

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: P628973

Luminaire Tested: GWS-SA1A-760-U-SLR-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P628973
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-41)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1A-760-U-SLR-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR RIGHT OPTICS
Light Source: (16) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2716.6 lumens
Efficiency: N/A
Efficacy: 137.9 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

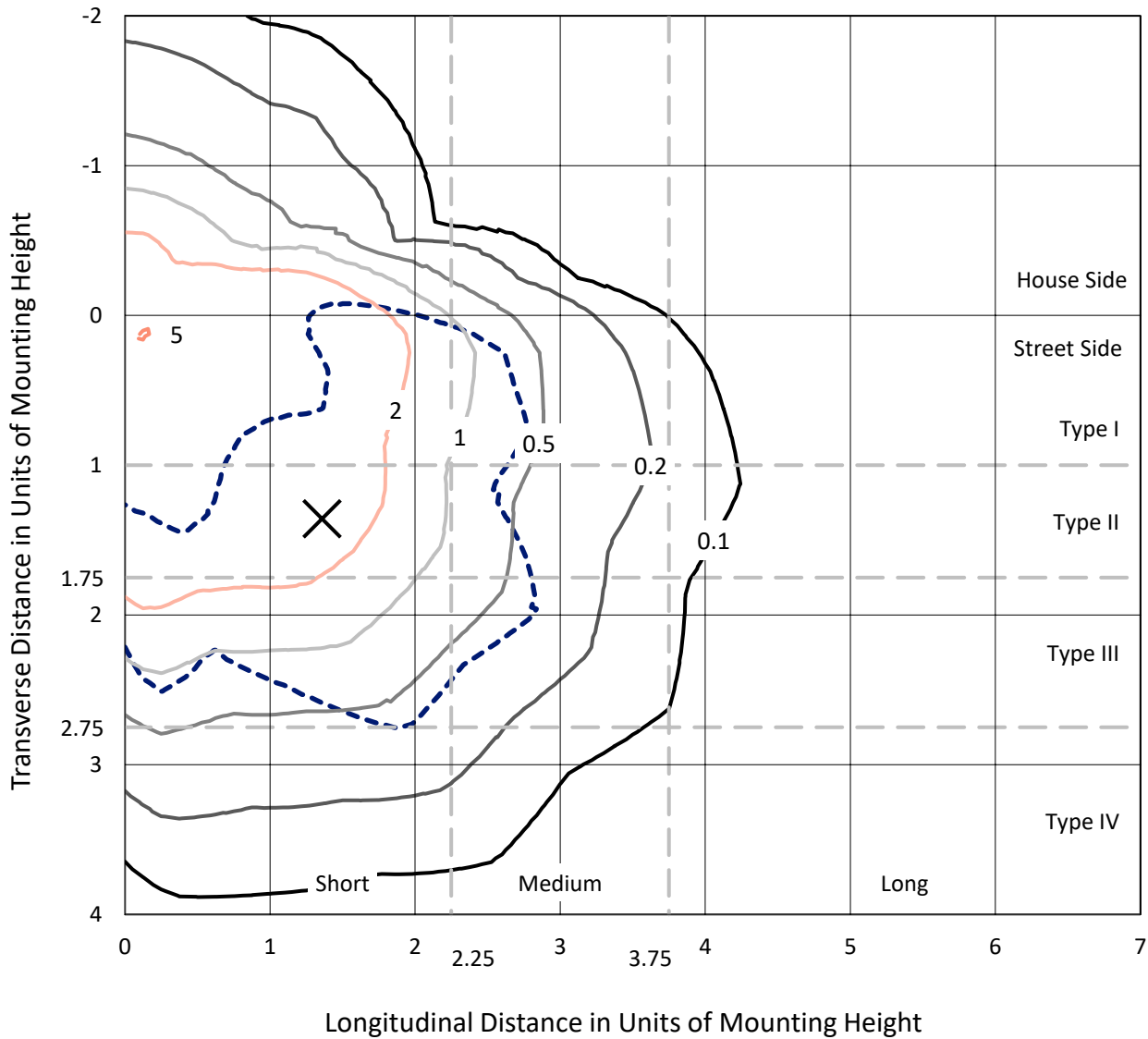
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

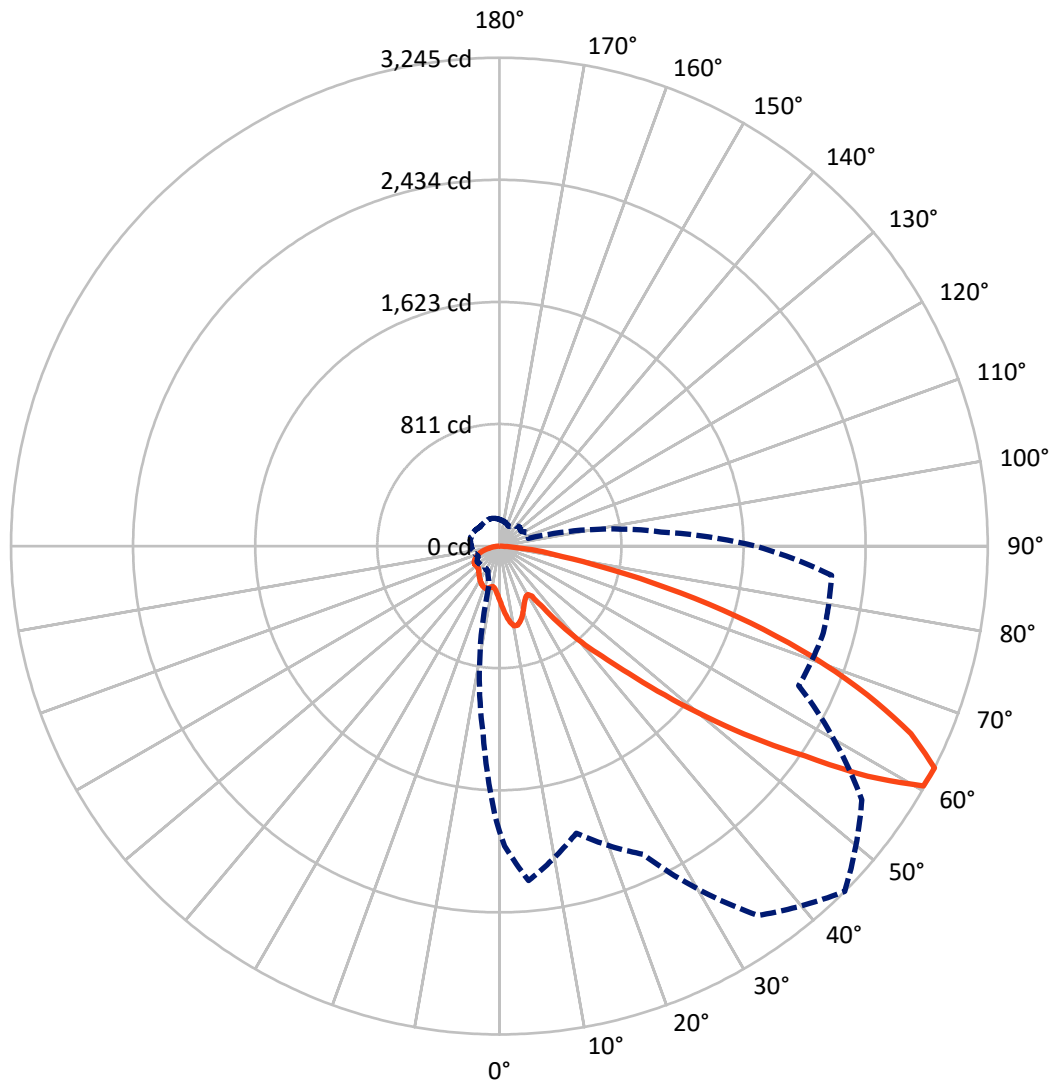
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 648.2 | 0.0 | 648.2 |
| | % Fixture | 23.9 | 0.0 | 23.9 |
| Street Side | Lumens | 2068.4 | 0.0 | 2068.4 |
| | % Fixture | 76.1 | 0.0 | 76.1 |
| Total | Lumens | 2716.6 | 0.0 | 2716.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 35.2 | 1.3 |
| 10°-20° | 110.4 | 4.1 |
| 20°-30° | 171.5 | 6.3 |
| 30°-40° | 232.8 | 8.6 |
| 40°-50° | 368.9 | 13.6 |
| 50°-60° | 650.8 | 24.0 |
| 60°-70° | 724.1 | 26.7 |
| 70°-80° | 367.3 | 13.5 |
| 80°-90° | 55.6 | 2.0 |
| 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° | 2716.6 | 100.0 |
| 0°-180° | 2716.6 | 100.0 |

