

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P641286

Luminaire Tested: GWS-SA5F-750-U-SLL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641286
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-40)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5F-750-U-SLL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25850.4 lumens
Efficiency: N/A
Efficacy: 83.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G5

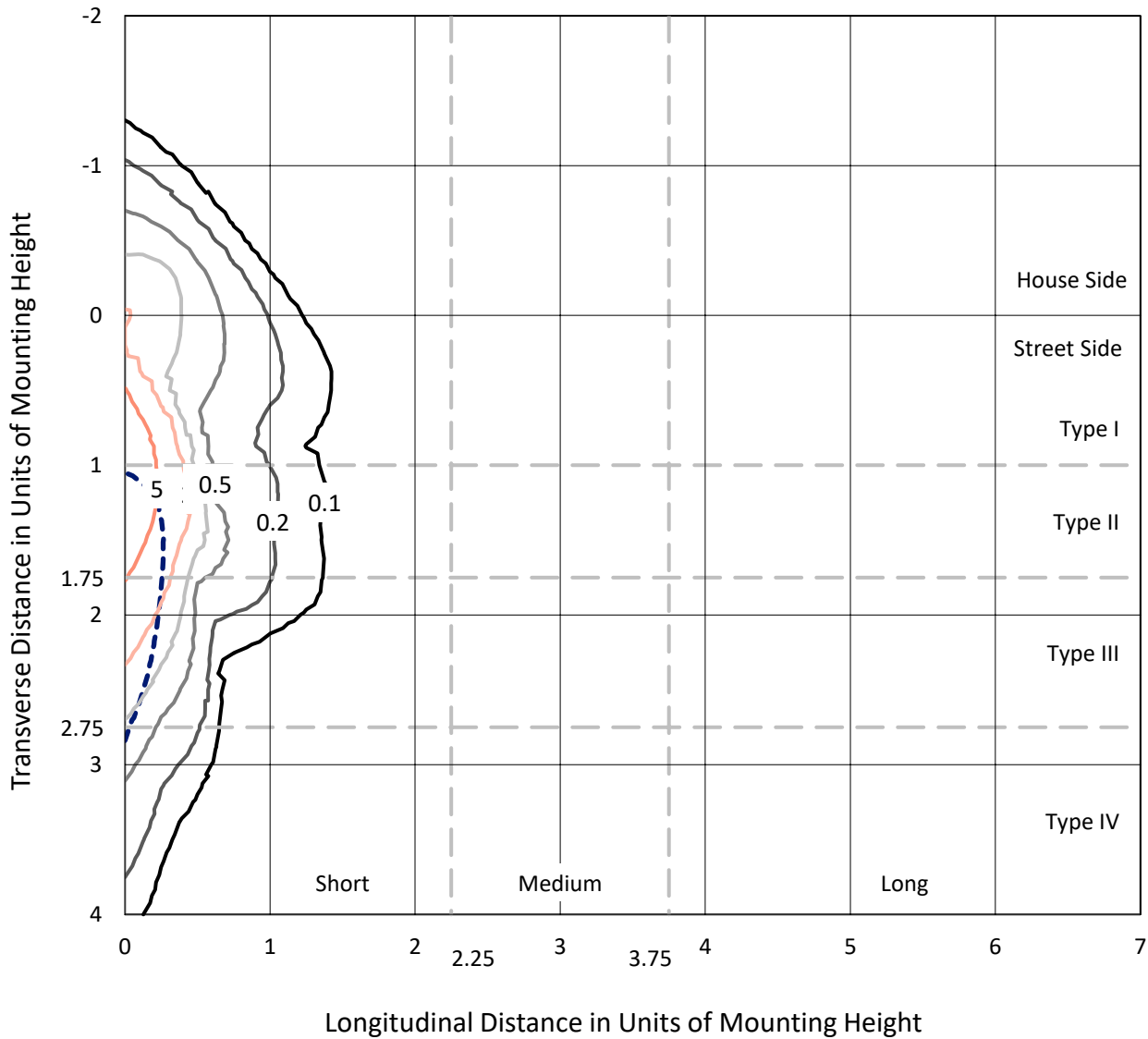
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P641286
 CATALOG NUMBER: GWS-SA5F-750-U-SLL-W-HSS

