 2392.9 | 2507.8 |
| 40° | 30.8 | 34.9 | 41.0 | 47.2 | 55.4 | 69.8 | 94.4 | 470.0 | 2025.5 | 2542.7 | 2649.4 |
| 42.5° | 24.6 | 28.7 | 34.9 | 43.1 | 51.3 | 61.6 | 75.9 | 387.9 | 2099.4 | 2678.1 | 2778.7 |
| 45° | 18.5 | 22.6 | 28.7 | 39.0 | 51.3 | 53.4 | 61.6 | 330.4 | 2117.9 | 2805.4 | 2891.6 |
| 47.5° | 14.4 | 16.4 | 22.6 | 32.8 | 49.3 | 47.2 | 51.3 | 287.3 | 2152.8 | 2905.9 | 3002.4 |
| 50° | 10.3 | 12.3 | 18.5 | 30.8 | 43.1 | 39.0 | 45.1 | 270.9 | 2202.0 | 2983.9 | 3035.2 |
| 52.5° | 8.2 | 10.3 | 14.4 | 26.7 | 34.9 | 34.9 | 41.0 | 287.3 | 2265.6 | 3076.2 | 3119.3 |
| 55° | 6.2 | 8.2 | 12.3 | 18.5 | 26.7 | 30.8 | 39.0 | 309.9 | 2388.8 | 3238.4 | 3230.2 |
| 57.5° | 4.1 | 6.2 | 10.3 | 14.4 | 20.5 | 26.7 | 36.9 | 344.8 | 2513.9 | 3421.0 | 3429.2 |
| 60° | 4.1 | 6.2 | 8.2 | 12.3 | 18.5 | 22.6 | 32.8 | 348.9 | 2493.4 | 3447.7 | 3568.8 |
| 62.5° | 2.1 | 4.1 | 8.2 | 10.3 | 14.4 | 18.5 | 28.7 | 293.5 | 2296.4 | 3318.4 | 3494.9 |
| 65° | 2.1 | 4.1 | 6.2 | 10.3 | 12.3 | 16.4 | 22.6 | 186.8 | 1998.8 | 3088.6 | 3322.5 |
| 67.5° | 2.1 | 4.1 | 6.2 | 8.2 | 10.3 | 14.4 | 18.5 | 96.5 | 1695.1 | 2850.5 | 3076.2 |
| 70° | 2.1 | 4.1 | 6.2 | 8.2 | 10.3 | 12.3 | 16.4 | 47.2 | 1284.7 | 2403.1 | 2694.5 |
| 72.5° | 2.1 | 4.1 | 6.2 | 8.2 | 8.2 | 10.3 | 14.4 | 32.8 | 825.0 | 1805.9 | 2087.1 |
| 75° | 2.1 | 4.1 | 4.1 | 6.2 | 8.2 | 10.3 | 12.3 | 22.6 | 533.6 | 1214.9 | 1582.2 |
| 77.5° | 2.1 | 4.1 | 4.1 | 6.2 | 8.2 | 10.3 | 14.4 | 20.5 | 389.9 | 833.2 | 1093.8 |
| 80° | 2.1 | 4.1 | 4.1 | 6.2 | 8.2 | 8.2 | 10.3 | 14.4 | 209.3 | 552.0 | 695.7 |
| 82.5° | 4.1 | 4.1 | 6.2 | 6.2 | 6.2 | 8.2 | 10.3 | 10.3 | 108.8 | 353.0 | 470.0 |
| 85° | 4.1 | 4.1 | 6.2 | 6.2 | 8.2 | 8.2 | 8.2 | 10.3 | 47.2 | 147.8 | 234.0 |
| 87.5° | 4.1 | 6.2 | 6.2 | 6.2 | 8.2 | 8.2 | 8.2 | 8.2 | 6.2 | 8.2 | 8.2 |
| 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: P438586
 CATALOG NUMBER: ISW-SA1D-760-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

