

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: P631390

Luminaire Tested: GWS-SA1F-750-U-SLR-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631390
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-44)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1F-750-U-SLR-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: (16) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5348.3 lumens
Efficiency: N/A
Efficacy: 79.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

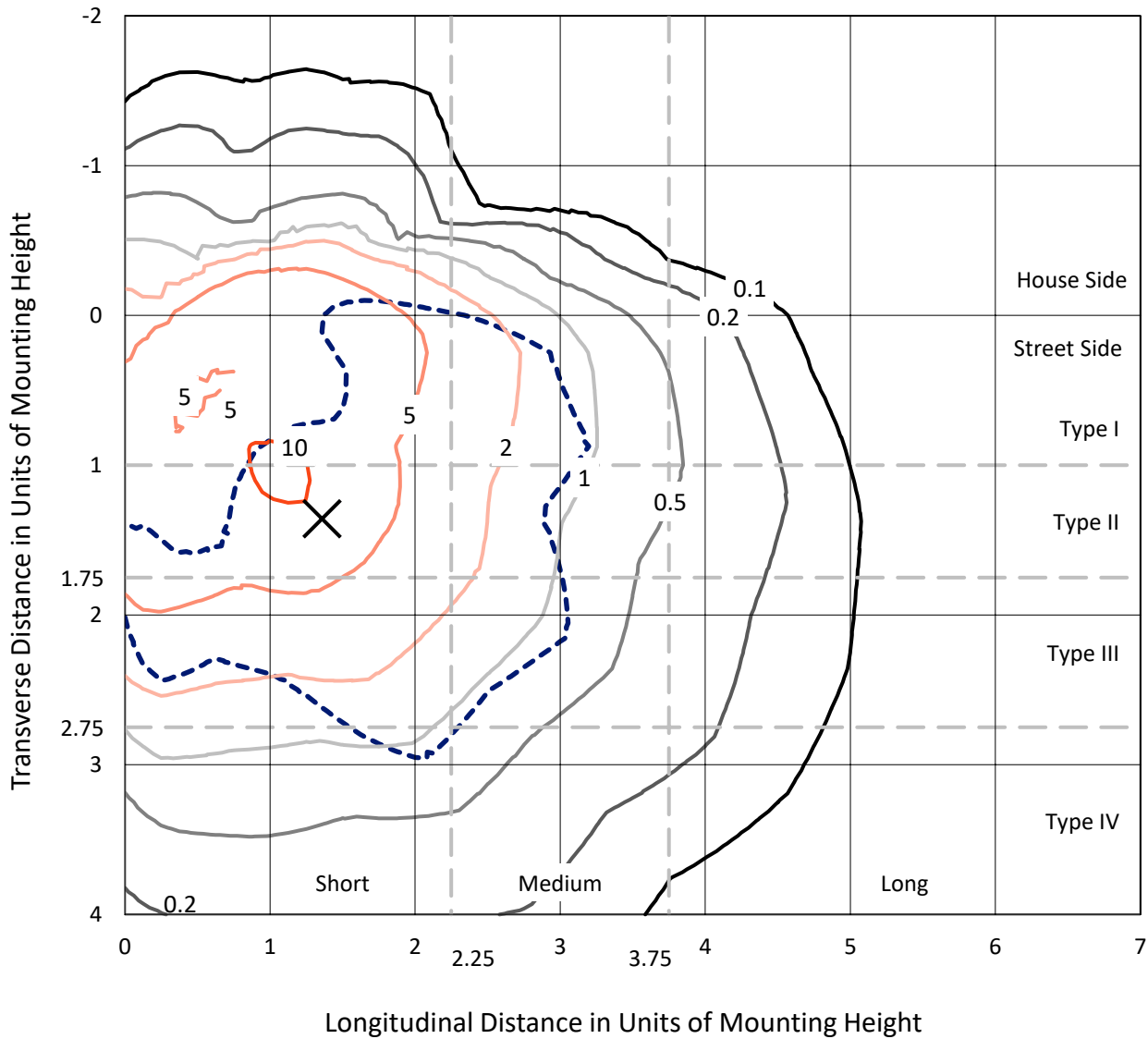
Input Watts (W): 67.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P631390
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Iso-Footcandle Lines of Horizontal Illumination

