

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: P629682

Luminaire Tested: GWS-SA1C-727-U-SLL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P629682
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-39)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1C-727-U-SLL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (16) 2700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3128.9 lumens
Efficiency: N/A
Efficacy: 91.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

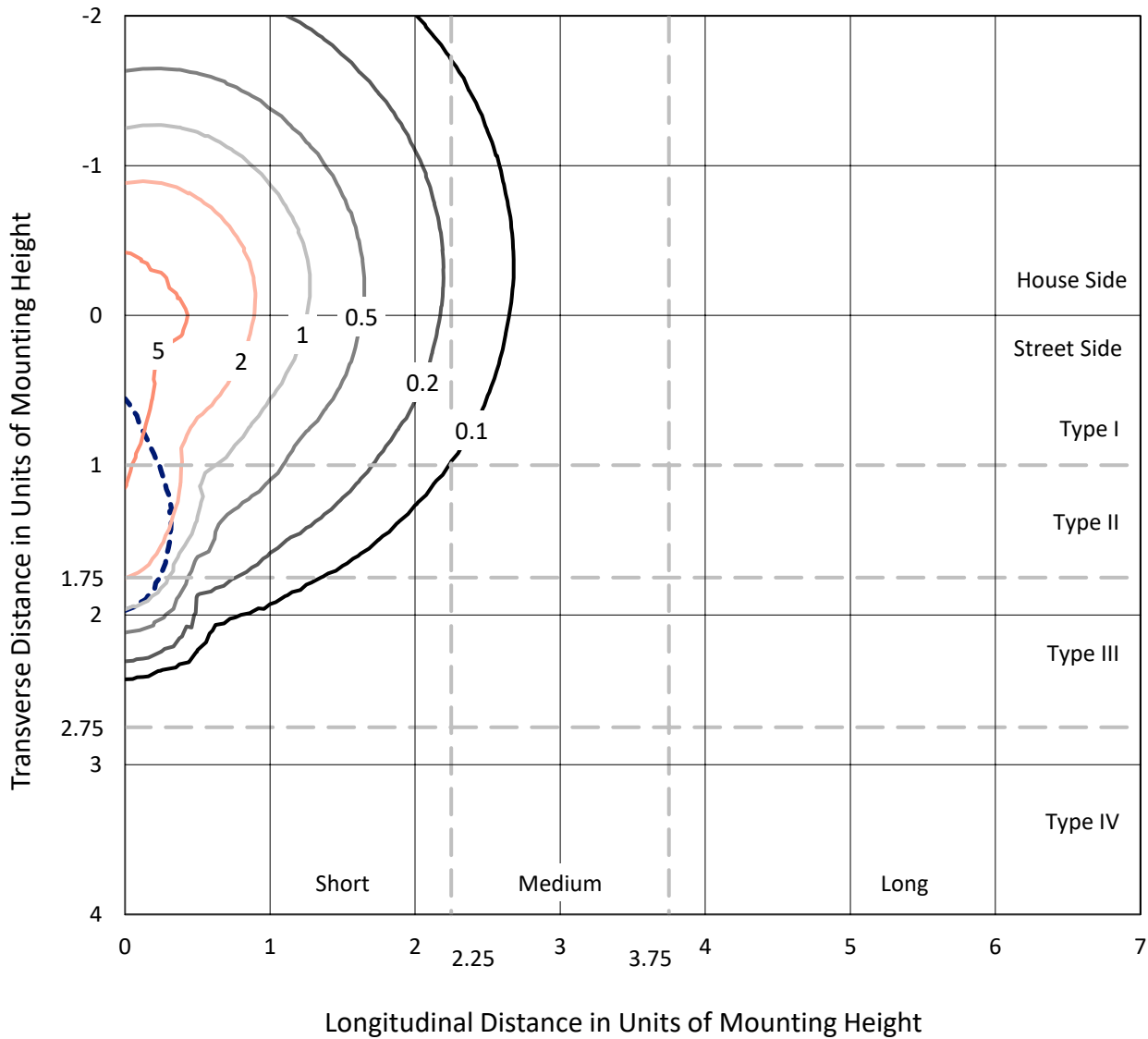
Input Watts (W): 34.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P629682
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Iso-Footcandle Lines of Horizontal Illumination

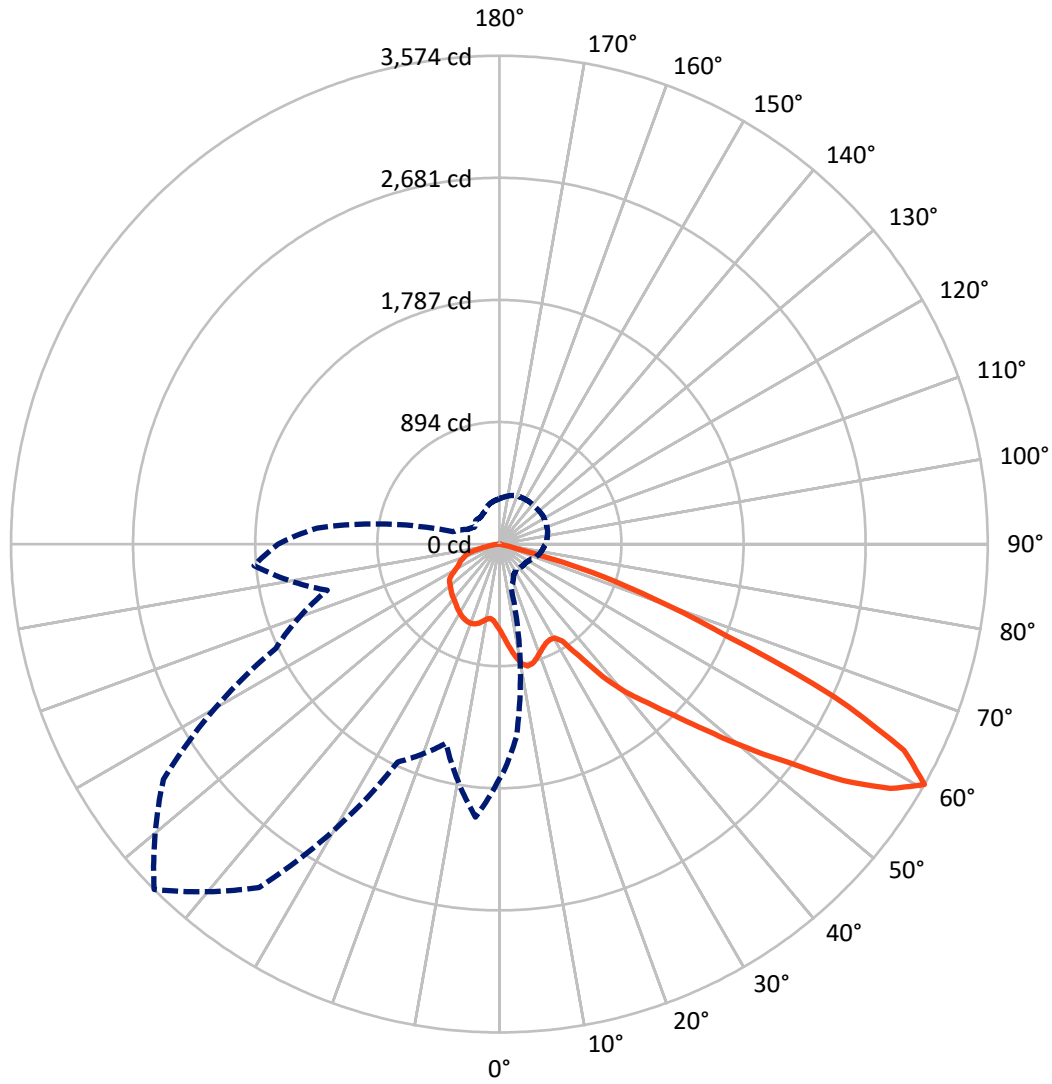
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1070.4 | 0.0 | 1070.4 |
| | % Fixture | 34.2 | 0.0 | 34.2 |
| Street Side | Lumens | 2058.5 | 0.0 | 2058.5 |
| | % Fixture | 65.8 | 0.0 | 65.8 |
| Total | Lumens | 3128.9 | 0.0 | 3128.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 61.7 | 2.0 |
| 10°-20° | 197.8 | 6.3 |
| 20°-30° | 322.1 | 10.3 |
| 30°-40° | 452.4 | 14.5 |
| 40°-50° | 619.1 | 19.8 |
| 50°-60° | 794.3 | 25.4 |
| 60°-70° | 534.8 | 17.1 |
| 70°-80° | 133.7 | 4.3 |
| 80°-90° | 13.0 | 0.4 |
| 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° | 3128.9 | 100.0 |
| 0°-180° | 3128.9 | 100.0 |