| | 285° | 295° | 305° | 315° | 325° | 335° | 345° | 355° | 359° | 360° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1442.7 | 1442.7 | 1442.7 | 1442.7 | 1442.7 | 1442.7 | 1442.7 | 1442.7 | 1442.7 | 1442.7 |
| 2.5° | 1631.5 | 1658.2 | 1670.5 | 1660.2 | 1652.0 | 1627.4 | 1592.5 | 1557.6 | 1528.9 | 1526.8 |
| 5° | 1717.7 | 1775.2 | 1820.3 | 1797.7 | 1766.9 | 1695.1 | 1606.9 | 1508.4 | 1471.4 | 1455.0 |
| 7.5° | 1699.2 | 1824.4 | 1900.3 | 1879.8 | 1818.3 | 1682.8 | 1545.3 | 1416.0 | 1356.5 | 1336.0 |
| 10° | 1615.1 | 1783.4 | 1883.9 | 1877.8 | 1820.3 | 1660.2 | 1489.9 | 1333.9 | 1270.3 | 1253.9 |
| 12.5° | 1537.1 | 1703.3 | 1799.8 | 1803.9 | 1783.4 | 1635.6 | 1463.2 | 1297.0 | 1221.1 | 1212.9 |
| 15° | 1496.1 | 1637.7 | 1695.1 | 1707.4 | 1715.6 | 1633.6 | 1487.8 | 1321.6 | 1241.6 | 1223.1 |
| 17.5° | 1504.3 | 1572.0 | 1586.4 | 1576.1 | 1631.5 | 1635.6 | 1557.6 | 1407.8 | 1317.5 | 1294.9 |
| 20° | 1553.5 | 1528.9 | 1481.7 | 1492.0 | 1553.5 | 1643.8 | 1662.3 | 1559.7 | 1457.1 | 1428.3 |
| 22.5° | 1647.9 | 1526.8 | 1432.4 | 1424.2 | 1504.3 | 1658.2 | 1775.2 | 1721.8 | 1615.1 | 1598.7 |
| 25° | 1787.5 | 1557.6 | 1411.9 | 1395.5 | 1465.3 | 1672.5 | 1890.1 | 1892.1 | 1808.0 | 1777.2 |
| 27.5° | 1922.9 | 1606.9 | 1409.9 | 1393.4 | 1465.3 | 1691.0 | 1968.1 | 2060.4 | 1972.2 | 1939.3 |
| 30° | 2000.9 | 1664.3 | 1442.7 | 1411.9 | 1492.0 | 1707.4 | 2019.4 | 2193.8 | 2115.8 | 2087.1 |
| 32.5° | 2072.7 | 1725.9 | 1477.6 | 1440.6 | 1543.3 | 1752.6 | 2066.6 | 2314.9 | 2247.2 | 2212.3 |
| 35° | 2132.2 | 1797.7 | 1543.3 | 1485.8 | 1619.2 | 1818.3 | 2124.0 | 2448.3 | 2405.2 | 2362.1 |
| 37.5° | 2189.7 | 1869.6 | 1635.6 | 1602.8 | 1746.4 | 1912.7 | 2200.0 | 2587.8 | 2608.3 | 2565.3 |
| 40° | 2271.8 | 1951.6 | 1793.6 | 1766.9 | 1933.2 | 2056.3 | 2292.3 | 2727.4 | 2795.1 | 2747.9 |
| 42.5° | 2349.8 | 2056.3 | 1953.7 | 1978.3 | 2158.9 | 2222.5 | 2397.0 | 2854.6 | 2930.5 | 2910.0 |
| 45° | 2421.6 | 2185.6 | 2185.6 | 2245.1 | 2403.1 | 2405.2 | 2477.0 | 2942.9 | 3022.9 | 3012.6 |
| 47.5° | 2516.0 | 2345.7 | 2425.7 | 2589.9 | 2674.0 | 2563.2 | 2563.2 | 3027.0 | 3135.8 | 3107.0 |
| 50° | 2608.3 | 2559.1 | 2743.8 | 2893.6 | 2967.5 | 2754.1 | 2651.4 | 3139.9 | 3269.2 | 3244.5 |
| 52.5° | 2708.9 | 2766.4 | 3041.4 | 3189.1 | 3232.2 | 2971.6 | 2784.8 | 3252.7 | 3419.0 | 3419.0 |
| 55° | 2871.0 | 2942.9 | 3355.3 | 3478.5 | 3540.0 | 3152.2 | 2955.2 | 3412.8 | 3601.6 | 3611.9 |
| 57.5° | 3037.3 | 3113.2 | 3531.8 | 3687.8 | 3767.8 | 3419.0 | 3174.8 | 3626.2 | 3730.9 | 3728.9 |
| 60° | 3211.7 | 3291.7 | 3669.3 | 3823.3 | 3940.2 | 3691.9 | 3435.4 | 3821.2 | 3792.5 | 3771.9 |
| 62.5° | 3427.2 | 3427.2 | 3720.6 | 3792.5 | 3934.1 | 3864.3 | 3728.9 | 3932.0 | 3815.0 | 3767.8 |
| 65° | 3531.8 | 3499.0 | 3572.9 | 3519.5 | 3681.6 | 3815.0 | 3952.5 | 3936.1 | 3735.0 | 3657.0 |
| 67.5° | 3476.4 | 3277.4 | 3150.1 | 3070.1 | 3105.0 | 3334.8 | 3854.0 | 3741.2 | 3410.8 | 3351.2 |
| 70° | 3096.8 | 2620.7 | 2501.6 | 2374.4 | 2306.7 | 2544.7 | 3330.7 | 3304.0 | 2901.8 | 2846.4 |
| 72.5° | 2524.2 | 1892.1 | 1604.8 | 1734.1 | 1668.4 | 1937.3 | 2729.4 | 2331.3 | 1904.4 | 1855.2 |
| 75° | 2095.3 | 1407.8 | 1046.6 | 1048.7 | 1058.9 | 1272.4 | 1994.7 | 1385.2 | 1046.6 | 1009.7 |
| 77.5° | 1516.6 | 991.2 | 845.5 | 757.3 | 765.5 | 812.7 | 1038.4 | 591.0 | 482.3 | 437.1 |
| 80° | 925.5 | 613.6 | 683.4 | 607.5 | 586.9 | 451.5 | 447.4 | 86.2 | 57.5 | 57.5 |
| 82.5° | 504.8 | 389.9 | 363.2 | 131.3 | 203.2 | 246.3 | 203.2 | 4.1 | 2.1 | 2.1 |
| 85° | 256.5 | 156.0 | 73.9 | 22.6 | 26.7 | 22.6 | 4.1 | 0.0 | 0.0 | 0.0 |
| 87.5° | 8.2 | 6.2 | 6.2 | 4.1 | 4.1 | 2.1 | 2.1 | 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: SP1-1908-441-9-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-760-U-5WQ**
 Description: MCGRAW EDISON ROADWAY AND AREA LUMINAIRE

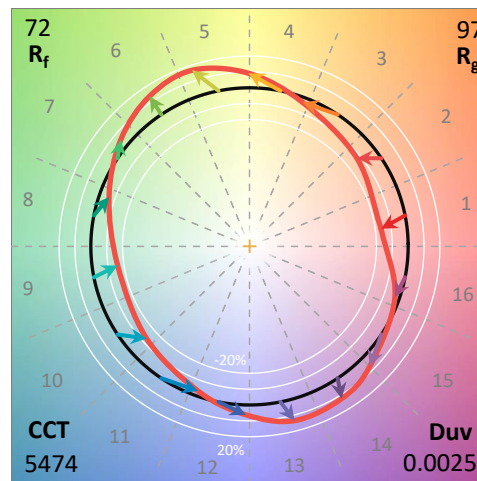
THIS IS A REVISION OF SP1-1908-441-4-R3. TO UPDATE THE CATALOG INFORMATION.TESTED IN SITU. ROADWAY AND AREA LUMINAIRE. (1) 70 CRI, 5000K, 1050MA LIGHTSQUARE WITH 16 LEDS AND TYPE V WIDE OPTICS.

Spectral Parameters

CCT (K): 5474
 CIE u': 0.2052
 CIE v': 0.4804
 Duv: 0.0025
 CIE x: 0.3330
 CIE y: 0.3466
 CIE z: 0.3204
 Peak Wavelength (nm): 442
 Dominant Wavelength (nm): 554
 Purity: 4.1

| | | | |
|-----------|------|------|-------|
| CRI (Ra): | 71.7 | | |
| R1: | 70.6 | R9: | -27.1 |
| R2: | 74.6 | R10: | 40.8 |
| R3: | 78.3 | R11: | 74.6 |
| R4: | 73.8 | R12: | 50.4 |
| R5: | 72.4 | R13: | 70.0 |
| R6: | 67.5 | R14: | 87.8 |
| R7: | 77.5 | | |
| R8: | 58.9 | | |

