

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: P631717

Luminaire Tested: GWS-SA2B-730-U-SLL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631717
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-37)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2B-730-U-SLL-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS
Light Source: (32) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5889.9 lumens
Efficiency: N/A
Efficacy: 126.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

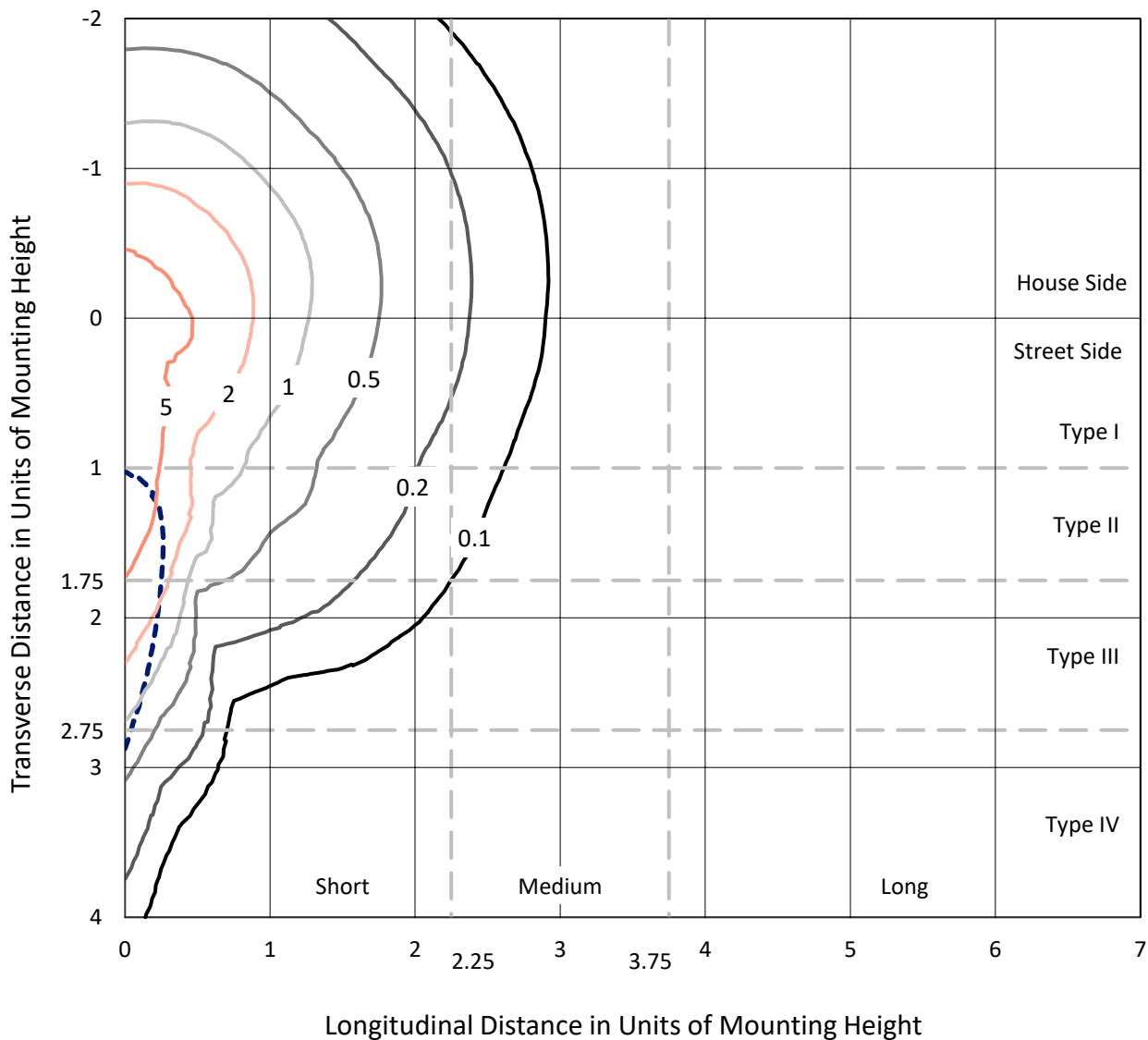
Input Watts (W): 46.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P631717
 CATALOG NUMBER: GWS-SA2B-730-U-SLL-W

Iso-Footcandle Lines of Horizontal Illumination

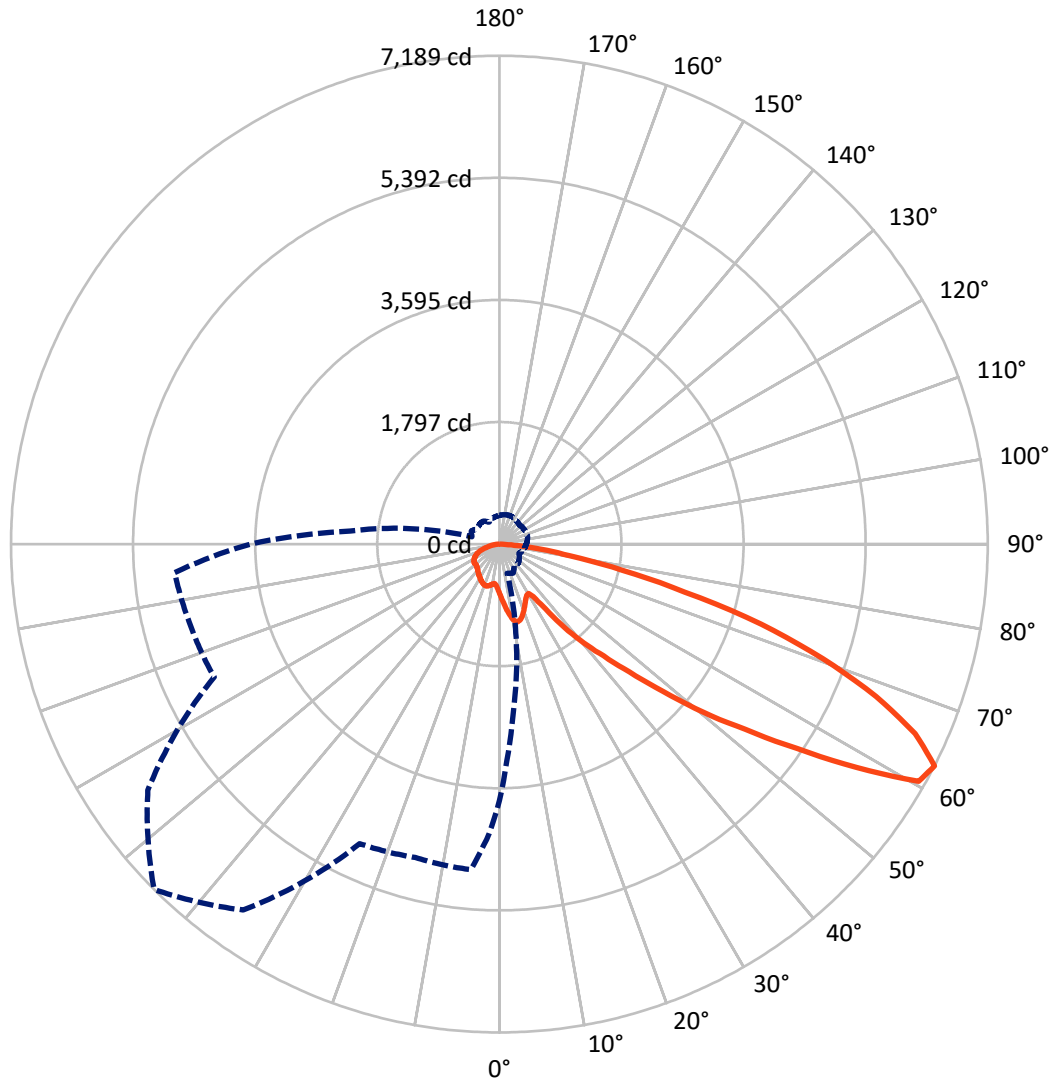
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.8 fc
 Type III - Short - N/A