Coefficient of Utilization



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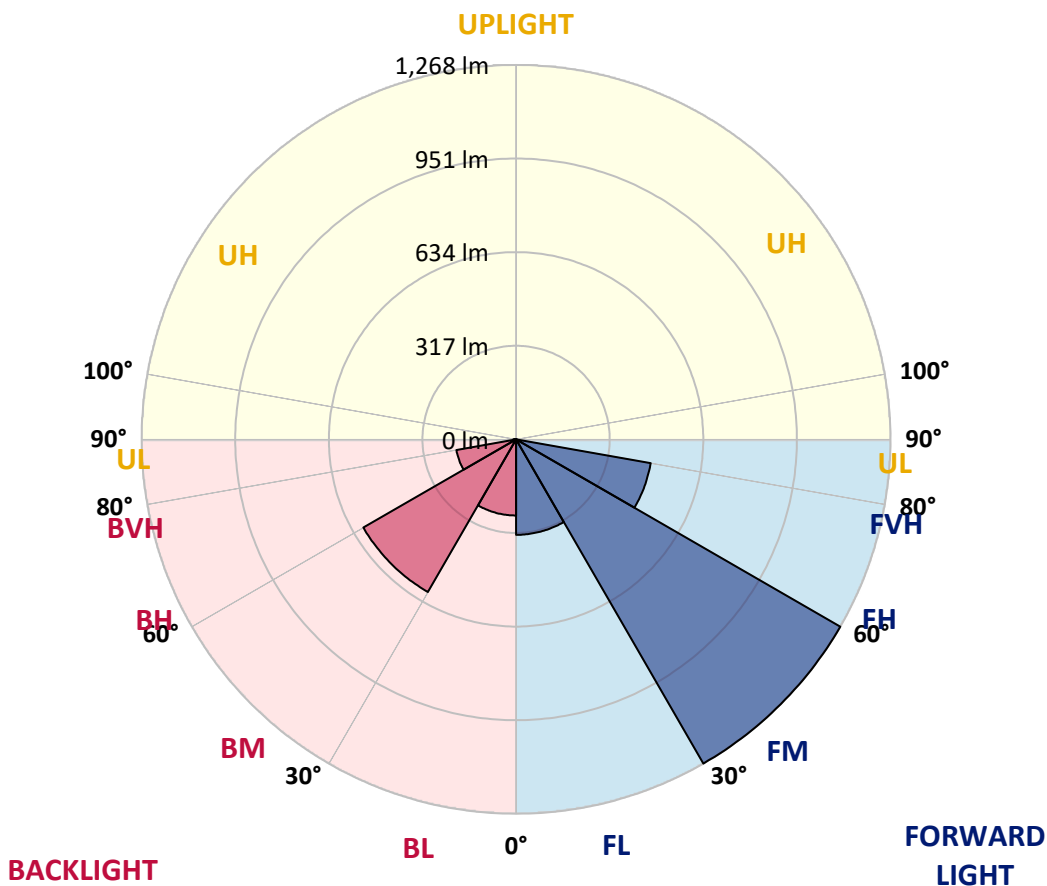
CATALOG NUMBER: GWS-SA1C-727-U-SLL-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 323.5 | 10.3 | | | |
| FM (30°-60°) | 1268.5 | 40.5 | | | |
| FH (60°-80°) | 463.2 | 14.8 | | | G0/660 |
| FVH (80°-90°) | 3.4 | 0.1 | | | G0/10 |
| BL (0°-30°) | 258.0 | 8.2 | B1/500 | | |
| BM (30°-60°) | 597.4 | 19.1 | B1/1000 | | |
| BH (60°-80°) | 205.3 | 6.6 | B1/500 | | G1/500 |
| BVH (80°-90°) | 9.6 | 0.3 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 631.1 | 631.1 | 631.1 | 631.1 | 631.1 | 631.1 | 631.1 | 631.1 | 631.1 | 631.1 | 631.1 |
| 2.5° | 667.7 | 666.2 | 664.8 | 653.5 | 650.7 | 642.6 | 636.8 | 629.6 | 619.3 | 613.5 | 608.6 |
| 5° | 709.4 | 707.1 | 699.4 | 676.3 | 661.3 | 644.9 | 631.4 | 616.4 | 600.5 | 590.1 | 582.1 |
| 7.5° | 748.9 | 748.3 | 735.1 | 697.1 | 672.8 | 649.2 | 630.8 | 608.9 | 586.1 | 570.6 | 560.2 |
| 10° | 785.5 | 781.2 | 765.3 | 715.8 | 684.1 | 657.0 | 637.1 | 612.9 | 586.4 | 565.4 | 551.5 |
| 12.5° | 817.8 | 812.3 | 790.4 | 733.1 | 693.9 | 660.5 | 638.8 | 619.0 | 601.4 | 583.8 | 568.0 |
| 15° | 844.3 | 837.7 | 815.5 | 749.2 | 702.5 | 658.4 | 628.2 | 612.6 | 618.7 | 626.5 | 608.9 |
| 17.5° | 869.1 | 862.2 | 835.1 | 761.0 | 705.1 | 646.1 | 602.0 | 595.3 | 625.9 | 661.3 | 653.3 |
| 20° | 889.8 | 882.1 | 850.6 | 766.8 | 700.5 | 622.4 | 568.0 | 579.5 | 619.8 | 662.2 | 675.2 |
| 22.5° | 912.3 | 906.0 | 868.2 | 775.1 | 694.7 | 589.9 | 539.4 | 567.7 | 609.5 | 646.6 | 666.2 |
| 25° | 948.3 | 940.5 | 895.6 | 789.8 | 691.9 | 559.3 | 519.0 | 556.1 | 595.0 | 628.8 | 644.0 |
| 27.5° | 1000.5 | 986.1 | 933.1 | 815.5 | 695.0 | 530.5 | 506.0 | 542.0 | 578.3 | 607.1 | 619.5 |
| 30° | 1057.3 | 1040.0 | 974.6 | 842.0 | 699.6 | 512.9 | 499.1 | 525.9 | 552.7 | 581.5 | 595.0 |
| 32.5° | 1124.4 | 1109.1 | 1018.9 | 861.9 | 689.9 | 504.9 | 493.9 | 508.3 | 529.6 | 552.7 | 563.9 |
| 35° | 1204.5 | 1177.1 | 1067.3 | 878.0 | 658.2 | 493.0 | 489.3 | 489.0 | 500.2 | 522.7 | 535.4 |
| 37.5° | 1290.7 | 1261.3 | 1127.0 | 895.3 | 608.9 | 474.3 | 478.3 | 466.2 | 476.6 | 494.5 | 508.9 |
| 40° | 1361.3 | 1330.4 | 1187.2 | 918.9 | 547.2 | 444.9 | 454.1 | 441.2 | 447.5 | 466.0 | 482.1 |
| 42.5° | 1430.4 | 1397.6 | 1243.4 | 945.7 | 487.6 | 416.1 | 420.7 | 415.8 | 417.8 | 437.1 | 459.6 |
| 45° | 1521.2 | 1484.3 | 1312.6 | 964.8 | 434.0 | 393.3 | 389.0 | 380.7 | 391.3 | 416.4 | 440.3 |
| 47.5° | 1672.8 | 1628.7 | 1425.8 | 977.1 | 395.1 | 380.4 | 360.5 | 355.6 | 368.8 | 396.8 | 421.6 |
| 50° | 1850.0 | 1811.9 | 1606.8 | 976.6 | 366.0 | 369.4 | 332.8 | 328.5 | 350.4 | 378.6 | 404.9 |
| 52.5° | 1995.2 | 1956.6 | 1761.5 | 947.8 | 342.0 | 346.1 | 316.7 | 304.6 | 334.6 | 360.8 | 387.0 |
| 55° | 2112.5 | 2069.0 | 1832.7 | 827.3 | 311.8 | 308.9 | 299.1 | 276.9 | 314.7 | 342.9 | 367.4 |
| 57.5° | 2049.4 | 1997.5 | 1746.5 | 629.0 | 280.7 | 262.5 | 268.9 | 252.4 | 287.6 | 323.0 | 346.7 |
| 60° | 1718.3 | 1671.6 | 1418.9 | 334.8 | 247.0 | 219.3 | 232.5 | 235.1 | 257.9 | 299.1 | 323.3 |
| 62.5° | 1180.3 | 1146.3 | 961.6 | 203.2 | 194.8 | 176.1 | 196.8 | 215.5 | 232.5 | 267.4 | 288.4 |
| 65° | 577.5 | 567.4 | 480.9 | 130.2 | 136.3 | 142.4 | 163.1 | 185.9 | 210.9 | 241.5 | 263.7 |
| 67.5° | 159.1 | 160.2 | 145.8 | 101.7 | 107.5 | 124.2 | 140.6 | 158.8 | 183.8 | 212.1 | 234.6 |
| 70° | 70.0 | 71.2 | 73.5 | 78.4 | 89.3 | 104.6 | 121.6 | 140.3 | 163.4 | 187.0 | 208.6 |
| 72.5° | 48.7 | 49.9 | 53.3 | 59.6 | 69.4 | 83.9 | 100.0 | 117.9 | 141.8 | 161.7 | 179.5 |
| 75° | 30.0 | 30.8 | 34.0 | 39.5 | 46.1 | 57.1 | 72.9 | 89.3 | 110.4 | 128.5 | 144.4 |
| 77.5° | 15.8 | 15.3 | 17.3 | 21.0 | 26.8 | 32.6 | 43.2 | 53.6 | 68.6 | 83.3 | 96.5 |
| 80° | 8.6 | 8.4 | 9.5 | 11.5 | 13.3 | 17.9 | 25.1 | 32.0 | 40.6 | 49.0 | 56.2 |
| 82.5° | 3.7 | 3.5 | 3.7 | 4.9 | 6.1 | 8.6 | 12.7 | 17.6 | 22.5 | 28.2 | 32.9 |
| 85° | 0.0 | 0.0 | 0.0 | 0.3 | 1.4 | 2.3 | 4.3 | 6.3 | 9.2 | 12.7 | 15.6 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 | 2.6 |
| 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-SA1C-727-U-SLL-W-GRSWH