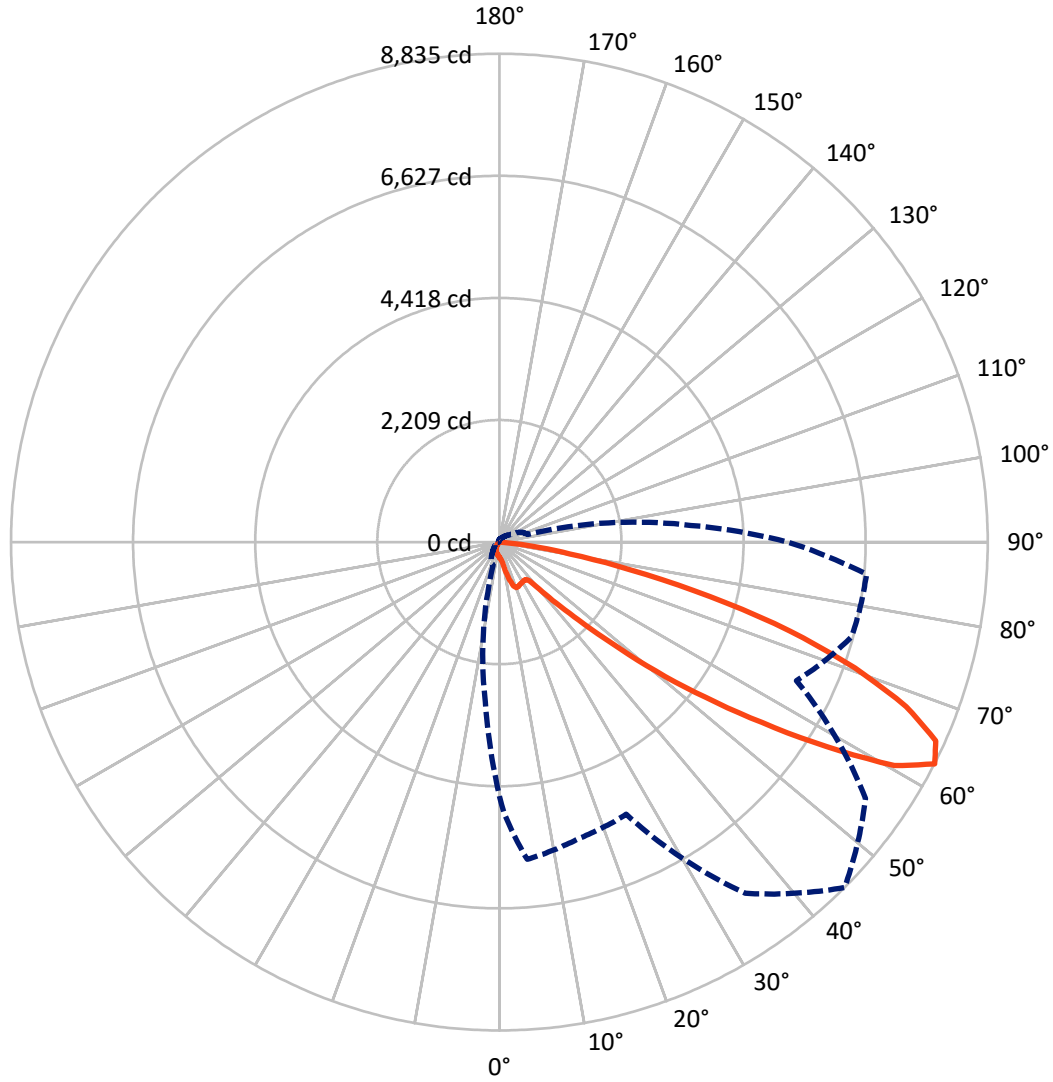
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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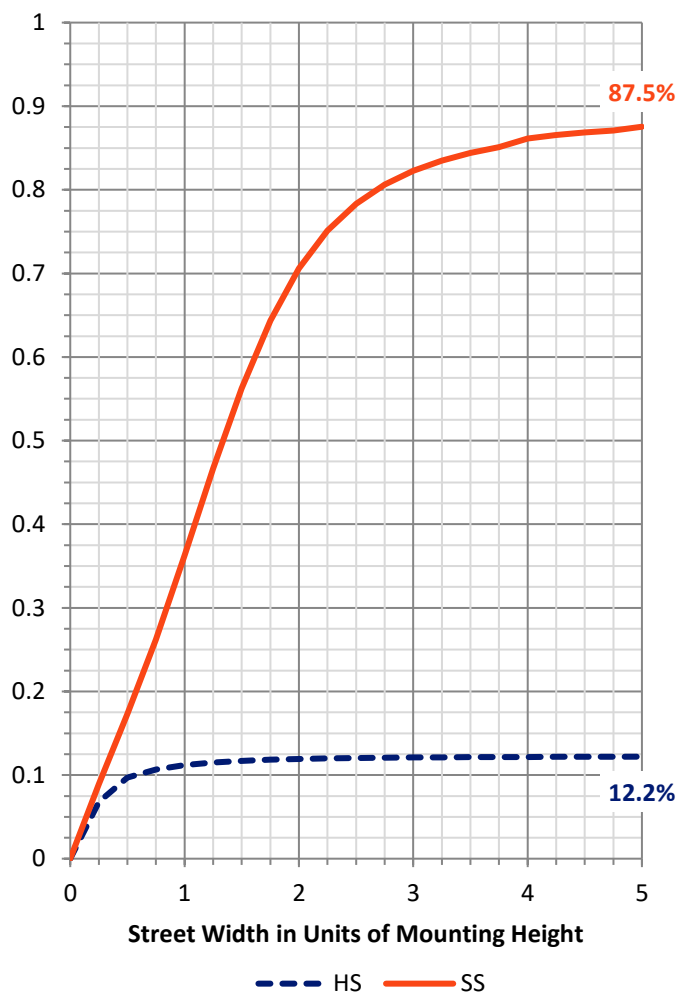
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 660.0 | 0.0 | 660.0 |
| | % Fixture | 12.3 | 0.0 | 12.3 |
| Street Side | Lumens | 4688.3 | 0.0 | 4688.3 |
| | % Fixture | 87.7 | 0.0 | 87.7 |
| Total | Lumens | 5348.3 | 0.0 | 5348.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 24.7 | 0.5 |
| 10°-20° | 93.2 | 1.7 |
| 20°-30° | 202.7 | 3.8 |
| 30°-40° | 332.7 | 6.2 |
| 40°-50° | 611.6 | 11.4 |
| 50°-60° | 1313.5 | 24.6 |
| 60°-70° | 1764.2 | 33.0 |
| 70°-80° | 918.6 | 17.2 |
| 80°-90° | 87.1 | 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° | 5348.3 | 100.0 |
| 0°-180° | 5348.3 | 100.0 |