REPORT NUMBER: P631717
CATALOG NUMBER: GWS-SA2B-730-U-SLL-W

Luminous Intensity Polar Plot



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

REPORT NUMBER: P631717

CATALOG NUMBER: GWS-SA2B-730-U-SLL-W

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1408.3 | 0.0 | 1408.3 |
| | % Fixture | 23.9 | 0.0 | 23.9 |
| Street Side | Lumens | 4481.6 | 0.0 | 4481.6 |
| | % Fixture | 76.1 | 0.0 | 76.1 |
| Total | Lumens | 5889.9 | 0.0 | 5889.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 72.3 | 1.2 |
| 10°-20° | 235.1 | 4.0 |
| 20°-30° | 370.1 | 6.3 |
| 30°-40° | 507.3 | 8.6 |
| 40°-50° | 791.6 | 13.4 |
| 50°-60° | 1364.9 | 23.2 |
| 60°-70° | 1581.7 | 26.9 |
| 70°-80° | 834.9 | 14.2 |
| 80°-90° | 131.9 | 2.2 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-90° | 5889.9 | 100.0 |
| 0°-180° | 5889.9 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P631717

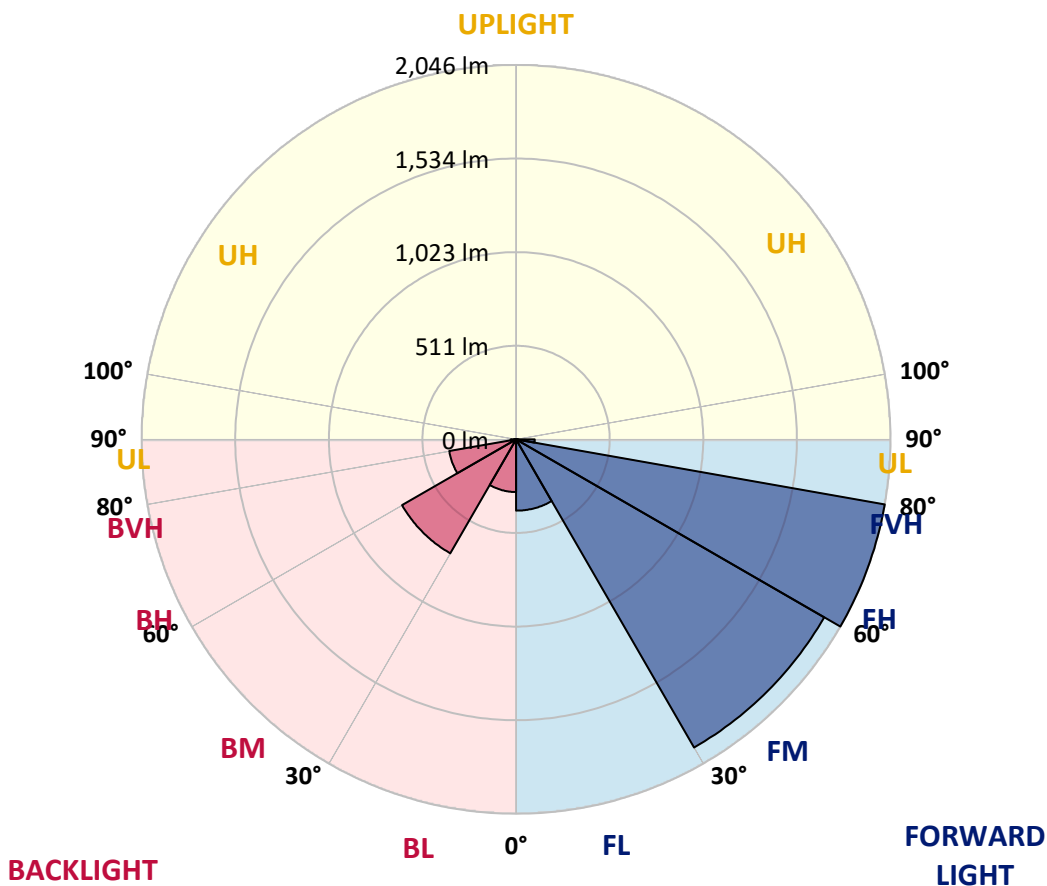
CATALOG NUMBER: GWS-SA2B-730-U-SLL-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 389.5 | 6.6 | | | |
| FM (30°-60°) | 1944.5 | 33.0 | | | |
| FH (60°-80°) | 2045.8 | 34.7 | | | G2/5000 |
| FVH (80°-90°) | 101.8 | 1.7 | | | G2/225 |
| BL (0°-30°) | 288.0 | 4.9 | B1/500 | | |
| BM (30°-60°) | 719.3 | 12.2 | B1/1000 | | |
| BH (60°-80°) | 370.8 | 6.3 | B1/500 | | G1/500 |
| BVH (80°-90°) | 30.1 | 0.5 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2

Type III Short





REPORT NUMBER: P631717
 CATALOG NUMBER: GWS-SA2B-730-U-SLL-W

CANDELA DISTRIBUTION (FULL):