Rf: 72.1
 Rg: 97.2



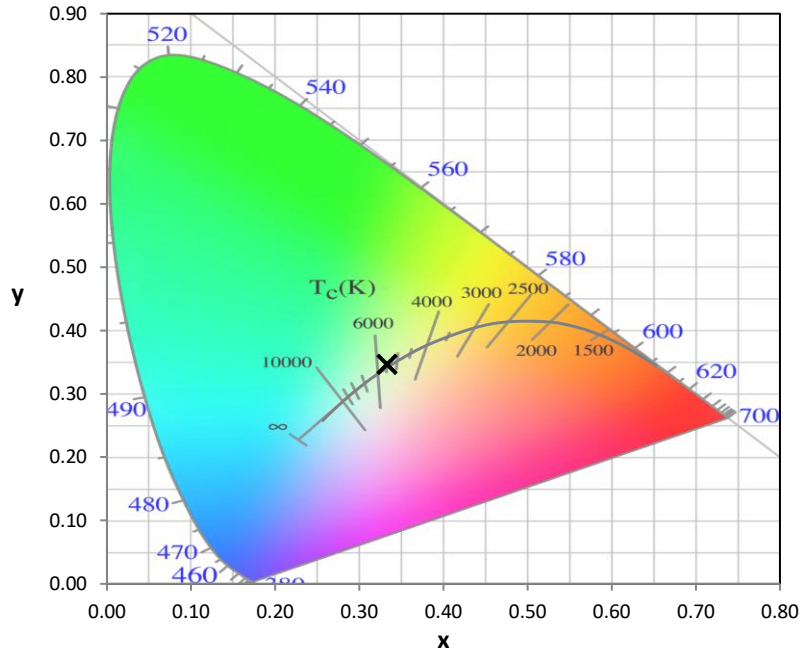
Test Conditions
 Stabilization Time: 240M
 Operation Time: 12H
 Room Temperature (°C) / RH%: 24.6/31%
 Sphere Temperature (°C): 25.9

REPORT NUMBER: SP1-1908-441-9-R4

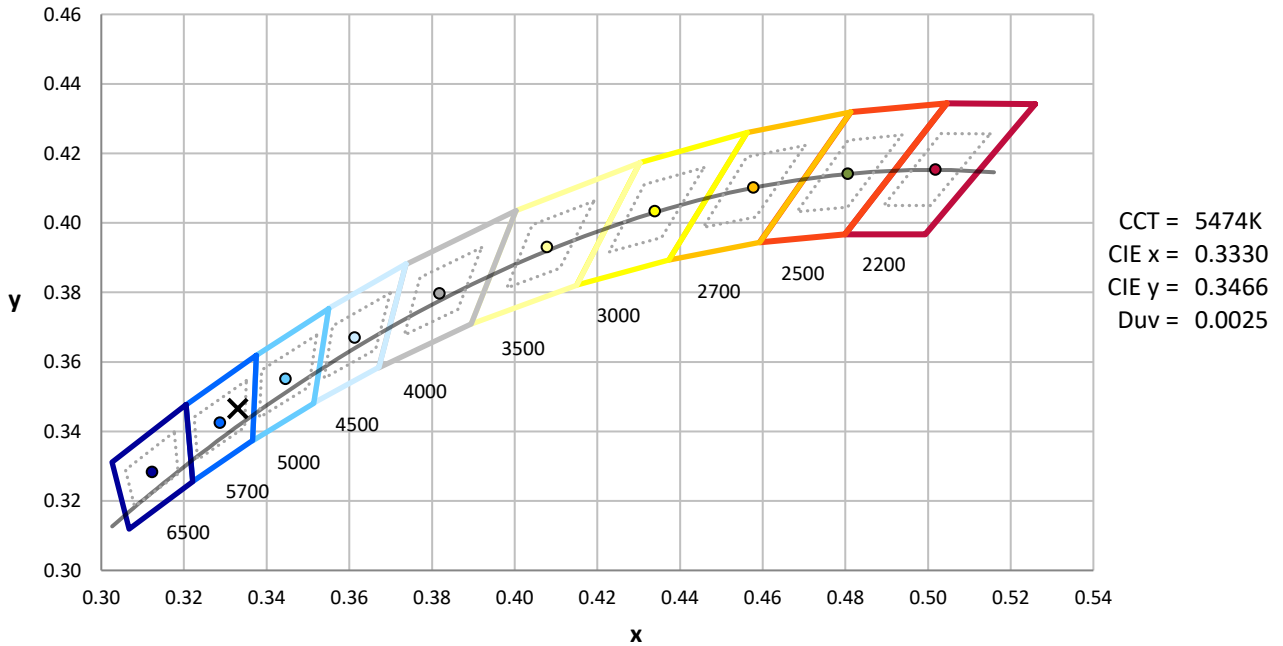
| Measurement and Test Equipment | | | |
|--------------------------------|-----------------------|------------------|----------------------|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | IN0058 | 6/28/2019 | 12/28/2019 |
| Power Meter | IN0071 | 12/5/2018 | 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: SP1-1908-441-9-R4

CIE 1931 Chromaticity Diagram



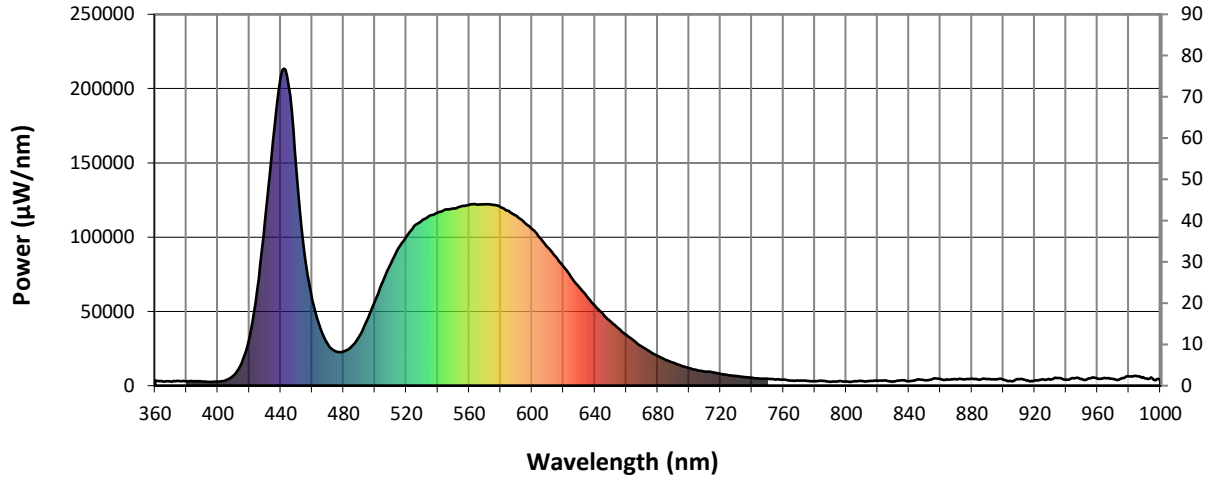
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5700K 4-step quadrangle