Coefficient of Utilization



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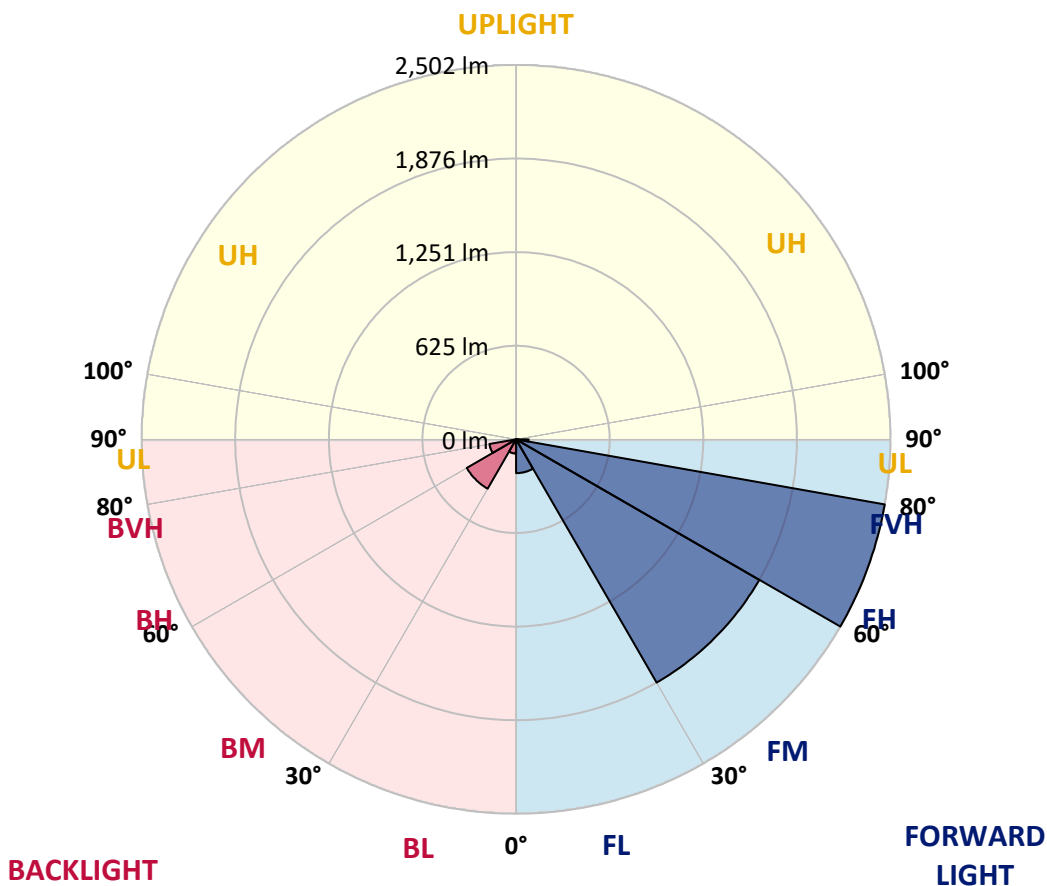
CATALOG NUMBER: GWS-SA1F-750-U-SLR-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 225.9 | 4.2 | | | |
| FM (30°-60°) | 1877.2 | 35.1 | | | |
| FH (60°-80°) | 2502.0 | 46.8 | | | G2/5000 |
| FVH (80°-90°) | 83.2 | 1.6 | | | G1/100 |
| BL (0°-30°) | 94.7 | 1.8 | B0/110 | | |
| BM (30°-60°) | 380.6 | 7.1 | B1/1000 | | |
| BH (60°-80°) | 180.8 | 3.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 3.9 | 0.1 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 278.0 | 278.0 | 278.0 | 278.0 | 278.0 | 278.0 | 278.0 | 278.0 | 278.0 | 278.0 | 278.0 |
| 2.5° | 283.6 | 284.8 | 286.0 | 290.4 | 293.4 | 295.9 | 296.5 | 294.7 | 290.4 | 286.0 | 279.9 |
| 5° | 274.9 | 276.1 | 280.5 | 292.2 | 303.9 | 313.2 | 316.3 | 314.4 | 303.9 | 290.4 | 276.1 |
| 7.5° | 274.3 | 276.8 | 287.3 | 312.0 | 337.3 | 356.5 | 361.4 | 357.1 | 337.3 | 310.1 | 281.1 |
| 10° | 296.5 | 300.9 | 316.3 | 360.8 | 407.1 | 441.1 | 454.7 | 436.2 | 404.6 | 355.2 | 307.7 |
| 12.5° | 354.6 | 362.0 | 391.7 | 456.5 | 528.2 | 573.3 | 591.8 | 569.0 | 519.6 | 447.9 | 372.5 |
| 15° | 446.0 | 457.2 | 501.6 | 598.6 | 683.3 | 723.4 | 729.6 | 716.6 | 659.2 | 580.1 | 478.8 |
| 17.5° | 575.2 | 591.2 | 660.4 | 759.2 | 820.4 | 834.6 | 832.8 | 819.2 | 777.2 | 722.8 | 627.0 |
| 20° | 729.6 | 748.7 | 816.7 | 898.2 | 904.4 | 887.7 | 878.5 | 870.4 | 856.2 | 847.0 | 772.2 |
| 22.5° | 885.3 | 908.7 | 979.8 | 1000.2 | 944.6 | 896.4 | 873.5 | 879.7 | 900.7 | 946.4 | 916.2 |
| 25° | 1040.3 | 1062.6 | 1129.3 | 1074.3 | 963.1 | 882.8 | 853.8 | 868.6 | 918.6 | 1017.5 | 1056.4 |
| 27.5° | 1221.3 | 1238.0 | 1277.6 | 1125.0 | 966.2 | 871.7 | 843.3 | 866.1 | 927.3 | 1062.0 | 1210.2 |
| 30° | 1409.8 | 1419.7 | 1400.5 | 1138.6 | 955.7 | 855.0 | 832.8 | 866.1 | 942.1 | 1091.6 | 1325.7 |
| 32.5° | 1548.1 | 1550.0 | 1487.6 | 1139.8 | 950.1 | 841.4 | 822.9 | 862.4 | 956.3 | 1116.3 | 1437.6 |
| 35° | 1690.9 | 1681.6 | 1571.0 | 1158.3 | 965.0 | 846.4 | 830.3 | 872.9 | 978.6 | 1145.4 | 1535.8 |
| 37.5° | 1835.4 | 1818.7 | 1664.3 | 1188.6 | 1003.3 | 900.1 | 890.2 | 926.7 | 1014.4 | 1185.5 | 1643.9 |
| 40° | 1983.7 | 1960.8 | 1761.3 | 1234.3 | 1088.5 | 1083.0 | 1116.9 | 1112.6 | 1112.6 | 1236.8 | 1755.1 |
| 42.5° | 2164.7 | 2138.1 | 1904.6 | 1363.4 | 1287.4 | 1411.6 | 1504.3 | 1446.8 | 1340.6 | 1354.8 | 1899.7 |
| 45° | 2403.8 | 2380.9 | 2153.0 | 1610.5 | 1599.4 | 1884.8 | 2009.6 | 1896.0 | 1631.5 | 1627.2 | 2141.2 |
| 47.5° | 2786.2 | 2781.8 | 2548.9 | 1897.2 | 1981.2 | 2487.2 | 2728.1 | 2509.4 | 1963.3 | 1915.7 | 2598.4 |
