

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled data based on original data using
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: STREETWORKS

Report Number: P1456297

Luminaire Tested: GLAN-SB1C-940-U-T2LG

Issue Date: 05/20/2026

Test Information

Test Method: LM-79-2024
Report Number: P1456297
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/22/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: GLAN-SB1C-940-U-T2LG
Description: GALLEON II AREA AND ROADWAY HIGH DENSITY LUMINAIRE 615mA 1xLight Square
PACKAGE 90CRI 4000K FIXTURE w/ TYPE II LOW GLARE
Light Source: (26) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5252.3 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

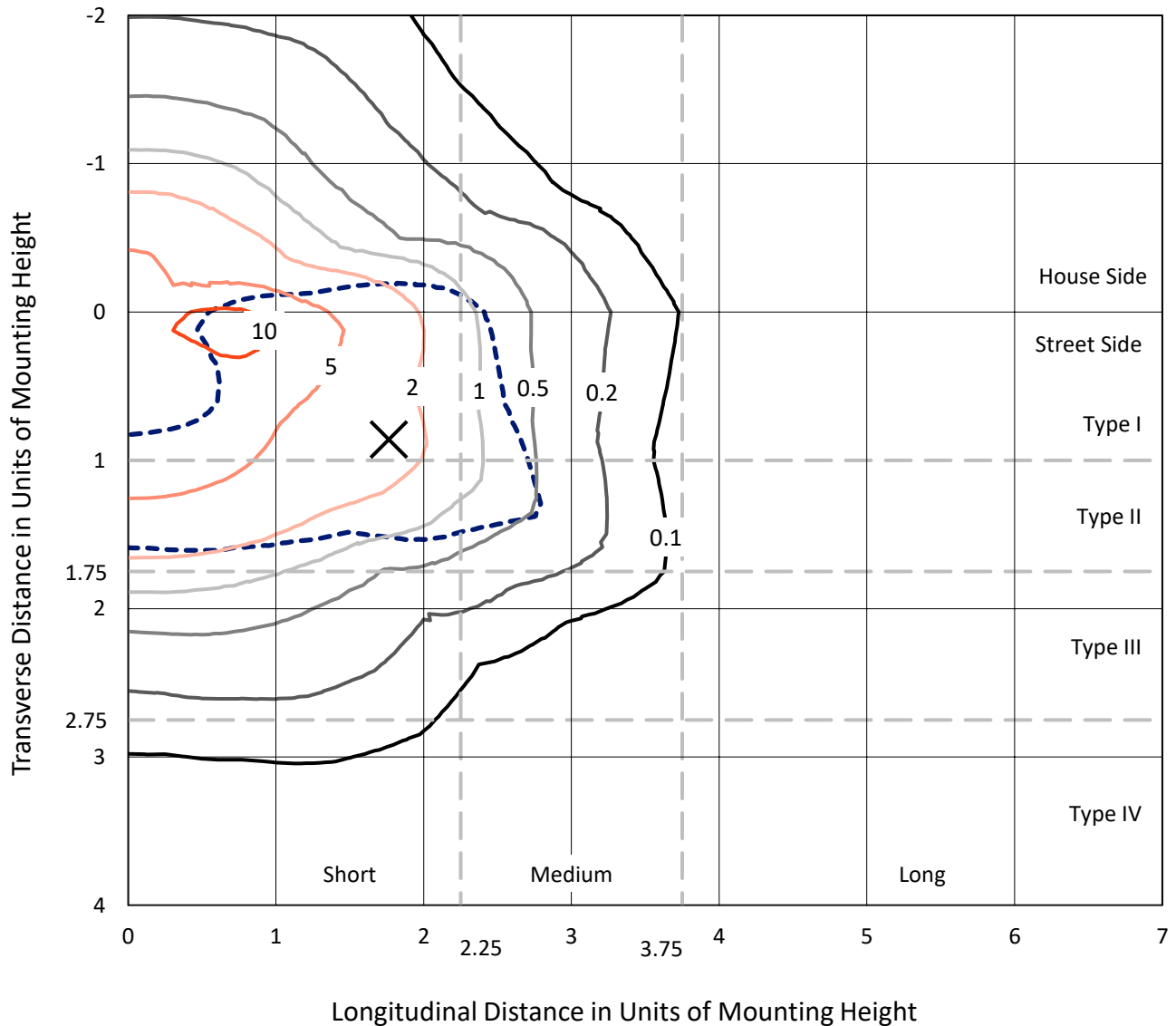
Input Watts (W): 54.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

