

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: P630779

Luminaire Tested: GWS-SA1E-735-U-SLL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P630779
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-38)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1E-735-U-SLL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (16) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4007.6 lumens
Efficiency: N/A
Efficacy: 68.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G0

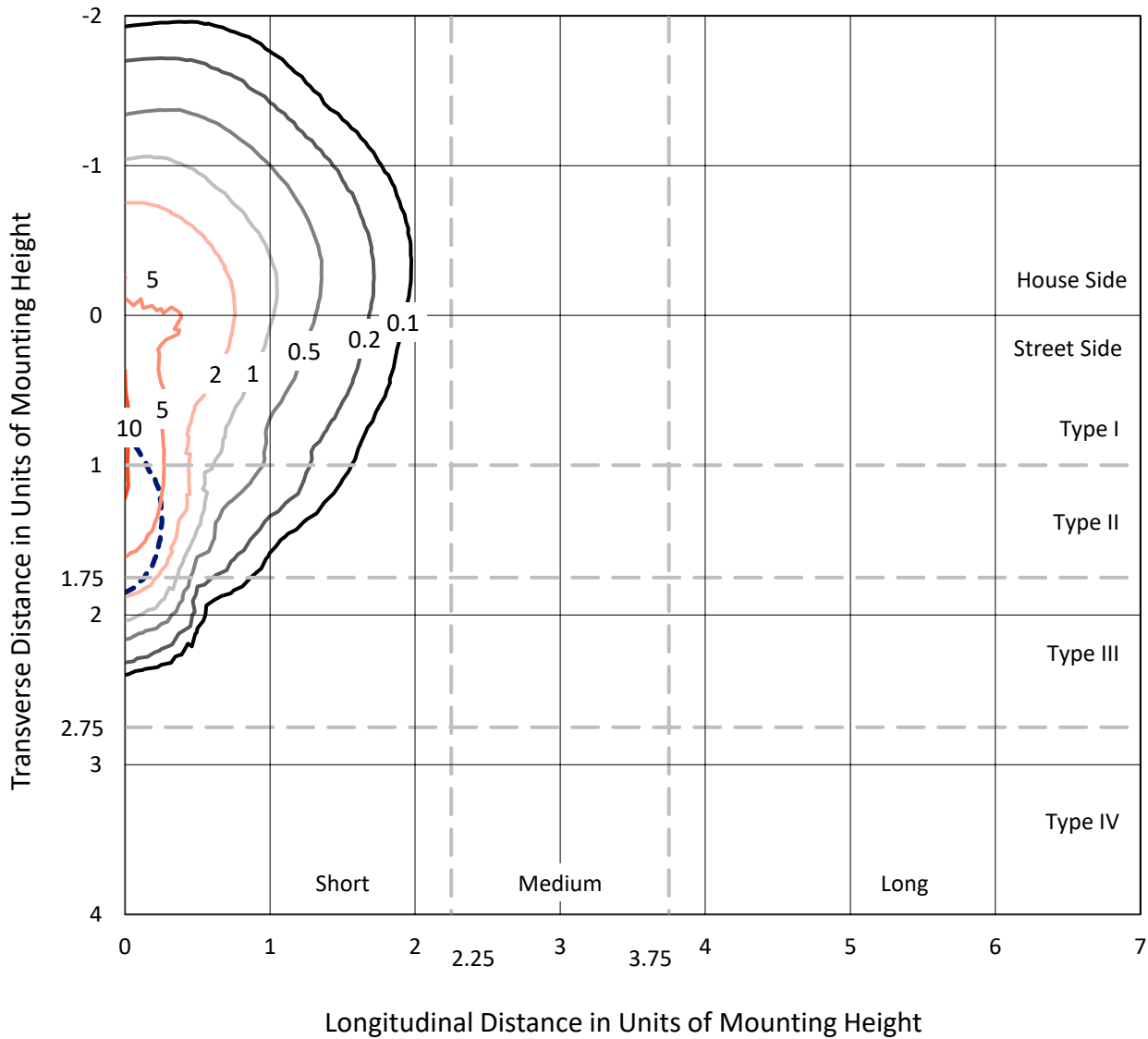
Input Watts (W): 58.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P630779
 CATALOG NUMBER: GWS-SA1E-735-U-SLL-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

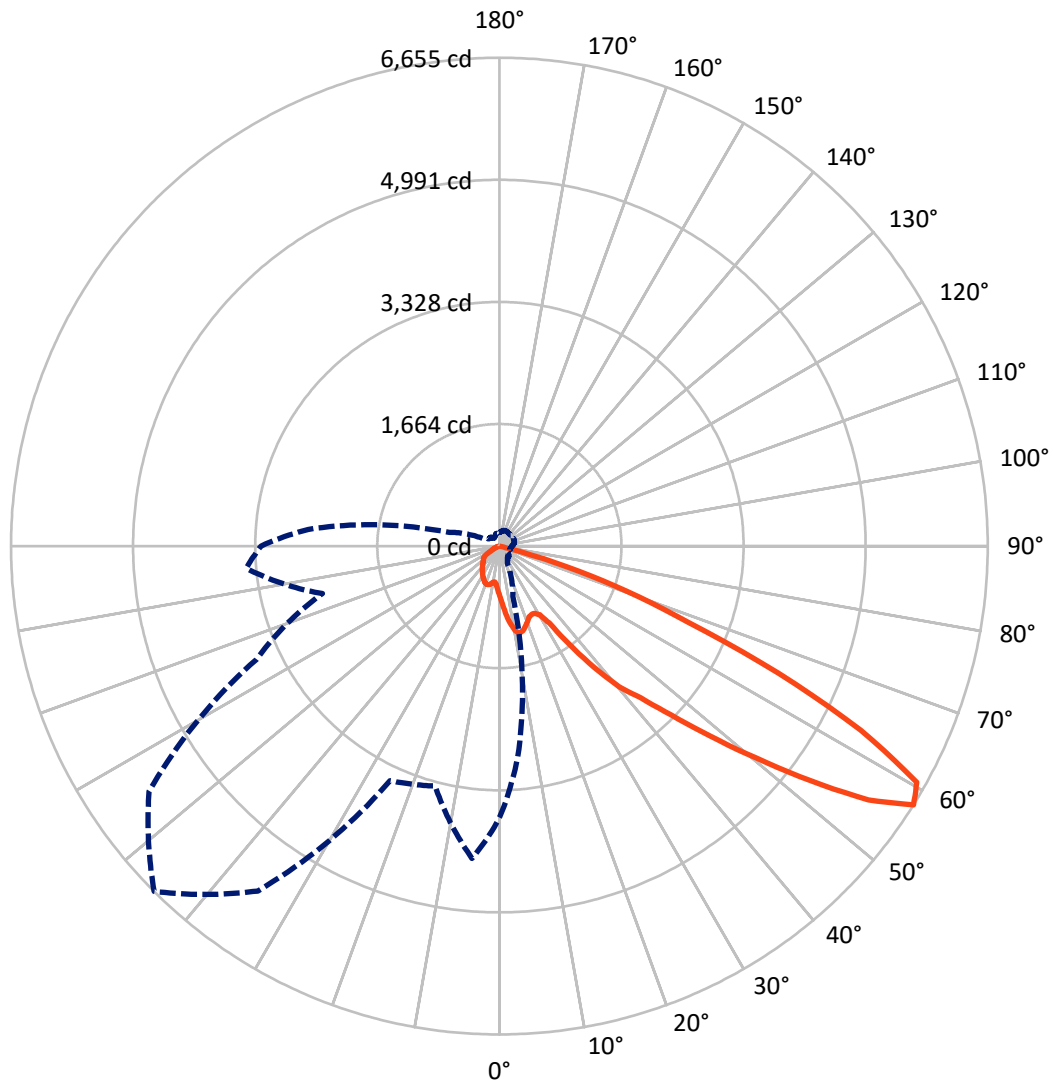
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 863.4 | 0.0 | 863.4 |
| | % Fixture | 21.5 | 0.0 | 21.5 |
| Street Side | Lumens | 3144.2 | 0.0 | 3144.2 |
| | % Fixture | 78.5 | 0.0 | 78.5 |
| Total | Lumens | 4007.6 | 0.0 | 4007.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 67.3 | 1.7 |
| 10°-20° | 221.5 | 5.5 |
| 20°-30° | 359.4 | 9.0 |
| 30°-40° | 551.6 | 13.8 |
| 40°-50° | 881.0 | 22.0 |
| 50°-60° | 1233.5 | 30.8 |
| 60°-70° | 632.5 | 15.8 |
| 70°-80° | 60.9 | 1.5 |
| 80°-90° | 0.0 | 0.0 |
| 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° | 4007.6 | 100.0 |
| 0°-180° | 4007.6 | 100.0 |