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 631.1 | 631.1 | 631.1 | 631.1 | 631.1 | 631.1 | 631.1 | 631.1 | 631.1 | 631.1 | 631.1 |
| 2.5° | 605.7 | 598.5 | 597.9 | 592.2 | 592.7 | 593.0 | 587.3 | 585.0 | 587.0 | 589.3 | 588.1 |
| 5° | 579.2 | 571.7 | 568.5 | 563.1 | 562.5 | 559.9 | 557.6 | 554.7 | 556.7 | 558.7 | 559.9 |
| 7.5° | 556.1 | 551.2 | 549.2 | 547.8 | 548.4 | 547.2 | 542.6 | 540.0 | 539.7 | 540.6 | 541.7 |
| 10° | 548.7 | 544.6 | 547.2 | 551.2 | 554.1 | 556.1 | 551.2 | 546.9 | 542.9 | 541.2 | 541.2 |
| 12.5° | 564.8 | 559.6 | 564.8 | 569.1 | 574.9 | 576.3 | 570.8 | 566.2 | 564.8 | 566.5 | 570.0 |
| 15° | 600.5 | 588.4 | 588.1 | 590.7 | 595.3 | 597.6 | 592.5 | 590.1 | 590.1 | 601.1 | 609.7 |
| 17.5° | 636.3 | 616.4 | 608.0 | 606.6 | 609.5 | 610.3 | 606.0 | 604.0 | 609.2 | 630.5 | 646.6 |
| 20° | 661.3 | 637.1 | 619.0 | 615.5 | 616.4 | 616.7 | 613.2 | 611.8 | 619.3 | 645.2 | 658.7 |
| 22.5° | 658.7 | 640.9 | 618.7 | 614.4 | 615.8 | 615.2 | 612.0 | 611.5 | 617.5 | 640.0 | 646.3 |
| 25° | 640.9 | 627.0 | 608.3 | 605.4 | 607.7 | 607.4 | 604.3 | 602.8 | 605.4 | 620.4 | 621.0 |
| 27.5° | 620.4 | 608.3 | 592.2 | 591.3 | 595.0 | 597.1 | 591.6 | 587.3 | 586.4 | 596.5 | 594.2 |
| 30° | 595.9 | 587.0 | 574.0 | 574.6 | 581.5 | 582.7 | 576.0 | 569.7 | 568.0 | 573.4 | 570.3 |
| 32.5° | 566.8 | 563.9 | 557.0 | 558.5 | 565.1 | 567.4 | 560.5 | 553.8 | 551.8 | 553.6 | 546.9 |
| 35° | 542.0 | 540.9 | 541.4 | 544.0 | 549.8 | 551.5 | 545.8 | 540.6 | 537.7 | 531.7 | 523.0 |
| 37.5° | 516.4 | 519.5 | 527.9 | 532.8 | 536.0 | 535.4 | 532.2 | 528.5 | 523.9 | 512.6 | 502.0 |
| 40° | 492.5 | 500.5 | 515.5 | 521.0 | 522.1 | 522.4 | 520.1 | 517.0 | 511.2 | 496.2 | 484.1 |
| 42.5° | 474.0 | 483.0 | 502.8 | 511.2 | 511.8 | 512.3 | 510.0 | 507.4 | 499.4 | 479.5 | 467.7 |
| 45° | 454.7 | 466.5 | 489.9 | 500.0 | 499.4 | 499.1 | 497.1 | 495.9 | 486.4 | 463.4 | 450.4 |
| 47.5° | 438.3 | 452.1 | 477.2 | 485.8 | 485.5 | 485.3 | 483.8 | 483.8 | 474.3 | 449.2 | 434.5 |
| 50° | 422.2 | 438.0 | 464.2 | 471.4 | 472.0 | 471.4 | 470.9 | 471.7 | 460.5 | 433.7 | 419.3 |
| 52.5° | 404.6 | 422.4 | 449.8 | 456.4 | 459.9 | 461.3 | 461.3 | 459.3 | 446.1 | 418.1 | 402.3 |
| 55° | 385.3 | 402.3 | 434.0 | 442.9 | 445.8 | 448.4 | 448.4 | 444.3 | 431.9 | 403.7 | 386.7 |
| 57.5° | 361.4 | 376.3 | 401.4 | 410.3 | 417.3 | 419.0 | 419.0 | 412.4 | 402.3 | 375.2 | 361.4 |
| 60° | 335.4 | 348.4 | 365.4 | 374.9 | 380.1 | 376.6 | 379.2 | 377.5 | 369.4 | 344.3 | 332.8 |
| 62.5° | 300.8 | 314.1 | 332.8 | 342.6 | 344.9 | 341.5 | 344.9 | 344.6 | 333.7 | 311.2 | 297.4 |
| 65° | 276.1 | 289.0 | 307.5 | 320.1 | 323.9 | 323.0 | 325.3 | 321.9 | 308.3 | 287.0 | 273.8 |
| 67.5° | 246.7 | 260.5 | 281.8 | 295.9 | 303.7 | 304.6 | 307.8 | 300.5 | 286.7 | 263.4 | 246.7 |
| 70° | 218.7 | 230.5 | 247.0 | 260.2 | 271.2 | 276.6 | 277.2 | 266.8 | 249.5 | 230.2 | 218.1 |
| 72.5° | 189.3 | 201.4 | 221.3 | 235.7 | 249.5 | 255.9 | 255.9 | 243.2 | 224.5 | 203.2 | 190.2 |
| 75° | 153.6 | 164.8 | 183.0 | 198.5 | 214.4 | 222.5 | 222.2 | 211.2 | 190.5 | 170.3 | 156.8 |
| 77.5° | 104.0 | 112.4 | 123.9 | 135.7 | 138.0 | 144.4 | 147.5 | 133.7 | 122.2 | 111.2 | 99.1 |
| 80° | 60.5 | 65.7 | 72.0 | 78.7 | 80.1 | 82.1 | 76.9 | 71.8 | 65.7 | 58.5 | 53.0 |
| 82.5° | 35.4 | 38.9 | 42.1 | 47.3 | 48.1 | 48.7 | 44.1 | 41.8 | 36.9 | 32.6 | 29.1 |
| 85° | 17.3 | 18.4 | 21.3 | 23.9 | 22.8 | 22.2 | 20.2 | 17.9 | 15.8 | 14.1 | 12.4 |
| 87.5° | 3.5 | 3.5 | 5.2 | 4.9 | 4.0 | 3.5 | 2.0 | 2.6 | 0.6 | 0.6 | 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: P629682