REPORT NUMBER: P1456297

CATALOG NUMBER: GLAN-SB1C-940-U-T2LG

Iso-Footcandle Lines of Horizontal Illumination

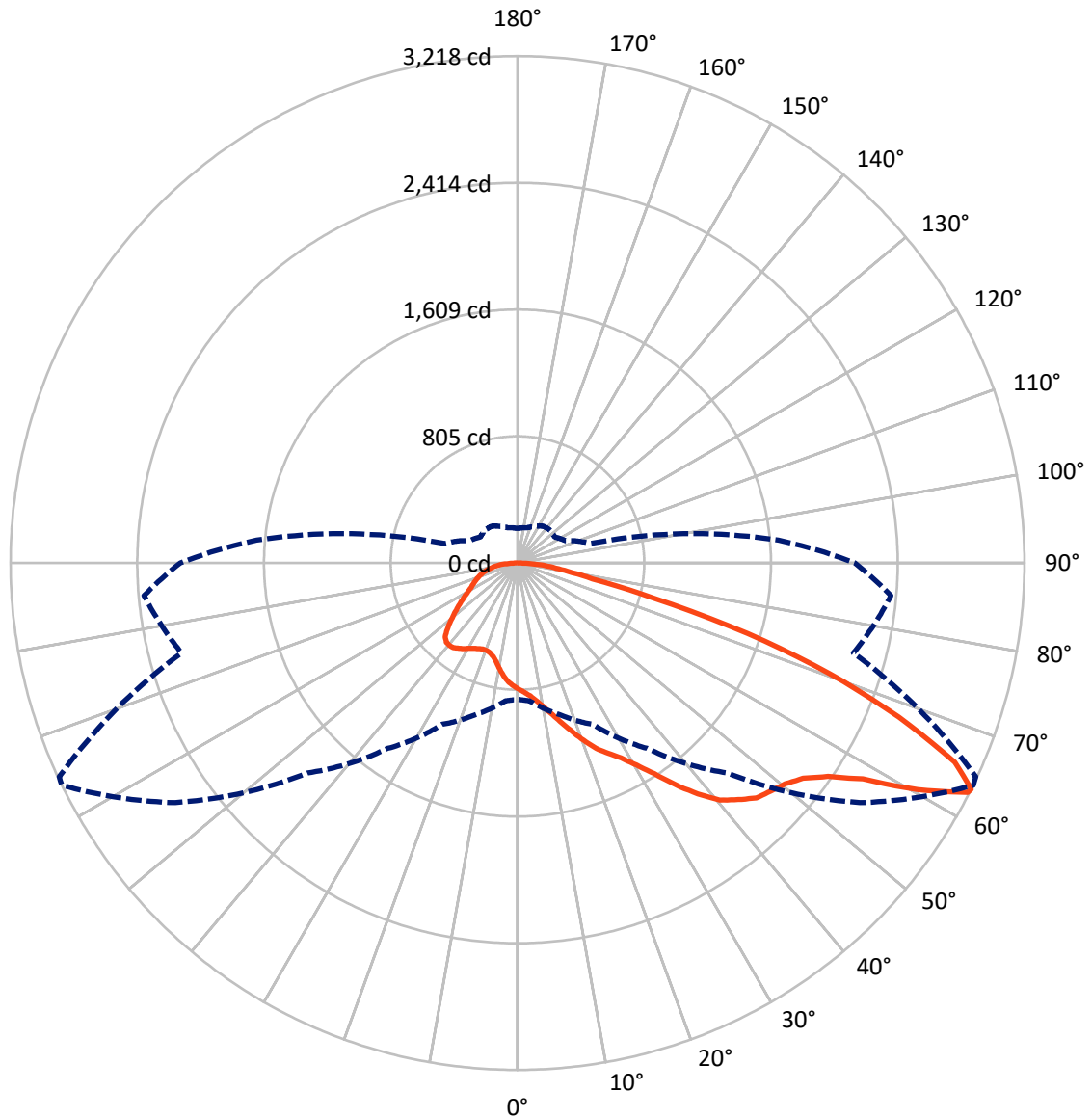
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.3 fc
 Type II - Short - N/A