| | 0° | 2° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 734.3 | 734.3 | 734.3 | 734.3 | 734.3 | 734.3 | 734.3 | 734.3 | 734.3 | 734.3 | 734.3 |
| 2.5° | 797.9 | 794.7 | 790.2 | 774.9 | 765.4 | 754.6 | 743.4 | 730.3 | 715.4 | 705.1 | 694.7 |
| 5° | 865.5 | 860.5 | 849.7 | 813.2 | 788.0 | 760.5 | 737.5 | 711.4 | 685.7 | 668.1 | 650.6 |
| 7.5° | 930.3 | 924.0 | 907.3 | 851.5 | 810.5 | 770.8 | 736.2 | 698.3 | 660.0 | 633.9 | 613.2 |
| 10° | 995.2 | 982.1 | 961.0 | 888.0 | 833.9 | 788.0 | 748.3 | 701.9 | 651.0 | 615.4 | 593.3 |
| 12.5° | 1044.8 | 1032.6 | 1009.6 | 921.3 | 857.3 | 799.7 | 755.1 | 712.3 | 669.0 | 631.2 | 608.7 |
| 15° | 1091.2 | 1075.4 | 1049.3 | 952.4 | 876.7 | 799.2 | 741.6 | 704.2 | 697.9 | 688.4 | 659.1 |
| 17.5° | 1124.5 | 1110.1 | 1083.1 | 977.6 | 887.5 | 785.3 | 704.2 | 682.1 | 710.5 | 739.3 | 711.4 |
| 20° | 1153.8 | 1137.1 | 1109.6 | 995.2 | 889.8 | 754.2 | 658.7 | 659.1 | 703.7 | 743.4 | 736.6 |
| 22.5° | 1178.6 | 1160.1 | 1135.8 | 1015.0 | 888.9 | 710.9 | 619.0 | 646.0 | 690.6 | 721.7 | 722.6 |
| 25° | 1209.2 | 1193.9 | 1173.6 | 1044.3 | 888.9 | 666.8 | 590.2 | 630.3 | 668.6 | 694.7 | 693.8 |
| 27.5° | 1246.6 | 1236.2 | 1219.6 | 1088.9 | 897.0 | 629.8 | 574.0 | 610.0 | 640.2 | 662.7 | 662.3 |
| 30° | 1288.5 | 1279.0 | 1266.4 | 1136.2 | 911.0 | 602.3 | 565.0 | 584.8 | 606.9 | 624.9 | 624.9 |
| 32.5° | 1331.3 | 1327.7 | 1314.2 | 1174.1 | 900.1 | 593.8 | 557.3 | 559.5 | 571.3 | 586.1 | 584.8 |
| 35° | 1390.8 | 1387.2 | 1370.0 | 1203.3 | 853.3 | 581.6 | 545.1 | 533.9 | 535.2 | 544.7 | 547.8 |
| 37.5° | 1477.7 | 1472.3 | 1447.1 | 1237.6 | 782.6 | 551.0 | 525.3 | 506.8 | 502.8 | 506.8 | 512.7 |
| 40° | 1582.7 | 1574.6 | 1540.3 | 1284.0 | 701.0 | 509.5 | 494.2 | 478.9 | 472.1 | 473.5 | 480.3 |
| 42.5° | 1714.2 | 1697.1 | 1648.0 | 1333.1 | 620.4 | 473.0 | 459.5 | 450.1 | 442.4 | 441.5 | 454.6 |
| 45° | 1927.8 | 1880.9 | 1803.0 | 1376.8 | 552.3 | 453.7 | 428.4 | 421.7 | 415.4 | 419.0 | 434.3 |
| 47.5° | 2300.8 | 2214.3 | 2062.5 | 1414.2 | 510.9 | 454.1 | 403.7 | 396.5 | 396.0 | 403.2 | 420.3 |
| 50° | 2813.5 | 2688.7 | 2454.4 | 1439.4 | 489.3 | 459.5 | 388.8 | 377.1 | 385.6 | 392.9 | 409.1 |
| 52.5° | 3304.6 | 3114.0 | 2835.1 | 1439.0 | 479.8 | 460.4 | 392.9 | 359.1 | 385.6 | 387.4 | 402.8 |
| 55° | 3724.0 | 3378.9 | 2937.8 | 1291.2 | 466.3 | 456.8 | 408.6 | 345.1 | 380.7 | 387.4 | 399.6 |
| 57.5° | 4057.4 | 3547.4 | 2930.2 | 1043.0 | 507.3 | 437.0 | 418.1 | 341.9 | 366.3 | 388.3 | 402.3 |
| 60° | 4020.4 | 3470.4 | 2741.4 | 640.2 | 503.2 | 401.9 | 416.7 | 347.8 | 341.9 | 376.2 | 399.2 |
| 62.5° | 3774.9 | 3194.2 | 2416.6 | 444.2 | 472.6 | 381.6 | 394.7 | 358.2 | 319.4 | 358.6 | 383.8 |
| 65° | 3431.2 | 2837.8 | 2013.8 | 340.6 | 391.5 | 382.5 | 357.3 | 351.0 | 299.6 | 330.7 | 357.7 |
| 67.5° | 2976.6 | 2395.9 | 1589.9 | 269.9 | 273.0 | 331.1 | 324.4 | 311.8 | 281.1 | 305.9 | 330.2 |
| 70° | 2237.7 | 1748.5 | 1093.9 | 217.2 | 206.8 | 276.6 | 291.5 | 280.2 | 263.1 | 270.3 | 296.0 |
| 72.5° | 1576.8 | 1141.6 | 599.2 | 172.1 | 159.5 | 212.6 | 253.2 | 251.4 | 232.5 | 237.9 | 263.1 |
| 75° | 1171.8 | 807.8 | 374.4 | 136.1 | 129.7 | 152.3 | 212.2 | 217.6 | 201.8 | 208.1 | 227.5 |
| 77.5° | 779.9 | 523.1 | 208.1 | 100.9 | 100.9 | 111.3 | 158.1 | 183.4 | 171.6 | 176.6 | 190.1 |
| 80° | 430.2 | 266.3 | 104.1 | 66.2 | 68.0 | 76.6 | 115.3 | 132.0 | 132.5 | 144.6 | 148.2 |
| 82.5° | 136.1 | 84.7 | 46.4 | 38.7 | 36.5 | 43.7 | 74.3 | 94.6 | 88.3 | 112.6 | 103.6 |
| 85° | 31.1 | 19.8 | 8.6 | 8.6 | 9.5 | 14.4 | 28.4 | 50.5 | 64.4 | 77.5 | 56.3 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 19.8 | 29.3 | 26.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P631717
 CATALOG NUMBER: GWS-SA2B-730-U-SLL-W