| 50° | 3323.6 | 3310.7 | 3042.6 | 2233.3 | 2435.3 | 3233.4 | 3663.4 | 3298.9 | 2364.2 | 2252.4 | 3210.6 |
| 52.5° | 3929.1 | 3942.7 | 3733.8 | 2600.2 | 2917.8 | 4063.7 | 4662.4 | 4203.4 | 2799.8 | 2680.5 | 3981.0 |
| 55° | 4499.3 | 4577.1 | 4522.1 | 3029.6 | 3389.1 | 4980.5 | 5759.5 | 5195.5 | 3339.1 | 3240.9 | 4844.6 |
| 57.5° | 4945.3 | 5164.6 | 5550.1 | 3653.5 | 3943.3 | 6053.0 | 6984.6 | 6271.1 | 3968.6 | 4150.8 | 6020.2 |
| 60° | 4970.0 | 5260.4 | 6155.5 | 4958.9 | 4656.2 | 6972.8 | 8207.8 | 7321.9 | 4958.3 | 5695.9 | 6941.3 |
| 62.5° | 4597.5 | 4908.9 | 5761.4 | 5552.0 | 5432.7 | 7755.6 | 8835.4 | 8087.9 | 5931.9 | 6600.9 | 6668.3 |
| 65° | 4171.2 | 4485.7 | 5321.5 | 4879.2 | 5342.5 | 7722.2 | 8676.1 | 8105.9 | 6020.2 | 5985.6 | 6179.6 |
| 67.5° | 3526.9 | 3809.2 | 4566.0 | 4318.9 | 4924.3 | 7349.7 | 7939.7 | 7595.0 | 5546.4 | 5598.3 | 5684.8 |
| 70° | 2574.3 | 2846.1 | 3548.5 | 3560.9 | 4300.3 | 6678.2 | 6822.1 | 6774.5 | 5107.8 | 5162.8 | 4915.7 |
| 72.5° | 1859.5 | 2088.7 | 2694.7 | 2920.2 | 3433.0 | 5600.1 | 5500.7 | 5684.2 | 4382.5 | 4598.1 | 3948.2 |
| 75° | 1336.9 | 1508.6 | 1976.9 | 2540.3 | 2721.3 | 4158.9 | 3937.7 | 4402.3 | 3516.4 | 3959.3 | 2968.4 |
| 77.5° | 542.4 | 603.0 | 777.8 | 1711.2 | 1788.5 | 2797.9 | 2410.6 | 3197.6 | 2506.9 | 2601.5 | 1438.8 |
| 80° | 22.2 | 24.7 | 32.1 | 883.4 | 1226.3 | 1574.1 | 1289.9 | 1709.4 | 1655.6 | 1047.7 | 339.8 |
| 82.5° | 2.5 | 2.5 | 5.6 | 254.5 | 536.8 | 868.6 | 607.9 | 984.7 | 838.3 | 444.2 | 154.4 |
| 85° | 0.6 | 0.6 | 1.2 | 29.0 | 126.0 | 139.0 | 82.2 | 302.1 | 389.8 | 181.6 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.1 | 5.6 | 6.2 | 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: GWS-SA1F-750-U-SLR-W-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 278.0 | 278.0 | 278.0 | 278.0 | 278.0 | 278.0 | 278.0 | 278.0 | 278.0 | 278.0 | 278.0 |
| 2.5° | 279.9 | 276.8 | 273.1 | 269.4 | 267.5 | 262.6 | 260.7 | 259.5 | 258.2 | 258.8 | 258.8 |
| 5° | 270.6 | 263.8 | 255.8 | 247.7 | 243.4 | 238.5 | 236.0 | 234.8 | 235.4 | 237.8 | 237.8 |
| 7.5° | 269.4 | 256.4 | 239.1 | 228.6 | 223.6 | 219.9 | 217.5 | 216.2 | 216.8 | 219.9 | 221.2 |
| 10° | 289.7 | 266.9 | 236.0 | 218.1 | 212.5 | 208.8 | 206.3 | 204.5 | 203.2 | 205.7 | 206.3 |
| 12.5° | 333.6 | 302.1 | 250.8 | 216.8 | 207.0 | 202.0 | 200.2 | 196.5 | 194.6 | 195.8 | 196.5 |
| 15° | 424.4 | 370.0 | 280.5 | 221.8 | 202.0 | 196.5 | 193.4 | 190.3 | 187.2 | 186.6 | 187.2 |
| 17.5° | 543.0 | 465.2 | 325.6 | 233.5 | 198.3 | 191.5 | 187.2 | 182.9 | 178.5 | 177.9 | 177.3 |
| 20° | 690.1 | 581.9 | 388.6 | 252.1 | 195.2 | 187.2 | 181.0 | 174.8 | 169.3 | 167.4 | 167.4 |