REPORT NUMBER: SP1-1908-441-9-R4

Photopic Flux vs. Wavelength

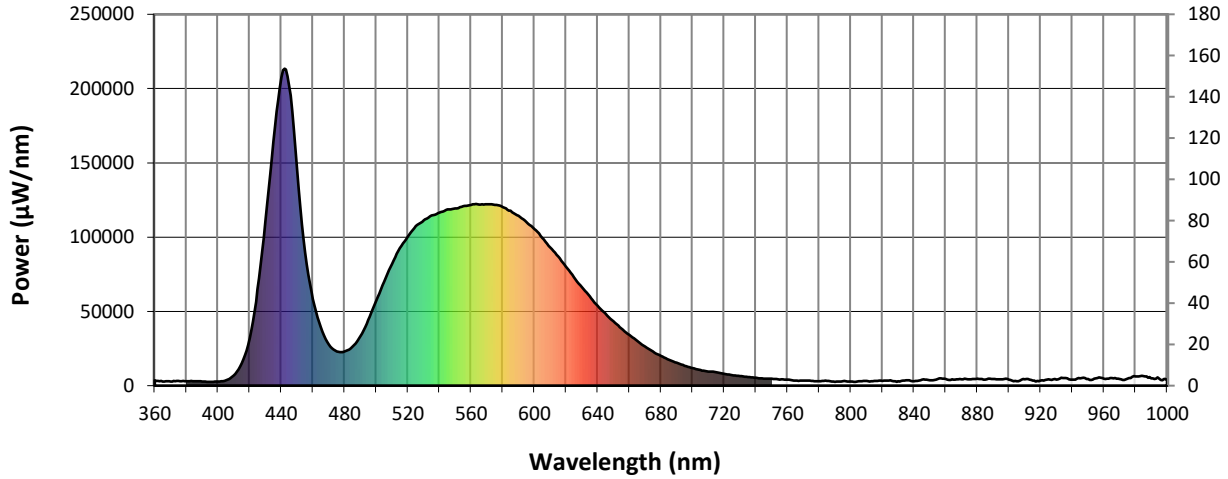


#####

| 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 | 3540 | NR | 490 | 33363 | NR | 620 | 80193 | NR | 750 | 4663 | NR | 880 | 4678 | NR |
| 365 | 2862 | NR | 495 | 44177 | NR | 625 | 73091 | NR | 755 | 4147 | NR | 885 | 4128 | NR |
| 370 | 2865 | NR | 500 | 57019 | NR | 630 | 66269 | NR | 760 | 4040 | NR | 890 | 4504 | NR |
| 375 | 3254 | NR | 505 | 70030 | NR | 635 | 60012 | NR | 765 | 3474 | NR | 895 | 4371 | NR |
| 380 | 3076 | NR | 510 | 81972 | NR | 640 | 53914 | NR | 770 | 3469 | NR | 900 | 4082 | NR |
| 385 | 2904 | NR | 515 | 92590 | NR | 645 | 48385 | NR | 775 | 3181 | NR | 905 | 2982 | NR |
| 390 | 2689 | NR | 520 | 100305 | NR | 650 | 43219 | NR | 780 | 2969 | NR | 910 | 4351 | NR |
| 395 | 2619 | NR | 525 | 107452 | NR | 655 | 38562 | NR | 785 | 3132 | NR | 915 | 3365 | NR |
| 400 | 2679 | NR | 530 | 111373 | NR | 660 | 34110 | NR | 790 | 2507 | NR | 920 | 3430 | NR |
| 405 | 3515 | NR | 535 | 114505 | NR | 665 | 30085 | NR | 795 | 2968 | NR | 925 | 4264 | NR |
| 410 | 6934 | NR | 540 | 116408 | NR | 670 | 26205 | NR | 800 | 2758 | NR | 930 | 4095 | NR |
| 415 | 14943 | NR | 545 | 118700 | NR | 675 | 22906 | NR | 805 | 2872 | NR | 935 | 5048 | NR |
| 420 | 31939 | NR | 550 | 119209 | NR | 680 | 20058 | NR | 810 | 3094 | NR | 940 | 4074 | NR |
| 425 | 64701 | NR | 555 | 120742 | NR | 685 | 17413 | NR | 815 | 3222 | NR | 945 | 4949 | NR |
| 430 | 110939 | NR | 560 | 121594 | NR | 690 | 15447 | NR | 820 | 3238 | NR | 950 | 4387 | NR |
| 435 | 164597 | NR | 565 | 121913 | NR | 695 | 13398 | NR | 825 | 3524 | NR | 955 | 4978 | NR |
| 440 | 207696 | NR | 570 | 122147 | NR | 700 | 11777 | NR | 830 | 2921 | NR | 960 | 4706 | NR |
| 445 | 201830 | NR | 575 | 121605 | NR | 705 | 10412 | NR | 835 | 3595 | NR | 965 | 5083 | NR |
| 450 | 145410 | NR | 580 | 120248 | NR | 710 | 9544 | NR | 840 | 3016 | NR | 970 | 4522 | NR |
| 455 | 89594 | NR | 585 | 117717 | NR | 715 | 8940 | NR | 845 | 4032 | NR | 975 | 4740 | NR |
| 460 | 58321 | NR | 590 | 114359 | NR | 720 | 7897 | NR | 850 | 3579 | NR | 980 | 6122 | NR |
| 465 | 39318 | NR | 595 | 109974 | NR | 725 | 7045 | NR | 855 | 4571 | NR | 985 | 6450 | NR |
| 470 | 27693 | NR | 600 | 105269 | NR | 730 | 6483 | NR | 860 | 4485 | NR | 990 | 4875 | NR |
| 475 | 23081 | NR | 605 | 99453 | NR | 735 | 5838 | NR | 865 | 3978 | NR | 995 | 4764 | NR |
| 480 | 23002 | NR | 610 | 92921 | NR | 740 | 5261 | NR | 870 | 4298 | NR | 1000 | 3640 | NR |
| 485 | 26201 | NR | 615 | 86989 | NR | 745 | 4760 | NR | 875 | 4356 | NR | | | |