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 734.3 | 734.3 | 734.3 | 734.3 | 734.3 | 734.3 | 734.3 | 734.3 | 734.3 | 734.3 | 734.3 |
| 2.5° | 688.4 | 679.4 | 676.7 | 669.0 | 668.1 | 660.9 | 658.2 | 658.2 | 661.4 | 661.4 | 664.5 |
| 5° | 643.3 | 632.1 | 625.8 | 616.8 | 614.5 | 609.1 | 605.5 | 606.0 | 610.0 | 612.7 | 618.1 |
| 7.5° | 603.7 | 596.0 | 591.5 | 587.5 | 586.6 | 585.7 | 581.6 | 581.2 | 582.5 | 586.6 | 590.6 |
| 10° | 587.0 | 581.6 | 583.0 | 586.1 | 591.1 | 593.8 | 590.2 | 588.4 | 587.0 | 589.7 | 593.3 |
| 12.5° | 603.2 | 597.8 | 600.5 | 606.0 | 612.7 | 615.4 | 614.1 | 613.6 | 615.0 | 625.3 | 633.0 |
| 15° | 638.8 | 628.5 | 624.9 | 627.1 | 632.5 | 635.2 | 633.9 | 635.7 | 644.2 | 671.3 | 690.6 |
| 17.5° | 683.0 | 657.8 | 643.3 | 639.3 | 641.5 | 643.8 | 643.8 | 648.3 | 663.2 | 702.8 | 727.1 |
| 20° | 706.9 | 674.0 | 649.7 | 639.7 | 640.6 | 642.9 | 642.9 | 649.2 | 665.9 | 708.2 | 724.0 |
| 22.5° | 700.6 | 670.4 | 640.6 | 629.8 | 630.3 | 632.1 | 632.1 | 637.5 | 652.4 | 689.7 | 697.0 |
| 25° | 675.8 | 649.2 | 619.9 | 610.5 | 611.4 | 614.5 | 613.6 | 616.8 | 628.0 | 658.7 | 662.7 |
| 27.5° | 646.0 | 622.6 | 593.8 | 586.6 | 590.6 | 596.9 | 591.5 | 592.0 | 602.3 | 628.0 | 628.5 |
| 30° | 614.1 | 594.7 | 569.0 | 563.6 | 571.3 | 574.4 | 569.5 | 569.5 | 579.8 | 597.4 | 596.9 |
| 32.5° | 579.4 | 567.2 | 548.7 | 542.9 | 551.4 | 556.4 | 550.1 | 551.0 | 559.1 | 570.8 | 566.3 |
| 35° | 546.9 | 540.6 | 532.1 | 528.0 | 533.4 | 537.9 | 533.9 | 535.7 | 543.3 | 546.5 | 540.2 |
| 37.5° | 515.8 | 514.9 | 515.8 | 515.8 | 517.2 | 518.5 | 515.8 | 520.4 | 527.1 | 523.1 | 515.8 |
| 40° | 488.8 | 492.4 | 501.0 | 498.7 | 497.4 | 498.7 | 496.9 | 504.6 | 511.3 | 504.1 | 495.6 |
| 42.5° | 466.3 | 473.0 | 486.1 | 486.1 | 483.4 | 484.3 | 483.4 | 492.9 | 497.8 | 487.9 | 478.5 |
| 45° | 446.9 | 456.8 | 473.5 | 475.7 | 471.2 | 471.2 | 473.0 | 484.8 | 486.6 | 473.0 | 463.1 |
| 47.5° | 433.4 | 445.6 | 464.5 | 468.5 | 461.8 | 461.3 | 466.3 | 478.9 | 478.9 | 463.1 | 451.9 |
| 50° | 423.9 | 437.5 | 460.0 | 465.4 | 458.6 | 456.8 | 464.9 | 477.1 | 474.4 | 455.5 | 444.2 |
| 52.5° | 417.6 | 431.6 | 459.5 | 467.2 | 462.7 | 460.9 | 469.0 | 477.6 | 470.8 | 450.5 | 438.8 |
| 55° | 413.6 | 428.9 | 460.9 | 467.2 | 462.2 | 459.1 | 467.2 | 474.8 | 471.2 | 447.8 | 436.6 |
| 57.5° | 415.8 | 431.1 | 459.1 | 462.2 | 456.4 | 451.0 | 460.4 | 471.2 | 469.9 | 448.7 | 437.5 |
| 60° | 412.2 | 426.2 | 449.2 | 450.1 | 440.2 | 431.6 | 445.6 | 461.8 | 461.8 | 445.6 | 435.7 |
| 62.5° | 395.6 | 409.5 | 429.8 | 430.7 | 419.4 | 410.0 | 426.2 | 445.6 | 445.1 | 432.0 | 421.7 |
| 65° | 368.1 | 381.1 | 404.1 | 406.4 | 395.1 | 385.2 | 401.9 | 419.9 | 421.2 | 409.5 | 400.5 |
| 67.5° | 337.9 | 349.6 | 366.7 | 375.7 | 366.3 | 355.9 | 371.2 | 388.3 | 387.9 | 373.9 | 364.5 |
| 70° | 301.8 | 312.7 | 328.4 | 336.1 | 330.2 | 320.3 | 334.3 | 343.3 | 339.2 | 332.5 | 326.2 |
| 72.5° | 266.3 | 276.6 | 291.5 | 291.5 | 285.2 | 275.7 | 279.8 | 296.0 | 300.9 | 296.0 | 291.9 |
| 75° | 228.9 | 237.9 | 248.2 | 250.5 | 236.5 | 219.4 | 238.3 | 252.3 | 258.1 | 255.9 | 250.9 |
| 77.5° | 190.6 | 197.3 | 212.6 | 208.6 | 182.5 | 173.5 | 188.8 | 209.5 | 213.5 | 212.2 | 205.4 |
| 80° | 146.9 | 150.9 | 167.1 | 159.0 | 138.8 | 132.9 | 139.7 | 155.9 | 156.8 | 152.3 | 143.7 |
| 82.5° | 98.7 | 104.1 | 114.9 | 99.1 | 98.7 | 93.3 | 87.9 | 89.7 | 97.8 | 96.9 | 91.0 |
| 85° | 50.5 | 53.2 | 63.5 | 59.5 | 50.9 | 44.2 | 41.9 | 44.6 | 40.1 | 36.5 | 31.5 |
| 87.5° | 21.2 | 23.0 | 31.5 | 17.6 | 5.4 | 0.0 | 0.0 | 2.7 | 4.1 | 5.9 | 6.3 |
| 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: P631717
 CATALOG NUMBER: GWS-SA2B-730-U-SLL-W