Coefficient of Utilization



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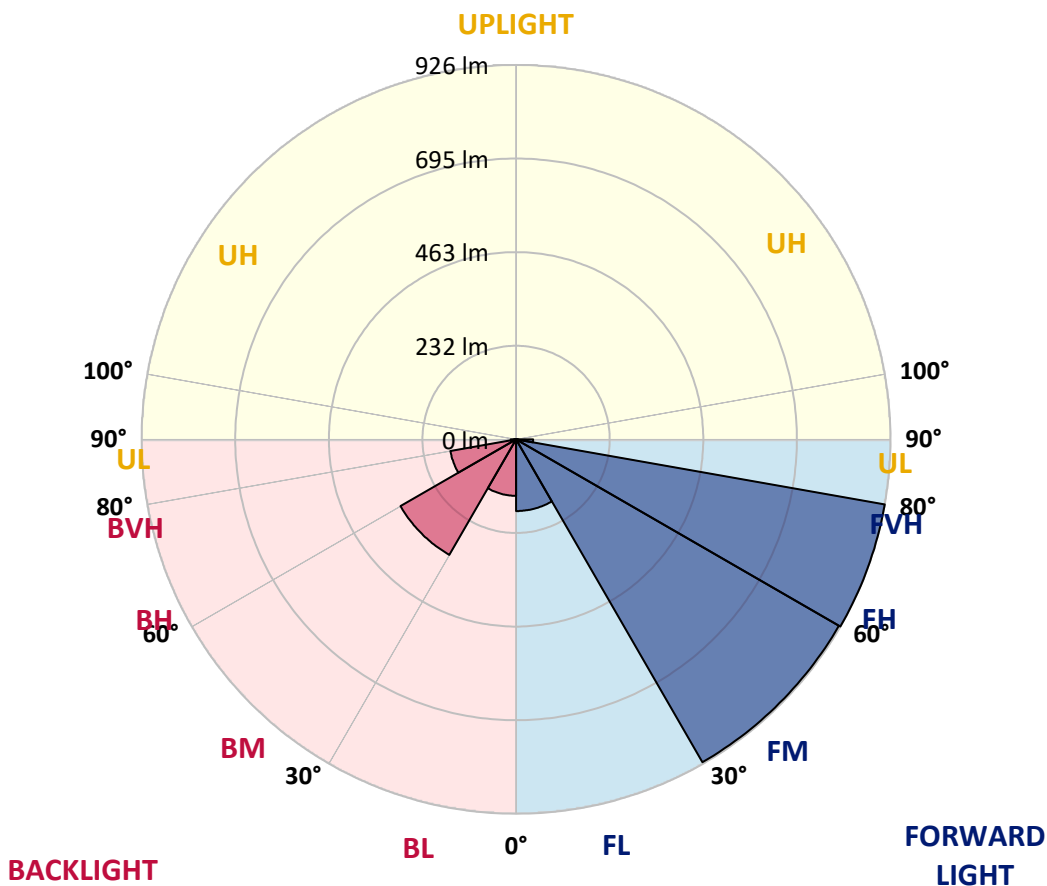
CATALOG NUMBER: GWS-SA1A-760-U-SLR-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 177.4 | 6.5 | | | |
| FM (30°-60°) | 922.4 | 34.0 | | | |
| FH (60°-80°) | 926.4 | 34.1 | | | G1/1800 |
| FVH (80°-90°) | 42.2 | 1.6 | | | G1/100 |
| BL (0°-30°) | 139.7 | 5.1 | B1/500 | | |
| BM (30°-60°) | 330.1 | 12.2 | B1/1000 | | |
| BH (60°-80°) | 165.0 | 6.1 | B1/500 | | G1/500 |
| BVH (80°-90°) | 13.4 | 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-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 360.5 | 360.5 | 360.5 | 360.5 | 360.5 | 360.5 | 360.5 | 360.5 | 360.5 | 360.5 | 360.5 |
| 2.5° | 387.5 | 387.3 | 391.2 | 397.2 | 402.7 | 405.2 | 409.3 | 408.9 | 405.6 | 401.3 | 399.8 |
| 5° | 417.9 | 418.8 | 425.5 | 438.7 | 453.3 | 459.5 | 462.2 | 461.1 | 455.2 | 447.5 | 434.2 |
| 7.5° | 445.5 | 446.9 | 457.4 | 477.2 | 495.3 | 503.5 | 510.1 | 508.8 | 500.2 | 486.0 | 466.3 |
| 10° | 465.6 | 467.3 | 479.8 | 503.1 | 523.2 | 530.4 | 538.9 | 539.3 | 531.7 | 512.5 | 492.4 |
| 12.5° | 485.8 | 487.4 | 499.2 | 520.4 | 533.5 | 533.7 | 538.7 | 541.3 | 541.7 | 532.9 | 512.7 |
| 15° | 506.8 | 508.2 | 518.9 | 530.8 | 530.2 | 518.7 | 518.7 | 523.9 | 535.2 | 541.5 | 527.6 |
| 17.5° | 524.7 | 526.5 | 534.8 | 530.8 | 512.5 | 491.8 | 489.3 | 495.9 | 515.6 | 540.1 | 538.7 |
| 20° | 539.5 | 540.9 | 545.5 | 519.5 | 486.2 | 459.1 | 454.3 | 461.9 | 488.7 | 531.3 | 547.1 |
| 22.5° | 553.7 | 554.5 | 552.0 | 504.7 | 457.8 | 426.8 | 421.0 | 429.0 | 457.8 | 515.6 | 554.3 |
| 25° | 570.5 | 569.7 | 558.0 | 489.3 | 431.9 | 401.3 | 395.3 | 404.4 | 434.4 | 494.9 | 562.1 |
| 27.5° | 590.1 | 587.0 | 563.1 | 472.6 | 412.0 | 382.3 | 378.2 | 387.9 | 415.9 | 475.7 | 568.3 |
| 30° | 606.7 | 600.8 | 564.0 | 457.8 | 401.7 | 374.3 | 371.9 | 380.9 | 406.8 | 462.8 | 576.1 |
| 32.5° | 625.3 | 617.0 | 568.7 | 453.9 | 407.4 | 393.7 | 397.0 | 397.6 | 409.3 | 459.1 | 587.8 |
| 35° | 651.8 | 641.1 | 581.6 | 465.2 | 466.7 | 489.9 | 501.8 | 485.8 | 446.5 | 467.3 | 610.0 |
| 37.5° | 691.9 | 678.3 | 608.0 | 514.2 | 589.1 | 641.1 | 669.9 | 633.3 | 559.6 | 498.4 | 643.6 |
| 40° | 740.6 | 723.4 | 641.7 | 604.7 | 703.4 | 786.7 | 837.9 | 784.2 | 676.1 | 575.9 | 690.7 |
| 42.5° | 808.7 | 790.6 | 707.1 | 693.5 | 809.3 | 933.4 | 1000.2 | 920.2 | 778.7 | 676.1 | 766.1 |
| 45° | 927.4 | 909.9 | 827.0 | 782.6 | 933.4 | 1113.9 | 1207.7 | 1096.5 | 883.0 | 776.6 | 907.2 |
| 47.5° | 1146.6 | 1126.1 | 1005.1 | 881.3 | 1074.9 | 1348.4 | 1479.6 | 1317.6 | 991.4 | 891.8 | 1144.2 |
| 50° | 1409.9 | 1390.2 | 1228.7 | 998.1 | 1231.2 | 1599.1 | 1781.6 | 1577.3 | 1116.2 | 1031.9 | 1427.4 |
| 52.5° | 1726.6 | 1722.9 | 1547.7 | 1145.8 | 1393.9 | 1866.5 | 2116.6 | 1865.1 | 1253.0 | 1220.5 | 1748.2 |
| 55° | 2012.1 | 2048.3 | 1952.9 | 1371.0 | 1604.1 | 2202.4 | 2461.1 | 2178.9 | 1438.5 | 1532.3 | 2124.0 |
| 57.5° | 2166.0 | 2263.2 | 2409.9 | 1830.5 | 1909.7 | 2603.8 | 2886.2 | 2562.1 | 1757.3 | 2051.4 | 2472.4 |
| 60° | 2064.4 | 2174.6 | 2440.3 | 2176.5 | 2212.9 | 2925.5 | 3237.1 | 2884.2 | 2070.3 | 2411.7 | 2452.7 |
| 62.5° | 1895.3 | 1994.2 | 2230.5 | 1974.5 | 2259.8 | 2996.3 | 3245.3 | 2940.3 | 2194.8 | 2228.9 | 2215.5 |
| 65° | 1694.8 | 1794.5 | 2044.8 | 1723.6 | 2110.6 | 2828.2 | 3005.9 | 2775.2 | 1971.2 | 2013.8 | 2018.7 |
| 67.5° | 1428.4 | 1520.6 | 1775.4 | 1532.5 | 1923.9 | 2581.6 | 2638.4 | 2539.9 | 1815.3 | 1883.2 | 1812.2 |
| 70° | 1067.2 | 1150.3 | 1375.3 | 1245.4 | 1621.7 | 2260.4 | 2214.5 | 2229.1 | 1640.3 | 1707.7 | 1513.8 |
| 72.5° | 729.3 | 791.8 | 984.8 | 978.6 | 1241.9 | 1809.5 | 1745.6 | 1884.0 | 1370.0 | 1459.5 | 1154.0 |
| 75° | 510.1 | 558.8 | 711.8 | 773.1 | 938.7 | 1341.2 | 1243.1 | 1410.1 | 1069.9 | 1197.6 | 842.0 |
| 77.5° | 313.0 | 345.3 | 449.6 | 572.8 | 603.9 | 917.9 | 772.1 | 1061.1 | 751.3 | 873.5 | 561.7 |