Coefficient of Utilization



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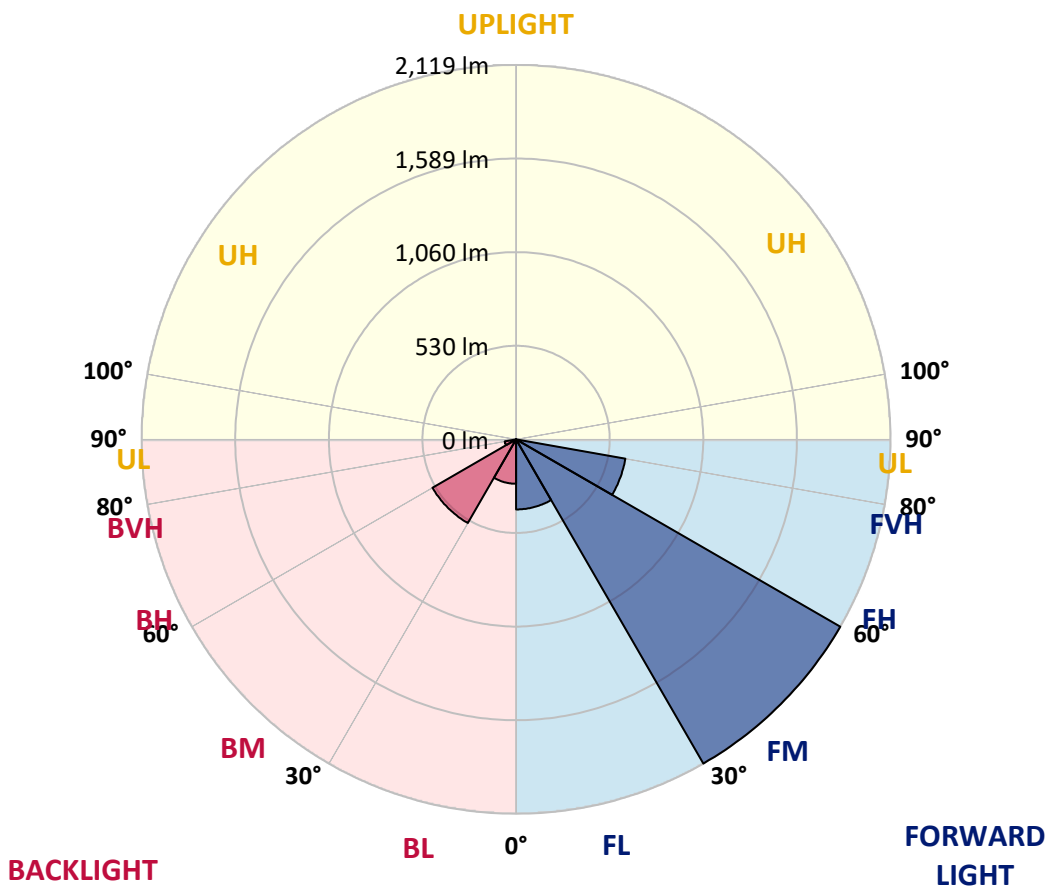
CATALOG NUMBER: GWS-SA1E-735-U-SLL-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 396.8 | 9.9 | | | |
| FM (30°-60°) | 2119.3 | 52.9 | | | |
| FH (60°-80°) | 628.1 | 15.7 | | | G0/660 |
| FVH (80°-90°) | 0.0 | 0.0 | | | G0/10 |
| BL (0°-30°) | 251.4 | 6.3 | B1/500 | | |
| BM (30°-60°) | 546.8 | 13.6 | B1/1000 | | |
| BH (60°-80°) | 65.2 | 1.6 | B0/110 | | G0/110 |
| BVH (80°-90°) | 0.0 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G0

Type III Short





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CATALOG NUMBER: GWS-SA1E-735-U-SLL-W-GRSBK

CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 681.0 | 681.0 | 681.0 | 681.0 | 681.0 | 681.0 | 681.0 | 681.0 | 681.0 | 681.0 | 681.0 |
| 2.5° | 756.5 | 754.9 | 749.5 | 731.3 | 720.1 | 702.4 | 689.5 | 672.9 | 654.7 | 643.4 | 632.2 |
| 5° | 836.9 | 832.6 | 818.1 | 776.3 | 744.2 | 709.3 | 681.5 | 650.9 | 618.3 | 596.8 | 577.0 |
| 7.5° | 914.0 | 907.6 | 888.3 | 817.6 | 768.8 | 719.0 | 679.3 | 634.9 | 588.8 | 556.7 | 532.0 |
| 10° | 989.5 | 975.1 | 944.5 | 857.8 | 791.9 | 731.8 | 685.2 | 634.3 | 580.2 | 539.5 | 512.2 |
| 12.5° | 1051.7 | 1041.0 | 999.2 | 895.8 | 811.1 | 734.5 | 677.2 | 630.1 | 593.6 | 566.3 | 541.1 |
| 15° | 1105.3 | 1093.5 | 1053.8 | 930.1 | 827.7 | 723.8 | 643.4 | 602.2 | 608.1 | 618.8 | 597.4 |
| 17.5° | 1154.6 | 1142.2 | 1099.4 | 958.5 | 834.2 | 697.6 | 596.3 | 576.5 | 609.2 | 649.3 | 641.3 |
| 20° | 1205.5 | 1191.5 | 1139.0 | 981.5 | 832.0 | 656.3 | 548.6 | 554.5 | 600.6 | 646.7 | 650.9 |
| 22.5° | 1264.9 | 1250.5 | 1189.4 | 1011.0 | 830.4 | 607.0 | 507.4 | 535.2 | 584.5 | 623.6 | 631.1 |
| 25° | 1343.7 | 1326.5 | 1259.6 | 1054.4 | 834.7 | 562.0 | 477.9 | 516.5 | 557.2 | 592.6 | 596.8 |
| 27.5° | 1447.6 | 1425.7 | 1340.5 | 1108.0 | 843.8 | 526.7 | 465.0 | 490.8 | 522.4 | 554.0 | 557.7 |
| 30° | 1583.2 | 1555.3 | 1433.2 | 1154.6 | 839.5 | 502.0 | 456.5 | 465.0 | 483.8 | 509.5 | 510.0 |
| 32.5° | 1741.8 | 1703.7 | 1537.1 | 1194.7 | 802.6 | 483.8 | 444.7 | 438.8 | 443.1 | 462.9 | 466.6 |
| 35° | 1928.2 | 1878.9 | 1651.7 | 1232.8 | 735.1 | 448.4 | 423.3 | 403.4 | 401.8 | 411.5 | 420.6 |
| 37.5° | 2142.0 | 2083.0 | 1796.4 | 1281.5 | 655.2 | 411.5 | 391.6 | 371.8 | 363.2 | 368.1 | 382.0 |
| 40° | 2339.1 | 2273.8 | 1947.5 | 1340.5 | 573.8 | 378.2 | 354.7 | 334.3 | 324.1 | 325.7 | 342.9 |
| 42.5° | 2570.6 | 2503.1 | 2132.3 | 1417.6 | 506.3 | 355.7 | 316.1 | 295.2 | 281.8 | 289.3 | 309.1 |
| 45° | 2922.0 | 2845.4 | 2401.8 | 1484.6 | 452.7 | 350.4 | 282.3 | 252.9 | 246.4 | 259.3 | 282.9 |
| 47.5° | 3402.1 | 3308.3 | 2772.0 | 1525.3 | 407.2 | 355.2 | 258.8 | 218.6 | 220.2 | 234.7 | 258.2 |
| 50° | 3878.4 | 3777.1 | 3200.1 | 1471.7 | 369.7 | 345.6 | 247.0 | 191.8 | 202.0 | 214.8 | 236.3 |
| 52.5° | 4205.7 | 4073.9 | 3408.5 | 1316.9 | 335.4 | 309.1 | 245.9 | 166.6 | 185.9 | 190.2 | 208.4 |
| 55° | 4218.6 | 4056.2 | 3301.9 | 1038.3 | 288.8 | 260.9 | 234.7 | 145.7 | 168.2 | 169.8 | 185.4 |
| 57.5° | 3697.8 | 3551.0 | 2885.6 | 713.1 | 256.6 | 191.3 | 187.0 | 127.5 | 138.2 | 151.6 | 161.3 |
| 60° | 2813.3 | 2688.4 | 2158.0 | 326.8 | 195.0 | 121.6 | 128.0 | 109.8 | 103.4 | 123.2 | 132.9 |
| 62.5° | 1723.0 | 1643.2 | 1294.4 | 144.7 | 124.3 | 64.8 | 77.7 | 87.3 | 77.7 | 85.2 | 93.2 |
| 65° | 684.2 | 648.8 | 491.3 | 61.6 | 50.9 | 32.7 | 35.4 | 50.9 | 54.6 | 60.0 | 67.5 |
| 67.5° | 118.9 | 112.5 | 82.5 | 27.3 | 20.9 | 19.8 | 17.1 | 23.6 | 33.2 | 37.0 | 42.9 |
| 70° | 15.5 | 15.0 | 13.4 | 11.3 | 10.7 | 9.6 | 7.5 | 15.0 | 22.5 | 23.6 | 27.3 |
| 72.5° | 3.8 | 3.2 | 3.2 | 2.7 | 3.2 | 1.1 | 1.1 | 8.0 | 16.1 | 16.6 | 19.3 |
| 75° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.7 | 10.2 | 11.3 | 13.4 |
| 77.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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: GWS-SA1E-735-U-SLL-W-GRSBK