REPORT NUMBER: SP1-1908-441-9-R4

Scotopic Flux vs. Wavelength

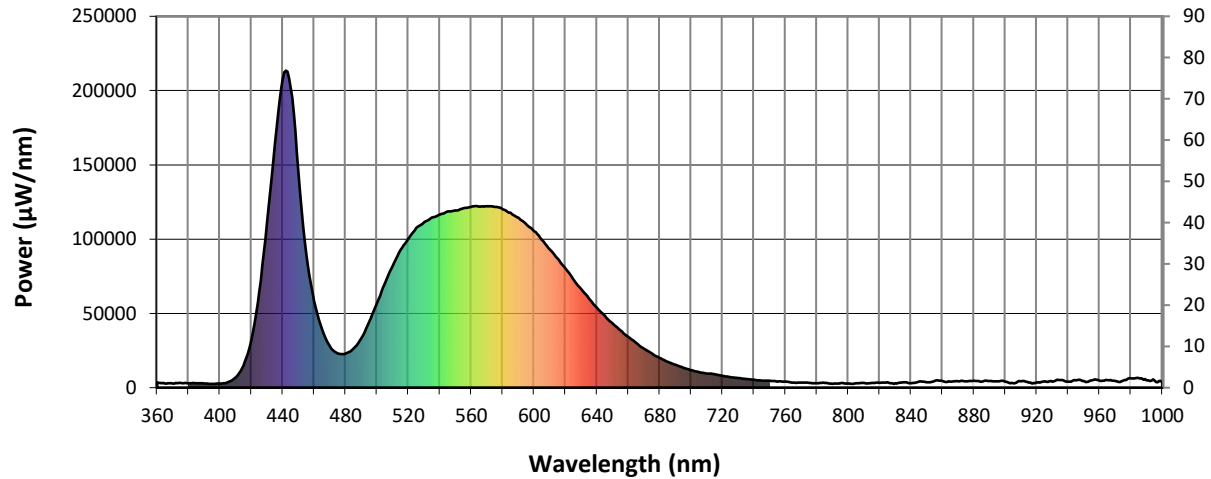


Scotopic Lumens: 13759.3 S/P: 1.85

| 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 | 3540 | NR | 490 | 33363 | NR | 620 | 80193 | NR | 750 | 4663 | NR | 880 | 4678 | NR |
| 365 | 2862 | NR | 495 | 44177 | NR | 625 | 73091 | NR | 755 | 4147 | NR | 885 | 4128 | NR |
| 370 | 2865 | NR | 500 | 57019 | NR | 630 | 66269 | NR | 760 | 4040 | NR | 890 | 4504 | NR |
| 375 | 3254 | NR | 505 | 70030 | NR | 635 | 60012 | NR | 765 | 3474 | NR | 895 | 4371 | NR |
| 380 | 3076 | NR | 510 | 81972 | NR | 640 | 53914 | NR | 770 | 3469 | NR | 900 | 4082 | NR |
| 385 | 2904 | NR | 515 | 92590 | NR | 645 | 48385 | NR | 775 | 3181 | NR | 905 | 2982 | NR |
| 390 | 2689 | NR | 520 | 100305 | NR | 650 | 43219 | NR | 780 | 2969 | NR | 910 | 4351 | NR |
| 395 | 2619 | NR | 525 | 107452 | NR | 655 | 38562 | NR | 785 | 3132 | NR | 915 | 3365 | NR |
| 400 | 2679 | NR | 530 | 111373 | NR | 660 | 34110 | NR | 790 | 2507 | NR | 920 | 3430 | NR |
| 405 | 3515 | NR | 535 | 114505 | NR | 665 | 30085 | NR | 795 | 2968 | NR | 925 | 4264 | NR |
| 410 | 6934 | NR | 540 | 116408 | NR | 670 | 26205 | NR | 800 | 2758 | NR | 930 | 4095 | NR |
| 415 | 14943 | NR | 545 | 118700 | NR | 675 | 22906 | NR | 805 | 2872 | NR | 935 | 5048 | NR |
| 420 | 31939 | NR | 550 | 119209 | NR | 680 | 20058 | NR | 810 | 3094 | NR | 940 | 4074 | NR |
| 425 | 64701 | NR | 555 | 120742 | NR | 685 | 17413 | NR | 815 | 3222 | NR | 945 | 4949 | NR |
| 430 | 110939 | NR | 560 | 121594 | NR | 690 | 15447 | NR | 820 | 3238 | NR | 950 | 4387 | NR |
| 435 | 164597 | NR | 565 | 121913 | NR | 695 | 13398 | NR | 825 | 3524 | NR | 955 | 4978 | NR |
| 440 | 207696 | NR | 570 | 122147 | NR | 700 | 11777 | NR | 830 | 2921 | NR | 960 | 4706 | NR |
| 445 | 201830 | NR | 575 | 121605 | NR | 705 | 10412 | NR | 835 | 3595 | NR | 965 | 5083 | NR |
| 450 | 145410 | NR | 580 | 120248 | NR | 710 | 9544 | NR | 840 | 3016 | NR | 970 | 4522 | NR |
| 455 | 89594 | NR | 585 | 117717 | NR | 715 | 8940 | NR | 845 | 4032 | NR | 975 | 4740 | NR |
| 460 | 58321 | NR | 590 | 114359 | NR | 720 | 7897 | NR | 850 | 3579 | NR | 980 | 6122 | NR |
| 465 | 39318 | NR | 595 | 109974 | NR | 725 | 7045 | NR | 855 | 4571 | NR | 985 | 6450 | NR |
| 470 | 27693 | NR | 600 | 105269 | NR | 730 | 6483 | NR | 860 | 4485 | NR | 990 | 4875 | NR |
| 475 | 23081 | NR | 605 | 99453 | NR | 735 | 5838 | NR | 865 | 3978 | NR | 995 | 4764 | NR |
| 480 | 23002 | NR | 610 | 92921 | NR | 740 | 5261 | NR | 870 | 4298 | NR | 1000 | 3640 | NR |
| 485 | 26201 | NR | 615 | 86989 | NR | 745 | 4760 | NR | 875 | 4356 | NR | | | |