| 80° | 156.5 | 172.1 | 218.4 | 360.1 | 400.4 | 540.9 | 426.4 | 616.0 | 508.4 | 540.9 | 310.8 |
| 82.5° | 47.3 | 52.2 | 64.0 | 136.8 | 207.5 | 311.4 | 252.0 | 357.9 | 277.7 | 253.6 | 122.4 |
| 85° | 12.5 | 14.2 | 17.7 | 40.5 | 72.8 | 111.7 | 85.1 | 173.4 | 133.1 | 93.6 | 46.1 |
| 87.5° | 1.0 | 1.0 | 0.8 | 0.8 | 0.4 | 0.0 | 0.0 | 12.3 | 24.9 | 14.2 | 8.0 |
| 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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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 360.5 | 360.5 | 360.5 | 360.5 | 360.5 | 360.5 | 360.5 | 360.5 | 360.5 | 360.5 | 360.5 |
| 2.5° | 392.6 | 391.8 | 383.4 | 377.2 | 370.0 | 363.0 | 355.8 | 349.4 | 342.2 | 335.0 | 333.0 |
| 5° | 424.3 | 418.5 | 400.7 | 385.6 | 370.8 | 357.9 | 346.6 | 334.8 | 325.4 | 316.1 | 312.6 |
| 7.5° | 452.3 | 442.2 | 416.3 | 393.5 | 372.9 | 356.8 | 340.2 | 323.1 | 309.7 | 296.6 | 293.3 |
| 10° | 477.6 | 464.2 | 431.5 | 402.7 | 379.9 | 361.6 | 342.0 | 319.2 | 299.9 | 283.8 | 279.5 |
| 12.5° | 496.3 | 481.7 | 444.7 | 411.6 | 385.6 | 365.1 | 345.7 | 325.6 | 305.2 | 284.4 | 279.7 |
| 15° | 511.1 | 495.9 | 455.6 | 418.3 | 385.8 | 359.3 | 340.6 | 333.6 | 327.2 | 306.9 | 298.2 |
| 17.5° | 523.0 | 507.0 | 465.0 | 422.5 | 380.3 | 341.8 | 325.6 | 335.9 | 352.1 | 339.4 | 323.1 |
| 20° | 533.9 | 517.7 | 472.2 | 425.3 | 368.0 | 317.8 | 308.7 | 330.5 | 355.0 | 354.6 | 340.0 |
| 22.5° | 545.9 | 530.0 | 482.7 | 427.0 | 350.7 | 293.3 | 298.6 | 322.7 | 342.7 | 348.6 | 339.6 |
| 25° | 561.1 | 547.1 | 497.3 | 430.7 | 331.1 | 276.4 | 291.2 | 312.6 | 329.3 | 330.7 | 325.4 |
| 27.5° | 578.8 | 568.3 | 519.1 | 439.3 | 312.2 | 267.8 | 282.6 | 298.4 | 313.7 | 314.3 | 307.9 |
| 30° | 598.1 | 591.1 | 539.3 | 446.5 | 298.0 | 265.1 | 271.5 | 284.2 | 293.9 | 295.6 | 290.0 |
| 32.5° | 622.8 | 616.6 | 557.2 | 441.8 | 289.6 | 264.5 | 261.2 | 267.8 | 275.8 | 275.8 | 271.5 |
| 35° | 656.7 | 648.1 | 576.1 | 423.7 | 279.3 | 262.0 | 250.3 | 252.2 | 255.7 | 256.3 | 253.8 |
| 37.5° | 704.8 | 690.7 | 595.2 | 387.9 | 262.4 | 253.2 | 237.8 | 235.5 | 236.7 | 238.4 | 237.8 |
| 40° | 764.5 | 741.3 | 623.2 | 344.9 | 242.3 | 236.1 | 224.8 | 220.5 | 219.5 | 222.7 | 224.0 |
| 42.5° | 839.6 | 804.0 | 653.2 | 304.8 | 224.0 | 216.6 | 209.6 | 205.9 | 204.2 | 209.8 | 213.1 |
| 45° | 959.5 | 900.9 | 682.0 | 265.1 | 213.7 | 199.9 | 195.2 | 192.5 | 193.3 | 199.9 | 204.0 |
| 47.5° | 1166.6 | 1048.7 | 709.4 | 240.0 | 212.9 | 188.0 | 182.2 | 182.8 | 185.1 | 192.1 | 197.0 |
| 50° | 1428.6 | 1246.8 | 727.7 | 229.5 | 215.3 | 180.8 | 173.2 | 176.5 | 180.0 | 186.8 | 192.5 |
| 52.5° | 1695.4 | 1431.3 | 705.9 | 223.8 | 215.1 | 181.0 | 164.7 | 174.6 | 176.3 | 183.1 | 189.2 |
| 55° | 1878.8 | 1451.9 | 609.8 | 214.9 | 211.8 | 189.2 | 158.2 | 173.8 | 174.8 | 181.0 | 186.5 |
| 57.5° | 1948.8 | 1381.5 | 465.0 | 217.4 | 202.0 | 195.6 | 155.3 | 168.0 | 175.4 | 180.8 | 186.5 |
| 60° | 1864.2 | 1248.9 | 282.6 | 223.8 | 186.1 | 195.2 | 157.1 | 157.5 | 170.3 | 179.3 | 185.1 |
| 62.5° | 1704.8 | 1078.6 | 198.5 | 205.7 | 174.6 | 184.3 | 161.5 | 145.2 | 161.2 | 172.1 | 177.3 |
| 65° | 1522.2 | 878.2 | 151.4 | 177.1 | 169.1 | 167.4 | 162.9 | 134.3 | 148.9 | 159.6 | 164.1 |
| 67.5° | 1332.0 | 682.6 | 123.0 | 132.0 | 152.8 | 151.4 | 148.9 | 124.6 | 134.3 | 141.9 | 147.1 |
| 70° | 1092.3 | 477.6 | 103.9 | 99.1 | 131.0 | 135.7 | 130.2 | 112.5 | 115.6 | 123.4 | 127.5 |
| 72.5° | 799.0 | 297.6 | 85.4 | 81.9 | 105.3 | 118.7 | 115.8 | 99.1 | 100.6 | 108.0 | 111.3 |
| 75° | 574.7 | 170.3 | 68.5 | 67.5 | 80.4 | 101.6 | 95.8 | 85.4 | 87.0 | 92.6 | 94.8 |
| 77.5° | 365.3 | 94.8 | 52.9 | 54.3 | 57.6 | 75.9 | 81.9 | 73.0 | 73.0 | 76.3 | 78.2 |
| 80° | 195.6 | 54.3 | 38.7 | 39.3 | 40.3 | 58.0 | 64.6 | 56.6 | 56.6 | 54.3 | 56.6 |
| 82.5° | 79.8 | 31.3 | 26.5 | 24.7 | 26.9 | 39.7 | 45.2 | 36.0 | 37.6 | 33.9 | 34.8 |