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| 0° | 734.3 | 734.3 | 734.3 | 734.3 | 734.3 | 734.3 | 734.3 | 734.3 | 734.3 | 734.3 | 734.3 |
| 2.5° | 671.7 | 676.7 | 688.8 | 704.2 | 719.0 | 734.3 | 751.0 | 761.4 | 774.0 | 790.2 | 790.7 |
| 5° | 624.9 | 636.1 | 653.7 | 677.1 | 701.5 | 729.4 | 761.8 | 788.9 | 821.3 | 847.0 | 857.3 |
| 7.5° | 596.0 | 612.3 | 634.3 | 664.1 | 696.1 | 730.7 | 773.1 | 818.6 | 871.8 | 906.0 | 926.3 |
| 10° | 598.7 | 623.5 | 645.6 | 670.8 | 699.7 | 737.1 | 791.6 | 851.9 | 917.3 | 962.3 | 987.5 |
| 12.5° | 646.9 | 673.1 | 669.0 | 667.7 | 687.0 | 732.5 | 806.4 | 885.7 | 965.5 | 1010.5 | 1040.7 |
| 15° | 707.8 | 717.7 | 679.4 | 650.6 | 662.3 | 716.3 | 814.5 | 915.9 | 1005.6 | 1060.5 | 1090.3 |
| 17.5° | 738.9 | 719.0 | 672.6 | 629.4 | 626.2 | 691.5 | 818.6 | 946.5 | 1050.6 | 1105.6 | 1137.1 |
| 20° | 724.4 | 695.6 | 656.4 | 615.4 | 592.9 | 657.8 | 816.3 | 970.9 | 1091.6 | 1152.9 | 1178.6 |
| 22.5° | 693.4 | 668.1 | 637.5 | 598.3 | 565.9 | 620.8 | 810.5 | 995.2 | 1128.1 | 1189.8 | 1212.4 |
| 25° | 659.6 | 640.6 | 615.4 | 581.2 | 550.5 | 588.4 | 806.4 | 1027.6 | 1170.0 | 1229.0 | 1243.4 |
| 27.5° | 625.8 | 611.8 | 591.1 | 564.5 | 546.9 | 565.9 | 807.8 | 1070.0 | 1224.1 | 1279.9 | 1274.1 |
| 30° | 592.4 | 580.3 | 565.9 | 554.1 | 546.5 | 560.4 | 804.2 | 1115.0 | 1283.5 | 1335.3 | 1300.7 |
| 32.5° | 560.9 | 549.6 | 540.6 | 542.4 | 546.9 | 562.7 | 785.7 | 1156.0 | 1338.0 | 1382.2 | 1329.5 |
| 35° | 533.9 | 522.2 | 522.2 | 528.5 | 545.1 | 555.0 | 738.0 | 1188.0 | 1398.4 | 1442.6 | 1370.5 |
| 37.5° | 508.6 | 498.3 | 505.0 | 515.4 | 531.2 | 534.3 | 676.7 | 1219.1 | 1486.3 | 1527.7 | 1434.0 |
| 40° | 486.6 | 476.2 | 488.4 | 501.4 | 509.5 | 508.2 | 614.5 | 1262.4 | 1589.9 | 1632.7 | 1518.3 |
| 42.5° | 469.0 | 459.5 | 470.3 | 487.0 | 488.4 | 489.7 | 569.0 | 1303.8 | 1710.2 | 1764.7 | 1663.3 |
| 45° | 454.6 | 447.8 | 453.2 | 469.9 | 469.9 | 490.6 | 540.6 | 1338.5 | 1891.3 | 1987.7 | 1929.6 |
| 47.5° | 443.3 | 439.3 | 442.0 | 447.4 | 456.4 | 506.8 | 522.6 | 1365.1 | 2221.1 | 2410.3 | 2351.7 |
| 50° | 437.0 | 433.0 | 436.6 | 425.3 | 452.3 | 514.9 | 516.7 | 1385.4 | 2655.8 | 2952.3 | 2879.7 |
| 52.5° | 431.6 | 430.2 | 432.5 | 406.4 | 461.3 | 509.5 | 512.2 | 1358.3 | 2947.3 | 3485.7 | 3557.3 |
| 55° | 429.8 | 430.7 | 419.9 | 392.4 | 472.1 | 491.5 | 498.7 | 1165.0 | 3026.6 | 3945.7 | 4390.3 |
| 57.5° | 430.7 | 428.0 | 400.5 | 393.8 | 472.6 | 455.5 | 518.1 | 831.2 | 2911.3 | 4145.7 | 5205.3 |
| 60° | 427.5 | 414.0 | 377.1 | 405.9 | 451.9 | 413.1 | 504.1 | 542.0 | 2607.2 | 3992.1 | 5252.6 |
| 62.5° | 413.6 | 393.8 | 356.8 | 412.7 | 414.9 | 387.9 | 457.7 | 417.6 | 2201.7 | 3663.2 | 4796.7 |
| 65° | 393.3 | 366.7 | 339.7 | 398.7 | 377.5 | 376.2 | 344.2 | 334.7 | 1770.5 | 3271.7 | 4364.2 |
| 67.5° | 360.0 | 333.4 | 327.1 | 366.7 | 339.7 | 333.4 | 276.6 | 277.5 | 1412.8 | 2854.5 | 3929.4 |
| 70° | 322.1 | 295.5 | 300.5 | 331.6 | 302.3 | 277.1 | 223.9 | 231.1 | 1071.8 | 2378.3 | 3343.3 |
| 72.5° | 297.3 | 261.8 | 262.2 | 291.9 | 265.8 | 224.4 | 184.3 | 190.6 | 680.3 | 1792.6 | 2658.1 |
| 75° | 250.9 | 230.7 | 220.8 | 236.5 | 225.7 | 174.8 | 155.0 | 153.6 | 403.2 | 1284.9 | 1990.4 |
| 77.5° | 209.5 | 193.7 | 188.8 | 195.1 | 168.5 | 129.3 | 124.8 | 122.5 | 228.4 | 823.1 | 1304.3 |
| 80° | 151.8 | 147.8 | 147.3 | 150.5 | 129.7 | 95.1 | 95.1 | 95.5 | 123.0 | 446.9 | 735.2 |
| 82.5° | 96.4 | 105.4 | 93.3 | 103.6 | 88.3 | 67.6 | 63.1 | 71.6 | 70.7 | 190.6 | 310.0 |
| 85° | 40.1 | 55.0 | 51.4 | 54.5 | 41.9 | 36.9 | 39.6 | 42.8 | 41.0 | 73.4 | 120.7 |
| 87.5° | 7.7 | 9.0 | 9.9 | 9.5 | 9.5 | 11.7 | 13.1 | 15.8 | 15.8 | 21.2 | 36.5 |
| 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: P631717

CATALOG NUMBER: GWS-SA2B-730-U-SLL-W

CANDELA DISTRIBUTION (continued):