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 681.0 | 681.0 | 681.0 | 681.0 | 681.0 | 681.0 | 681.0 | 681.0 | 681.0 | 681.0 | 681.0 |
| 2.5° | 623.1 | 612.4 | 608.6 | 603.3 | 596.3 | 598.4 | 588.8 | 585.6 | 590.4 | 596.8 | 595.2 |
| 5° | 566.3 | 554.5 | 546.5 | 534.2 | 532.0 | 527.2 | 524.0 | 519.7 | 525.0 | 532.5 | 534.2 |
| 7.5° | 521.3 | 511.1 | 503.1 | 499.3 | 496.6 | 494.5 | 488.1 | 484.9 | 484.9 | 488.1 | 490.8 |
| 10° | 502.0 | 494.5 | 492.9 | 494.0 | 498.3 | 497.7 | 491.8 | 487.5 | 482.2 | 479.5 | 482.7 |
| 12.5° | 528.8 | 516.5 | 514.3 | 514.9 | 520.2 | 519.7 | 513.3 | 507.9 | 506.8 | 507.9 | 518.1 |
| 15° | 574.3 | 555.6 | 541.7 | 539.0 | 541.7 | 540.6 | 535.8 | 532.5 | 534.2 | 549.7 | 566.8 |
| 17.5° | 615.1 | 586.1 | 560.9 | 551.3 | 550.8 | 549.2 | 544.3 | 543.3 | 551.3 | 580.2 | 605.4 |
| 20° | 626.8 | 598.4 | 562.5 | 550.2 | 547.5 | 545.9 | 540.6 | 542.2 | 552.4 | 587.2 | 608.6 |
| 22.5° | 611.3 | 584.0 | 546.5 | 534.2 | 532.0 | 531.5 | 526.1 | 528.3 | 536.8 | 567.4 | 585.0 |
| 25° | 581.8 | 558.8 | 519.7 | 509.0 | 509.0 | 507.9 | 503.1 | 504.1 | 509.5 | 536.3 | 553.4 |
| 27.5° | 545.9 | 524.0 | 491.3 | 480.6 | 482.2 | 483.8 | 477.9 | 476.3 | 480.6 | 505.8 | 515.9 |
| 30° | 504.7 | 489.1 | 463.4 | 453.8 | 453.3 | 459.7 | 451.6 | 449.5 | 455.4 | 475.2 | 477.4 |
| 32.5° | 464.5 | 457.0 | 438.8 | 431.3 | 431.8 | 432.9 | 428.6 | 428.6 | 434.0 | 444.7 | 444.1 |
| 35° | 425.4 | 420.6 | 417.4 | 412.0 | 411.5 | 409.3 | 409.3 | 410.4 | 416.3 | 420.0 | 413.1 |
| 37.5° | 387.9 | 392.7 | 396.5 | 391.1 | 386.8 | 386.8 | 386.8 | 391.6 | 397.0 | 395.4 | 383.6 |
| 40° | 354.7 | 364.9 | 376.6 | 370.7 | 360.6 | 360.0 | 362.2 | 370.2 | 378.2 | 368.6 | 357.9 |
| 42.5° | 326.3 | 339.1 | 355.7 | 352.5 | 341.3 | 339.7 | 341.3 | 351.5 | 357.9 | 345.6 | 333.8 |
| 45° | 298.4 | 314.5 | 334.3 | 334.3 | 322.0 | 320.4 | 320.9 | 334.3 | 338.1 | 323.6 | 308.6 |
| 47.5° | 274.8 | 292.5 | 313.4 | 313.4 | 303.2 | 300.0 | 302.7 | 316.6 | 319.3 | 299.0 | 285.0 |
| 50° | 252.3 | 271.6 | 294.7 | 293.1 | 286.1 | 283.4 | 288.2 | 303.2 | 300.0 | 277.5 | 263.1 |
| 52.5° | 223.9 | 244.3 | 275.9 | 277.5 | 273.8 | 274.3 | 280.2 | 289.8 | 280.7 | 253.4 | 241.1 |
| 55° | 198.2 | 219.1 | 250.7 | 259.3 | 259.3 | 258.8 | 261.5 | 269.0 | 261.5 | 228.8 | 213.8 |
| 57.5° | 170.4 | 188.1 | 214.3 | 216.4 | 218.1 | 212.2 | 215.9 | 226.1 | 222.3 | 194.5 | 185.9 |
| 60° | 139.8 | 154.8 | 169.8 | 171.4 | 164.5 | 152.2 | 159.1 | 170.9 | 173.6 | 152.7 | 143.0 |
| 62.5° | 99.1 | 113.6 | 131.3 | 131.3 | 124.3 | 112.0 | 121.1 | 131.3 | 127.5 | 106.1 | 100.2 |
| 65° | 73.9 | 87.3 | 100.7 | 106.6 | 100.7 | 92.2 | 99.1 | 106.6 | 100.7 | 83.0 | 74.5 |
| 67.5° | 47.7 | 56.8 | 64.8 | 69.6 | 70.7 | 69.6 | 72.9 | 70.7 | 63.8 | 52.0 | 47.1 |
| 70° | 28.9 | 33.8 | 38.0 | 42.3 | 45.5 | 47.1 | 48.8 | 43.9 | 37.0 | 30.5 | 28.9 |
| 72.5° | 20.9 | 25.2 | 28.9 | 32.1 | 35.9 | 37.0 | 37.0 | 33.8 | 27.3 | 21.4 | 19.8 |
| 75° | 14.5 | 18.2 | 21.4 | 23.6 | 26.8 | 27.9 | 27.9 | 25.2 | 20.4 | 15.5 | 13.9 |
| 77.5° | 0.5 | 3.8 | 3.8 | 3.2 | 4.3 | 5.4 | 5.4 | 6.4 | 5.9 | 4.3 | 3.8 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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: GWS-SA1E-735-U-SLL-W-GRSBK

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| 0° | 681.0 | 681.0 | 681.0 | 681.0 | 681.0 | 681.0 | 681.0 | 681.0 | 681.0 | 681.0 | 681.0 |
| 2.5° | 598.4 | 617.7 | 623.1 | 642.9 | 660.6 | 678.3 | 699.7 | 712.6 | 731.8 | 745.2 | 752.7 |
| 5° | 539.5 | 555.6 | 574.9 | 604.3 | 634.9 | 668.6 | 709.3 | 744.7 | 789.2 | 821.9 | 832.6 |
| 7.5° | 496.6 | 517.5 | 540.0 | 577.0 | 618.8 | 663.8 | 721.1 | 779.0 | 847.0 | 891.5 | 919.9 |
| 10° | 488.6 | 510.0 | 540.0 | 576.5 | 620.4 | 671.8 | 742.0 | 817.0 | 902.2 | 956.3 | 988.5 |
| 12.5° | 527.2 | 550.2 | 563.1 | 579.7 | 612.9 | 670.2 | 760.2 | 855.6 | 955.8 | 1014.7 | 1049.0 |
| 15° | 584.0 | 604.3 | 583.4 | 562.5 | 584.0 | 653.1 | 770.4 | 887.8 | 1002.9 | 1071.0 | 1106.3 |
| 17.5° | 623.1 | 624.7 | 579.2 | 534.7 | 540.6 | 622.0 | 774.2 | 919.9 | 1053.3 | 1124.6 | 1161.5 |
| 20° | 619.3 | 606.5 | 560.4 | 511.1 | 492.9 | 581.8 | 769.9 | 948.3 | 1104.2 | 1178.7 | 1215.1 |
| 22.5° | 590.4 | 575.4 | 536.3 | 488.1 | 452.7 | 534.2 | 762.4 | 974.0 | 1150.8 | 1235.5 | 1269.8 |
| 25° | 555.6 | 539.5 | 507.4 | 465.0 | 427.0 | 488.1 | 756.5 | 1009.4 | 1209.7 | 1309.4 | 1336.2 |
| 27.5° | 514.9 | 500.9 | 473.6 | 443.1 | 416.3 | 453.3 | 754.9 | 1056.0 | 1281.0 | 1399.4 | 1418.2 |
| 30° | 475.2 | 462.4 | 440.9 | 423.3 | 412.0 | 432.9 | 749.5 | 1105.8 | 1366.2 | 1502.8 | 1523.2 |
| 32.5° | 437.2 | 424.3 | 410.9 | 408.2 | 408.8 | 425.4 | 731.3 | 1155.1 | 1467.4 | 1652.8 | 1667.8 |
| 35° | 404.5 | 389.5 | 384.1 | 390.6 | 402.4 | 412.5 | 679.9 | 1195.8 | 1576.2 | 1816.2 | 1828.5 |
| 37.5° | 373.4 | 358.4 | 357.9 | 373.4 | 386.3 | 392.7 | 619.3 | 1236.0 | 1723.0 | 1982.3 | 1997.8 |
| 40° | 345.0 | 330.0 | 335.4 | 354.1 | 364.3 | 367.5 | 545.9 | 1297.1 | 1878.4 | 2157.5 | 2148.9 |
| 42.5° | 320.9 | 305.4 | 308.6 | 332.7 | 341.8 | 350.4 | 478.4 | 1348.0 | 2027.9 | 2323.6 | 2320.9 |
| 45° | 297.3 | 285.6 | 283.4 | 309.7 | 317.7 | 352.0 | 429.1 | 1387.1 | 2220.2 | 2535.2 | 2539.5 |
| 47.5° | 274.3 | 265.2 | 265.7 | 277.0 | 296.8 | 360.0 | 387.4 | 1412.8 | 2499.3 | 2870.6 | 2796.1 |
| 50° | 253.4 | 246.4 | 252.3 | 239.5 | 283.4 | 349.9 | 351.5 | 1407.4 | 2811.1 | 3192.1 | 3042.6 |
| 52.5° | 230.4 | 228.8 | 231.4 | 200.4 | 262.0 | 308.6 | 317.7 | 1336.2 | 2957.4 | 3411.7 | 3326.5 |
| 55° | 206.8 | 206.3 | 184.8 | 160.2 | 219.1 | 246.4 | 272.2 | 1114.9 | 2952.6 | 3528.5 | 3631.9 |
| 57.5° | 178.9 | 174.7 | 140.4 | 130.7 | 170.4 | 171.4 | 248.1 | 730.2 | 2616.7 | 3248.8 | 3463.2 |
| 60° | 135.5 | 132.3 | 102.9 | 106.1 | 118.9 | 109.8 | 197.7 | 363.8 | 1955.5 | 2530.9 | 2772.6 |
| 62.5° | 93.8 | 89.5 | 76.6 | 82.0 | 76.6 | 62.7 | 121.1 | 180.0 | 1184.6 | 1598.2 | 1817.3 |
| 65° | 68.6 | 63.8 | 52.5 | 45.0 | 35.9 | 35.9 | 46.1 | 69.1 | 458.6 | 679.3 | 819.2 |
| 67.5° | 42.3 | 40.2 | 31.1 | 22.5 | 22.0 | 23.6 | 24.1 | 34.3 | 73.9 | 117.9 | 144.1 |
| 70° | 27.3 | 25.2 | 20.9 | 14.5 | 13.4 | 13.9 | 14.5 | 16.1 | 18.8 | 20.4 | 24.6 |
| 72.5° | 18.8 | 17.7 | 15.0 | 8.0 | 6.4 | 7.0 | 7.5 | 7.5 | 9.1 | 8.6 | 10.2 |
| 75° | 13.4 | 12.3 | 10.7 | 3.8 | 2.1 | 2.7 | 3.2 | 2.7 | 3.2 | 2.1 | 2.7 |
| 77.5° | 3.8 | 3.8 | 2.7 | 0.5 | 0.0 | 0.5 | 1.1 | 1.1 | 0.5 | 0.0 | 0.0 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 0.5 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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: P630779