| 85° | 26.3 | 15.6 | 13.2 | 13.0 | 12.8 | 17.5 | 21.8 | 17.9 | 21.4 | 13.6 | 14.2 |
| 87.5° | 3.5 | 2.9 | 1.6 | 1.2 | 1.4 | 0.6 | 1.2 | 1.4 | 1.4 | 1.0 | 1.0 |
| 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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CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 360.5 | 360.5 | 360.5 | 360.5 | 360.5 | 360.5 | 360.5 | 360.5 | 360.5 | 360.5 | 360.5 |
| 2.5° | 331.5 | 329.9 | 323.9 | 325.4 | 324.3 | 322.7 | 324.3 | 321.3 | 323.7 | 324.6 | 329.7 |
| 5° | 310.0 | 306.0 | 300.3 | 297.4 | 296.8 | 295.1 | 295.3 | 293.9 | 294.3 | 297.8 | 303.6 |
| 7.5° | 290.6 | 286.9 | 282.4 | 280.3 | 278.5 | 276.6 | 276.4 | 276.2 | 277.9 | 281.0 | 286.5 |
| 10° | 276.6 | 274.6 | 272.7 | 273.5 | 272.7 | 271.9 | 270.5 | 270.5 | 273.1 | 278.7 | 285.5 |
| 12.5° | 276.6 | 276.2 | 276.6 | 279.1 | 278.9 | 279.1 | 277.2 | 278.3 | 285.7 | 295.1 | 304.8 |
| 15° | 291.4 | 288.2 | 288.2 | 289.4 | 289.0 | 289.0 | 289.0 | 293.3 | 310.2 | 324.8 | 335.0 |
| 17.5° | 309.5 | 299.9 | 295.8 | 295.1 | 294.9 | 294.9 | 295.8 | 305.0 | 331.3 | 346.8 | 352.7 |
| 20° | 322.1 | 303.8 | 297.0 | 294.3 | 294.5 | 294.9 | 297.4 | 310.2 | 339.2 | 347.0 | 345.5 |
| 22.5° | 324.3 | 300.7 | 292.5 | 288.6 | 289.2 | 289.6 | 293.3 | 306.9 | 328.5 | 329.7 | 326.8 |
| 25° | 313.9 | 292.1 | 283.2 | 280.1 | 281.0 | 280.7 | 284.0 | 293.9 | 309.3 | 308.9 | 307.3 |
| 27.5° | 298.2 | 278.3 | 271.7 | 269.6 | 271.1 | 269.4 | 270.5 | 278.1 | 290.0 | 289.6 | 289.0 |
| 30° | 282.2 | 264.9 | 258.9 | 257.9 | 259.8 | 257.3 | 257.5 | 263.9 | 272.1 | 271.7 | 271.5 |
| 32.5° | 266.1 | 251.5 | 246.2 | 246.2 | 248.0 | 245.4 | 245.8 | 251.3 | 256.9 | 255.2 | 255.2 |
| 35° | 250.9 | 240.6 | 236.3 | 235.5 | 236.9 | 235.1 | 235.9 | 241.1 | 243.1 | 240.8 | 239.4 |
| 37.5° | 237.6 | 233.0 | 228.7 | 225.8 | 226.0 | 226.2 | 228.7 | 232.6 | 231.4 | 228.1 | 226.2 |
| 40° | 225.2 | 225.2 | 221.1 | 215.8 | 215.1 | 216.6 | 220.7 | 225.0 | 221.5 | 217.8 | 215.5 |
| 42.5° | 216.4 | 218.2 | 214.3 | 209.0 | 207.7 | 210.2 | 214.7 | 217.8 | 213.7 | 209.6 | 206.5 |
| 45° | 208.1 | 212.7 | 210.0 | 204.0 | 202.4 | 205.3 | 211.0 | 212.3 | 206.7 | 202.8 | 200.5 |
| 47.5° | 202.4 | 208.6 | 206.7 | 200.9 | 198.5 | 202.6 | 208.6 | 208.3 | 201.4 | 197.2 | 195.4 |
| 50° | 198.3 | 206.1 | 205.9 | 200.9 | 198.3 | 203.4 | 208.8 | 206.1 | 198.5 | 194.2 | 192.3 |
| 52.5° | 195.0 | 205.9 | 207.3 | 204.4 | 202.6 | 207.1 | 210.4 | 205.3 | 196.4 | 191.9 | 190.5 |
| 55° | 193.5 | 206.7 | 207.7 | 205.1 | 203.4 | 207.5 | 210.4 | 206.9 | 196.4 | 192.3 | 191.1 |
| 57.5° | 194.0 | 205.7 | 205.9 | 202.2 | 199.3 | 204.4 | 209.0 | 207.9 | 198.7 | 194.0 | 192.5 |
| 60° | 191.5 | 200.1 | 200.5 | 194.8 | 191.5 | 197.7 | 205.7 | 205.1 | 197.7 | 192.7 | 190.0 |
| 62.5° | 183.3 | 190.9 | 191.1 | 185.7 | 181.0 | 189.8 | 198.7 | 198.5 | 191.7 | 186.8 | 183.7 |
| 65° | 169.5 | 177.5 | 179.6 | 174.4 | 170.7 | 180.2 | 189.4 | 189.0 | 182.2 | 177.7 | 174.6 |
| 67.5° | 152.4 | 161.0 | 165.0 | 161.5 | 160.0 | 168.7 | 177.3 | 177.1 | 171.5 | 167.2 | 164.5 |
| 70° | 131.6 | 138.8 | 145.4 | 145.4 | 144.4 | 154.3 | 163.5 | 162.7 | 157.5 | 154.3 | 152.2 |
| 72.5° | 114.4 | 119.9 | 122.0 | 124.0 | 127.1 | 137.4 | 145.2 | 145.8 | 142.1 | 140.5 | 142.1 |
| 75° | 97.3 | 100.8 | 102.6 | 101.0 | 106.3 | 117.0 | 127.3 | 128.3 | 124.4 | 121.8 | 122.4 |
| 77.5° | 80.0 | 83.9 | 85.8 | 82.1 | 81.7 | 95.2 | 107.8 | 110.0 | 106.7 | 102.6 | 103.9 |
| 80° | 57.8 | 62.9 | 66.0 | 63.6 | 62.7 | 68.7 | 86.0 | 88.4 | 85.4 | 82.1 | 83.9 |
| 82.5° | 35.4 | 38.3 | 39.1 | 41.5 | 46.7 | 49.2 | 55.3 | 63.6 | 61.3 | 58.4 | 63.6 |
| 85° | 14.0 | 16.7 | 18.5 | 21.0 | 24.5 | 29.0 | 34.1 | 40.7 | 37.0 | 35.8 | 42.2 |
| 87.5° | 0.8 | 0.2 | 0.0 | 0.4 | 3.5 | 6.8 | 14.6 | 20.2 | 16.9 | 18.1 | 21.8 |
| 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: P628973
 CATALOG NUMBER: GWS-SA1A-760-U-SLR-W