| | 285° | 295° | 305° | 315° | 325° | 335° | 345° | 355° | 358° | 360° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 734.3 | 734.3 | 734.3 | 734.3 | 734.3 | 734.3 | 734.3 | 734.3 | 734.3 | 734.3 |
| 2.5° | 807.8 | 820.8 | 818.1 | 824.0 | 816.3 | 819.0 | 803.7 | 799.7 | 797.0 | 797.9 |
| 5° | 890.7 | 917.3 | 922.2 | 932.1 | 925.4 | 925.4 | 898.3 | 878.1 | 870.9 | 865.5 |
| 7.5° | 974.9 | 1013.2 | 1038.4 | 1041.2 | 1037.5 | 1030.3 | 991.1 | 954.7 | 941.6 | 930.3 |
| 10° | 1049.7 | 1095.7 | 1124.0 | 1137.6 | 1130.8 | 1119.5 | 1070.9 | 1020.9 | 1005.1 | 995.2 |
| 12.5° | 1106.9 | 1147.5 | 1166.4 | 1175.4 | 1174.5 | 1170.5 | 1130.8 | 1076.7 | 1060.1 | 1044.8 |
| 15° | 1143.9 | 1164.1 | 1156.9 | 1156.5 | 1162.8 | 1179.0 | 1166.8 | 1124.5 | 1105.1 | 1091.2 |
| 17.5° | 1167.7 | 1148.4 | 1116.4 | 1101.5 | 1115.0 | 1153.3 | 1181.3 | 1157.4 | 1139.8 | 1124.5 |
| 20° | 1176.3 | 1107.4 | 1061.0 | 1033.5 | 1049.3 | 1104.7 | 1173.6 | 1181.3 | 1166.4 | 1153.8 |
| 22.5° | 1166.4 | 1057.4 | 994.3 | 961.9 | 977.2 | 1043.4 | 1151.1 | 1200.6 | 1190.7 | 1178.6 |
| 25° | 1142.1 | 1005.1 | 929.4 | 900.1 | 916.8 | 984.4 | 1111.0 | 1218.7 | 1219.1 | 1209.2 |
| 27.5° | 1111.9 | 956.9 | 883.9 | 856.4 | 872.7 | 935.7 | 1071.8 | 1234.4 | 1250.2 | 1246.6 |
| 30° | 1081.2 | 928.1 | 862.3 | 842.9 | 855.1 | 911.0 | 1031.7 | 1250.6 | 1282.2 | 1288.5 |
| 32.5° | 1067.3 | 942.0 | 913.2 | 921.8 | 906.0 | 925.4 | 1017.3 | 1273.6 | 1320.9 | 1331.3 |
| 35° | 1085.8 | 1065.9 | 1138.9 | 1172.7 | 1116.8 | 1043.4 | 1035.7 | 1308.3 | 1375.4 | 1390.8 |
| 37.5° | 1175.4 | 1331.3 | 1440.3 | 1559.3 | 1462.4 | 1300.7 | 1127.2 | 1367.3 | 1453.4 | 1477.7 |
| 40° | 1370.5 | 1562.9 | 1759.7 | 1913.4 | 1766.9 | 1549.3 | 1301.1 | 1455.2 | 1560.6 | 1582.7 |
| 42.5° | 1554.3 | 1780.0 | 2051.2 | 2249.9 | 2059.8 | 1752.5 | 1488.5 | 1603.0 | 1702.1 | 1714.2 |
| 45° | 1734.5 | 1993.1 | 2404.0 | 2680.1 | 2422.0 | 1945.8 | 1680.0 | 1852.5 | 1927.3 | 1927.8 |
| 47.5° | 1945.8 | 2233.2 | 2846.4 | 3239.7 | 2902.7 | 2159.8 | 1859.7 | 2247.6 | 2351.7 | 2300.8 |
| 50° | 2198.5 | 2472.0 | 3301.9 | 3890.7 | 3488.8 | 2422.9 | 2088.2 | 2729.3 | 2871.2 | 2813.5 |
| 52.5° | 2536.9 | 2735.1 | 3803.7 | 4525.5 | 4127.7 | 2722.5 | 2419.3 | 3365.4 | 3412.2 | 3304.6 |
| 55° | 3013.1 | 3114.9 | 4448.0 | 5309.4 | 4840.8 | 3091.5 | 2903.6 | 4163.7 | 4032.6 | 3724.0 |
| 57.5° | 4097.5 | 3715.9 | 5275.1 | 6203.7 | 5647.7 | 3761.8 | 3965.0 | 5044.0 | 4577.7 | 4057.4 |
| 60° | 5004.8 | 4445.7 | 6040.6 | 7091.2 | 6339.3 | 4500.7 | 4961.6 | 5197.2 | 4557.5 | 4020.4 |
| 62.5° | 4698.9 | 4631.8 | 6316.7 | 7189.0 | 6575.3 | 4864.3 | 4776.4 | 4811.1 | 4260.1 | 3774.9 |
| 65° | 4122.7 | 4272.7 | 6070.3 | 6725.4 | 6313.6 | 4538.5 | 4320.5 | 4454.3 | 3920.0 | 3431.2 |
| 67.5° | 3782.6 | 3892.9 | 5632.0 | 5983.4 | 5837.8 | 4186.2 | 3965.9 | 3869.1 | 3392.0 | 2976.6 |
| 70° | 3434.8 | 3526.2 | 5016.5 | 5052.1 | 5095.8 | 3600.6 | 3242.8 | 2954.5 | 2528.3 | 2237.7 |
| 72.5° | 2968.0 | 2973.0 | 4238.5 | 4032.2 | 4115.1 | 2817.6 | 2610.3 | 2208.9 | 1840.4 | 1576.8 |
| 75° | 2490.0 | 2354.0 | 3355.0 | 2818.5 | 2984.7 | 2191.8 | 2167.5 | 1664.7 | 1388.1 | 1171.8 |
| 77.5° | 1898.5 | 1739.5 | 2450.8 | 1853.4 | 2096.3 | 1459.7 | 1629.5 | 1129.0 | 976.7 | 779.9 |
| 80° | 1274.5 | 1175.4 | 1354.3 | 1046.1 | 1371.4 | 1006.0 | 1062.8 | 639.7 | 554.6 | 430.2 |
| 82.5° | 672.2 | 574.0 | 837.1 | 620.4 | 827.2 | 552.8 | 398.7 | 197.8 | 168.5 | 136.1 |
| 85° | 260.4 | 301.4 | 410.4 | 220.8 | 320.8 | 197.3 | 115.3 | 49.1 | 41.0 | 31.1 |
| 87.5° | 50.5 | 77.9 | 42.8 | 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: SP1-1908-441-2-R4

Test Date: 10/03/2019

Luminaire Tested: SA1C-730-U-5WQ

Data in this report applies to families of products SA1C-730-U-5WQ .

Test Information

Test Method: LM-79-2008
 Report Number: SP1-1908-441-2-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-730-U-5WQ**
 Description: McGRAW EDISON ROADWAY AND AREA LUMINAIRE

THIS IS A REVISION OF SP1-1908-441-2-R3. TO UPDATE THE CATALOG INFORMATION.TESTED IN SITU. (1) 70 CRI, 3000K, 1050MA LIGHTSQUARE WITH 16 LEDS AND TYPE V WIDE OPTICS.

Spectral Parameters

| | | | | | |
|---------------------------|--------|-----------|------|------|-------|
| CCT (K): | 2993 | CRI (Ra): | 71.8 | R9: | -38.3 |
| CIE u': | 0.2508 | R1: | 67.5 | R10: | 62.5 |
| CIE v': | 0.5215 | R2: | 82.9 | R11: | 63.7 |
| Duv: | 0.0000 | R3: | 94.7 | R12: | 57.8 |
| CIE x: | 0.4374 | R4: | 67.7 | R13: | 70.4 |
| CIE y: | 0.4043 | R5: | 67.9 | R14: | 97.3 |
| CIE z: | 0.1583 | R6: | 77.6 | | |
| Peak Wavelength (nm): | 593 | R7: | 76.0 | | |
| Dominant Wavelength (nm): | 582 | R8: | 40.5 | | |
| Purity: | 53 | | | | |
| Rf: | 75.7 | | | | |
| Rg: | 93.9 | | | | |



Test Conditions

Stabilization Time: 53M
 Operation Time: 12H
 Room Temperature (°C) / RH%: 25.0./44%
 Sphere Temperature (°C): 25.7

REPORT NUMBER: SP1-1908-441-2-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: SP1-1908-441-2-R4