CATALOG NUMBER: GWS-SA1C-727-U-SLL-W-GRSWH

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|
| 0° | 631.1 | 631.1 | 631.1 | 631.1 | 631.1 | 631.1 | 631.1 | 631.1 | 631.1 | 631.1 | 631.1 |
| 2.5° | 591.9 | 596.8 | 602.8 | 610.9 | 620.1 | 629.9 | 639.4 | 646.6 | 653.8 | 664.5 | 662.8 |
| 5° | 561.6 | 570.0 | 579.5 | 591.9 | 606.9 | 623.9 | 642.9 | 661.9 | 682.4 | 699.6 | 707.1 |
| 7.5° | 544.0 | 553.3 | 564.5 | 580.6 | 599.9 | 620.7 | 647.5 | 678.3 | 711.5 | 734.2 | 748.3 |
| 10° | 544.0 | 555.9 | 570.6 | 586.1 | 603.1 | 624.4 | 657.6 | 696.2 | 738.8 | 768.8 | 785.2 |
| 12.5° | 575.5 | 587.3 | 590.4 | 589.9 | 599.4 | 623.0 | 665.6 | 714.9 | 765.9 | 797.6 | 817.8 |
| 15° | 624.4 | 628.5 | 604.6 | 582.7 | 584.1 | 612.6 | 669.4 | 729.9 | 789.3 | 827.3 | 849.2 |
| 17.5° | 657.3 | 646.6 | 604.0 | 565.7 | 557.6 | 595.0 | 669.4 | 744.3 | 814.0 | 857.0 | 877.4 |
| 20° | 659.9 | 633.4 | 589.3 | 549.2 | 528.5 | 571.7 | 664.8 | 755.3 | 838.0 | 885.5 | 907.4 |
| 22.5° | 637.1 | 610.9 | 573.7 | 535.1 | 504.6 | 543.5 | 657.3 | 763.6 | 858.4 | 912.3 | 939.4 |
| 25° | 611.2 | 589.3 | 557.9 | 520.7 | 488.1 | 514.9 | 650.4 | 777.7 | 887.0 | 948.6 | 976.0 |
| 27.5° | 585.8 | 567.4 | 538.9 | 508.6 | 478.9 | 490.2 | 646.1 | 798.5 | 921.0 | 1000.2 | 1023.8 |
| 30° | 561.0 | 544.3 | 518.4 | 497.1 | 474.0 | 474.0 | 642.3 | 822.4 | 965.9 | 1058.1 | 1081.7 |
| 32.5° | 536.0 | 520.1 | 499.1 | 485.8 | 471.1 | 467.7 | 631.9 | 844.9 | 1012.3 | 1121.5 | 1145.7 |
| 35° | 512.6 | 496.8 | 480.6 | 475.2 | 469.7 | 462.8 | 606.3 | 862.5 | 1057.5 | 1195.6 | 1216.3 |
| 37.5° | 490.7 | 475.5 | 463.4 | 461.9 | 462.5 | 449.5 | 565.9 | 877.2 | 1114.0 | 1271.4 | 1282.3 |
| 40° | 471.7 | 454.7 | 445.2 | 444.9 | 447.8 | 428.2 | 514.9 | 898.2 | 1178.6 | 1335.6 | 1331.0 |
| 42.5° | 454.7 | 436.8 | 425.3 | 427.9 | 426.2 | 406.9 | 465.1 | 917.5 | 1234.8 | 1395.8 | 1386.6 |
| 45° | 438.0 | 420.7 | 404.6 | 408.3 | 406.3 | 393.6 | 422.7 | 931.6 | 1297.0 | 1468.2 | 1469.3 |
| 47.5° | 421.9 | 404.9 | 388.7 | 384.1 | 383.8 | 389.6 | 390.2 | 936.2 | 1398.4 | 1584.6 | 1558.4 |
| 50° | 406.9 | 389.9 | 373.2 | 357.6 | 363.7 | 381.5 | 366.0 | 932.8 | 1550.3 | 1713.1 | 1639.9 |
| 52.5° | 391.3 | 375.2 | 356.7 | 328.8 | 344.6 | 362.2 | 344.3 | 920.4 | 1643.1 | 1826.6 | 1782.8 |
| 55° | 373.5 | 358.2 | 333.1 | 299.1 | 318.4 | 322.2 | 322.2 | 800.5 | 1682.6 | 1939.0 | 1966.1 |
| 57.5° | 349.5 | 329.4 | 289.6 | 262.2 | 279.5 | 265.1 | 298.5 | 560.2 | 1617.4 | 1903.6 | 2008.7 |
| 60° | 322.4 | 300.8 | 258.8 | 239.2 | 244.4 | 219.0 | 254.4 | 351.3 | 1340.5 | 1619.7 | 1801.9 |
| 62.5° | 286.7 | 266.8 | 232.0 | 216.7 | 206.0 | 178.7 | 204.9 | 222.2 | 918.9 | 1202.8 | 1327.0 |
| 65° | 262.8 | 240.9 | 209.8 | 189.6 | 167.7 | 143.8 | 136.0 | 145.8 | 494.2 | 673.1 | 757.0 |
| 67.5° | 234.6 | 212.9 | 183.6 | 158.2 | 140.6 | 123.3 | 109.8 | 106.3 | 169.4 | 224.2 | 242.6 |
| 70° | 207.8 | 187.0 | 162.5 | 138.9 | 121.3 | 104.3 | 91.1 | 81.5 | 78.4 | 77.8 | 76.7 |
| 72.5° | 180.4 | 161.1 | 140.6 | 118.7 | 99.4 | 83.9 | 72.0 | 61.1 | 56.5 | 55.0 | 53.6 |
| 75° | 147.8 | 132.6 | 112.1 | 88.5 | 72.9 | 58.5 | 49.3 | 42.1 | 38.0 | 36.6 | 34.9 |
| 77.5° | 95.1 | 88.2 | 70.3 | 57.1 | 44.1 | 34.9 | 30.0 | 25.4 | 22.8 | 22.2 | 20.7 |
| 80° | 50.7 | 47.3 | 38.9 | 32.9 | 26.2 | 21.3 | 18.7 | 16.1 | 14.7 | 14.1 | 13.5 |
| 82.5° | 28.2 | 25.6 | 21.6 | 19.0 | 15.3 | 13.0 | 11.5 | 10.4 | 9.5 | 9.2 | 8.9 |
| 85° | 12.7 | 11.0 | 8.6 | 8.1 | 7.2 | 6.6 | 6.3 | 5.8 | 5.5 | 5.2 | 4.9 |
| 87.5° | 0.6 | 1.2 | 1.4 | 1.2 | 1.2 | 1.7 | 2.0 | 2.0 | 1.7 | 1.7 | 1.4 |
| 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: P629682