CANDELA DISTRIBUTION (continued):

| | 285° | 295° | 305° | 315° | 325° | 335° | 345° | 355° | 359° | 360° |
|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|
| 0° | 360.5 | 360.5 | 360.5 | 360.5 | 360.5 | 360.5 | 360.5 | 360.5 | 360.5 | 360.5 |
| 2.5° | 333.8 | 339.2 | 346.4 | 352.3 | 359.9 | 367.1 | 374.5 | 381.9 | 385.8 | 387.5 |
| 5° | 310.2 | 320.0 | 331.5 | 344.3 | 359.1 | 374.7 | 390.6 | 406.8 | 417.1 | 417.9 |
| 7.5° | 296.0 | 310.2 | 326.0 | 342.0 | 360.3 | 381.9 | 407.0 | 432.1 | 442.6 | 445.5 |
| 10° | 300.5 | 316.3 | 328.9 | 343.9 | 364.0 | 391.0 | 420.6 | 450.0 | 462.2 | 465.6 |
| 12.5° | 318.6 | 321.7 | 325.6 | 339.4 | 364.0 | 398.8 | 434.6 | 469.6 | 482.5 | 485.8 |
| 15° | 333.6 | 318.8 | 311.8 | 326.4 | 359.1 | 405.6 | 449.4 | 488.1 | 503.7 | 506.8 |
| 17.5° | 334.8 | 309.3 | 294.1 | 307.3 | 350.5 | 410.3 | 463.6 | 508.6 | 521.8 | 524.7 |
| 20° | 322.3 | 299.3 | 279.5 | 287.5 | 338.7 | 412.4 | 473.9 | 523.6 | 536.6 | 539.5 |
| 22.5° | 308.1 | 291.0 | 269.6 | 269.2 | 324.6 | 414.6 | 486.2 | 537.8 | 551.8 | 553.7 |
| 25° | 294.7 | 279.7 | 261.6 | 255.9 | 308.1 | 419.0 | 502.9 | 559.2 | 569.9 | 570.5 |
| 27.5° | 279.1 | 267.6 | 255.2 | 249.7 | 293.7 | 427.2 | 527.6 | 584.7 | 591.1 | 590.1 |
| 30° | 264.9 | 256.3 | 250.7 | 249.1 | 284.7 | 433.4 | 551.0 | 609.8 | 610.2 | 606.7 |
| 32.5° | 249.9 | 246.6 | 246.6 | 252.0 | 277.2 | 431.9 | 570.1 | 634.3 | 630.4 | 625.3 |
| 35° | 236.5 | 237.1 | 241.5 | 254.0 | 264.9 | 417.5 | 588.4 | 664.9 | 659.2 | 651.8 |
| 37.5° | 223.8 | 228.5 | 234.7 | 246.8 | 248.7 | 396.1 | 609.8 | 708.3 | 701.1 | 691.9 |
| 40° | 212.9 | 220.1 | 227.3 | 233.2 | 231.4 | 365.7 | 639.6 | 759.4 | 751.3 | 740.6 |
| 42.5° | 204.2 | 211.2 | 219.2 | 219.9 | 220.5 | 334.0 | 671.3 | 821.9 | 820.4 | 808.7 |
| 45° | 198.7 | 203.2 | 210.8 | 209.8 | 219.9 | 299.1 | 700.5 | 917.3 | 936.2 | 927.4 |
| 47.5° | 195.0 | 198.5 | 199.3 | 203.6 | 225.2 | 267.8 | 738.2 | 1104.1 | 1156.7 | 1146.6 |
| 50° | 192.9 | 196.4 | 187.2 | 204.0 | 226.0 | 247.6 | 790.2 | 1338.5 | 1423.3 | 1409.9 |
| 52.5° | 192.7 | 191.9 | 177.9 | 208.3 | 221.5 | 235.3 | 817.4 | 1509.7 | 1697.6 | 1726.6 |
| 55° | 193.1 | 182.8 | 173.2 | 209.6 | 212.5 | 230.8 | 726.4 | 1591.9 | 1950.8 | 2012.1 |
| 57.5° | 189.4 | 173.0 | 175.9 | 204.6 | 195.4 | 242.9 | 537.0 | 1562.5 | 2052.0 | 2166.0 |
| 60° | 182.4 | 163.5 | 180.8 | 191.3 | 177.9 | 222.1 | 369.8 | 1431.3 | 1947.1 | 2064.4 |
| 62.5° | 172.4 | 156.9 | 180.2 | 174.0 | 171.5 | 181.8 | 254.2 | 1247.6 | 1780.7 | 1895.3 |
| 65° | 161.0 | 151.6 | 170.5 | 157.3 | 158.8 | 139.9 | 179.8 | 1040.3 | 1582.1 | 1694.8 |
| 67.5° | 148.9 | 148.3 | 156.3 | 140.1 | 134.1 | 110.9 | 131.0 | 833.8 | 1326.8 | 1428.4 |
| 70° | 135.1 | 139.7 | 142.1 | 124.4 | 108.8 | 87.0 | 97.3 | 583.1 | 978.8 | 1067.2 |
| 72.5° | 121.3 | 121.8 | 125.3 | 108.2 | 81.4 | 69.7 | 73.0 | 353.1 | 664.9 | 729.3 |
| 75° | 107.4 | 103.5 | 106.7 | 88.0 | 60.7 | 57.2 | 56.4 | 218.2 | 459.3 | 510.1 |
| 77.5° | 92.3 | 88.0 | 83.7 | 66.2 | 48.7 | 44.2 | 43.2 | 122.4 | 281.8 | 313.0 |
| 80° | 75.1 | 69.3 | 62.5 | 48.5 | 35.6 | 31.7 | 31.5 | 59.6 | 140.5 | 156.5 |
| 82.5° | 58.4 | 47.5 | 45.7 | 30.2 | 22.0 | 19.3 | 20.6 | 22.8 | 42.4 | 47.3 |
| 85° | 40.9 | 34.6 | 24.3 | 12.1 | 9.9 | 8.0 | 7.8 | 6.8 | 11.3 | 12.5 |
| 87.5° | 22.8 | 15.0 | 7.8 | 1.4 | 1.6 | 1.9 | 1.4 | 1.0 | 1.0 | 1.0 |
| 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: SP1-1908-441-9-R4

Test Date: 10/23/2019

Luminaire Tested: SA1C-760-U-5WQ

Data in this report applies to families of products SA1C-760-U-5WQ .

Test Information

Test Method: LM-79-2008
 Report Number: SP1-1908-441-9-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-760-U-5WQ**
 Description: McGRAW EDISON ROADWAY AND AREA LUMINAIRE

THIS IS A REVISION OF SP1-1908-441-4-R3. TO UPDATE THE CATALOG INFORMATION.TESTED IN SITU. ROADWAY AND AREA LUMINAIRE. (1) 70 CRI, 5000K, 1050MA LIGHTSQUARE WITH 16 LEDS AND TYPE V WIDE OPTICS.