CIE 1931 Chromaticity Diagram



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



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-1908-441-2-R4

Photopic Flux vs. Wavelength



#####

| λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) |
|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|
| 360 | 2397 | NR | 490 | 24908 | NR | 620 | 118784 | NR | 750 | 5037 | NR | 880 | 2677 | NR |
| 365 | 2084 | NR | 495 | 30998 | NR | 625 | 108951 | NR | 755 | 4413 | NR | 885 | 2940 | NR |
| 370 | 2143 | NR | 500 | 37103 | NR | 630 | 99573 | NR | 760 | 4189 | NR | 890 | 3116 | NR |
| 375 | 2413 | NR | 505 | 42987 | NR | 635 | 90444 | NR | 765 | 3677 | NR | 895 | 3345 | NR |
| 380 | 2172 | NR | 510 | 48702 | NR | 640 | 80749 | NR | 770 | 3366 | NR | 900 | 2312 | NR |
| 385 | 1997 | NR | 515 | 53741 | NR | 645 | 71664 | NR | 775 | 3211 | NR | 905 | 2829 | NR |
| 390 | 1830 | NR | 520 | 57283 | NR | 650 | 63936 | NR | 780 | 2682 | NR | 910 | 2783 | NR |
| 395 | 1861 | NR | 525 | 61876 | NR | 655 | 56611 | NR | 785 | 2804 | NR | 915 | 2662 | NR |
| 400 | 1717 | NR | 530 | 65398 | NR | 660 | 49763 | NR | 790 | 2581 | NR | 920 | 3047 | NR |
| 405 | 1761 | NR | 535 | 69597 | NR | 665 | 42891 | NR | 795 | 2711 | NR | 925 | 2256 | NR |
| 410 | 2680 | NR | 540 | 74214 | NR | 670 | 36939 | NR | 800 | 2609 | NR | 930 | 2976 | NR |
| 415 | 4374 | NR | 545 | 79911 | NR | 675 | 31946 | NR | 805 | 2581 | NR | 935 | 3503 | NR |
| 420 | 8071 | NR | 550 | 86153 | NR | 680 | 27385 | NR | 810 | 2404 | NR | 940 | 4226 | NR |
| 425 | 15169 | NR | 555 | 93952 | NR | 685 | 23504 | NR | 815 | 2556 | NR | 945 | 2930 | NR |
| 430 | 26038 | NR | 560 | 102904 | NR | 690 | 20210 | NR | 820 | 2742 | NR | 950 | 2115 | NR |
| 435 | 41316 | NR | 565 | 112009 | NR | 695 | 17459 | NR | 825 | 2014 | NR | 955 | 2634 | NR |
| 440 | 59674 | NR | 570 | 121662 | NR | 700 | 15207 | NR | 830 | 2488 | NR | 960 | 4200 | NR |
| 445 | 72751 | NR | 575 | 130476 | NR | 705 | 13322 | NR | 835 | 2625 | NR | 965 | 1982 | NR |
| 450 | 65091 | NR | 580 | 137926 | NR | 710 | 11676 | NR | 840 | 2754 | NR | 970 | 3613 | NR |
| 455 | 44894 | NR | 585 | 143406 | NR | 715 | 10626 | NR | 845 | 2708 | NR | 975 | 4034 | NR |
| 460 | 32712 | NR | 590 | 147039 | NR | 720 | 9416 | NR | 850 | 2608 | NR | 980 | 3922 | NR |
| 465 | 25296 | NR | 595 | 147365 | NR | 725 | 8333 | NR | 855 | 2605 | NR | 985 | 1909 | NR |
| 470 | 19318 | NR | 600 | 145800 | NR | 730 | 7134 | NR | 860 | 1765 | NR | 990 | 3617 | NR |
| 475 | 17265 | NR | 605 | 141363 | NR | 735 | 6437 | NR | 865 | 2581 | NR | 995 | 4767 | NR |
| 480 | 18260 | NR | 610 | 134199 | NR | 740 | 5834 | NR | 870 | 3016 | NR | 1000 | 2528 | NR |
| 485 | 20845 | NR | 615 | 127683 | NR | 745 | 5500 | NR | 875 | 3952 | NR | | | |

REPORT NUMBER: SP1-1908-441-2-R4

Scotopic Flux vs. Wavelength



Scotopic Lumens: 8494.8

S/P: 1.23

| 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 | 2397 | NR | 490 | 24908 | NR | 620 | 118784 | NR | 750 | 5037 | NR | 880 | 2677 | NR |
| 365 | 2084 | NR | 495 | 30998 | NR | 625 | 108951 | NR | 755 | 4413 | NR | 885 | 2940 | NR |
| 370 | 2143 | NR | 500 | 37103 | NR | 630 | 99573 | NR | 760 | 4189 | NR | 890 | 3116 | NR |
| 375 | 2413 | NR | 505 | 42987 | NR | 635 | 90444 | NR | 765 | 3677 | NR | 895 | 3345 | NR |
| 380 | 2172 | NR | 510 | 48702 | NR | 640 | 80749 | NR | 770 | 3366 | NR | 900 | 2312 | NR |
| 385 | 1997 | NR | 515 | 53741 | NR | 645 | 71664 | NR | 775 | 3211 | NR | 905 | 2829 | NR |
| 390 | 1830 | NR | 520 | 57283 | NR | 650 | 63936 | NR | 780 | 2682 | NR | 910 | 2783 | NR |
| 395 | 1861 | NR | 525 | 61876 | NR | 655 | 56611 | NR | 785 | 2804 | NR | 915 | 2662 | NR |
| 400 | 1717 | NR | 530 | 65398 | NR | 660 | 49763 | NR | 790 | 2581 | NR | 920 | 3047 | NR |
| 405 | 1761 | NR | 535 | 69597 | NR | 665 | 42891 | NR | 795 | 2711 | NR | 925 | 2256 | NR |
| 410 | 2680 | NR | 540 | 74214 | NR | 670 | 36939 | NR | 800 | 2609 | NR | 930 | 2976 | NR |
| 415 | 4374 | NR | 545 | 79911 | NR | 675 | 31946 | NR | 805 | 2581 | NR | 935 | 3503 | NR |
| 420 | 8071 | NR | 550 | 86153 | NR | 680 | 27385 | NR | 810 | 2404 | NR | 940 | 4226 | NR |
| 425 | 15169 | NR | 555 | 93952 | NR | 685 | 23504 | NR | 815 | 2556 | NR | 945 | 2930 | NR |
| 430 | 26038 | NR | 560 | 102904 | NR | 690 | 20210 | NR | 820 | 2742 | NR | 950 | 2115 | NR |
| 435 | 41316 | NR | 565 | 112009 | NR | 695 | 17459 | NR | 825 | 2014 | NR | 955 | 2634 | NR |
| 440 | 59674 | NR | 570 | 121662 | NR | 700 | 15207 | NR | 830 | 2488 | NR | 960 | 4200 | NR |
| 445 | 72751 | NR | 575 | 130476 | NR | 705 | 13322 | NR | 835 | 2625 | NR | 965 | 1982 | NR |
| 450 | 65091 | NR | 580 | 137926 | NR | 710 | 11676 | NR | 840 | 2754 | NR | 970 | 3613 | NR |
| 455 | 44894 | NR | 585 | 143406 | NR | 715 | 10626 | NR | 845 | 2708 | NR | 975 | 4034 | NR |
| 460 | 32712 | NR | 590 | 147039 | NR | 720 | 9416 | NR | 850 | 2608 | NR | 980 | 3922 | NR |
| 465 | 25296 | NR | 595 | 147365 | NR | 725 | 8333 | NR | 855 | 2605 | NR | 985 | 1909 | NR |
| 470 | 19318 | NR | 600 | 145800 | NR | 730 | 7134 | NR | 860 | 1765 | NR | 990 | 3617 | NR |
| 475 | 17265 | NR | 605 | 141363 | NR | 735 | 6437 | NR | 865 | 2581 | NR | 995 | 4767 | NR |
| 480 | 18260 | NR | 610 | 134199 | NR | 740 | 5834 | NR | 870 | 3016 | NR | 1000 | 2528 | NR |
| 485 | 20845 | NR | 615 | 127683 | NR | 745 | 5500 | NR | 875 | 3952 | NR | | | |