CATALOG NUMBER: GWS-SA1C-727-U-SLL-W-GRSWH

CANDELA DISTRIBUTION (continued):

| | 285° | 295° | 305° | 315° | 325° | 335° | 345° | 355° | 359° | 360° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 631.1 | 631.1 | 631.1 | 631.1 | 631.1 | 631.1 | 631.1 | 631.1 | 631.1 | 631.1 |
| 2.5° | 673.4 | 682.1 | 682.9 | 685.8 | 682.1 | 681.2 | 675.2 | 671.7 | 668.5 | 667.7 |
| 5° | 725.9 | 743.2 | 750.1 | 755.0 | 750.4 | 748.1 | 734.8 | 721.0 | 713.2 | 709.4 |
| 7.5° | 779.8 | 805.7 | 819.2 | 825.3 | 825.9 | 815.5 | 792.7 | 766.8 | 753.8 | 748.9 |
| 10° | 827.9 | 859.9 | 877.7 | 889.3 | 885.2 | 872.5 | 841.4 | 806.3 | 789.8 | 785.5 |
| 12.5° | 863.6 | 894.2 | 908.0 | 915.5 | 915.2 | 908.3 | 878.9 | 840.8 | 822.1 | 817.8 |
| 15° | 886.7 | 904.8 | 905.7 | 907.4 | 912.3 | 921.5 | 906.3 | 871.1 | 850.4 | 844.3 |
| 17.5° | 904.8 | 897.6 | 884.1 | 879.5 | 890.4 | 916.1 | 925.3 | 896.7 | 874.3 | 869.1 |
| 20° | 916.3 | 880.0 | 856.1 | 847.2 | 859.9 | 901.6 | 936.8 | 919.8 | 896.5 | 889.8 |
| 22.5° | 925.3 | 863.6 | 825.0 | 818.9 | 832.2 | 886.1 | 948.6 | 947.2 | 921.5 | 912.3 |
| 25° | 939.4 | 852.7 | 803.1 | 798.8 | 811.2 | 878.6 | 964.5 | 984.3 | 961.6 | 948.3 |
| 27.5° | 961.6 | 851.5 | 791.9 | 790.4 | 807.4 | 885.2 | 987.2 | 1038.8 | 1010.3 | 1000.5 |
| 30° | 992.4 | 862.5 | 794.5 | 797.3 | 818.1 | 909.1 | 1022.7 | 1101.1 | 1072.5 | 1057.3 |
| 32.5° | 1036.8 | 891.8 | 833.9 | 846.3 | 861.6 | 947.5 | 1074.5 | 1168.5 | 1146.9 | 1124.4 |
| 35° | 1095.3 | 972.5 | 950.6 | 1003.4 | 989.0 | 1031.3 | 1137.1 | 1250.3 | 1224.1 | 1204.5 |
| 37.5° | 1173.4 | 1137.9 | 1158.1 | 1230.7 | 1195.9 | 1189.8 | 1213.4 | 1324.7 | 1310.3 | 1290.7 |
| 40° | 1282.9 | 1290.1 | 1327.3 | 1422.6 | 1372.2 | 1333.3 | 1307.1 | 1380.6 | 1385.5 | 1361.3 |
| 42.5° | 1355.5 | 1388.6 | 1478.3 | 1586.6 | 1517.2 | 1424.1 | 1385.5 | 1452.0 | 1452.3 | 1430.4 |
| 45° | 1382.6 | 1469.3 | 1656.6 | 1781.4 | 1665.3 | 1475.9 | 1428.7 | 1549.1 | 1546.3 | 1521.2 |
| 47.5° | 1372.8 | 1537.3 | 1841.9 | 2032.7 | 1855.4 | 1512.8 | 1422.6 | 1687.5 | 1710.8 | 1672.8 |
| 50° | 1352.3 | 1605.6 | 2058.3 | 2340.4 | 2088.9 | 1552.0 | 1413.4 | 1840.8 | 1879.4 | 1850.0 |
| 52.5° | 1373.1 | 1681.7 | 2314.2 | 2658.5 | 2381.6 | 1614.5 | 1475.7 | 2037.6 | 2030.6 | 1995.2 |
| 55° | 1438.8 | 1771.6 | 2625.1 | 3058.2 | 2703.2 | 1720.3 | 1635.6 | 2225.2 | 2154.8 | 2112.5 |
| 57.5° | 1435.6 | 1835.9 | 2897.7 | 3374.3 | 2983.0 | 1807.0 | 1691.2 | 2245.0 | 2103.0 | 2049.4 |
| 60° | 1303.1 | 1806.5 | 3001.5 | 3574.3 | 3067.4 | 1759.2 | 1508.2 | 2005.3 | 1774.5 | 1718.3 |
| 62.5° | 972.5 | 1603.0 | 2800.3 | 3323.9 | 2828.6 | 1519.5 | 1134.2 | 1439.3 | 1275.1 | 1180.3 |
| 65° | 622.1 | 1254.1 | 2354.3 | 2692.8 | 2331.5 | 1162.1 | 675.4 | 771.7 | 604.6 | 577.5 |
| 67.5° | 264.8 | 885.2 | 1830.1 | 1799.8 | 1744.2 | 753.0 | 260.8 | 217.3 | 161.9 | 159.1 |
| 70° | 87.6 | 602.3 | 1128.1 | 1200.5 | 1041.7 | 518.7 | 86.2 | 72.9 | 72.6 | 70.0 |
| 72.5° | 57.3 | 323.3 | 635.1 | 707.1 | 670.3 | 298.5 | 52.2 | 48.7 | 49.9 | 48.7 |
| 75° | 34.3 | 70.3 | 106.9 | 138.9 | 106.9 | 50.1 | 31.4 | 30.8 | 31.4 | 30.0 |
| 77.5° | 20.2 | 19.6 | 19.0 | 19.0 | 18.7 | 17.3 | 15.8 | 15.3 | 15.6 | 15.8 |
| 80° | 13.0 | 12.4 | 11.8 | 11.5 | 10.1 | 9.5 | 8.9 | 8.4 | 8.4 | 8.6 |
| 82.5° | 8.4 | 7.8 | 7.2 | 6.3 | 5.2 | 4.3 | 4.0 | 3.5 | 3.5 | 3.7 |
| 85° | 4.3 | 3.5 | 2.6 | 2.0 | 1.2 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.9 | 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 |

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: SP1-1908-441-1-R4

Test Date: 08/20/2019

Luminaire Tested: SA1C-727-U-5WQ

Test Information

Test Method: LM-79-2008
 Report Number: SP1-1908-441-1-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-727-U-5WQ**
 Description: McGRAW EDISON ROADWAY AND AREA LUMINAIRE

THIS IS A REVISION OF SP1-1908-441-1-R3. TO UPDATE THE CATALOG NUMBER.TESTED IN
 SITU. (1) 70 CRI, 2700K, 1050MA LIGHTSQUARE WITH 16 LEDS AND TYPE V WIDE OPTICS.