REPORT NUMBER: P1456297
CATALOG NUMBER: GLAN-SB1C-940-U-T2LG

Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

REPORT NUMBER: P1456297

CATALOG NUMBER: GLAN-SB1C-940-U-T2LG

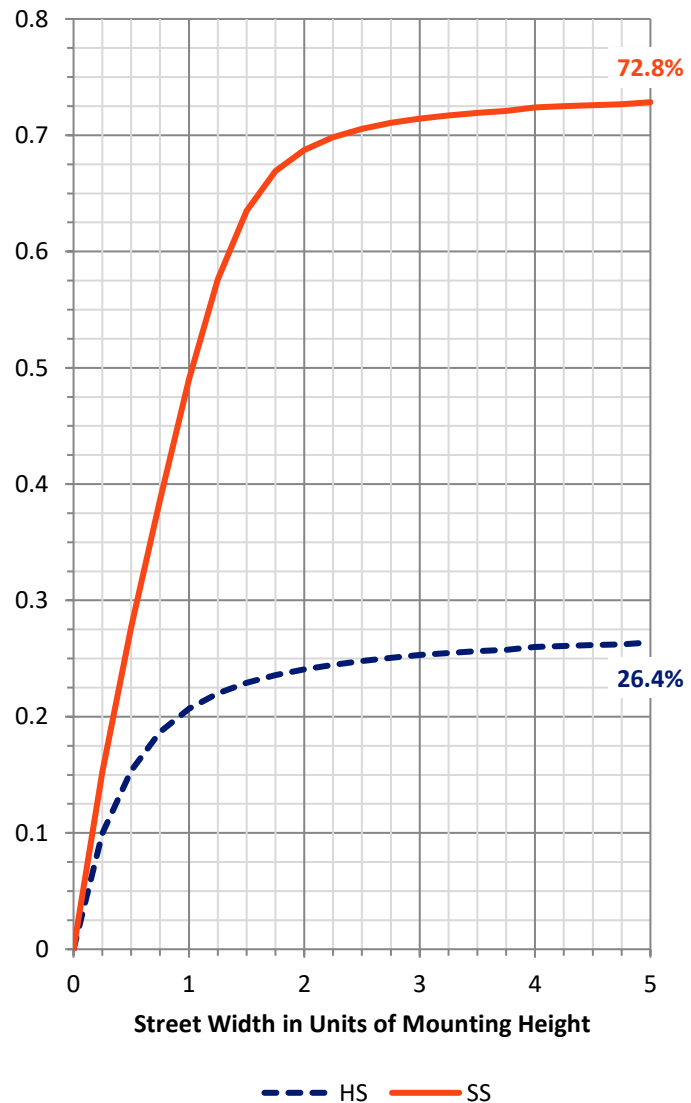
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1411.1 | 0.0 | 1411.1 |
| | % Fixture | 26.9 | 0.0 | 26.9 |
| Street Side | Lumens | 3841.1 | 0.0 | 3841.1 |
| | % Fixture | 73.1 | 0.0 | 73.1 |
| Total | Lumens | 5252.3 | 0.0 | 5252.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 73.4 | 1.4 |
| 10°-20° | 226.1 | 4.3 |
| 20°-30° | 413.4 | 7.9 |
| 30°-40° | 711.2 | 13.5 |
| 40°-50° | 1048.8 | 20.0 |
| 50°-60° | 1257.0 | 23.9 |
| 60°-70° | 1008.9 | 19.2 |
| 70°-80° | 405.4 | 7.7 |
| 80°-90° | 108.1 | 2.1 |
| 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° | 5252.3 | 100.0 |
| 0°-180° | 5252.3 | 100.0 |