CATALOG NUMBER: GWS-SA1E-735-U-SLL-W-GRSBK

CANDELA DISTRIBUTION (continued):

| | 285° | 295° | 305° | 315° | 325° | 335° | 345° | 355° | 359° | 360° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 681.0 | 681.0 | 681.0 | 681.0 | 681.0 | 681.0 | 681.0 | 681.0 | 681.0 | 681.0 |
| 2.5° | 772.0 | 784.4 | 789.2 | 782.2 | 788.1 | 778.5 | 774.7 | 760.2 | 759.2 | 756.5 |
| 5° | 876.0 | 903.8 | 920.4 | 930.6 | 918.8 | 906.0 | 886.7 | 853.5 | 843.3 | 836.9 |
| 7.5° | 978.3 | 1021.7 | 1050.1 | 1063.5 | 1060.3 | 1034.0 | 999.2 | 943.5 | 923.6 | 914.0 |
| 10° | 1067.2 | 1120.3 | 1154.6 | 1171.2 | 1164.2 | 1141.2 | 1091.3 | 1021.7 | 995.4 | 989.5 |
| 12.5° | 1129.4 | 1178.1 | 1201.7 | 1216.2 | 1216.7 | 1207.6 | 1160.5 | 1090.3 | 1059.2 | 1051.7 |
| 15° | 1168.5 | 1189.4 | 1189.9 | 1198.5 | 1213.5 | 1233.9 | 1211.9 | 1149.7 | 1116.5 | 1105.3 |
| 17.5° | 1193.1 | 1170.1 | 1146.5 | 1148.7 | 1173.3 | 1227.4 | 1249.9 | 1202.2 | 1166.9 | 1154.6 |
| 20° | 1210.8 | 1138.0 | 1094.0 | 1094.6 | 1119.7 | 1201.7 | 1276.2 | 1253.1 | 1216.7 | 1205.5 |
| 22.5° | 1222.1 | 1109.6 | 1046.9 | 1045.3 | 1072.1 | 1171.2 | 1300.3 | 1313.7 | 1277.8 | 1264.9 |
| 25° | 1245.1 | 1096.2 | 1018.5 | 1027.6 | 1051.2 | 1161.5 | 1333.0 | 1394.0 | 1360.8 | 1343.7 |
| 27.5° | 1286.4 | 1109.6 | 1015.8 | 1036.7 | 1063.5 | 1189.9 | 1389.8 | 1501.2 | 1466.9 | 1447.6 |
| 30° | 1357.6 | 1159.9 | 1057.1 | 1086.0 | 1118.1 | 1264.4 | 1485.1 | 1650.7 | 1601.4 | 1583.2 |
| 32.5° | 1472.3 | 1264.4 | 1184.6 | 1246.7 | 1277.8 | 1386.5 | 1628.2 | 1818.4 | 1778.2 | 1741.8 |
| 35° | 1630.3 | 1502.8 | 1493.7 | 1638.4 | 1630.9 | 1618.0 | 1803.9 | 2024.1 | 1963.6 | 1928.2 |
| 37.5° | 1847.8 | 1886.4 | 1953.9 | 2097.5 | 2092.7 | 1994.6 | 2034.8 | 2218.6 | 2187.5 | 2142.0 |
| 40° | 2119.5 | 2201.4 | 2316.1 | 2521.8 | 2457.5 | 2334.3 | 2318.2 | 2417.9 | 2392.7 | 2339.1 |
| 42.5° | 2279.7 | 2421.1 | 2639.7 | 2824.5 | 2773.1 | 2557.7 | 2539.5 | 2684.2 | 2629.0 | 2570.6 |
| 45° | 2354.1 | 2600.0 | 3028.6 | 3278.8 | 3122.9 | 2706.1 | 2699.2 | 3031.3 | 3000.3 | 2922.0 |
| 47.5° | 2388.4 | 2780.6 | 3484.0 | 3862.8 | 3571.4 | 2836.3 | 2811.1 | 3534.9 | 3494.2 | 3402.1 |
| 50° | 2426.5 | 3029.7 | 4032.7 | 4539.5 | 4113.0 | 2983.6 | 3001.9 | 4004.3 | 3987.1 | 3878.4 |
| 52.5° | 2510.0 | 3293.3 | 4708.3 | 5313.1 | 4769.9 | 3214.6 | 3329.2 | 4446.8 | 4331.1 | 4205.7 |
| 55° | 2635.4 | 3580.5 | 5411.2 | 6103.4 | 5440.1 | 3524.8 | 3683.3 | 4682.0 | 4357.3 | 4218.6 |
| 57.5° | 2496.6 | 3652.3 | 5827.5 | 6655.2 | 5737.5 | 3525.8 | 3383.9 | 4274.3 | 3832.3 | 3697.8 |
| 60° | 1981.2 | 3397.8 | 5667.3 | 6535.7 | 5484.0 | 3131.0 | 2590.9 | 3337.2 | 2903.3 | 2813.3 |
| 62.5° | 1339.4 | 2849.7 | 4989.0 | 5527.4 | 4693.8 | 2462.9 | 1683.9 | 2170.4 | 1797.5 | 1723.0 |
| 65° | 734.0 | 2125.9 | 4031.1 | 4181.6 | 3673.7 | 1720.3 | 866.3 | 941.9 | 717.4 | 684.2 |
| 67.5° | 202.5 | 1479.8 | 2966.0 | 2774.2 | 2577.5 | 1120.3 | 223.9 | 168.2 | 120.0 | 118.9 |
| 70° | 50.9 | 978.8 | 1777.1 | 1831.8 | 1580.5 | 717.4 | 42.9 | 20.4 | 16.1 | 15.5 |
| 72.5° | 21.4 | 421.1 | 843.3 | 969.2 | 809.0 | 332.2 | 15.5 | 5.9 | 4.8 | 3.8 |
| 75° | 2.7 | 33.8 | 71.8 | 108.8 | 74.5 | 35.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 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 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