Iso-Footcandle Lines of Horizontal Illumination

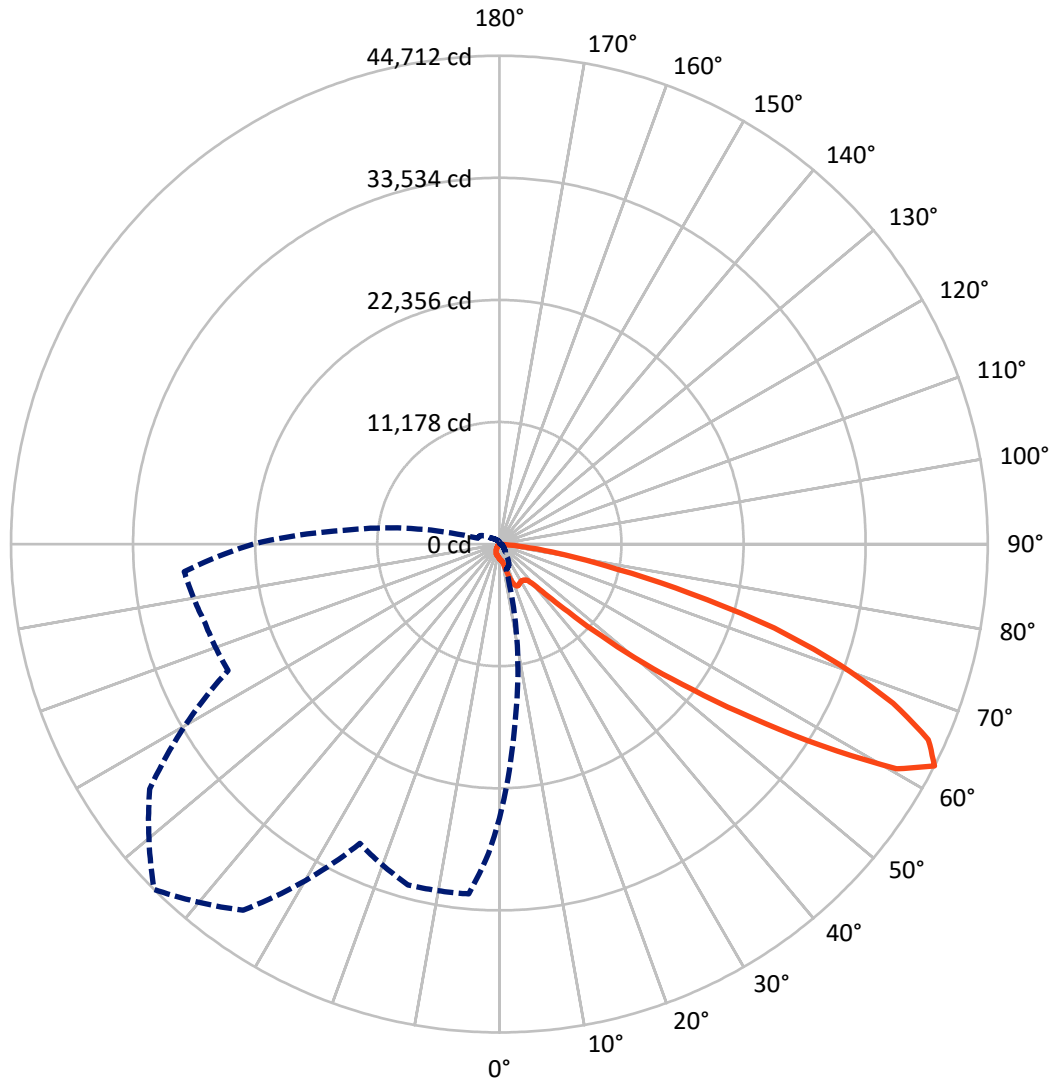
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
 Type III - Short - N/A

REPORT NUMBER: P641286
CATALOG NUMBER: GWS-SA5F-750-U-SLL-W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: P641286
 CATALOG NUMBER: GWS-SA5F-750-U-SLL-W-HSS

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3003.5 | 0.0 | 3003.5 |
| | % Fixture | 11.6 | 0.0 | 11.6 |
| Street Side | Lumens | 22846.9 | 0.0 | 22846.9 |
| | % Fixture | 88.4 | 0.0 | 88.4 |
| Total | Lumens | 25850.4 | 0.0 | 25850.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 115.8 | 0.4 |
| 10°-20° | 396.8 | 1.5 |
| 20°-30° | 896.4 | 3.5 |
| 30°-40° | 1544.3 | 6.0 |
| 40°-50° | 2913.1 | 11.3 |
| 50°-60° | 6504.2 | 25.2 |
| 60°-70° | 8699.2 | 33.7 |
| 70°-80° | 4362.4 | 16.9 |
| 80°-90° | 418.1 | 1.6 |
| 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° | 25850.4 | 100.0 |
| 0°-180° | 25850.4 | 100.0 |