Spectral Parameters

CCT (K): 2741
 CIE u': 0.2605
 CIE v': 0.5272
 Duv: 0.0005
 CIE x: 0.4573
 CIE y: 0.4113
 CIE z: 0.1313
 Peak Wavelength (nm): 602
 Dominant Wavelength (nm): 583
 Purity: 61.2
 Rf: 69.9
 Rg: 98.3

| | | | |
|-----------|------|------|-------|
| CRI (Ra): | 71.5 | | |
| R1: | 69.2 | R9: | -16.1 |
| R2: | 79.4 | R10: | 51.4 |
| R3: | 87.8 | R11: | 63.1 |
| R4: | 69.4 | R12: | 42.0 |
| R5: | 66.4 | R13: | 70.2 |
| R6: | 69.8 | R14: | 92.4 |
| R7: | 79.8 | | |
| R8: | 50.1 | | |



Test Conditions

Stabilization Time: 56M
 Operation Time: 12H
 Room Temperature (°C) / RH%: 25.3./42%
 Sphere Temperature (°C): 25.7

REPORT NUMBER: SP1-1908-441-1-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: SP1-1908-441-1-R4

CIE 1931 Chromaticity Diagram



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



Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-1908-441-1-R4

Photopic Flux vs. Wavelength



Photopic Lumens: 6211.7

| 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 | 2044 | 0.0 | 490 | 7179 | 1.0 | 620 | 118034 | 30.7 | 750 | 8362 | 0.0 | 880 | 3128 | 0.0 |
| 365 | 2016 | 0.0 | 495 | 10476 | 1.9 | 625 | 111884 | 24.7 | 755 | 7635 | 0.0 | 885 | 3110 | 0.0 |
| 370 | 2020 | 0.0 | 500 | 15549 | 3.4 | 630 | 106119 | 19.2 | 760 | 6582 | 0.0 | 890 | 2632 | 0.0 |
| 375 | 2137 | 0.0 | 505 | 22477 | 6.3 | 635 | 99706 | 15.0 | 765 | 5777 | 0.0 | 895 | 2709 | 0.0 |
| 380 | 2046 | 0.0 | 510 | 30417 | 10.4 | 640 | 92142 | 11.0 | 770 | 5474 | 0.0 | 900 | 2016 | 0.0 |
| 385 | 1925 | 0.0 | 515 | 39274 | 16.3 | 645 | 84987 | 8.2 | 775 | 4977 | 0.0 | 905 | 1748 | 0.0 |
| 390 | 1893 | 0.0 | 520 | 47282 | 22.9 | 650 | 78016 | 5.7 | 780 | 4723 | 0.0 | 910 | 2046 | 0.0 |
| 395 | 1695 | 0.0 | 525 | 55413 | 29.7 | 655 | 71541 | 4.1 | 785 | 4219 | 0.0 | 915 | 1844 | 0.0 |
| 400 | 1633 | 0.0 | 530 | 62377 | 36.7 | 660 | 64863 | 2.7 | 790 | 3969 | 0.0 | 920 | 2734 | 0.0 |
| 405 | 2065 | 0.0 | 535 | 68520 | 42.5 | 665 | 58485 | 1.9 | 795 | 4122 | 0.0 | 925 | 2307 | 0.0 |
| 410 | 3449 | 0.0 | 540 | 73435 | 47.8 | 670 | 51641 | 1.1 | 800 | 2864 | 0.0 | 930 | 2039 | 0.0 |
| 415 | 7117 | 0.0 | 545 | 78677 | 52.4 | 675 | 46030 | 0.8 | 805 | 3151 | 0.0 | 935 | 1784 | 0.0 |
| 420 | 13992 | 0.0 | 550 | 83331 | 56.6 | 680 | 40590 | 0.5 | 810 | 3022 | 0.0 | 940 | 2464 | 0.0 |
| 425 | 25176 | 0.1 | 555 | 89120 | 60.9 | 685 | 35691 | 0.3 | 815 | 3471 | 0.0 | 945 | 2794 | 0.0 |
| 430 | 38151 | 0.3 | 560 | 94613 | 64.3 | 690 | 31631 | 0.2 | 820 | 2749 | 0.0 | 950 | 3090 | 0.0 |
| 435 | 49673 | 0.6 | 565 | 99818 | 66.4 | 695 | 27437 | 0.1 | 825 | 2729 | 0.0 | 955 | 1866 | 0.0 |
| 440 | 57273 | 0.9 | 570 | 106526 | 69.3 | 700 | 24589 | 0.1 | 830 | 2282 | 0.0 | 960 | 3110 | 0.0 |
| 445 | 54802 | 1.1 | 575 | 111610 | 69.4 | 705 | 21832 | 0.0 | 835 | 3140 | 0.0 | 965 | 3880 | 0.0 |
| 450 | 39184 | 1.0 | 580 | 117163 | 69.6 | 710 | 19500 | 0.0 | 840 | 2365 | 0.0 | 970 | 3243 | 0.0 |
| 455 | 22506 | 0.8 | 585 | 122201 | 67.9 | 715 | 17870 | 0.0 | 845 | 3024 | 0.0 | 975 | 2014 | 0.0 |
| 460 | 13692 | 0.6 | 590 | 125662 | 65.0 | 720 | 15924 | 0.0 | 850 | 2510 | 0.0 | 980 | 1688 | 0.0 |
| 465 | 9446 | 0.5 | 595 | 127415 | 60.4 | 725 | 14268 | 0.0 | 855 | 2739 | 0.0 | 985 | 2827 | 0.0 |
| 470 | 6698 | 0.4 | 600 | 129155 | 55.7 | 730 | 12438 | 0.0 | 860 | 3515 | 0.0 | 990 | 4172 | 0.0 |
| 475 | 5328 | 0.4 | 605 | 128057 | 49.6 | 735 | 11255 | 0.0 | 865 | 3600 | 0.0 | 995 | 3177 | 0.0 |
| 480 | 5081 | 0.5 | 610 | 126031 | 43.3 | 740 | 9951 | 0.0 | 870 | 3609 | 0.0 | 1000 | 3241 | 0.0 |
| 485 | 5579 | 0.7 | 615 | 123059 | 37.1 | 745 | 8870 | 0.0 | 875 | 3208 | 0.0 | | | |