LM-79-08: Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Report Prepared for

Cooper Lighting Solutions

All Brands

Data applicable to all product families using SA light engines

Report Number: SP1-2101-121-7

Luminaire Tested: IFLD-S-SA2A-735-U-T2

Test Date: 03/04/2021

Test Information

Test Method: LM-79-08
 Report Number: SP1-2101-121-7
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1
 Measurement Geometry: 4π
 Issue Date: 03/04/2021
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: STREETWORKS
 Catalog Number: **IFLD-S-SA2A-735-U-T2**
 Description: STREETWORKS INF FLOOD

PROGRAMMED @ 615mA.

Spectral Parameters

| | | | | | |
|---------------------------|--------|-----------|------|------|-------|
| CCT (K): | 3388 | CRI (Ra): | 73.1 | R9: | -34.6 |
| CIE u': | 0.2371 | R1: | 68.9 | R10: | 57.8 |
| CIE v': | 0.5177 | R2: | 81.1 | R11: | 68.6 |
| Duv: | 0.0032 | R3: | 93.1 | R12: | 53.9 |
| CIE x: | 0.4153 | R4: | 71.6 | R13: | 70.9 |
| CIE y: | 0.4030 | R5: | 69.4 | R14: | 96.2 |
| CIE z: | 0.1817 | R6: | 75.0 | | |
| Peak Wavelength (nm): | 590 | R7: | 79.5 | | |
| Dominant Wavelength (nm): | 580 | R8: | 46.4 | | |
| Purity: | 45.7 | | | | |
| Rf: | 76.9 | | | | |
| Rg: | 94.4 | | | | |



Test Conditions

Stabilization Time: 81M
 Operation Time: 12H
 Room Temperature (°C) / RH%: 25.0/30%
 Sphere Temperature (°C): 24.1

REPORT NUMBER: SP1-2101-121-7

| Measurement and Test Equipment | | | |
|--------------------------------|-----------------------|------------------|----------------------|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | IN0058 | 1/31/2021 | 7/31/2021 |
| Power Meter | IN0071 | 12/1/2020 | 12/1/2021 |
| AC Power Source | IN0063 | 12/1/2020 | 12/1/2021 |
| DC Power Source | IN0208 | 12/1/2020 | 12/1/2021 |
| Sphere Thermometer | IN0085 | 12/1/2020 | 12/1/2021 |
| Room Thermometer | IN0046 | 12/1/2020 | 12/1/2021 |

REPORT NUMBER: SP1-2101-121-7

CIE 1931 Chromaticity Diagram



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



Point lies inside the ANSI 3500K 4-step quadrangle

REPORT NUMBER: SP1-2101-121-7

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 | 2672 | 0.0 | 490 | 34553 | 4.9 | 620 | 136720 | 35.6 | 750 | 5870 | 0.0 | 880 | 4216 | 0.0 |
| 365 | 2252 | 0.0 | 495 | 44336 | 8.0 | 625 | 126308 | 27.9 | 755 | 5421 | 0.0 | 885 | 4132 | 0.0 |
| 370 | 2217 | 0.0 | 500 | 54643 | 12.1 | 630 | 114625 | 20.7 | 760 | 5097 | 0.0 | 890 | 3992 | 0.0 |
| 375 | 2697 | 0.0 | 505 | 64676 | 18.1 | 635 | 103216 | 15.5 | 765 | 4626 | 0.0 | 895 | 3214 | 0.0 |
| 380 | 3039 | 0.0 | 510 | 73825 | 25.4 | 640 | 92605 | 11.1 | 770 | 3782 | 0.0 | 900 | 2580 | 0.0 |
| 385 | 2655 | 0.0 | 515 | 81872 | 33.9 | 645 | 83234 | 8.0 | 775 | 3506 | 0.0 | 905 | 1776 | 0.0 |
| 390 | 2357 | 0.0 | 520 | 88574 | 43.0 | 650 | 73263 | 5.4 | 780 | 3507 | 0.0 | 910 | 3995 | 0.0 |
| 395 | 2186 | 0.0 | 525 | 93289 | 50.1 | 655 | 64627 | 3.7 | 785 | 3267 | 0.0 | 915 | 4288 | 0.0 |
| 400 | 2015 | 0.0 | 530 | 98393 | 57.9 | 660 | 56614 | 2.4 | 790 | 2849 | 0.0 | 920 | 2446 | 0.0 |
| 405 | 2234 | 0.0 | 535 | 103269 | 64.0 | 665 | 49537 | 1.6 | 795 | 3037 | 0.0 | 925 | 3009 | 0.0 |
| 410 | 3412 | 0.0 | 540 | 107316 | 69.9 | 670 | 42866 | 0.9 | 800 | 2716 | 0.0 | 930 | 3026 | 0.0 |
| 415 | 6135 | 0.0 | 545 | 113101 | 75.3 | 675 | 36708 | 0.6 | 805 | 2648 | 0.0 | 935 | 4734 | 0.0 |
| 420 | 12146 | 0.0 | 550 | 120690 | 82.0 | 680 | 31814 | 0.4 | 810 | 3187 | 0.0 | 940 | 3719 | 0.0 |
| 425 | 23983 | 0.1 | 555 | 128583 | 87.8 | 685 | 27485 | 0.2 | 815 | 2931 | 0.0 | 945 | 1480 | 0.0 |
| 430 | 42142 | 0.3 | 560 | 137796 | 93.6 | 690 | 23698 | 0.1 | 820 | 2717 | 0.0 | 950 | 3450 | 0.0 |
| 435 | 68228 | 0.8 | 565 | 146577 | 97.5 | 695 | 20309 | 0.1 | 825 | 2236 | 0.0 | 955 | 5051 | 0.0 |
| 440 | 99323 | 1.6 | 570 | 154581 | 100.5 | 700 | 17890 | 0.1 | 830 | 2628 | 0.0 | 960 | 3176 | 0.0 |
| 445 | 115584 | 2.4 | 575 | 162633 | 101.2 | 705 | 15500 | 0.0 | 835 | 3140 | 0.0 | 965 | 5178 | 0.0 |
| 450 | 94997 | 2.5 | 580 | 168101 | 99.9 | 710 | 13699 | 0.0 | 840 | 3675 | 0.0 | 970 | 6385 | 0.0 |
| 455 | 61433 | 2.1 | 585 | 173145 | 96.2 | 715 | 12398 | 0.0 | 845 | 3283 | 0.0 | 975 | 3810 | 0.0 |
| 460 | 43373 | 1.8 | 590 | 174675 | 90.3 | 720 | 11147 | 0.0 | 850 | 3055 | 0.0 | 980 | 4322 | 0.0 |
| 465 | 32472 | 1.7 | 595 | 173724 | 82.3 | 725 | 9761 | 0.0 | 855 | 2932 | 0.0 | 985 | 4200 | 0.0 |
| 470 | 24257 | 1.5 | 600 | 171241 | 73.8 | 730 | 8651 | 0.0 | 860 | 3382 | 0.0 | 990 | 4661 | 0.0 |
| 475 | 21690 | 1.7 | 605 | 165134 | 64.0 | 735 | 7730 | 0.0 | 865 | 2605 | 0.0 | 995 | 6746 | 0.0 |
| 480 | 23173 | 2.2 | 610 | 156652 | 53.8 | 740 | 6847 | 0.0 | 870 | 3325 | 0.0 | 1000 | 4150 | 0.0 |
| 485 | 27564 | 3.3 | 615 | 147879 | 44.6 | 745 | 6124 | 0.0 | 875 | 3325 | 0.0 | | | |