Coefficient of Utilization



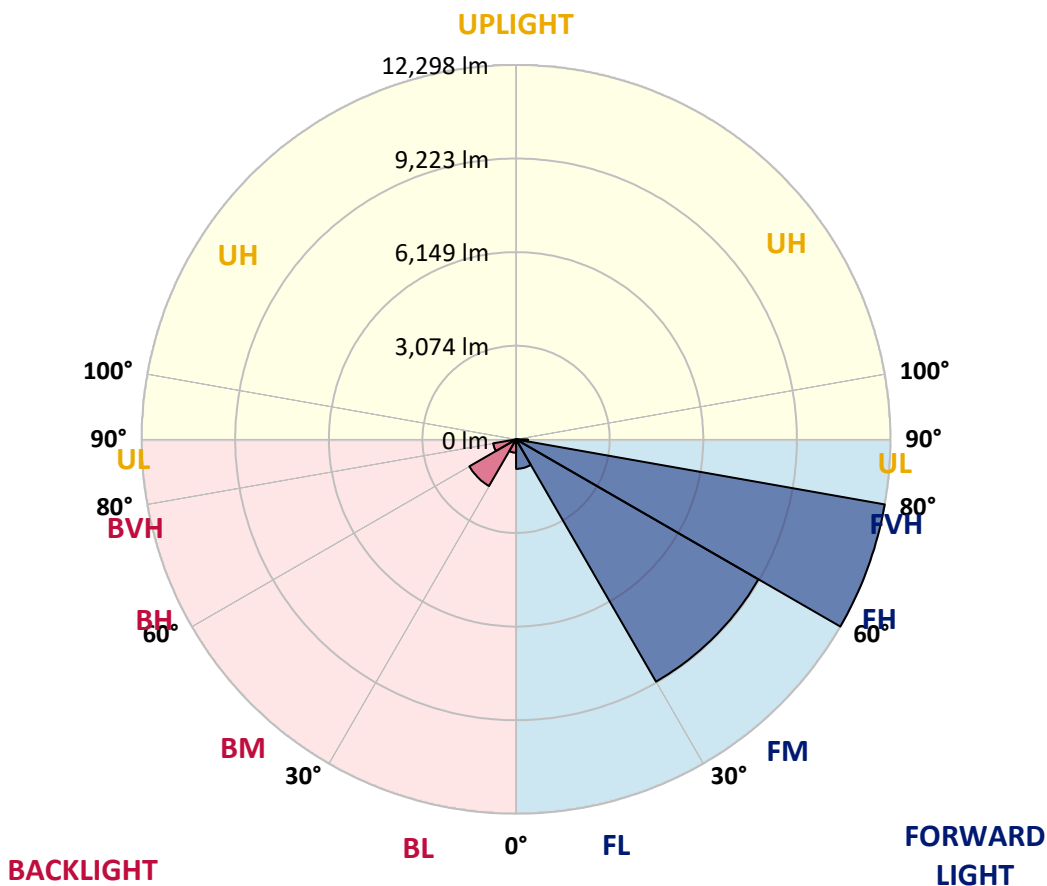
REPORT NUMBER: P641286

CATALOG NUMBER: GWS-SA5F-750-U-SLL-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 968.1 | 3.7 | | | |
| FM (30°-60°) | 9190.6 | 35.6 | | | |
| FH (60°-80°) | 12297.9 | 47.6 | | | G5 |
| FVH (80°-90°) | 390.3 | 1.5 | | | G3/500 |
| BL (0°-30°) | 440.9 | 1.7 | B1/500 | | |
| BM (30°-60°) | 1771.0 | 6.9 | B2/2500 | | |
| BH (60°-80°) | 763.8 | 3.0 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 27.8 | 0.1 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G5
 Type III Short





REPORT NUMBER: P641286

CATALOG NUMBER: GWS-SA5F-750-U-SLL-W-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 2° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1340.6 | 1340.6 | 1340.6 | 1340.6 | 1340.6 | 1340.6 | 1340.6 | 1340.6 | 1340.6 | 1340.6 | 1340.6 |
| 2.5° | 1325.3 | 1322.3 | 1316.2 | 1297.8 | 1282.5 | 1273.3 | 1254.9 | 1254.9 | 1251.9 | 1245.8 | 1233.5 |
| 5° | 1282.5 | 1270.2 | 1258.0 | 1224.3 | 1187.6 | 1166.2 | 1141.7 | 1138.6 | 1138.6 | 1132.5 | 1129.4 |
| 7.5° | 1215.1 | 1202.9 | 1187.6 | 1132.5 | 1098.8 | 1077.4 | 1056.0 | 1052.9 | 1043.7 | 1043.7 | 1043.7 |
| 10° | 1178.4 | 1160.1 | 1135.6 | 1074.3 | 1040.7 | 1022.3 | 1007.0 | 997.8 | 991.7 | 982.5 | 979.5 |
| 12.5° | 1258.0 | 1224.3 | 1172.3 | 1062.1 | 1016.2 | 991.7 | 973.3 | 967.2 | 948.9 | 936.6 | 927.4 |
| 15° | 1505.9 | 1423.3 | 1319.2 | 1089.7 | 1007.0 | 970.3 | 945.8 | 933.5 | 918.2 | 896.8 | 881.5 |
| 17.5° | 1913.0 | 1793.6 | 1619.2 | 1178.4 | 997.8 | 951.9 | 921.3 | 899.9 | 878.5 | 854.0 | 835.6 |
| 20° | 2476.2 | 2298.7 | 2090.5 | 1340.6 | 997.8 | 930.5 | 893.8 | 866.2 | 835.6 | 808.1 | 786.6 |
| 22.5° | 3192.4 | 3014.9 | 2659.9 | 1616.1 | 1010.1 | 902.9 | 860.1 | 823.4 | 786.6 | 762.1 | 737.7 |
| 25° | 3994.4 | 3743.4 | 3412.8 | 1949.7 | 1043.7 | 866.2 | 820.3 | 783.6 | 749.9 | 719.3 | 691.7 |
| 27.5° | 4888.1 | 4615.7 | 4175.0 | 2424.2 | 1117.2 | 829.5 | 777.4 | 743.8 | 713.2 | 682.6 | 645.8 |
| 30° | 5711.5 | 5549.3 | 5099.3 | 2993.5 | 1236.6 | 805.0 | 743.8 | 713.2 | 682.6 | 642.8 | 609.1 |