REPORT NUMBER: SP1-1908-441-9-R4

Melanopic Flux vs. Wavelength



Melanopic Lumens: 5527.6 M/P: 0.74

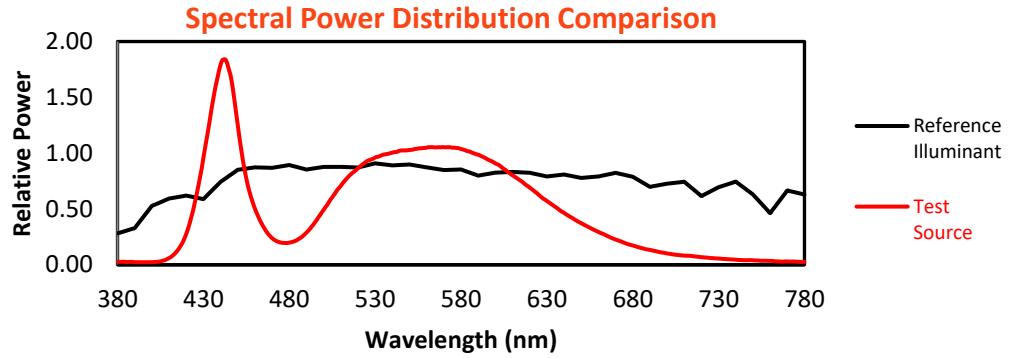
| λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) |
|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|
| 360 | 3540 | NR | 490 | 33363 | NR | 620 | 80193 | NR | 750 | 4663 | NR | 880 | 4678 | NR |
| 365 | 2862 | NR | 495 | 44177 | NR | 625 | 73091 | NR | 755 | 4147 | NR | 885 | 4128 | NR |
| 370 | 2865 | NR | 500 | 57019 | NR | 630 | 66269 | NR | 760 | 4040 | NR | 890 | 4504 | NR |
| 375 | 3254 | NR | 505 | 70030 | NR | 635 | 60012 | NR | 765 | 3474 | NR | 895 | 4371 | NR |
| 380 | 3076 | NR | 510 | 81972 | NR | 640 | 53914 | NR | 770 | 3469 | NR | 900 | 4082 | NR |
| 385 | 2904 | NR | 515 | 92590 | NR | 645 | 48385 | NR | 775 | 3181 | NR | 905 | 2982 | NR |
| 390 | 2689 | NR | 520 | 100305 | NR | 650 | 43219 | NR | 780 | 2969 | NR | 910 | 4351 | NR |
| 395 | 2619 | NR | 525 | 107452 | NR | 655 | 38562 | NR | 785 | 3132 | NR | 915 | 3365 | NR |
| 400 | 2679 | NR | 530 | 111373 | NR | 660 | 34110 | NR | 790 | 2507 | NR | 920 | 3430 | NR |
| 405 | 3515 | NR | 535 | 114505 | NR | 665 | 30085 | NR | 795 | 2968 | NR | 925 | 4264 | NR |
| 410 | 6934 | NR | 540 | 116408 | NR | 670 | 26205 | NR | 800 | 2758 | NR | 930 | 4095 | NR |
| 415 | 14943 | NR | 545 | 118700 | NR | 675 | 22906 | NR | 805 | 2872 | NR | 935 | 5048 | NR |
| 420 | 31939 | NR | 550 | 119209 | NR | 680 | 20058 | NR | 810 | 3094 | NR | 940 | 4074 | NR |
| 425 | 64701 | NR | 555 | 120742 | NR | 685 | 17413 | NR | 815 | 3222 | NR | 945 | 4949 | NR |
| 430 | 110939 | NR | 560 | 121594 | NR | 690 | 15447 | NR | 820 | 3238 | NR | 950 | 4387 | NR |
| 435 | 164597 | NR | 565 | 121913 | NR | 695 | 13398 | NR | 825 | 3524 | NR | 955 | 4978 | NR |
| 440 | 207696 | NR | 570 | 122147 | NR | 700 | 11777 | NR | 830 | 2921 | NR | 960 | 4706 | NR |
| 445 | 201830 | NR | 575 | 121605 | NR | 705 | 10412 | NR | 835 | 3595 | NR | 965 | 5083 | NR |
| 450 | 145410 | NR | 580 | 120248 | NR | 710 | 9544 | NR | 840 | 3016 | NR | 970 | 4522 | NR |
| 455 | 89594 | NR | 585 | 117717 | NR | 715 | 8940 | NR | 845 | 4032 | NR | 975 | 4740 | NR |
| 460 | 58321 | NR | 590 | 114359 | NR | 720 | 7897 | NR | 850 | 3579 | NR | 980 | 6122 | NR |
| 465 | 39318 | NR | 595 | 109974 | NR | 725 | 7045 | NR | 855 | 4571 | NR | 985 | 6450 | NR |
| 470 | 27693 | NR | 600 | 105269 | NR | 730 | 6483 | NR | 860 | 4485 | NR | 990 | 4875 | NR |
| 475 | 23081 | NR | 605 | 99453 | NR | 735 | 5838 | NR | 865 | 3978 | NR | 995 | 4764 | NR |
| 480 | 23002 | NR | 610 | 92921 | NR | 740 | 5261 | NR | 870 | 4298 | NR | 1000 | 3640 | NR |
| 485 | 26201 | NR | 615 | 86989 | NR | 745 | 4760 | NR | 875 | 4356 | NR | | | |

REPORT NUMBER: SP1-1908-441-9-R4

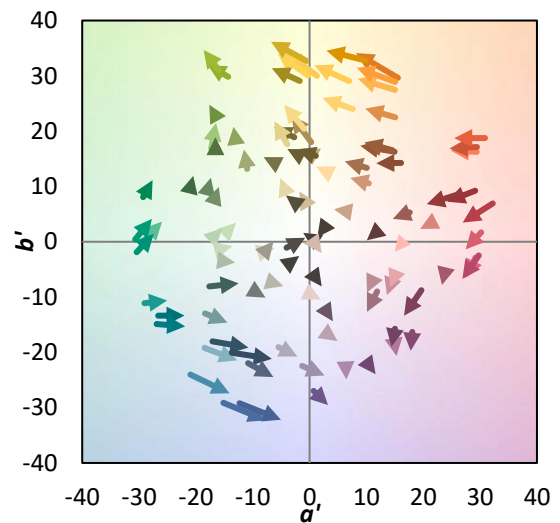
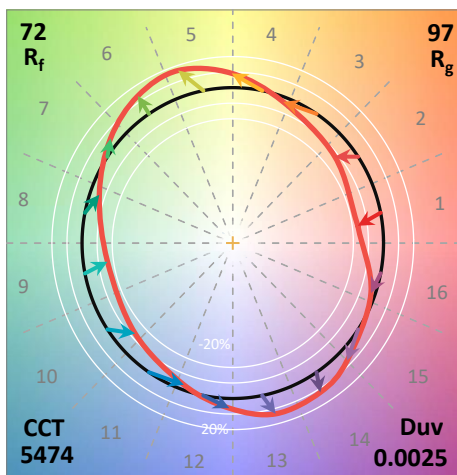
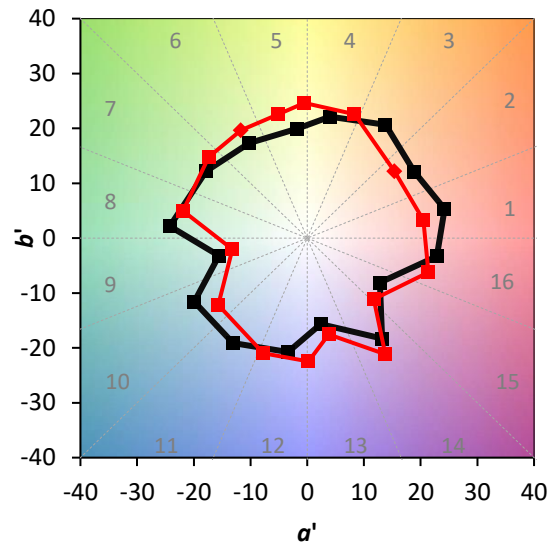
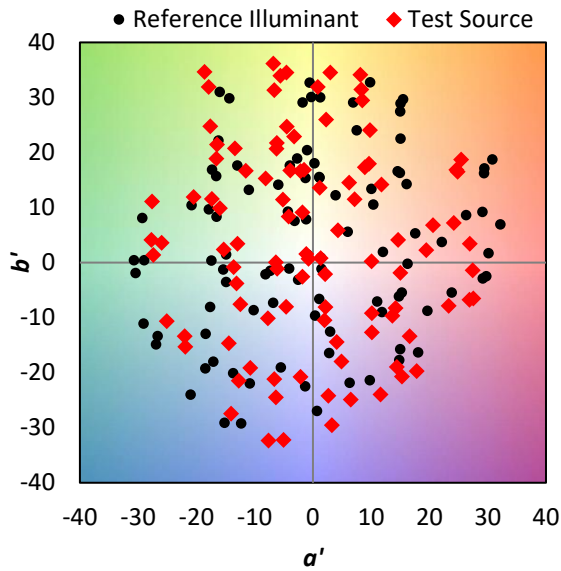
TM-30-18