REPORT NUMBER: SP1-2101-121-7

Scotopic Flux vs. Wavelength



Scotopic Lumens: 12126

S/P: 1.36

| 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 | 2672 | 0.0 | 490 | 34553 | 53.2 | 620 | 136720 | 1.7 | 750 | 5870 | 0.0 | 880 | 4216 | 0.0 |
| 365 | 2252 | 0.0 | 495 | 44336 | 71.7 | 625 | 126308 | 1.1 | 755 | 5421 | 0.0 | 885 | 4132 | 0.0 |
| 370 | 2217 | 0.0 | 500 | 54643 | 91.4 | 630 | 114625 | 0.6 | 760 | 5097 | 0.0 | 890 | 3992 | 0.0 |
| 375 | 2697 | 0.0 | 505 | 64676 | 110.0 | 635 | 103216 | 0.4 | 765 | 4626 | 0.0 | 895 | 3214 | 0.0 |
| 380 | 3039 | 0.0 | 510 | 73825 | 125.1 | 640 | 92605 | 0.2 | 770 | 3782 | 0.0 | 900 | 2580 | 0.0 |
| 385 | 2655 | 0.0 | 515 | 81872 | 135.7 | 645 | 83234 | 0.1 | 775 | 3506 | 0.0 | 905 | 1776 | 0.0 |
| 390 | 2357 | 0.0 | 520 | 88574 | 140.8 | 650 | 73263 | 0.1 | 780 | 3507 | 0.0 | 910 | 3995 | 0.0 |
| 395 | 2186 | 0.0 | 525 | 93289 | 139.6 | 655 | 64627 | 0.1 | 785 | 3267 | 0.0 | 915 | 4288 | 0.0 |
| 400 | 2015 | 0.0 | 530 | 98393 | 135.7 | 660 | 56614 | 0.0 | 790 | 2849 | 0.0 | 920 | 2446 | 0.0 |
| 405 | 2234 | 0.1 | 535 | 103269 | 128.7 | 665 | 49537 | 0.0 | 795 | 3037 | 0.0 | 925 | 3009 | 0.0 |
| 410 | 3412 | 0.2 | 540 | 107316 | 118.6 | 670 | 42866 | 0.0 | 800 | 2716 | 0.0 | 930 | 3026 | 0.0 |
| 415 | 6135 | 0.6 | 545 | 113101 | 108.4 | 675 | 36708 | 0.0 | 805 | 2648 | 0.0 | 935 | 4734 | 0.0 |
| 420 | 12146 | 2.0 | 550 | 120690 | 98.7 | 680 | 31814 | 0.0 | 810 | 3187 | 0.0 | 940 | 3719 | 0.0 |
| 425 | 23983 | 5.9 | 555 | 128583 | 87.9 | 685 | 27485 | 0.0 | 815 | 2931 | 0.0 | 945 | 1480 | 0.0 |
| 430 | 42142 | 14.3 | 560 | 137796 | 77.0 | 690 | 23698 | 0.0 | 820 | 2717 | 0.0 | 950 | 3450 | 0.0 |
| 435 | 68228 | 30.5 | 565 | 146577 | 65.8 | 695 | 20309 | 0.0 | 825 | 2236 | 0.0 | 955 | 5051 | 0.0 |
| 440 | 99323 | 55.5 | 570 | 154581 | 54.6 | 700 | 17890 | 0.0 | 830 | 2628 | 0.0 | 960 | 3176 | 0.0 |
| 445 | 115584 | 77.4 | 575 | 162633 | 44.3 | 705 | 15500 | 0.0 | 835 | 3140 | 0.0 | 965 | 5178 | 0.0 |
| 450 | 94997 | 73.6 | 580 | 168101 | 34.6 | 710 | 13699 | 0.0 | 840 | 3675 | 0.0 | 970 | 6385 | 0.0 |
| 455 | 61433 | 53.7 | 585 | 173145 | 26.5 | 715 | 12398 | 0.0 | 845 | 3283 | 0.0 | 975 | 3810 | 0.0 |
| 460 | 43373 | 41.9 | 590 | 174675 | 19.5 | 720 | 11147 | 0.0 | 850 | 3055 | 0.0 | 980 | 4322 | 0.0 |
| 465 | 32472 | 34.3 | 595 | 173724 | 13.9 | 725 | 9761 | 0.0 | 855 | 2932 | 0.0 | 985 | 4200 | 0.0 |
| 470 | 24257 | 27.9 | 600 | 171241 | 9.7 | 730 | 8651 | 0.0 | 860 | 3382 | 0.0 | 990 | 4661 | 0.0 |
| 475 | 21690 | 27.1 | 605 | 165134 | 6.5 | 735 | 7730 | 0.0 | 865 | 2605 | 0.0 | 995 | 6746 | 0.0 |
| 480 | 23173 | 31.3 | 610 | 156652 | 4.2 | 740 | 6847 | 0.0 | 870 | 3325 | 0.0 | 1000 | 4150 | 0.0 |
| 485 | 27564 | 40.0 | 615 | 147879 | 2.7 | 745 | 6124 | 0.0 | 875 | 3325 | 0.0 | | | |