| 22.5° | 824.1 | 722.8 | 469.5 | 274.9 | 190.9 | 181.0 | 173.6 | 166.2 | 160.0 | 156.9 | 156.3 |
| 25° | 987.8 | 872.3 | 566.5 | 301.5 | 184.7 | 173.0 | 164.9 | 157.5 | 151.4 | 147.6 | 146.4 |
| 27.5° | 1152.8 | 1029.8 | 676.5 | 336.1 | 177.3 | 164.9 | 157.5 | 150.7 | 143.9 | 139.6 | 138.4 |
| 30° | 1312.8 | 1199.7 | 800.0 | 379.3 | 171.7 | 156.9 | 150.7 | 143.9 | 137.8 | 131.0 | 129.1 |
| 32.5° | 1484.5 | 1373.3 | 938.4 | 427.5 | 167.4 | 151.4 | 144.6 | 138.4 | 130.4 | 124.2 | 121.1 |
| 35° | 1650.1 | 1552.5 | 1091.0 | 474.5 | 163.1 | 146.4 | 139.0 | 132.8 | 124.2 | 117.4 | 113.1 |
| 37.5° | 1816.9 | 1734.7 | 1250.4 | 502.9 | 156.9 | 139.6 | 132.8 | 127.9 | 118.0 | 110.0 | 105.0 |
| 40° | 1993.6 | 1923.1 | 1422.7 | 491.1 | 151.4 | 132.2 | 128.5 | 122.9 | 111.8 | 102.6 | 96.4 |
| 42.5° | 2187.5 | 2102.9 | 1598.2 | 446.0 | 146.4 | 126.0 | 122.3 | 116.8 | 106.3 | 95.1 | 87.1 |
| 45° | 2431.6 | 2300.0 | 1742.1 | 378.1 | 148.9 | 119.8 | 112.4 | 111.2 | 101.3 | 87.1 | 77.2 |
| 47.5° | 2851.0 | 2602.7 | 1853.9 | 334.2 | 165.6 | 113.1 | 104.4 | 107.5 | 97.0 | 79.1 | 68.0 |
| 50° | 3492.9 | 3104.3 | 1958.4 | 331.1 | 190.9 | 110.0 | 97.0 | 105.0 | 92.7 | 71.0 | 59.9 |
| 52.5° | 4104.5 | 3614.0 | 2025.1 | 358.3 | 213.1 | 118.0 | 89.6 | 101.9 | 89.6 | 65.5 | 54.4 |
| 55° | 4689.5 | 3908.1 | 1905.8 | 378.1 | 234.1 | 142.1 | 84.0 | 97.0 | 85.9 | 62.4 | 52.5 |
| 57.5° | 5320.3 | 4039.0 | 1500.6 | 418.2 | 249.0 | 162.5 | 85.3 | 89.6 | 80.9 | 60.5 | 51.9 |
| 60° | 5508.7 | 3871.6 | 905.7 | 470.7 | 240.9 | 168.7 | 94.5 | 79.7 | 74.1 | 56.8 | 50.0 |
| 62.5° | 5215.9 | 3474.4 | 534.4 | 428.7 | 234.1 | 159.4 | 108.1 | 73.5 | 67.3 | 51.9 | 46.3 |
| 65° | 4777.9 | 2935.1 | 348.4 | 362.0 | 248.3 | 142.1 | 114.9 | 70.4 | 61.2 | 47.0 | 40.8 |
| 67.5° | 4277.5 | 2364.2 | 244.0 | 213.8 | 229.2 | 127.9 | 97.0 | 69.8 | 55.0 | 39.5 | 33.4 |
| 70° | 3602.9 | 1770.5 | 171.7 | 141.5 | 190.9 | 113.7 | 75.4 | 68.0 | 48.2 | 32.1 | 25.9 |
| 72.5° | 2783.7 | 1108.3 | 127.9 | 91.4 | 135.9 | 92.7 | 59.9 | 57.5 | 38.9 | 26.6 | 19.8 |
| 75° | 2052.9 | 632.0 | 90.2 | 66.1 | 89.6 | 70.4 | 44.5 | 40.8 | 33.4 | 25.3 | 17.9 |
| 77.5° | 1071.8 | 316.3 | 56.2 | 50.7 | 51.3 | 43.9 | 32.1 | 29.7 | 30.9 | 25.3 | 16.7 |
| 80° | 205.7 | 63.0 | 34.0 | 37.1 | 27.8 | 27.8 | 23.5 | 24.7 | 27.2 | 20.4 | 14.2 |
| 82.5° | 85.9 | 13.6 | 18.5 | 21.0 | 17.3 | 19.2 | 19.2 | 19.8 | 19.2 | 14.8 | 10.5 |
| 85° | 0.0 | 0.0 | 8.0 | 8.6 | 11.7 | 11.7 | 9.9 | 9.9 | 9.9 | 8.6 | 6.2 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 1.9 | 3.7 | 4.3 | 4.9 | 3.7 | 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 |