Spectral Parameters

CCT (K): 5474
 CIE u': 0.2052
 CIE v': 0.4804
 Duv: 0.0025
 CIE x: 0.3330
 CIE y: 0.3466
 CIE z: 0.3204
 Peak Wavelength (nm): 442
 Dominant Wavelength (nm): 554
 Purity: 4.1

| | | | |
|-----------|------|------|-------|
| CRI (Ra): | 71.7 | | |
| R1: | 70.6 | R9: | -27.1 |
| R2: | 74.6 | R10: | 40.8 |
| R3: | 78.3 | R11: | 74.6 |
| R4: | 73.8 | R12: | 50.4 |
| R5: | 72.4 | R13: | 70.0 |
| R6: | 67.5 | R14: | 87.8 |
| R7: | 77.5 | | |
| R8: | 58.9 | | |

Rf: 72.1
 Rg: 97.2



Test Conditions

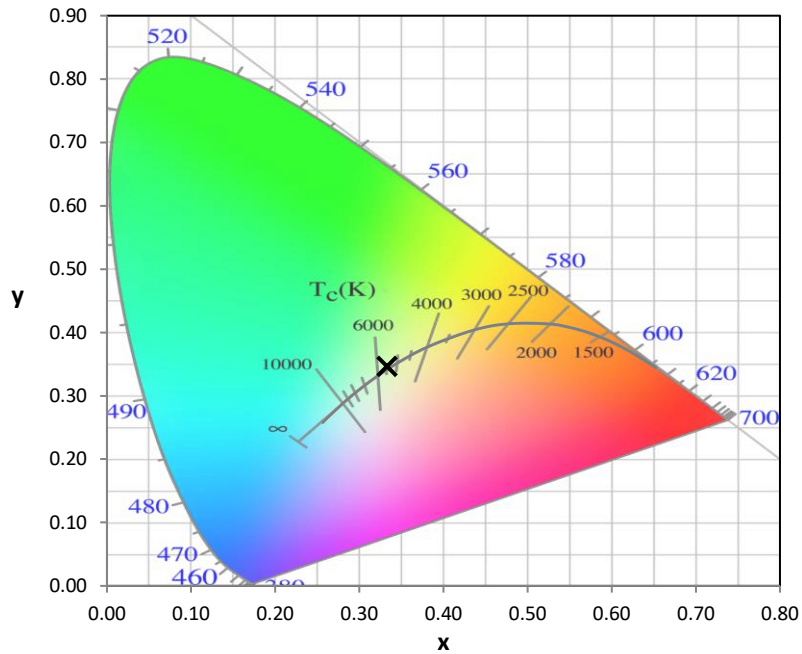
Stabilization Time: 240M
 Operation Time: 12H
 Room Temperature (°C) / RH%: 24.6/31%
 Sphere Temperature (°C): 25.9

REPORT NUMBER: SP1-1908-441-9-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: SP1-1908-441-9-R4

CIE 1931 Chromaticity Diagram



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



Point lies inside the ANSI 5700K 4-step quadrangle

REPORT NUMBER: SP1-1908-441-9-R4

Photopic Flux vs. Wavelength



#####

| λ (nm) | Power ($\mu\text{W}/\text{nm}$) | Lumens (ϕ/nm) | λ (nm) | Power ($\mu\text{W}/\text{nm}$) | Lumens (ϕ/nm) | λ (nm) | Power ($\mu\text{W}/\text{nm}$) | Lumens (ϕ/nm) | λ (nm) | Power ($\mu\text{W}/\text{nm}$) | Lumens (ϕ/nm) | λ (nm) | Power ($\mu\text{W}/\text{nm}$) | Lumens (ϕ/nm) |
|-------------------|--------------------------------------|--------------------------------|-------------------|--------------------------------------|--------------------------------|-------------------|--------------------------------------|--------------------------------|-------------------|--------------------------------------|--------------------------------|-------------------|--------------------------------------|--------------------------------|
| 360 | 3540 | NR | 490 | 33363 | NR | 620 | 80193 | NR | 750 | 4663 | NR | 880 | 4678 | NR |
| 365 | 2862 | NR | 495 | 44177 | NR | 625 | 73091 | NR | 755 | 4147 | NR | 885 | 4128 | NR |
| 370 | 2865 | NR | 500 | 57019 | NR | 630 | 66269 | NR | 760 | 4040 | NR | 890 | 4504 | NR |
| 375 | 3254 | NR | 505 | 70030 | NR | 635 | 60012 | NR | 765 | 3474 | NR | 895 | 4371 | NR |
| 380 | 3076 | NR | 510 | 81972 | NR | 640 | 53914 | NR | 770 | 3469 | NR | 900 | 4082 | NR |
| 385 | 2904 | NR | 515 | 92590 | NR | 645 | 48385 | NR | 775 | 3181 | NR | 905 | 2982 | NR |
| 390 | 2689 | NR | 520 | 100305 | NR | 650 | 43219 | NR | 780 | 2969 | NR | 910 | 4351 | NR |
| 395 | 2619 | NR | 525 | 107452 | NR | 655 | 38562 | NR | 785 | 3132 | NR | 915 | 3365 | NR |
| 400 | 2679 | NR | 530 | 111373 | NR | 660 | 34110 | NR | 790 | 2507 | NR | 920 | 3430 | NR |
| 405 | 3515 | NR | 535 | 114505 | NR | 665 | 30085 | NR | 795 | 2968 | NR | 925 | 4264 | NR |
| 410 | 6934 | NR | 540 | 116408 | NR | 670 | 26205 | NR | 800 | 2758 | NR | 930 | 4095 | NR |
| 415 | 14943 | NR | 545 | 118700 | NR | 675 | 22906 | NR | 805 | 2872 | NR | 935 | 5048 | NR |
| 420 | 31939 | NR | 550 | 119209 | NR | 680 | 20058 | NR | 810 | 3094 | NR | 940 | 4074 | NR |
| 425 | 64701 | NR | 555 | 120742 | NR | 685 | 17413 | NR | 815 | 3222 | NR | 945 | 4949 | NR |
| 430 | 110939 | NR | 560 | 121594 | NR | 690 | 15447 | NR | 820 | 3238 | NR | 950 | 4387 | NR |
| 435 | 164597 | NR | 565 | 121913 | NR | 695 | 13398 | NR | 825 | 3524 | NR | 955 | 4978 | NR |
| 440 | 207696 | NR | 570 | 122147 | NR | 700 | 11777 | NR | 830 | 2921 | NR | 960 | 4706 | NR |
| 445 | 201830 | NR | 575 | 121605 | NR | 705 | 10412 | NR | 835 | 3595 | NR | 965 | 5083 | NR |
| 450 | 145410 | NR | 580 | 120248 | NR | 710 | 9544 | NR | 840 | 3016 | NR | 970 | 4522 | NR |
| 455 | 89594 | NR | 585 | 117717 | NR | 715 | 8940 | NR | 845 | 4032 | NR | 975 | 4740 | NR |
| 460 | 58321 | NR | 590 | 114359 | NR | 720 | 7897 | NR | 850 | 3579 | NR | 980 | 6122 | NR |
| 465 | 39318 | NR | 595 | 109974 | NR | 725 | 7045 | NR | 855 | 4571 | NR | 985 | 6450 | NR |
| 470 | 27693 | NR | 600 | 105269 | NR | 730 | 6483 | NR | 860 | 4485 | NR | 990 | 4875 | NR |
| 475 | 23081 | NR | 605 | 99453 | NR | 735 | 5838 | NR | 865 | 3978 | NR | 995 | 4764 | NR |
| 480 | 23002 | NR | 610 | 92921 | NR | 740 | 5261 | NR | 870 | 4298 | NR | 1000 | 3640 | NR |
| 485 | 26201 | NR | 615 | 86989 | NR | 745 | 4760 | NR | 875 | 4356 | NR | | | |