| 32.5° | 6700.1 | 6412.4 | 6042.1 | 3642.4 | 1395.7 | 780.5 | 716.2 | 673.4 | 648.9 | 612.2 | 575.4 |
| 35° | 7694.9 | 7450.0 | 6963.4 | 4441.2 | 1573.3 | 756.0 | 682.6 | 642.8 | 621.3 | 578.5 | 538.7 |
| 37.5° | 8720.3 | 8665.2 | 8184.6 | 5325.8 | 1747.7 | 728.5 | 642.8 | 618.3 | 596.9 | 547.9 | 502.0 |
| 40° | 9730.3 | 9629.3 | 9185.5 | 6335.9 | 1854.9 | 697.9 | 609.1 | 593.8 | 569.3 | 514.2 | 462.2 |
| 42.5° | 10697.6 | 10621.0 | 10189.5 | 7303.1 | 1839.6 | 670.3 | 575.4 | 557.1 | 538.7 | 483.6 | 419.3 |
| 45° | 11885.2 | 11759.7 | 11214.8 | 8019.3 | 1683.5 | 700.9 | 541.8 | 511.2 | 508.1 | 456.1 | 376.5 |
| 47.5° | 14107.3 | 13694.1 | 12769.7 | 8570.3 | 1527.3 | 780.5 | 505.0 | 468.3 | 489.7 | 428.5 | 333.6 |
| 50° | 17220.2 | 16733.5 | 15395.9 | 8998.8 | 1524.3 | 884.6 | 498.9 | 428.5 | 474.4 | 407.1 | 296.9 |
| 52.5° | 20348.3 | 19491.3 | 17866.0 | 9228.4 | 1637.5 | 961.1 | 554.0 | 388.7 | 456.1 | 385.7 | 269.4 |
| 55° | 23344.9 | 21566.5 | 18900.6 | 8469.3 | 1726.3 | 1043.7 | 655.0 | 367.3 | 422.4 | 361.2 | 254.0 |
| 57.5° | 26200.6 | 23234.7 | 19350.5 | 6700.1 | 2023.2 | 1077.4 | 716.2 | 376.5 | 373.4 | 330.6 | 241.8 |
| 60° | 26592.4 | 23155.1 | 18441.4 | 3896.4 | 2231.3 | 1019.3 | 691.7 | 419.3 | 327.5 | 293.8 | 220.4 |
| 62.5° | 25111.0 | 21615.5 | 16369.3 | 2430.3 | 2072.2 | 997.8 | 615.2 | 477.5 | 296.9 | 260.2 | 192.8 |
| 65° | 22861.3 | 19200.5 | 13648.2 | 1567.1 | 1570.2 | 1108.0 | 538.7 | 468.3 | 278.5 | 229.6 | 165.3 |
| 67.5° | 19344.4 | 16069.3 | 10752.7 | 1049.9 | 887.6 | 945.8 | 471.4 | 321.4 | 272.4 | 195.9 | 128.6 |
| 70° | 14119.6 | 11438.3 | 7000.1 | 700.9 | 529.5 | 756.0 | 394.8 | 229.6 | 257.1 | 162.2 | 91.8 |
| 72.5° | 10321.1 | 7685.7 | 3908.7 | 459.1 | 300.0 | 440.8 | 290.8 | 165.3 | 199.0 | 119.4 | 64.3 |
| 75° | 7428.6 | 5289.1 | 2231.3 | 293.8 | 199.0 | 241.8 | 189.8 | 113.3 | 128.6 | 94.9 | 58.2 |
| 77.5° | 3575.0 | 2577.2 | 1013.1 | 162.2 | 134.7 | 122.4 | 101.0 | 70.4 | 79.6 | 85.7 | 52.0 |
| 80° | 134.7 | 101.0 | 76.5 | 79.6 | 85.7 | 55.1 | 45.9 | 36.7 | 45.9 | 58.2 | 27.5 |
| 82.5° | 0.0 | 0.0 | 0.0 | 9.2 | 12.2 | 15.3 | 18.4 | 15.3 | 18.4 | 21.4 | 3.1 |
| 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 |