REPORT NUMBER: P631390
 CATALOG NUMBER: GWS-SA1F-750-U-SLR-W-HSS

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 278.0 | 278.0 | 278.0 | 278.0 | 278.0 | 278.0 | 278.0 | 278.0 | 278.0 | 278.0 | 278.0 |
| 2.5° | 258.2 | 257.0 | 258.8 | 260.1 | 261.3 | 261.3 | 260.1 | 258.8 | 257.0 | 258.8 | 257.0 |
| 5° | 238.5 | 240.3 | 243.4 | 244.6 | 245.9 | 243.4 | 242.2 | 238.5 | 235.4 | 236.0 | 234.8 |
| 7.5° | 223.0 | 224.9 | 228.6 | 231.0 | 231.0 | 229.8 | 226.1 | 222.4 | 217.5 | 217.5 | 216.8 |
| 10° | 208.8 | 211.3 | 215.6 | 218.7 | 219.9 | 218.7 | 215.0 | 210.0 | 205.7 | 205.7 | 203.9 |
| 12.5° | 197.1 | 200.2 | 205.1 | 209.4 | 210.7 | 209.4 | 205.7 | 200.8 | 195.8 | 195.8 | 194.6 |
| 15° | 187.2 | 190.9 | 196.5 | 201.4 | 203.2 | 201.4 | 197.1 | 190.9 | 186.0 | 186.6 | 184.7 |
| 17.5° | 177.9 | 181.0 | 188.4 | 194.0 | 195.8 | 194.0 | 188.4 | 180.4 | 175.4 | 176.7 | 175.4 |
| 20° | 167.4 | 171.1 | 178.5 | 184.7 | 186.6 | 184.7 | 178.5 | 169.9 | 164.9 | 164.9 | 165.6 |
| 22.5° | 156.3 | 160.0 | 167.4 | 171.7 | 174.2 | 172.4 | 166.2 | 158.2 | 153.2 | 153.2 | 153.8 |
| 25° | 146.4 | 148.3 | 153.8 | 158.2 | 158.8 | 156.9 | 152.0 | 145.8 | 142.1 | 143.9 | 144.6 |
| 27.5° | 137.1 | 137.1 | 139.6 | 142.1 | 141.5 | 139.6 | 137.8 | 132.8 | 132.2 | 134.1 | 135.9 |
| 30° | 127.3 | 124.2 | 122.9 | 121.1 | 120.5 | 119.8 | 121.7 | 121.7 | 122.9 | 125.4 | 127.3 |
| 32.5° | 118.6 | 112.4 | 106.9 | 101.3 | 98.2 | 100.7 | 105.6 | 110.0 | 114.3 | 118.0 | 119.8 |
| 35° | 108.7 | 98.8 | 89.6 | 82.2 | 77.2 | 80.9 | 89.0 | 97.0 | 104.4 | 109.3 | 112.4 |
| 37.5° | 98.8 | 84.6 | 73.5 | 64.2 | 60.5 | 63.6 | 72.3 | 83.4 | 94.5 | 100.7 | 105.0 |
| 40° | 88.3 | 70.4 | 57.5 | 50.0 | 46.3 | 49.4 | 58.1 | 69.2 | 84.0 | 92.0 | 97.6 |
| 42.5° | 77.8 | 58.1 | 46.3 | 38.9 | 37.1 | 38.9 | 45.7 | 56.8 | 72.9 | 82.8 | 90.2 |
| 45° | 67.3 | 48.2 | 37.1 | 31.5 | 29.7 | 31.5 | 37.1 | 46.3 | 62.4 | 73.5 | 82.2 |
| 47.5° | 58.1 | 40.8 | 30.9 | 25.9 | 24.7 | 26.6 | 30.9 | 38.9 | 52.5 | 63.6 | 73.5 |
| 50° | 50.7 | 35.8 | 26.6 | 22.2 | 21.0 | 22.9 | 26.6 | 32.7 | 44.5 | 54.4 | 64.9 |
| 52.5° | 45.7 | 33.4 | 23.5 | 19.2 | 18.5 | 19.8 | 22.9 | 27.8 | 37.7 | 46.3 | 56.2 |
| 55° | 44.5 | 33.4 | 21.6 | 17.3 | 16.7 | 17.9 | 20.4 | 24.1 | 32.7 | 40.2 | 48.8 |
| 57.5° | 45.7 | 35.8 | 20.4 | 14.8 | 14.2 | 15.4 | 17.9 | 21.0 | 28.4 | 34.6 | 42.6 |
| 60° | 45.7 | 36.4 | 17.9 | 11.7 | 11.1 | 12.4 | 14.8 | 18.5 | 25.3 | 30.3 | 37.1 |
| 62.5° | 41.4 | 33.4 | 14.8 | 9.3 | 8.0 | 9.3 | 12.4 | 15.4 | 22.2 | 27.2 | 32.7 |
| 65° | 35.8 | 28.4 | 12.4 | 6.8 | 5.6 | 6.8 | 9.9 | 13.0 | 19.2 | 23.5 | 29.7 |
| 67.5° | 29.0 | 21.6 | 9.3 | 4.9 | 3.7 | 4.9 | 7.4 | 10.5 | 16.1 | 20.4 | 26.6 |
| 70° | 21.6 | 15.4 | 7.4 | 4.3 | 3.7 | 4.3 | 6.8 | 9.9 | 14.2 | 18.5 | 24.7 |
| 72.5° | 16.1 | 10.5 | 6.2 | 4.3 | 3.1 | 4.3 | 6.2 | 9.3 | 13.6 | 17.9 | 23.5 |
| 75° | 13.6 | 8.6 | 5.6 | 3.7 | 3.1 | 3.7 | 5.6 | 8.6 | 12.4 | 16.7 | 22.2 |
| 77.5° | 13.0 | 8.0 | 4.9 | 3.1 | 2.5 | 3.1 | 4.9 | 7.4 | 11.1 | 15.4 | 21.6 |
| 80° | 11.1 | 6.8 | 4.3 | 2.5 | 1.9 | 2.5 | 4.3 | 6.2 | 8.6 | 11.7 | 16.7 |
| 82.5° | 8.6 | 5.6 | 3.1 | 1.2 | 0.6 | 1.2 | 3.1 | 3.7 | 5.6 | 6.8 | 9.9 |
| 85° | 5.6 | 3.1 | 1.2 | 0.0 | 0.0 | 0.0 | 1.2 | 2.5 | 2.5 | 3.1 | 4.9 |
| 87.5° | 2.5 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 1.2 | 1.9 |
| 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: P631390
 CATALOG NUMBER: GWS-SA1F-750-U-SLR-W-HSS