REPORT NUMBER: SP1-1908-441-2-R4

Melanopic Flux vs. Wavelength



Melanopic Lumens: 3101.5 M/P: 0.45

| 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 | 2397 | NR | 490 | 24908 | NR | 620 | 118784 | NR | 750 | 5037 | NR | 880 | 2677 | NR |
| 365 | 2084 | NR | 495 | 30998 | NR | 625 | 108951 | NR | 755 | 4413 | NR | 885 | 2940 | NR |
| 370 | 2143 | NR | 500 | 37103 | NR | 630 | 99573 | NR | 760 | 4189 | NR | 890 | 3116 | NR |
| 375 | 2413 | NR | 505 | 42987 | NR | 635 | 90444 | NR | 765 | 3677 | NR | 895 | 3345 | NR |
| 380 | 2172 | NR | 510 | 48702 | NR | 640 | 80749 | NR | 770 | 3366 | NR | 900 | 2312 | NR |
| 385 | 1997 | NR | 515 | 53741 | NR | 645 | 71664 | NR | 775 | 3211 | NR | 905 | 2829 | NR |
| 390 | 1830 | NR | 520 | 57283 | NR | 650 | 63936 | NR | 780 | 2682 | NR | 910 | 2783 | NR |
| 395 | 1861 | NR | 525 | 61876 | NR | 655 | 56611 | NR | 785 | 2804 | NR | 915 | 2662 | NR |
| 400 | 1717 | NR | 530 | 65398 | NR | 660 | 49763 | NR | 790 | 2581 | NR | 920 | 3047 | NR |
| 405 | 1761 | NR | 535 | 69597 | NR | 665 | 42891 | NR | 795 | 2711 | NR | 925 | 2256 | NR |
| 410 | 2680 | NR | 540 | 74214 | NR | 670 | 36939 | NR | 800 | 2609 | NR | 930 | 2976 | NR |
| 415 | 4374 | NR | 545 | 79911 | NR | 675 | 31946 | NR | 805 | 2581 | NR | 935 | 3503 | NR |
| 420 | 8071 | NR | 550 | 86153 | NR | 680 | 27385 | NR | 810 | 2404 | NR | 940 | 4226 | NR |
| 425 | 15169 | NR | 555 | 93952 | NR | 685 | 23504 | NR | 815 | 2556 | NR | 945 | 2930 | NR |
| 430 | 26038 | NR | 560 | 102904 | NR | 690 | 20210 | NR | 820 | 2742 | NR | 950 | 2115 | NR |
| 435 | 41316 | NR | 565 | 112009 | NR | 695 | 17459 | NR | 825 | 2014 | NR | 955 | 2634 | NR |
| 440 | 59674 | NR | 570 | 121662 | NR | 700 | 15207 | NR | 830 | 2488 | NR | 960 | 4200 | NR |
| 445 | 72751 | NR | 575 | 130476 | NR | 705 | 13322 | NR | 835 | 2625 | NR | 965 | 1982 | NR |
| 450 | 65091 | NR | 580 | 137926 | NR | 710 | 11676 | NR | 840 | 2754 | NR | 970 | 3613 | NR |
| 455 | 44894 | NR | 585 | 143406 | NR | 715 | 10626 | NR | 845 | 2708 | NR | 975 | 4034 | NR |
| 460 | 32712 | NR | 590 | 147039 | NR | 720 | 9416 | NR | 850 | 2608 | NR | 980 | 3922 | NR |
| 465 | 25296 | NR | 595 | 147365 | NR | 725 | 8333 | NR | 855 | 2605 | NR | 985 | 1909 | NR |
| 470 | 19318 | NR | 600 | 145800 | NR | 730 | 7134 | NR | 860 | 1765 | NR | 990 | 3617 | NR |
| 475 | 17265 | NR | 605 | 141363 | NR | 735 | 6437 | NR | 865 | 2581 | NR | 995 | 4767 | NR |
| 480 | 18260 | NR | 610 | 134199 | NR | 740 | 5834 | NR | 870 | 3016 | NR | 1000 | 2528 | NR |
| 485 | 20845 | NR | 615 | 127683 | NR | 745 | 5500 | NR | 875 | 3952 | NR | | | |

REPORT NUMBER: SP1-1908-441-2-R4

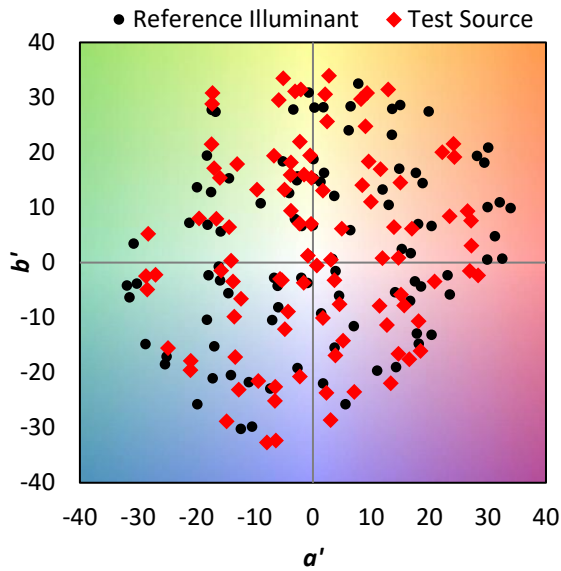
TM-30-18

Summary

$R_f = 75.7$
 $R_g = 93.9$
 CIE $R_a = 71.8$
 $R_9 = -38.3$



Color Vector Graphics



REPORT NUMBER: SP1-1908-441-2-R4

TM-30-18

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

| | | | |
|------------|------------|------------|------------|
| CES01 = 86 | CES26 = 67 | CES51 = 87 | CES76 = 63 |
| CES02 = 63 | CES27 = 88 | CES52 = 86 | CES77 = 80 |
| CES03 = 31 | CES28 = 87 | CES53 = 78 | CES78 = 67 |
| CES04 = 71 | CES29 = 66 | CES54 = 84 | CES79 = 87 |
| CES05 = 49 | CES30 = 73 | CES55 = 84 | CES80 = 86 |
| CES06 = 51 | CES31 = 70 | CES56 = 75 | CES81 = 71 |
| CES07 = 41 | CES32 = 65 | CES57 = 74 | CES82 = 94 |
| CES08 = 40 | CES33 = 73 | CES58 = 76 | CES83 = 90 |
| CES09 = 29 | CES34 = 79 | CES59 = 85 | CES84 = 89 |
| CES10 = 76 | CES35 = 89 | CES60 = 93 | CES85 = 77 |
| CES11 = 59 | CES36 = 97 | CES61 = 84 | CES86 = 61 |
| CES12 = 65 | CES37 = 87 | CES62 = 91 | CES87 = 78 |
| CES13 = 43 | CES38 = 81 | CES63 = 77 | CES88 = 77 |
| CES14 = 74 | CES39 = 95 | CES64 = 72 | CES89 = 67 |
| CES15 = 71 | CES40 = 92 | CES65 = 68 | CES90 = 76 |
| CES16 = 47 | CES41 = 88 | CES66 = 69 | CES91 = 89 |
| CES17 = 50 | CES42 = 89 | CES67 = 67 | CES92 = 58 |
| CES18 = 56 | CES43 = 79 | CES68 = 72 | CES93 = 74 |
| CES19 = 73 | CES44 = 99 | CES69 = 81 | CES94 = 49 |
| CES20 = 66 | CES45 = 85 | CES70 = 66 | CES95 = 68 |
| CES21 = 87 | CES46 = 80 | CES71 = 67 | CES96 = 76 |
| CES22 = 79 | CES47 = 82 | CES72 = 88 | CES97 = 82 |
| CES23 = 92 | CES48 = 69 | CES73 = 59 | CES98 = 75 |
| CES24 = 91 | CES49 = 80 | CES74 = 95 | CES99 = 62 |
| CES25 = 73 | CES50 = 87 | CES75 = 69 | |



REPORT NUMBER: SP1-1908-441-2-R4

TM-30-18

Color Rendition by Hue-Angle Bin



REPORT NUMBER: SP1-1908-441-2-R4

TM-30-18

Measure Comparisons



(END OF REPORT)