REPORT NUMBER: SP1-2101-121-7

Melanopic Flux vs. Wavelength



Melanopic Lumens: 4490.7 M/P: 0.5

| 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 | 2672 | 0.0 | 490 | 34553 | 28.8 | 620 | 136720 | 0.1 | 750 | 5870 | 0.0 | 880 | 4216 | 0.0 |
| 365 | 2252 | 0.0 | 495 | 44336 | 36.6 | 625 | 126308 | 0.1 | 755 | 5421 | 0.0 | 885 | 4132 | 0.0 |
| 370 | 2217 | 0.0 | 500 | 54643 | 43.9 | 630 | 114625 | 0.0 | 760 | 5097 | 0.0 | 890 | 3992 | 0.0 |
| 375 | 2697 | 0.0 | 505 | 64676 | 49.6 | 635 | 103216 | 0.0 | 765 | 4626 | 0.0 | 895 | 3214 | 0.0 |
| 380 | 3039 | 0.0 | 510 | 73825 | 53.0 | 640 | 92605 | 0.0 | 770 | 3782 | 0.0 | 900 | 2580 | 0.0 |
| 385 | 2655 | 0.0 | 515 | 81872 | 53.5 | 645 | 83234 | 0.0 | 775 | 3506 | 0.0 | 905 | 1776 | 0.0 |
| 390 | 2357 | 0.0 | 520 | 88574 | 51.6 | 650 | 73263 | 0.0 | 780 | 3507 | 0.0 | 910 | 3995 | 0.0 |
| 395 | 2186 | 0.0 | 525 | 93289 | 47.3 | 655 | 64627 | 0.0 | 785 | 3267 | 0.0 | 915 | 4288 | 0.0 |
| 400 | 2015 | 0.0 | 530 | 98393 | 42.5 | 660 | 56614 | 0.0 | 790 | 2849 | 0.0 | 920 | 2446 | 0.0 |
| 405 | 2234 | 0.0 | 535 | 103269 | 37.2 | 665 | 49537 | 0.0 | 795 | 3037 | 0.0 | 925 | 3009 | 0.0 |
| 410 | 3412 | 0.1 | 540 | 107316 | 31.4 | 670 | 42866 | 0.0 | 800 | 2716 | 0.0 | 930 | 3026 | 0.0 |
| 415 | 6135 | 0.4 | 545 | 113101 | 26.3 | 675 | 36708 | 0.0 | 805 | 2648 | 0.0 | 935 | 4734 | 0.0 |
| 420 | 12146 | 1.4 | 550 | 120690 | 21.7 | 680 | 31814 | 0.0 | 810 | 3187 | 0.0 | 940 | 3719 | 0.0 |
| 425 | 23983 | 3.7 | 555 | 128583 | 17.3 | 685 | 27485 | 0.0 | 815 | 2931 | 0.0 | 945 | 1480 | 0.0 |
| 430 | 42142 | 8.9 | 560 | 137796 | 13.6 | 690 | 23698 | 0.0 | 820 | 2717 | 0.0 | 950 | 3450 | 0.0 |
| 435 | 68228 | 18.2 | 565 | 146577 | 10.3 | 695 | 20309 | 0.0 | 825 | 2236 | 0.0 | 955 | 5051 | 0.0 |
| 440 | 99323 | 33.2 | 570 | 154581 | 7.6 | 700 | 17890 | 0.0 | 830 | 2628 | 0.0 | 960 | 3176 | 0.0 |
| 445 | 115584 | 45.6 | 575 | 162633 | 5.4 | 705 | 15500 | 0.0 | 835 | 3140 | 0.0 | 965 | 5178 | 0.0 |
| 450 | 94997 | 43.8 | 580 | 168101 | 3.8 | 710 | 13699 | 0.0 | 840 | 3675 | 0.0 | 970 | 6385 | 0.0 |
| 455 | 61433 | 32.2 | 585 | 173145 | 2.6 | 715 | 12398 | 0.0 | 845 | 3283 | 0.0 | 975 | 3810 | 0.0 |
| 460 | 43373 | 25.6 | 590 | 174675 | 1.7 | 720 | 11147 | 0.0 | 850 | 3055 | 0.0 | 980 | 4322 | 0.0 |
| 465 | 32472 | 21.2 | 595 | 173724 | 1.1 | 725 | 9761 | 0.0 | 855 | 2932 | 0.0 | 985 | 4200 | 0.0 |
| 470 | 24257 | 17.4 | 600 | 171241 | 0.7 | 730 | 8651 | 0.0 | 860 | 3382 | 0.0 | 990 | 4661 | 0.0 |
| 475 | 21690 | 16.6 | 605 | 165134 | 0.5 | 735 | 7730 | 0.0 | 865 | 2605 | 0.0 | 995 | 6746 | 0.0 |
| 480 | 23173 | 18.6 | 610 | 156652 | 0.3 | 740 | 6847 | 0.0 | 870 | 3325 | 0.0 | 1000 | 4150 | 0.0 |
| 485 | 27564 | 22.7 | 615 | 147879 | 0.2 | 745 | 6124 | 0.0 | 875 | 3325 | 0.0 | | | |

Summary

$R_f = 76.9$
 $R_g = 94.4$
 $CIE R_a = 73.1$
 $R_g = -34.6$



Color Vector Graphics



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

| | | | |
|------------|------------|------------|------------|
| CES01 = 86 | CES26 = 68 | CES51 = 90 | CES76 = 63 |
| CES02 = 62 | CES27 = 88 | CES52 = 89 | CES77 = 80 |
| CES03 = 31 | CES28 = 87 | CES53 = 80 | CES78 = 65 |
| CES04 = 70 | CES29 = 67 | CES54 = 84 | CES79 = 87 |
| CES05 = 48 | CES30 = 74 | CES55 = 84 | CES80 = 86 |
| CES06 = 51 | CES31 = 71 | CES56 = 75 | CES81 = 75 |
| CES07 = 40 | CES32 = 67 | CES57 = 74 | CES82 = 94 |
| CES08 = 39 | CES33 = 74 | CES58 = 76 | CES83 = 91 |
| CES09 = 29 | CES34 = 78 | CES59 = 87 | CES84 = 89 |
| CES10 = 75 | CES35 = 89 | CES60 = 93 | CES85 = 80 |
| CES11 = 58 | CES36 = 98 | CES61 = 86 | CES86 = 66 |
| CES12 = 64 | CES37 = 86 | CES62 = 89 | CES87 = 79 |
| CES13 = 43 | CES38 = 82 | CES63 = 77 | CES88 = 79 |
| CES14 = 74 | CES39 = 95 | CES64 = 74 | CES89 = 70 |
| CES15 = 71 | CES40 = 91 | CES65 = 68 | CES90 = 77 |
| CES16 = 47 | CES41 = 89 | CES66 = 71 | CES91 = 88 |
| CES17 = 50 | CES42 = 88 | CES67 = 69 | CES92 = 60 |
| CES18 = 56 | CES43 = 82 | CES68 = 74 | CES93 = 77 |
| CES19 = 72 | CES44 = 99 | CES69 = 82 | CES94 = 52 |
| CES20 = 65 | CES45 = 87 | CES70 = 67 | CES95 = 69 |
| CES21 = 86 | CES46 = 82 | CES71 = 66 | CES96 = 78 |
| CES22 = 79 | CES47 = 82 | CES72 = 88 | CES97 = 85 |
| CES23 = 92 | CES48 = 72 | CES73 = 59 | CES98 = 76 |
| CES24 = 91 | CES49 = 82 | CES74 = 97 | CES99 = 63 |
| CES25 = 72 | CES50 = 88 | CES75 = 66 | |



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)