CANDELA DISTRIBUTION (continued):

| | 285° | 295° | 305° | 315° | 325° | 335° | 345° | 355° | 359° | 360° |
|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| 0° | 278.0 | 278.0 | 278.0 | 278.0 | 278.0 | 278.0 | 278.0 | 278.0 | 278.0 | 278.0 |
| 2.5° | 260.7 | 261.3 | 262.6 | 264.4 | 268.7 | 272.4 | 276.1 | 281.1 | 283.6 | 283.6 |
| 5° | 236.0 | 236.6 | 237.2 | 239.7 | 245.9 | 250.8 | 258.8 | 268.7 | 273.7 | 274.9 |
| 7.5° | 216.8 | 218.1 | 219.3 | 221.2 | 227.3 | 234.1 | 244.6 | 263.2 | 272.4 | 274.3 |
| 10° | 205.7 | 207.6 | 210.0 | 213.8 | 219.3 | 226.7 | 244.6 | 278.0 | 293.4 | 296.5 |
| 12.5° | 197.1 | 200.2 | 202.6 | 207.0 | 213.8 | 225.5 | 261.3 | 320.0 | 347.2 | 354.6 |
| 15° | 188.4 | 192.1 | 195.8 | 200.2 | 207.6 | 229.8 | 293.4 | 395.4 | 440.5 | 446.0 |
| 17.5° | 179.8 | 184.1 | 189.0 | 194.0 | 203.2 | 240.3 | 344.1 | 499.8 | 562.8 | 575.2 |
| 20° | 169.9 | 175.4 | 182.2 | 188.4 | 198.9 | 257.0 | 414.5 | 624.0 | 703.0 | 729.6 |
| 22.5° | 159.4 | 166.2 | 174.2 | 182.2 | 194.0 | 277.4 | 499.8 | 757.4 | 868.0 | 885.3 |
| 25° | 150.7 | 157.5 | 164.9 | 173.0 | 186.0 | 302.1 | 603.0 | 923.0 | 1023.7 | 1040.3 |
| 27.5° | 142.7 | 149.5 | 156.3 | 163.7 | 177.9 | 334.2 | 727.1 | 1099.0 | 1204.0 | 1221.3 |
| 30° | 134.1 | 142.1 | 148.9 | 156.3 | 170.5 | 373.8 | 870.4 | 1294.2 | 1393.7 | 1409.8 |
| 32.5° | 126.6 | 134.7 | 141.5 | 148.9 | 164.9 | 417.0 | 1021.2 | 1467.2 | 1548.1 | 1548.1 |
| 35° | 120.5 | 129.1 | 134.1 | 143.9 | 160.6 | 444.8 | 1163.9 | 1632.2 | 1693.3 | 1690.9 |
| 37.5° | 113.7 | 124.2 | 127.9 | 134.7 | 155.1 | 447.9 | 1297.9 | 1806.4 | 1851.5 | 1835.4 |
| 40° | 106.9 | 118.0 | 123.6 | 127.3 | 148.9 | 422.6 | 1445.0 | 1966.4 | 2004.7 | 1983.7 |
| 42.5° | 100.7 | 109.3 | 117.4 | 121.7 | 145.2 | 378.1 | 1563.0 | 2137.5 | 2183.2 | 2164.7 |
| 45° | 94.5 | 101.9 | 106.9 | 114.9 | 147.6 | 347.2 | 1664.3 | 2337.1 | 2417.4 | 2403.8 |
| 47.5° | 88.3 | 94.5 | 97.6 | 110.0 | 164.3 | 333.0 | 1726.1 | 2645.9 | 2797.3 | 2786.2 |
| 50° | 81.5 | 89.0 | 89.0 | 108.7 | 189.0 | 337.9 | 1779.8 | 3093.2 | 3327.3 | 3323.6 |
| 52.5° | 74.8 | 82.8 | 81.5 | 118.0 | 208.2 | 360.8 | 1841.0 | 3488.0 | 3895.1 | 3929.1 |
| 55° | 68.0 | 75.4 | 76.6 | 136.5 | 219.3 | 380.6 | 1604.4 | 3654.2 | 4380.0 | 4499.3 |
| 57.5° | 60.5 | 64.9 | 79.7 | 150.7 | 215.6 | 438.0 | 1099.0 | 3684.4 | 4689.5 | 4945.3 |
| 60° | 52.5 | 56.2 | 90.2 | 147.6 | 203.9 | 404.6 | 691.9 | 3412.6 | 4645.7 | 4970.0 |
| 62.5° | 45.7 | 51.9 | 95.1 | 130.4 | 207.6 | 350.9 | 441.1 | 2908.5 | 4227.4 | 4597.5 |
| 65° | 40.2 | 50.0 | 86.5 | 118.0 | 210.0 | 237.8 | 297.8 | 2366.1 | 3819.1 | 4171.2 |
| 67.5° | 35.8 | 55.6 | 71.0 | 105.0 | 180.4 | 167.4 | 204.5 | 1838.5 | 3211.2 | 3526.9 |
| 70° | 32.7 | 56.8 | 58.1 | 90.2 | 139.6 | 107.5 | 134.7 | 1237.4 | 2213.5 | 2574.3 |
| 72.5° | 29.7 | 42.0 | 43.9 | 72.3 | 90.2 | 65.5 | 87.1 | 708.0 | 1613.6 | 1859.5 |
| 75° | 28.4 | 28.4 | 30.3 | 47.0 | 50.0 | 47.6 | 56.2 | 422.6 | 1157.1 | 1336.9 |
| 77.5° | 26.6 | 21.6 | 19.2 | 30.3 | 27.2 | 34.0 | 33.4 | 187.8 | 501.6 | 542.4 |
| 80° | 21.0 | 15.4 | 13.0 | 19.2 | 18.5 | 22.9 | 19.8 | 15.4 | 22.9 | 22.2 |
| 82.5° | 13.0 | 9.9 | 9.3 | 11.7 | 10.5 | 11.7 | 9.3 | 2.5 | 2.5 | 2.5 |
| 85° | 6.2 | 5.6 | 4.9 | 4.9 | 5.6 | 4.9 | 3.7 | 1.2 | 0.6 | 0.6 |
| 87.5° | 3.1 | 3.1 | 2.5 | 1.9 | 2.5 | 2.5 | 1.9 | 0.6 | 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 | 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