Summary

$R_f = 72.1$
 $R_g = 97.2$
 CIE $R_a = 71.7$
 $R_g = -27.1$



Color Vector Graphics

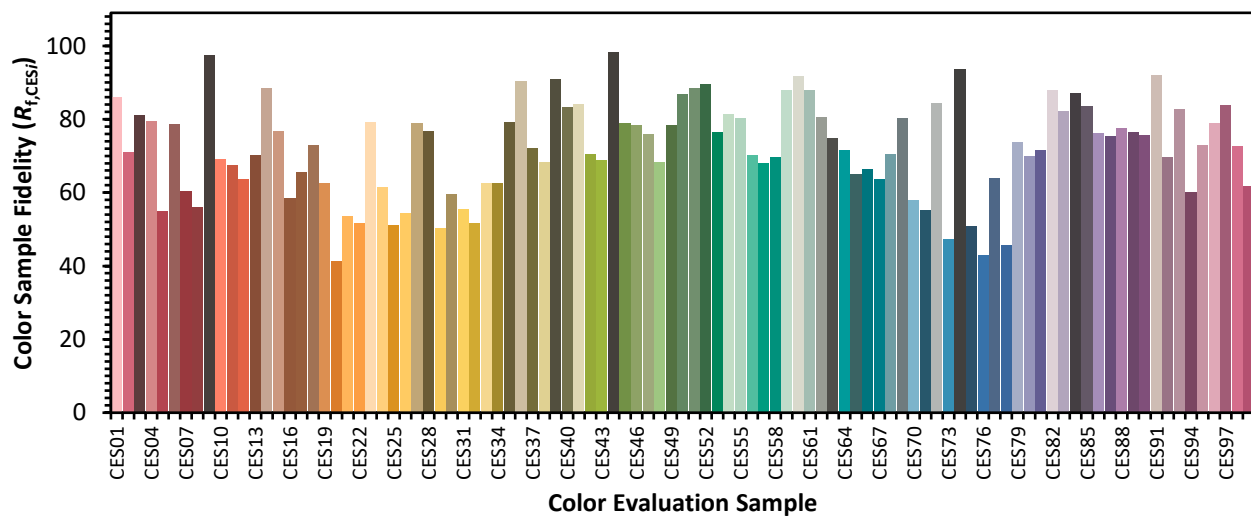


REPORT NUMBER: SP1-1908-441-9-R4

TM-30-18

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

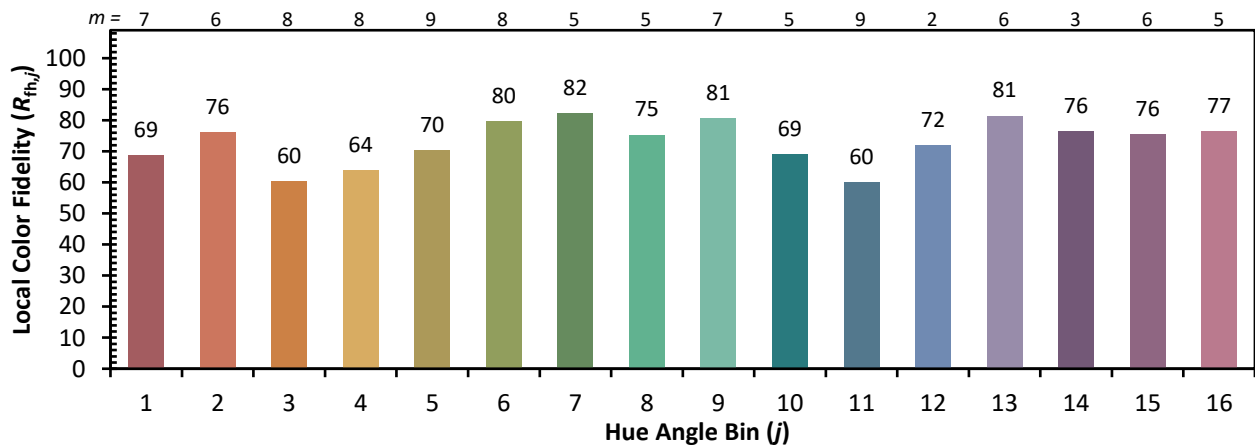
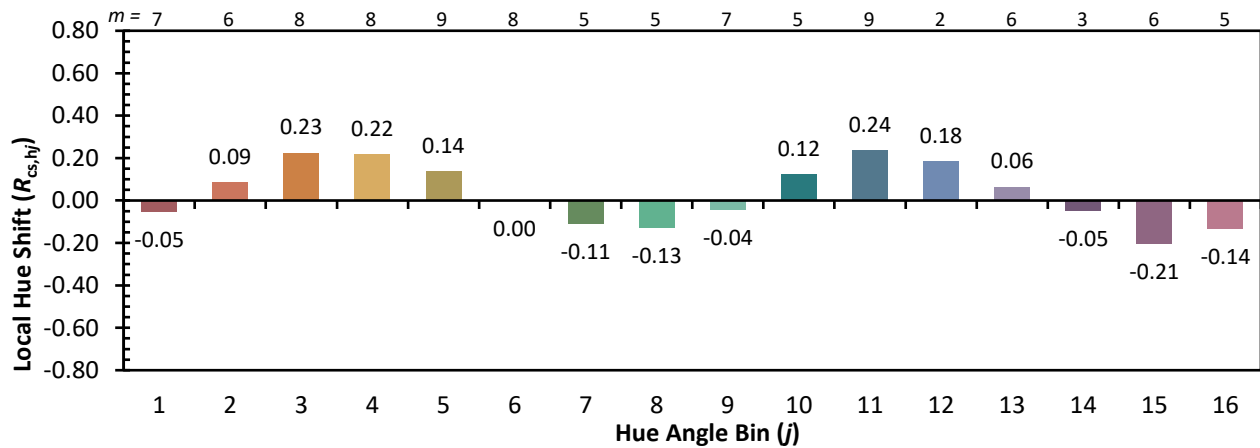
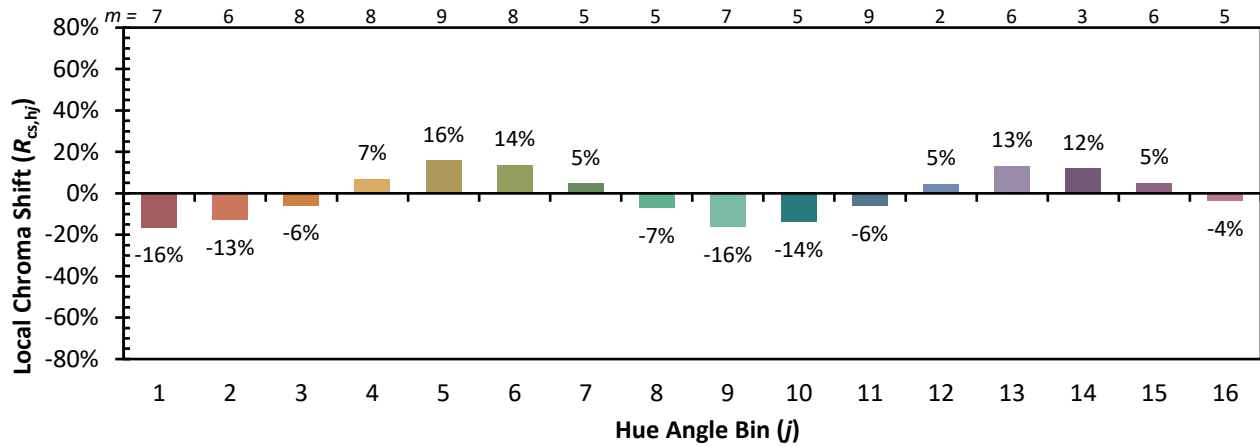
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|------------|------------|------------|------------|
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| CES02 = 59 | CES27 = 79 | CES52 = 90 | CES77 = 64 |
| CES03 = 30 | CES28 = 77 | CES53 = 77 | CES78 = 46 |
| CES04 = 69 | CES29 = 50 | CES54 = 81 | CES79 = 74 |
| CES05 = 46 | CES30 = 59 | CES55 = 80 | CES80 = 70 |
| CES06 = 50 | CES31 = 55 | CES56 = 70 | CES81 = 71 |
| CES07 = 38 | CES32 = 52 | CES57 = 68 | CES82 = 88 |
| CES08 = 38 | CES33 = 63 | CES58 = 70 | CES83 = 82 |
| CES09 = 29 | CES34 = 63 | CES59 = 88 | CES84 = 87 |
| CES10 = 72 | CES35 = 79 | CES60 = 92 | CES85 = 84 |
| CES11 = 55 | CES36 = 90 | CES61 = 88 | CES86 = 76 |
| CES12 = 61 | CES37 = 72 | CES62 = 81 | CES87 = 75 |
| CES13 = 41 | CES38 = 68 | CES63 = 75 | CES88 = 77 |
| CES14 = 74 | CES39 = 91 | CES64 = 72 | CES89 = 76 |
| CES15 = 70 | CES40 = 83 | CES65 = 65 | CES90 = 76 |
| CES16 = 46 | CES41 = 84 | CES66 = 66 | CES91 = 92 |
| CES17 = 48 | CES42 = 70 | CES67 = 64 | CES92 = 70 |
| CES18 = 55 | CES43 = 69 | CES68 = 71 | CES93 = 83 |
| CES19 = 70 | CES44 = 98 | CES69 = 80 | CES94 = 60 |
| CES20 = 64 | CES45 = 79 | CES70 = 58 | CES95 = 73 |
| CES21 = 85 | CES46 = 78 | CES71 = 55 | CES96 = 79 |
| CES22 = 77 | CES47 = 76 | CES72 = 84 | CES97 = 84 |
| CES23 = 91 | CES48 = 68 | CES73 = 47 | CES98 = 73 |
| CES24 = 90 | CES49 = 78 | CES74 = 94 | CES99 = 62 |
| CES25 = 71 | CES50 = 87 | CES75 = 51 | |