REPORT NUMBER: SP1-1908-441-1-R4

Scotopic Flux vs. Wavelength



Scotopic Lumens: 6474.3

S/P: 1.04

| 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 | 2044 | 0.0 | 490 | 7179 | 6.0 | 620 | 118034 | 0.1 | 750 | 8362 | 0.0 | 880 | 3128 | 0.0 |
| 365 | 2016 | 0.0 | 495 | 10476 | 8.6 | 625 | 111884 | 0.1 | 755 | 7635 | 0.0 | 885 | 3110 | 0.0 |
| 370 | 2020 | 0.0 | 500 | 15549 | 12.5 | 630 | 106119 | 0.0 | 760 | 6582 | 0.0 | 890 | 2632 | 0.0 |
| 375 | 2137 | 0.0 | 505 | 22477 | 17.3 | 635 | 99706 | 0.0 | 765 | 5777 | 0.0 | 895 | 2709 | 0.0 |
| 380 | 2046 | 0.0 | 510 | 30417 | 21.8 | 640 | 92142 | 0.0 | 770 | 5474 | 0.0 | 900 | 2016 | 0.0 |
| 385 | 1925 | 0.0 | 515 | 39274 | 25.7 | 645 | 84987 | 0.0 | 775 | 4977 | 0.0 | 905 | 1748 | 0.0 |
| 390 | 1893 | 0.0 | 520 | 47282 | 27.5 | 650 | 78016 | 0.0 | 780 | 4723 | 0.0 | 910 | 2046 | 0.0 |
| 395 | 1695 | 0.0 | 525 | 55413 | 28.1 | 655 | 71541 | 0.0 | 785 | 4219 | 0.0 | 915 | 1844 | 0.0 |
| 400 | 1633 | 0.0 | 530 | 62377 | 27.0 | 660 | 64863 | 0.0 | 790 | 3969 | 0.0 | 920 | 2734 | 0.0 |
| 405 | 2065 | 0.0 | 535 | 68520 | 24.7 | 665 | 58485 | 0.0 | 795 | 4122 | 0.0 | 925 | 2307 | 0.0 |
| 410 | 3449 | 0.1 | 540 | 73435 | 21.5 | 670 | 51641 | 0.0 | 800 | 2864 | 0.0 | 930 | 2039 | 0.0 |
| 415 | 7117 | 0.5 | 545 | 78677 | 18.3 | 675 | 46030 | 0.0 | 805 | 3151 | 0.0 | 935 | 1784 | 0.0 |
| 420 | 13992 | 1.6 | 550 | 83331 | 15.0 | 680 | 40590 | 0.0 | 810 | 3022 | 0.0 | 940 | 2464 | 0.0 |
| 425 | 25176 | 3.9 | 555 | 89120 | 12.0 | 685 | 35691 | 0.0 | 815 | 3471 | 0.0 | 945 | 2794 | 0.0 |
| 430 | 38151 | 8.1 | 560 | 94613 | 9.3 | 690 | 31631 | 0.0 | 820 | 2749 | 0.0 | 950 | 3090 | 0.0 |
| 435 | 49673 | 13.3 | 565 | 99818 | 7.0 | 695 | 27437 | 0.0 | 825 | 2729 | 0.0 | 955 | 1866 | 0.0 |
| 440 | 57273 | 19.1 | 570 | 106526 | 5.2 | 700 | 24589 | 0.0 | 830 | 2282 | 0.0 | 960 | 3110 | 0.0 |
| 445 | 54802 | 21.6 | 575 | 111610 | 3.7 | 705 | 21832 | 0.0 | 835 | 3140 | 0.0 | 965 | 3880 | 0.0 |
| 450 | 39184 | 18.1 | 580 | 117163 | 2.6 | 710 | 19500 | 0.0 | 840 | 2365 | 0.0 | 970 | 3243 | 0.0 |
| 455 | 22506 | 11.8 | 585 | 122201 | 1.8 | 715 | 17870 | 0.0 | 845 | 3024 | 0.0 | 975 | 2014 | 0.0 |
| 460 | 13692 | 8.1 | 590 | 125662 | 1.2 | 720 | 15924 | 0.0 | 850 | 2510 | 0.0 | 980 | 1688 | 0.0 |
| 465 | 9446 | 6.2 | 595 | 127415 | 0.8 | 725 | 14268 | 0.0 | 855 | 2739 | 0.0 | 985 | 2827 | 0.0 |
| 470 | 6698 | 4.8 | 600 | 129155 | 0.5 | 730 | 12438 | 0.0 | 860 | 3515 | 0.0 | 990 | 4172 | 0.0 |
| 475 | 5328 | 4.1 | 605 | 128057 | 0.4 | 735 | 11255 | 0.0 | 865 | 3600 | 0.0 | 995 | 3177 | 0.0 |
| 480 | 5081 | 4.1 | 610 | 126031 | 0.2 | 740 | 9951 | 0.0 | 870 | 3609 | 0.0 | 1000 | 3241 | 0.0 |
| 485 | 5579 | 4.6 | 615 | 123059 | 0.1 | 745 | 8870 | 0.0 | 875 | 3208 | 0.0 | | | |

REPORT NUMBER: SP1-1908-441-1-R4

Melanopic Flux vs. Wavelength



Melanopic Lumens: 2145.7 M/P: 0.35

| 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 | 2044 | 0.0 | 490 | 7179 | 11.1 | 620 | 118034 | 1.5 | 750 | 8362 | 0.0 | 880 | 3128 | 0.0 |
| 365 | 2016 | 0.0 | 495 | 10476 | 16.9 | 625 | 111884 | 0.9 | 755 | 7635 | 0.0 | 885 | 3110 | 0.0 |
| 370 | 2020 | 0.0 | 500 | 15549 | 26.0 | 630 | 106119 | 0.6 | 760 | 6582 | 0.0 | 890 | 2632 | 0.0 |
| 375 | 2137 | 0.0 | 505 | 22477 | 38.2 | 635 | 99706 | 0.4 | 765 | 5777 | 0.0 | 895 | 2709 | 0.0 |
| 380 | 2046 | 0.0 | 510 | 30417 | 51.6 | 640 | 92142 | 0.2 | 770 | 5474 | 0.0 | 900 | 2016 | 0.0 |
| 385 | 1925 | 0.0 | 515 | 39274 | 65.1 | 645 | 84987 | 0.1 | 775 | 4977 | 0.0 | 905 | 1748 | 0.0 |
| 390 | 1893 | 0.0 | 520 | 47282 | 75.2 | 650 | 78016 | 0.1 | 780 | 4723 | 0.0 | 910 | 2046 | 0.0 |
| 395 | 1695 | 0.0 | 525 | 55413 | 82.9 | 655 | 71541 | 0.1 | 785 | 4219 | 0.0 | 915 | 1844 | 0.0 |
| 400 | 1633 | 0.0 | 530 | 62377 | 86.0 | 660 | 64863 | 0.0 | 790 | 3969 | 0.0 | 920 | 2734 | 0.0 |
| 405 | 2065 | 0.1 | 535 | 68520 | 85.4 | 665 | 58485 | 0.0 | 795 | 4122 | 0.0 | 925 | 2307 | 0.0 |
| 410 | 3449 | 0.2 | 540 | 73435 | 81.1 | 670 | 51641 | 0.0 | 800 | 2864 | 0.0 | 930 | 2039 | 0.0 |
| 415 | 7117 | 0.7 | 545 | 78677 | 75.4 | 675 | 46030 | 0.0 | 805 | 3151 | 0.0 | 935 | 1784 | 0.0 |
| 420 | 13992 | 2.3 | 550 | 83331 | 68.1 | 680 | 40590 | 0.0 | 810 | 3022 | 0.0 | 940 | 2464 | 0.0 |
| 425 | 25176 | 6.2 | 555 | 89120 | 60.9 | 685 | 35691 | 0.0 | 815 | 3471 | 0.0 | 945 | 2794 | 0.0 |
| 430 | 38151 | 13.0 | 560 | 94613 | 52.9 | 690 | 31631 | 0.0 | 820 | 2749 | 0.0 | 950 | 3090 | 0.0 |
| 435 | 49673 | 22.2 | 565 | 99818 | 44.8 | 695 | 27437 | 0.0 | 825 | 2729 | 0.0 | 955 | 1866 | 0.0 |
| 440 | 57273 | 32.0 | 570 | 106526 | 37.6 | 700 | 24589 | 0.0 | 830 | 2282 | 0.0 | 960 | 3110 | 0.0 |
| 445 | 54802 | 36.7 | 575 | 111610 | 30.4 | 705 | 21832 | 0.0 | 835 | 3140 | 0.0 | 965 | 3880 | 0.0 |
| 450 | 39184 | 30.4 | 580 | 117163 | 24.1 | 710 | 19500 | 0.0 | 840 | 2365 | 0.0 | 970 | 3243 | 0.0 |
| 455 | 22506 | 19.7 | 585 | 122201 | 18.7 | 715 | 17870 | 0.0 | 845 | 3024 | 0.0 | 975 | 2014 | 0.0 |
| 460 | 13692 | 13.2 | 590 | 125662 | 14.0 | 720 | 15924 | 0.0 | 850 | 2510 | 0.0 | 980 | 1688 | 0.0 |
| 465 | 9446 | 10.0 | 595 | 127415 | 10.2 | 725 | 14268 | 0.0 | 855 | 2739 | 0.0 | 985 | 2827 | 0.0 |
| 470 | 6698 | 7.7 | 600 | 129155 | 7.3 | 730 | 12438 | 0.0 | 860 | 3515 | 0.0 | 990 | 4172 | 0.0 |
| 475 | 5328 | 6.7 | 605 | 128057 | 5.0 | 735 | 11255 | 0.0 | 865 | 3600 | 0.0 | 995 | 3177 | 0.0 |
| 480 | 5081 | 6.9 | 610 | 126031 | 3.4 | 740 | 9951 | 0.0 | 870 | 3609 | 0.0 | 1000 | 3241 | 0.0 |
| 485 | 5579 | 8.1 | 615 | 123059 | 2.3 | 745 | 8870 | 0.0 | 875 | 3208 | 0.0 | | | |