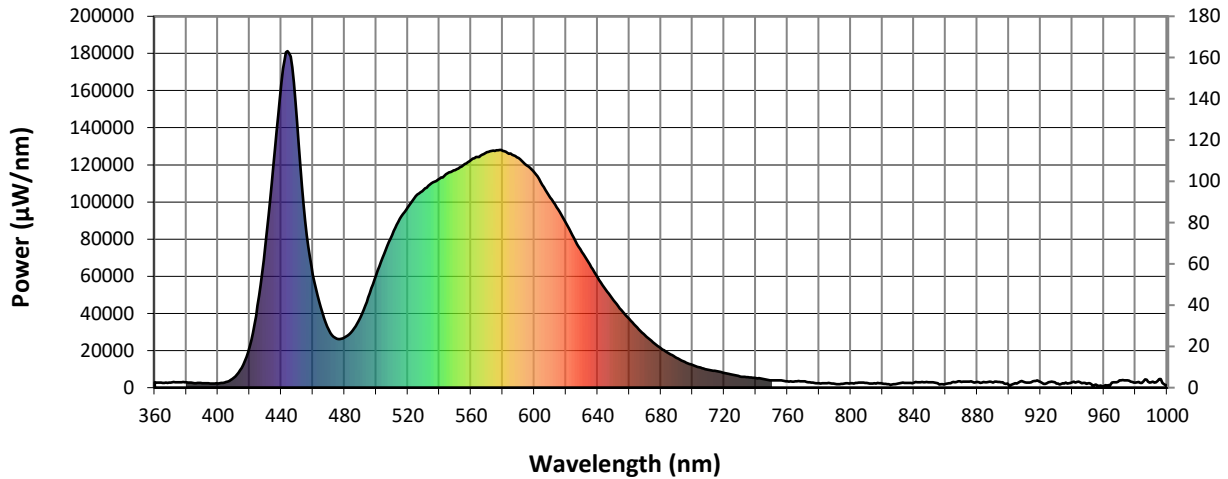


#####

| 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

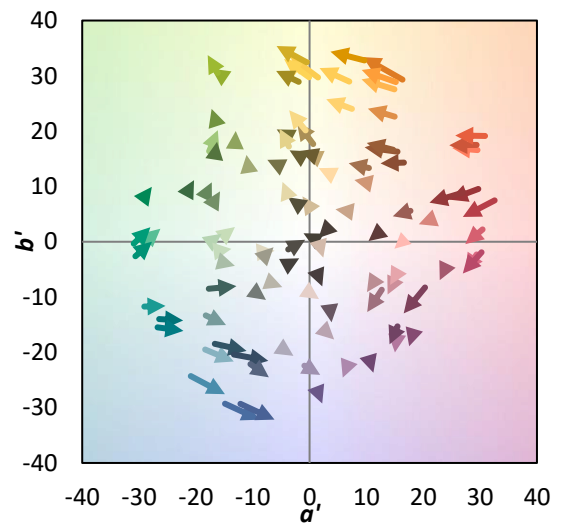
TM-30-18

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 | |



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)