REPORT NUMBER: P641286

CATALOG NUMBER: GWS-SA5F-750-U-SLL-W-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1340.6 | 1340.6 | 1340.6 | 1340.6 | 1340.6 | 1340.6 | 1340.6 | 1340.6 | 1340.6 | 1340.6 | 1340.6 |
| 2.5° | 1242.7 | 1236.6 | 1242.7 | 1248.8 | 1254.9 | 1261.1 | 1251.9 | 1258.0 | 1264.1 | 1248.8 | 1254.9 |
| 5° | 1144.7 | 1141.7 | 1160.1 | 1169.2 | 1181.5 | 1187.6 | 1181.5 | 1181.5 | 1178.4 | 1160.1 | 1160.1 |
| 7.5° | 1059.0 | 1062.1 | 1077.4 | 1098.8 | 1114.1 | 1123.3 | 1117.2 | 1114.1 | 1105.0 | 1077.4 | 1077.4 |
| 10° | 994.8 | 994.8 | 1019.3 | 1037.6 | 1059.0 | 1068.2 | 1062.1 | 1052.9 | 1043.7 | 1016.2 | 1013.1 |
| 12.5° | 942.7 | 942.7 | 961.1 | 991.7 | 1016.2 | 1028.4 | 1025.4 | 1013.1 | 997.8 | 970.3 | 967.2 |
| 15° | 893.8 | 890.7 | 918.2 | 945.8 | 979.5 | 994.8 | 988.6 | 979.5 | 951.9 | 927.4 | 921.3 |
| 17.5° | 844.8 | 841.7 | 866.2 | 902.9 | 939.7 | 961.1 | 958.0 | 936.6 | 912.1 | 881.5 | 875.4 |
| 20° | 795.8 | 789.7 | 820.3 | 857.0 | 893.8 | 915.2 | 909.1 | 890.7 | 860.1 | 829.5 | 823.4 |
| 22.5° | 746.8 | 743.8 | 765.2 | 795.8 | 829.5 | 847.8 | 844.8 | 829.5 | 798.9 | 771.3 | 771.3 |
| 25° | 691.7 | 691.7 | 707.0 | 728.5 | 753.0 | 762.1 | 765.2 | 759.1 | 740.7 | 725.4 | 725.4 |
| 27.5° | 645.8 | 636.7 | 642.8 | 648.9 | 661.1 | 676.4 | 676.4 | 682.6 | 685.6 | 679.5 | 682.6 |
| 30° | 609.1 | 593.8 | 584.6 | 572.4 | 566.3 | 572.4 | 578.5 | 599.9 | 621.3 | 633.6 | 639.7 |
| 32.5° | 566.3 | 547.9 | 523.4 | 489.7 | 468.3 | 462.2 | 480.5 | 520.3 | 560.1 | 587.7 | 603.0 |
| 35° | 523.4 | 498.9 | 453.0 | 404.0 | 376.5 | 367.3 | 388.7 | 434.6 | 492.8 | 541.8 | 563.2 |
| 37.5° | 480.5 | 446.9 | 382.6 | 324.4 | 293.8 | 287.7 | 309.1 | 358.1 | 425.5 | 492.8 | 520.3 |
| 40° | 431.6 | 391.8 | 315.3 | 254.0 | 229.6 | 223.4 | 241.8 | 290.8 | 361.2 | 437.7 | 480.5 |
| 42.5° | 382.6 | 333.6 | 254.0 | 202.0 | 177.5 | 177.5 | 202.0 | 238.7 | 303.0 | 385.7 | 437.7 |
| 45° | 333.6 | 281.6 | 208.1 | 162.2 | 146.9 | 150.0 | 165.3 | 202.0 | 254.0 | 339.8 | 388.7 |
| 47.5° | 287.7 | 241.8 | 171.4 | 134.7 | 122.4 | 125.5 | 143.9 | 174.5 | 217.3 | 293.8 | 345.9 |
| 50° | 247.9 | 205.1 | 150.0 | 113.3 | 104.1 | 110.2 | 128.6 | 156.1 | 192.8 | 260.2 | 303.0 |
| 52.5° | 223.4 | 183.6 | 137.7 | 97.9 | 91.8 | 97.9 | 116.3 | 140.8 | 174.5 | 229.6 | 272.4 |
| 55° | 211.2 | 180.6 | 137.7 | 88.8 | 79.6 | 85.7 | 104.1 | 128.6 | 156.1 | 208.1 | 244.9 |
| 57.5° | 208.1 | 186.7 | 146.9 | 79.6 | 67.3 | 73.5 | 91.8 | 116.3 | 143.9 | 189.8 | 220.4 |
| 60° | 195.9 | 177.5 | 143.9 | 64.3 | 52.0 | 61.2 | 76.5 | 101.0 | 131.6 | 177.5 | 205.1 |
| 62.5° | 171.4 | 156.1 | 125.5 | 52.0 | 39.8 | 45.9 | 64.3 | 88.8 | 119.4 | 162.2 | 192.8 |
| 65° | 140.8 | 125.5 | 97.9 | 33.7 | 24.5 | 30.6 | 49.0 | 76.5 | 104.1 | 146.9 | 174.5 |
| 67.5° | 104.1 | 88.8 | 67.3 | 21.4 | 12.2 | 21.4 | 39.8 | 64.3 | 94.9 | 131.6 | 159.2 |
| 70° | 64.3 | 52.0 | 36.7 | 12.2 | 9.2 | 18.4 | 36.7 | 61.2 | 85.7 | 122.4 | 150.0 |
| 72.5° | 36.7 | 24.5 | 15.3 | 6.1 | 9.2 | 18.4 | 36.7 | 61.2 | 82.6 | 116.3 | 140.8 |
| 75° | 27.5 | 15.3 | 6.1 | 3.1 | 6.1 | 15.3 | 33.7 | 55.1 | 79.6 | 110.2 | 134.7 |
| 77.5° | 18.4 | 9.2 | 3.1 | 0.0 | 3.1 | 12.2 | 30.6 | 52.0 | 73.5 | 104.1 | 128.6 |
| 80° | 3.1 | 0.0 | 0.0 | 0.0 | 0.0 | 9.2 | 27.5 | 45.9 | 67.3 | 91.8 | 113.3 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.1 | 21.4 | 39.8 | 58.2 | 76.5 | 91.8 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 12.2 | 30.6 | 45.9 | 58.2 | 64.3 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 15.3 | 30.6 | 36.7 | 42.9 |
| 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: P641286