REPORT NUMBER: SP1-1908-441-1-R4

TM-30-18

Summary

$R_f = 69.9$
 $R_g = 98.3$
 $CIE R_a = 71.5$
 $R_g = -16.1$



Color Vector Graphics



REPORT NUMBER: SP1-1908-441-1-R4

TM-30-18

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

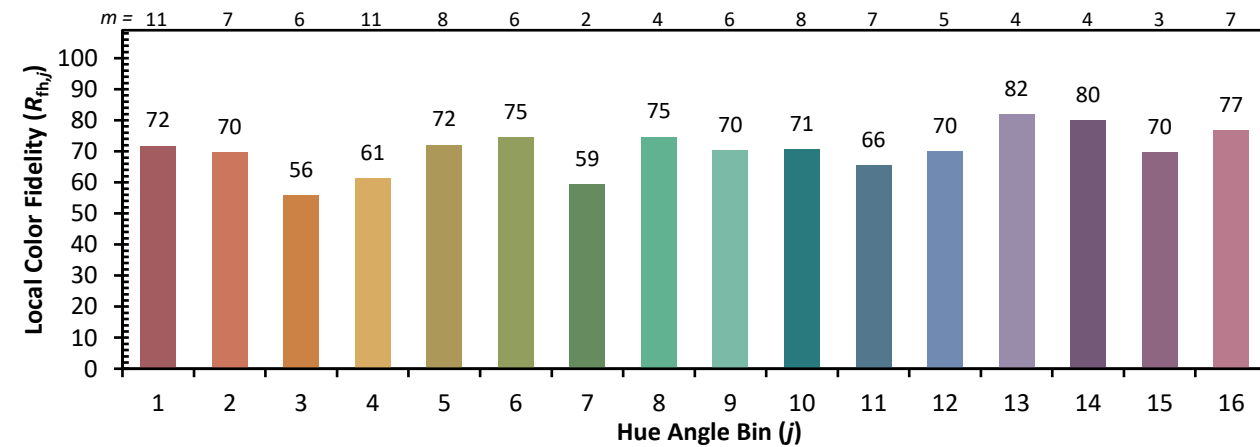
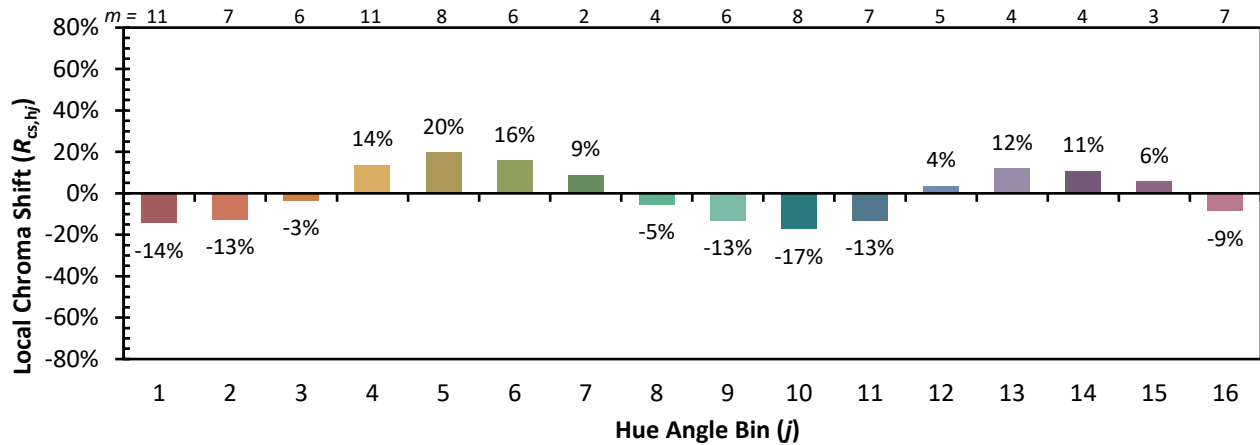
| | | | |
|------------|------------|------------|------------|
| CES01 = 86 | CES26 = 54 | CES51 = 77 | CES76 = 48 |
| CES02 = 63 | CES27 = 74 | CES52 = 80 | CES77 = 75 |
| CES03 = 31 | CES28 = 80 | CES53 = 66 | CES78 = 56 |
| CES04 = 71 | CES29 = 44 | CES54 = 77 | CES79 = 81 |
| CES05 = 50 | CES30 = 46 | CES55 = 74 | CES80 = 80 |
| CES06 = 52 | CES31 = 50 | CES56 = 63 | CES81 = 73 |
| CES07 = 42 | CES32 = 49 | CES57 = 60 | CES82 = 91 |
| CES08 = 41 | CES33 = 53 | CES58 = 63 | CES83 = 84 |
| CES09 = 29 | CES34 = 66 | CES59 = 85 | CES84 = 90 |
| CES10 = 77 | CES35 = 82 | CES60 = 89 | CES85 = 87 |
| CES11 = 60 | CES36 = 78 | CES61 = 85 | CES86 = 65 |
| CES12 = 66 | CES37 = 75 | CES62 = 69 | CES87 = 78 |
| CES13 = 43 | CES38 = 53 | CES63 = 68 | CES88 = 73 |
| CES14 = 74 | CES39 = 91 | CES64 = 68 | CES89 = 68 |
| CES15 = 71 | CES40 = 85 | CES65 = 65 | CES90 = 68 |
| CES16 = 48 | CES41 = 76 | CES66 = 62 | CES91 = 91 |
| CES17 = 50 | CES42 = 76 | CES67 = 60 | CES92 = 71 |
| CES18 = 57 | CES43 = 65 | CES68 = 68 | CES93 = 82 |
| CES19 = 73 | CES44 = 98 | CES69 = 77 | CES94 = 57 |
| CES20 = 67 | CES45 = 75 | CES70 = 60 | CES95 = 78 |
| CES21 = 88 | CES46 = 70 | CES71 = 57 | CES96 = 80 |
| CES22 = 80 | CES47 = 63 | CES72 = 86 | CES97 = 79 |
| CES23 = 92 | CES48 = 51 | CES73 = 52 | CES98 = 71 |
| CES24 = 91 | CES49 = 68 | CES74 = 90 | CES99 = 64 |
| CES25 = 73 | CES50 = 77 | CES75 = 58 | |



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Color Rendition by Hue-Angle Bin



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Measure Comparisons



(END OF REPORT)