REPORT NUMBER: SP1-1908-441-9-R4

Scotopic Flux vs. Wavelength



Scotopic Lumens: 13759.3 S/P: 1.85

| 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 | 3540 | NR | 490 | 33363 | NR | 620 | 80193 | NR | 750 | 4663 | NR | 880 | 4678 | NR |
| 365 | 2862 | NR | 495 | 44177 | NR | 625 | 73091 | NR | 755 | 4147 | NR | 885 | 4128 | NR |
| 370 | 2865 | NR | 500 | 57019 | NR | 630 | 66269 | NR | 760 | 4040 | NR | 890 | 4504 | NR |
| 375 | 3254 | NR | 505 | 70030 | NR | 635 | 60012 | NR | 765 | 3474 | NR | 895 | 4371 | NR |
| 380 | 3076 | NR | 510 | 81972 | NR | 640 | 53914 | NR | 770 | 3469 | NR | 900 | 4082 | NR |
| 385 | 2904 | NR | 515 | 92590 | NR | 645 | 48385 | NR | 775 | 3181 | NR | 905 | 2982 | NR |
| 390 | 2689 | NR | 520 | 100305 | NR | 650 | 43219 | NR | 780 | 2969 | NR | 910 | 4351 | NR |
| 395 | 2619 | NR | 525 | 107452 | NR | 655 | 38562 | NR | 785 | 3132 | NR | 915 | 3365 | NR |
| 400 | 2679 | NR | 530 | 111373 | NR | 660 | 34110 | NR | 790 | 2507 | NR | 920 | 3430 | NR |
| 405 | 3515 | NR | 535 | 114505 | NR | 665 | 30085 | NR | 795 | 2968 | NR | 925 | 4264 | NR |
| 410 | 6934 | NR | 540 | 116408 | NR | 670 | 26205 | NR | 800 | 2758 | NR | 930 | 4095 | NR |
| 415 | 14943 | NR | 545 | 118700 | NR | 675 | 22906 | NR | 805 | 2872 | NR | 935 | 5048 | NR |
| 420 | 31939 | NR | 550 | 119209 | NR | 680 | 20058 | NR | 810 | 3094 | NR | 940 | 4074 | NR |
| 425 | 64701 | NR | 555 | 120742 | NR | 685 | 17413 | NR | 815 | 3222 | NR | 945 | 4949 | NR |
| 430 | 110939 | NR | 560 | 121594 | NR | 690 | 15447 | NR | 820 | 3238 | NR | 950 | 4387 | NR |
| 435 | 164597 | NR | 565 | 121913 | NR | 695 | 13398 | NR | 825 | 3524 | NR | 955 | 4978 | NR |
| 440 | 207696 | NR | 570 | 122147 | NR | 700 | 11777 | NR | 830 | 2921 | NR | 960 | 4706 | NR |
| 445 | 201830 | NR | 575 | 121605 | NR | 705 | 10412 | NR | 835 | 3595 | NR | 965 | 5083 | NR |
| 450 | 145410 | NR | 580 | 120248 | NR | 710 | 9544 | NR | 840 | 3016 | NR | 970 | 4522 | NR |
| 455 | 89594 | NR | 585 | 117717 | NR | 715 | 8940 | NR | 845 | 4032 | NR | 975 | 4740 | NR |
| 460 | 58321 | NR | 590 | 114359 | NR | 720 | 7897 | NR | 850 | 3579 | NR | 980 | 6122 | NR |
| 465 | 39318 | NR | 595 | 109974 | NR | 725 | 7045 | NR | 855 | 4571 | NR | 985 | 6450 | NR |
| 470 | 27693 | NR | 600 | 105269 | NR | 730 | 6483 | NR | 860 | 4485 | NR | 990 | 4875 | NR |
| 475 | 23081 | NR | 605 | 99453 | NR | 735 | 5838 | NR | 865 | 3978 | NR | 995 | 4764 | NR |
| 480 | 23002 | NR | 610 | 92921 | NR | 740 | 5261 | NR | 870 | 4298 | NR | 1000 | 3640 | NR |
| 485 | 26201 | NR | 615 | 86989 | NR | 745 | 4760 | NR | 875 | 4356 | NR | | | |

REPORT NUMBER: SP1-1908-441-9-R4

Melanopic Flux vs. Wavelength



Melanopic Lumens: 5527.6 M/P: 0.74

| 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 | 3540 | NR | 490 | 33363 | NR | 620 | 80193 | NR | 750 | 4663 | NR | 880 | 4678 | NR |
| 365 | 2862 | NR | 495 | 44177 | NR | 625 | 73091 | NR | 755 | 4147 | NR | 885 | 4128 | NR |
| 370 | 2865 | NR | 500 | 57019 | NR | 630 | 66269 | NR | 760 | 4040 | NR | 890 | 4504 | NR |
| 375 | 3254 | NR | 505 | 70030 | NR | 635 | 60012 | NR | 765 | 3474 | NR | 895 | 4371 | NR |
| 380 | 3076 | NR | 510 | 81972 | NR | 640 | 53914 | NR | 770 | 3469 | NR | 900 | 4082 | NR |
| 385 | 2904 | NR | 515 | 92590 | NR | 645 | 48385 | NR | 775 | 3181 | NR | 905 | 2982 | NR |
| 390 | 2689 | NR | 520 | 100305 | NR | 650 | 43219 | NR | 780 | 2969 | NR | 910 | 4351 | NR |
| 395 | 2619 | NR | 525 | 107452 | NR | 655 | 38562 | NR | 785 | 3132 | NR | 915 | 3365 | NR |
| 400 | 2679 | NR | 530 | 111373 | NR | 660 | 34110 | NR | 790 | 2507 | NR | 920 | 3430 | NR |
| 405 | 3515 | NR | 535 | 114505 | NR | 665 | 30085 | NR | 795 | 2968 | NR | 925 | 4264 | NR |
| 410 | 6934 | NR | 540 | 116408 | NR | 670 | 26205 | NR | 800 | 2758 | NR | 930 | 4095 | NR |
| 415 | 14943 | NR | 545 | 118700 | NR | 675 | 22906 | NR | 805 | 2872 | NR | 935 | 5048 | NR |
| 420 | 31939 | NR | 550 | 119209 | NR | 680 | 20058 | NR | 810 | 3094 | NR | 940 | 4074 | NR |
| 425 | 64701 | NR | 555 | 120742 | NR | 685 | 17413 | NR | 815 | 3222 | NR | 945 | 4949 | NR |
| 430 | 110939 | NR | 560 | 121594 | NR | 690 | 15447 | NR | 820 | 3238 | NR | 950 | 4387 | NR |
| 435 | 164597 | NR | 565 | 121913 | NR | 695 | 13398 | NR | 825 | 3524 | NR | 955 | 4978 | NR |
| 440 | 207696 | NR | 570 | 122147 | NR | 700 | 11777 | NR | 830 | 2921 | NR | 960 | 4706 | NR |
| 445 | 201830 | NR | 575 | 121605 | NR | 705 | 10412 | NR | 835 | 3595 | NR | 965 | 5083 | NR |
| 450 | 145410 | NR | 580 | 120248 | NR | 710 | 9544 | NR | 840 | 3016 | NR | 970 | 4522 | NR |
| 455 | 89594 | NR | 585 | 117717 | NR | 715 | 8940 | NR | 845 | 4032 | NR | 975 | 4740 | NR |
| 460 | 58321 | NR | 590 | 114359 | NR | 720 | 7897 | NR | 850 | 3579 | NR | 980 | 6122 | NR |
| 465 | 39318 | NR | 595 | 109974 | NR | 725 | 7045 | NR | 855 | 4571 | NR | 985 | 6450 | NR |
| 470 | 27693 | NR | 600 | 105269 | NR | 730 | 6483 | NR | 860 | 4485 | NR | 990 | 4875 | NR |
| 475 | 23081 | NR | 605 | 99453 | NR | 735 | 5838 | NR | 865 | 3978 | NR | 995 | 4764 | NR |
| 480 | 23002 | NR | 610 | 92921 | NR | 740 | 5261 | NR | 870 | 4298 | NR | 1000 | 3640 | NR |
| 485 | 26201 | NR | 615 | 86989 | NR | 745 | 4760 | NR | 875 | 4356 | NR | | | |