CATALOG NUMBER: GWS-SA5F-750-U-SLL-W-HSS

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0° | 1340.6 | 1340.6 | 1340.6 | 1340.6 | 1340.6 | 1340.6 | 1340.6 | 1340.6 | 1340.6 | 1340.6 | 1340.6 |
| 2.5° | 1251.9 | 1270.2 | 1270.2 | 1282.5 | 1297.8 | 1325.3 | 1340.6 | 1362.1 | 1377.4 | 1392.7 | 1398.8 |
| 5° | 1157.0 | 1160.1 | 1163.1 | 1169.2 | 1187.6 | 1218.2 | 1245.8 | 1279.4 | 1319.2 | 1349.8 | 1368.2 |
| 7.5° | 1077.4 | 1077.4 | 1077.4 | 1086.6 | 1105.0 | 1126.4 | 1153.9 | 1199.8 | 1245.8 | 1282.5 | 1313.1 |
| 10° | 1010.1 | 1019.3 | 1022.3 | 1037.6 | 1059.0 | 1086.6 | 1117.2 | 1157.0 | 1209.0 | 1258.0 | 1313.1 |
| 12.5° | 967.2 | 976.4 | 991.7 | 1007.0 | 1028.4 | 1059.0 | 1092.7 | 1144.7 | 1251.9 | 1352.9 | 1469.2 |
| 15° | 927.4 | 939.7 | 958.0 | 979.5 | 1003.9 | 1037.6 | 1074.3 | 1181.5 | 1432.5 | 1622.2 | 1805.9 |
| 17.5° | 884.6 | 902.9 | 927.4 | 948.9 | 979.5 | 1016.2 | 1062.1 | 1270.2 | 1763.0 | 2078.3 | 2390.5 |
| 20° | 829.5 | 854.0 | 881.5 | 915.2 | 951.9 | 994.8 | 1062.1 | 1453.9 | 2240.5 | 2693.5 | 3106.7 |
| 22.5° | 777.4 | 801.9 | 835.6 | 878.5 | 921.3 | 964.2 | 1077.4 | 1732.4 | 2855.7 | 3428.1 | 3951.5 |
| 25° | 734.6 | 765.2 | 798.9 | 835.6 | 884.6 | 933.5 | 1114.1 | 2124.2 | 3596.5 | 4334.1 | 4704.5 |
| 27.5° | 694.8 | 731.5 | 765.2 | 795.8 | 838.7 | 893.8 | 1196.8 | 2647.6 | 4471.9 | 5221.8 | 5512.5 |
| 30° | 655.0 | 697.9 | 731.5 | 762.1 | 805.0 | 863.2 | 1322.3 | 3314.9 | 5445.2 | 6173.7 | 6204.3 |
| 32.5° | 621.3 | 661.1 | 700.9 | 731.5 | 771.3 | 838.7 | 1496.7 | 4095.4 | 6443.0 | 7147.0 | 6859.3 |
| 35° | 584.6 | 630.5 | 667.3 | 700.9 | 743.8 | 817.2 | 1698.8 | 4937.1 | 7450.0 | 8040.8 | 7511.3 |
| 37.5° | 547.9 | 599.9 | 645.8 | 670.3 | 713.2 | 795.8 | 1845.7 | 5815.6 | 8478.5 | 8913.1 | 8083.6 |
| 40° | 514.2 | 572.4 | 624.4 | 648.9 | 670.3 | 768.3 | 1867.1 | 6715.4 | 9522.2 | 9773.2 | 8622.3 |
| 42.5° | 477.5 | 541.8 | 587.7 | 621.3 | 639.7 | 749.9 | 1738.5 | 7474.5 | 10397.6 | 10630.2 | 9326.3 |
| 45° | 437.7 | 514.2 | 550.9 | 575.4 | 612.2 | 762.1 | 1573.3 | 8062.2 | 11398.5 | 11799.5 | 10486.4 |
| 47.5° | 397.9 | 483.6 | 514.2 | 532.6 | 581.6 | 835.6 | 1512.0 | 8454.0 | 13048.3 | 13880.8 | 12442.2 |
| 50° | 361.2 | 456.1 | 489.7 | 486.7 | 575.4 | 930.5 | 1579.4 | 8750.9 | 15527.5 | 16507.0 | 15123.5 |
| 52.5° | 321.4 | 425.5 | 465.2 | 453.0 | 621.3 | 1003.9 | 1714.1 | 8986.6 | 17434.4 | 19586.2 | 18726.1 |
| 55° | 287.7 | 391.8 | 428.5 | 425.5 | 707.0 | 1059.0 | 1818.1 | 7743.9 | 18224.1 | 22448.0 | 22784.7 |
| 57.5° | 263.2 | 355.1 | 385.7 | 437.7 | 762.1 | 1059.0 | 2102.8 | 5497.2 | 18239.4 | 24553.9 | 28171.8 |
| 60° | 241.8 | 321.4 | 342.8 | 480.5 | 740.7 | 1003.9 | 2081.4 | 3366.9 | 16810.0 | 24410.0 | 31036.7 |
| 62.5° | 223.4 | 290.8 | 318.3 | 492.8 | 655.0 | 994.8 | 1879.3 | 2087.5 | 14336.9 | 22552.1 | 28958.4 |
| 65° | 208.1 | 266.3 | 306.1 | 453.0 | 593.8 | 1065.2 | 1267.2 | 1499.8 | 11628.1 | 20434.0 | 26574.0 |
| 67.5° | 192.8 | 244.9 | 324.4 | 370.4 | 538.7 | 951.9 | 915.2 | 1065.2 | 9127.4 | 18110.9 | 24385.5 |
| 70° | 180.6 | 232.6 | 342.8 | 303.0 | 471.4 | 743.8 | 648.9 | 808.1 | 6987.9 | 15111.3 | 21303.3 |
| 72.5° | 171.4 | 217.3 | 287.7 | 238.7 | 382.6 | 575.4 | 453.0 | 587.7 | 4566.7 | 11796.4 | 17367.1 |
| 75° | 162.2 | 199.0 | 211.2 | 192.8 | 284.7 | 376.5 | 342.8 | 394.8 | 2721.1 | 8622.3 | 13176.8 |
| 77.5° | 159.2 | 186.7 | 171.4 | 156.1 | 192.8 | 223.4 | 260.2 | 266.3 | 1328.4 | 4312.7 | 6905.2 |
| 80° | 140.8 | 168.3 | 146.9 | 128.6 | 131.6 | 146.9 | 192.8 | 177.5 | 303.0 | 1095.8 | 1842.6 |
| 82.5° | 110.2 | 131.6 | 122.4 | 107.1 | 107.1 | 107.1 | 128.6 | 119.4 | 97.9 | 492.8 | 832.5 |
| 85° | 76.5 | 91.8 | 91.8 | 85.7 | 82.6 | 82.6 | 79.6 | 76.5 | 27.5 | 30.6 | 45.9 |
| 87.5° | 52.0 | 64.3 | 67.3 | 64.3 | 55.1 | 49.0 | 42.9 | 36.7 | 12.2 | 0.0 | 6.1 |
| 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: P641286