REPORT NUMBER: SP1-1908-441-9-R4

TM-30-18

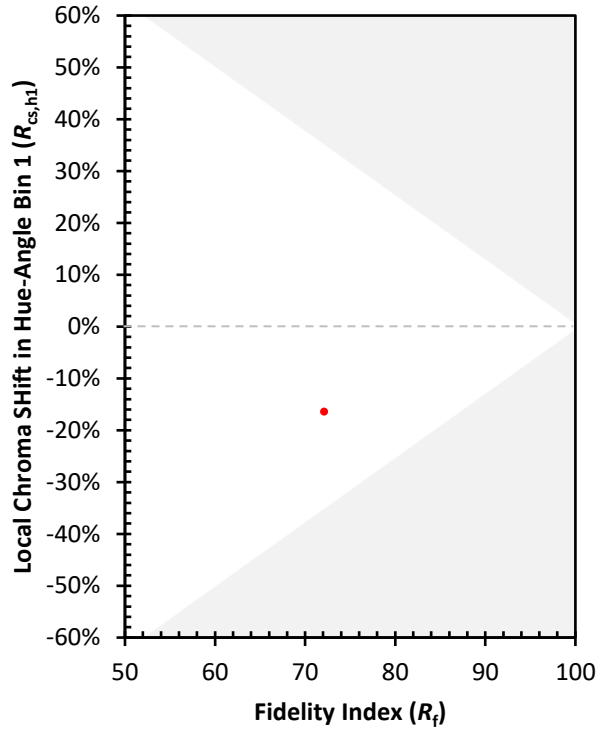
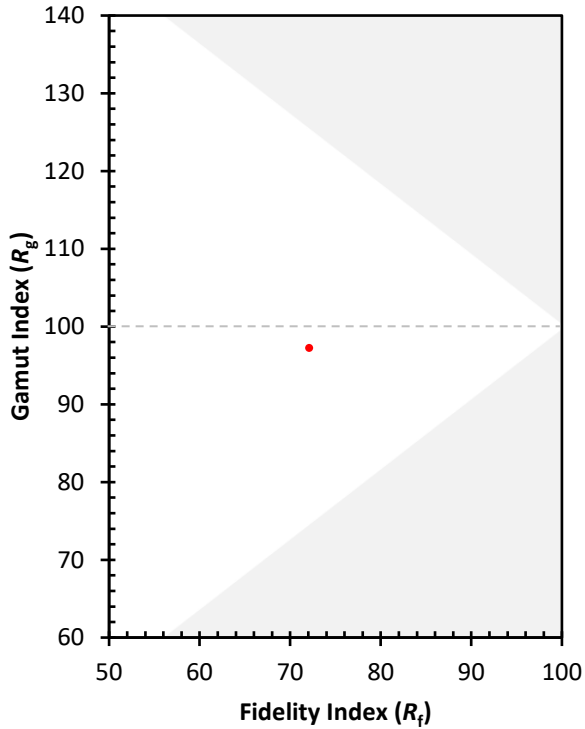
Color Rendition by Hue-Angle Bin



REPORT NUMBER: SP1-1908-441-9-R4

TM-30-18

Measure Comparisons



(END OF REPORT)