REPORT NUMBER: SP1-1908-441-9-R4

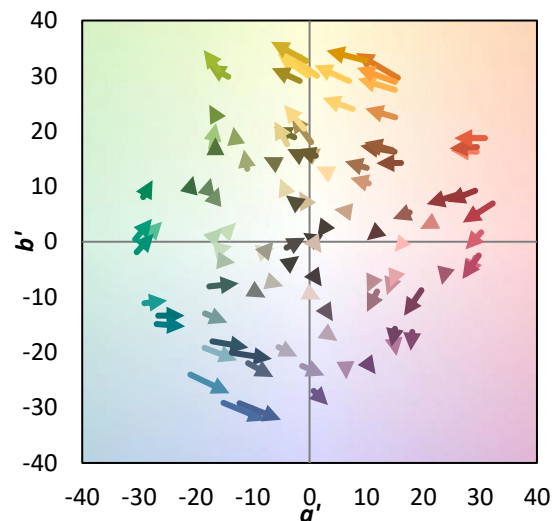
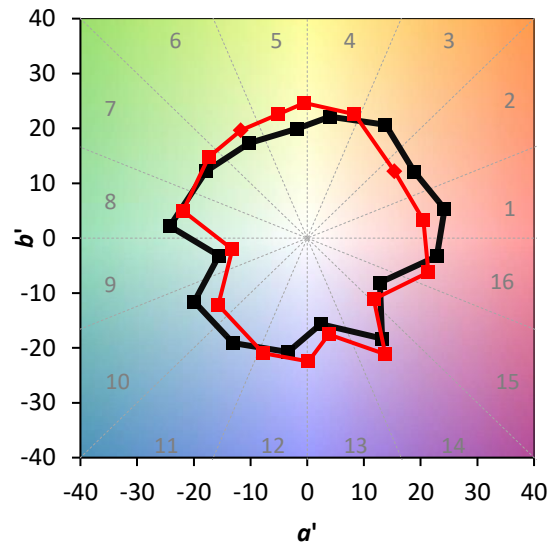
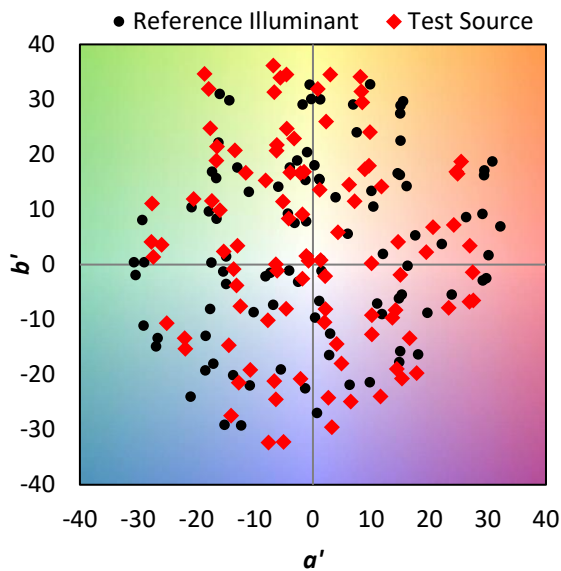
TM-30-18

Summary

$R_f = 72.1$
 $R_g = 97.2$
 CIE $R_a = 71.7$
 $R_g = -27.1$



Color Vector Graphics



REPORT NUMBER: SP1-1908-441-9-R4

TM-30-18

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

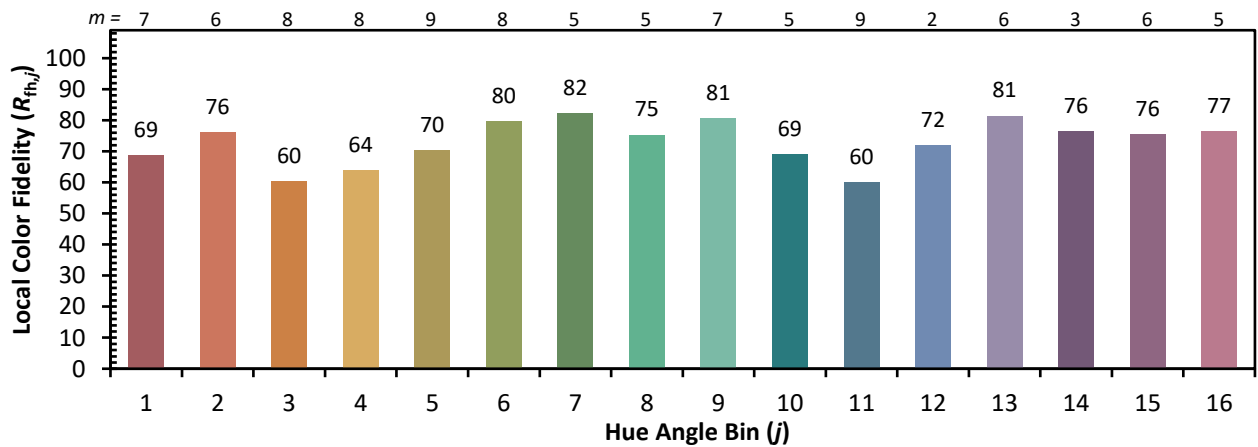
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|------------|------------|------------|------------|
| CES01 = 85 | CES26 = 54 | CES51 = 88 | CES76 = 43 |
| CES02 = 59 | CES27 = 79 | CES52 = 90 | CES77 = 64 |
| CES03 = 30 | CES28 = 77 | CES53 = 77 | CES78 = 46 |
| CES04 = 69 | CES29 = 50 | CES54 = 81 | CES79 = 74 |
| CES05 = 46 | CES30 = 59 | CES55 = 80 | CES80 = 70 |
| CES06 = 50 | CES31 = 55 | CES56 = 70 | CES81 = 71 |
| CES07 = 38 | CES32 = 52 | CES57 = 68 | CES82 = 88 |
| CES08 = 38 | CES33 = 63 | CES58 = 70 | CES83 = 82 |
| CES09 = 29 | CES34 = 63 | CES59 = 88 | CES84 = 87 |
| CES10 = 72 | CES35 = 79 | CES60 = 92 | CES85 = 84 |
| CES11 = 55 | CES36 = 90 | CES61 = 88 | CES86 = 76 |
| CES12 = 61 | CES37 = 72 | CES62 = 81 | CES87 = 75 |
| CES13 = 41 | CES38 = 68 | CES63 = 75 | CES88 = 77 |
| CES14 = 74 | CES39 = 91 | CES64 = 72 | CES89 = 76 |
| CES15 = 70 | CES40 = 83 | CES65 = 65 | CES90 = 76 |
| CES16 = 46 | CES41 = 84 | CES66 = 66 | CES91 = 92 |
| CES17 = 48 | CES42 = 70 | CES67 = 64 | CES92 = 70 |
| CES18 = 55 | CES43 = 69 | CES68 = 71 | CES93 = 83 |
| CES19 = 70 | CES44 = 98 | CES69 = 80 | CES94 = 60 |
| CES20 = 64 | CES45 = 79 | CES70 = 58 | CES95 = 73 |
| CES21 = 85 | CES46 = 78 | CES71 = 55 | CES96 = 79 |
| CES22 = 77 | CES47 = 76 | CES72 = 84 | CES97 = 84 |
| CES23 = 91 | CES48 = 68 | CES73 = 47 | CES98 = 73 |
| CES24 = 90 | CES49 = 78 | CES74 = 94 | CES99 = 62 |
| CES25 = 71 | CES50 = 87 | CES75 = 51 | |



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Color Rendition by Hue-Angle Bin



REPORT NUMBER: SP1-1908-441-9-R4

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Measure Comparisons



(END OF REPORT)