CATALOG NUMBER: GWS-SA5F-750-U-SLL-W-HSS

CANDELA DISTRIBUTION (continued):

| | 285° | 295° | 305° | 315° | 325° | 335° | 345° | 355° | 358° | 360° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 1340.6 | 1340.6 | 1340.6 | 1340.6 | 1340.6 | 1340.6 | 1340.6 | 1340.6 | 1340.6 | 1340.6 |
| 2.5° | 1420.2 | 1429.4 | 1429.4 | 1417.2 | 1408.0 | 1383.5 | 1359.0 | 1334.5 | 1328.4 | 1325.3 |
| 5° | 1420.2 | 1457.0 | 1475.3 | 1472.3 | 1450.8 | 1411.0 | 1359.0 | 1303.9 | 1288.6 | 1282.5 |
| 7.5° | 1398.8 | 1469.2 | 1524.3 | 1533.5 | 1493.7 | 1423.3 | 1328.4 | 1245.8 | 1224.3 | 1215.1 |
| 10° | 1447.8 | 1585.5 | 1695.7 | 1711.0 | 1665.1 | 1527.3 | 1374.3 | 1233.5 | 1199.8 | 1178.4 |
| 12.5° | 1711.0 | 1937.5 | 2072.2 | 2136.5 | 2047.7 | 1873.2 | 1619.2 | 1368.2 | 1291.7 | 1258.0 |
| 15° | 2243.6 | 2565.0 | 2822.1 | 2822.1 | 2739.4 | 2430.3 | 2108.9 | 1701.8 | 1597.7 | 1505.9 |
| 17.5° | 2926.1 | 3330.2 | 3556.7 | 3532.2 | 3406.7 | 3189.4 | 2803.7 | 2219.1 | 2007.9 | 1913.0 |
| 20° | 3703.6 | 3945.4 | 3997.4 | 3982.1 | 3927.0 | 3801.5 | 3535.2 | 2907.8 | 2623.1 | 2476.2 |
| 22.5° | 4377.0 | 4312.7 | 4236.2 | 4175.0 | 4159.7 | 4196.4 | 4159.7 | 3676.0 | 3452.6 | 3192.4 |
| 25° | 4833.0 | 4468.8 | 4239.2 | 4129.0 | 4181.1 | 4392.3 | 4621.8 | 4441.2 | 4263.7 | 3994.4 |
| 27.5° | 5081.0 | 4450.4 | 4119.9 | 4006.6 | 4095.4 | 4395.3 | 4894.3 | 5200.3 | 5016.7 | 4888.1 |
| 30° | 5215.6 | 4435.1 | 4043.3 | 3933.2 | 4067.8 | 4444.3 | 5084.0 | 5910.4 | 5916.6 | 5711.5 |
| 32.5° | 5408.5 | 4533.1 | 4058.6 | 3957.6 | 4138.2 | 4591.2 | 5322.8 | 6632.8 | 6810.3 | 6700.1 |
| 35° | 5625.8 | 4683.1 | 4129.0 | 4037.2 | 4260.7 | 4787.1 | 5589.1 | 7361.3 | 7731.6 | 7694.9 |
| 37.5° | 5830.9 | 4851.4 | 4294.3 | 4205.6 | 4447.4 | 4955.5 | 5846.2 | 8077.5 | 8591.7 | 8720.3 |
| 40° | 6045.1 | 5087.1 | 4802.4 | 4888.1 | 5022.8 | 5221.8 | 6075.7 | 8698.8 | 9537.5 | 9730.3 |
| 42.5° | 6550.2 | 5904.3 | 6339.0 | 6501.2 | 6519.5 | 6109.4 | 6577.7 | 9494.7 | 10468.0 | 10697.6 |
| 45° | 7676.5 | 7358.2 | 8604.0 | 8833.5 | 8714.2 | 7471.5 | 7786.7 | 10642.5 | 11768.9 | 11885.2 |
| 47.5° | 9099.8 | 9246.7 | 11704.6 | 12497.3 | 11781.1 | 9078.4 | 9252.9 | 13057.5 | 14150.2 | 14107.3 |
| 50° | 10758.8 | 11453.6 | 15224.5 | 17094.7 | 15380.6 | 11165.9 | 10942.4 | 16026.5 | 17351.8 | 17220.2 |
| 52.5° | 12720.8 | 14018.6 | 19454.6 | 22111.4 | 20489.1 | 13513.5 | 13421.7 | 19959.6 | 20767.7 | 20348.3 |
| 55° | 15190.8 | 16494.8 | 24321.3 | 28034.0 | 25726.2 | 16378.4 | 16693.7 | 24520.2 | 24676.3 | 23344.9 |
| 57.5° | 18876.1 | 19723.9 | 30057.2 | 34826.0 | 31192.8 | 20271.8 | 22558.2 | 30589.8 | 28722.7 | 26200.6 |
| 60° | 25567.0 | 23877.5 | 35600.4 | 41774.1 | 37008.4 | 25747.6 | 30292.9 | 34186.3 | 30069.5 | 26592.4 |
| 62.5° | 27896.3 | 27403.5 | 39071.4 | 44712.4 | 40920.1 | 30244.0 | 32303.9 | 32147.8 | 28324.8 | 25111.0 |
| 65° | 24367.2 | 26525.1 | 38450.0 | 43160.6 | 40418.1 | 29503.2 | 28989.0 | 29898.1 | 26359.8 | 22861.3 |
| 67.5° | 22509.3 | 24462.1 | 36096.2 | 38878.5 | 37635.8 | 26990.3 | 25839.4 | 25591.5 | 22129.7 | 19344.4 |
| 70° | 20636.0 | 22570.5 | 32683.4 | 33029.3 | 32450.8 | 22894.9 | 21382.9 | 19720.9 | 16540.7 | 14119.6 |
| 72.5° | 18383.3 | 19448.4 | 27948.3 | 26307.7 | 25652.7 | 17982.3 | 17664.0 | 14851.1 | 12399.4 | 10321.1 |
| 75° | 16032.6 | 15723.4 | 21790.0 | 18055.8 | 18545.5 | 13991.0 | 14918.4 | 10905.7 | 9084.5 | 7428.6 |
| 77.5° | 11661.7 | 11432.2 | 14594.0 | 10966.9 | 12145.3 | 9164.1 | 8233.6 | 4352.5 | 4144.3 | 3575.0 |
| 80° | 6507.3 | 7844.9 | 7881.6 | 6146.1 | 7667.4 | 5974.7 | 2059.9 | 143.9 | 91.8 | 134.7 |
| 82.5° | 3024.1 | 3373.0 | 4272.9 | 2849.6 | 4373.9 | 2959.8 | 425.5 | 0.0 | 0.0 | 0.0 |
| 85° | 979.5 | 1432.5 | 1199.8 | 419.3 | 1059.0 | 1000.9 | 70.4 | 0.0 | 0.0 | 0.0 |
| 87.5° | 58.2 | 119.4 | 30.6 | 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 |

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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

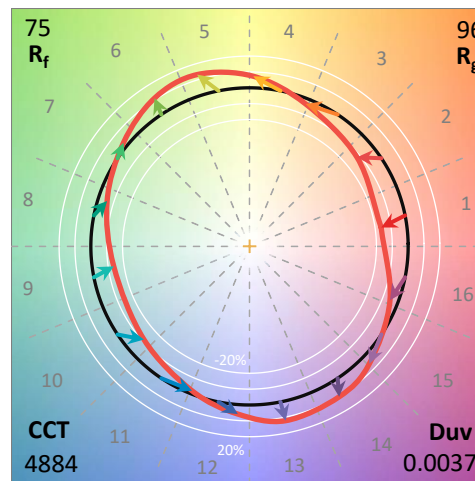
Test Method: LM-79-2008
 Report Number: SP1-1908-441-4-R4
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 10/28/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: McGRAW-EDISON
 Catalog Number: **SA1C-750-U-5WQ**
 Description: McGRAW 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
 CIE u': 0.2101
 CIE v': 0.4904
 Duv: 0.0037
 CIE x: 0.3493
 CIE y: 0.3624
 CIE z: 0.2884
 Peak Wavelength (nm): 444
 Dominant Wavelength (nm): 571
 Purity: 13.7
 Rf: 74.9
 Rg: 96.3

| | | | |
|-----------|------|------|-------|
| CRI (Ra): | 73.5 | | |
| R1: | 70.5 | R9: | -28.4 |
| R2: | 77.7 | R10: | 48.6 |
| R3: | 84.6 | R11: | 73.2 |
| R4: | 74.7 | R12: | 50.7 |
| R5: | 71.9 | R13: | 71.2 |
| R6: | 70.7 | R14: | 91.4 |
| R7: | 81.2 | | |
| R8: | 56.9 | | |



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 (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

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 ($R_{f,i}$)

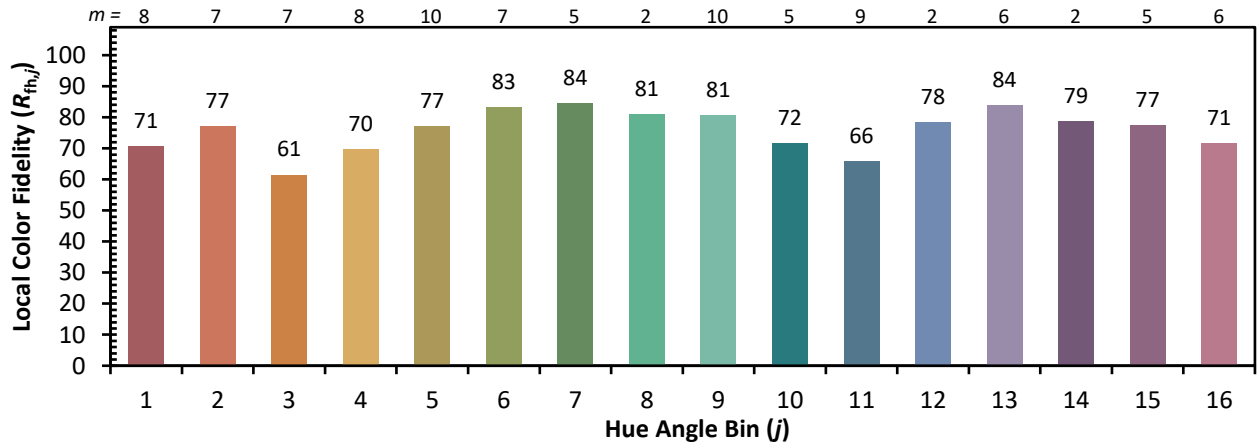
| | | | |
|------------|------------|------------|------------|
| CES01 = 85 | CES26 = 61 | CES51 = 90 | CES76 = 52 |
| CES02 = 60 | CES27 = 84 | CES52 = 91 | CES77 = 71 |
| CES03 = 30 | CES28 = 81 | CES53 = 79 | CES78 = 54 |
| CES04 = 69 | CES29 = 58 | CES54 = 83 | CES79 = 80 |
| CES05 = 46 | CES30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



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

TM-30-18

Color Rendition by Hue-Angle Bin



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

TM-30-18

Measure Comparisons



(END OF REPORT)