REPORT NUMBER: P1456297

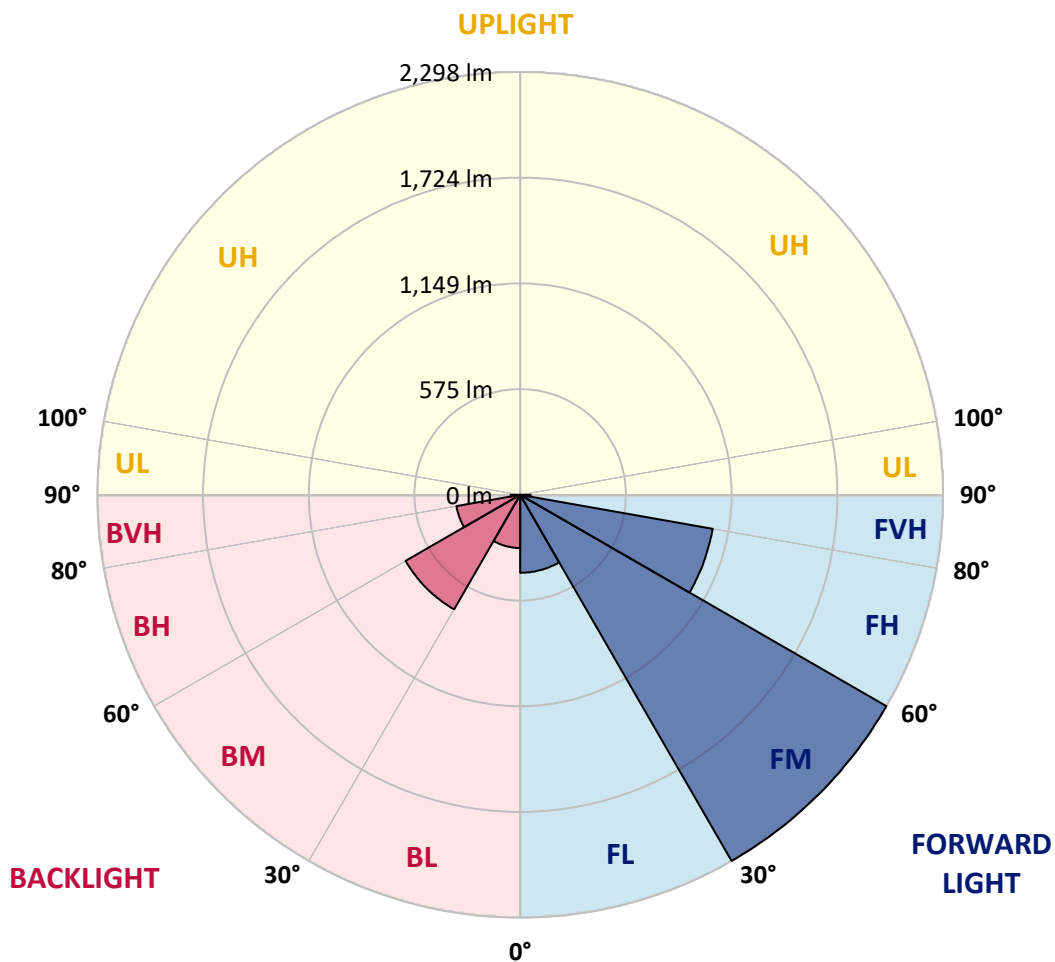
CATALOG NUMBER: GLAN-SB1C-940-U-T2LG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 423.8 | 8.1 | | | |
| FM (30°-60°) | 2298.2 | 43.8 | | | |
| FH (60°-80°) | 1062.4 | 20.2 | | | G1/1800 |
| FVH (80°-90°) | 56.8 | 1.1 | | | G1/100 |
| BL (0°-30°) | 289.2 | 5.5 | B1/500 | | |
| BM (30°-60°) | 718.8 | 13.7 | B1/1000 | | |
| BH (60°-80°) | 351.8 | 6.7 | B1/500 | | G1/500 |
| BVH (80°-90°) | 51.3 | 1.0 | | | 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 II Short





REPORT NUMBER: P1456297

CATALOG NUMBER: GLAN-SB1C-940-U-T2LG

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 64° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 799.9 | 799.9 | 799.9 | 799.9 | 799.9 | 799.9 | 799.9 | 799.9 | 799.9 | 799.9 | 799.9 |
| 2.5° | 832.9 | 834.1 | 830.5 | 829.4 | 831.7 | 827.0 | 825.8 | 821.1 | 818.7 | 814.0 | 808.1 |
| 5° | 856.5 | 857.7 | 855.3 | 855.3 | 857.7 | 854.1 | 853.0 | 848.2 | 845.9 | 841.2 | 829.4 |
| 7.5° | 855.3 | 856.5 | 858.9 | 868.3 | 880.1 | 884.8 | 888.3 | 884.8 | 883.6 | 876.5 | 864.8 |
| 10° | 836.4 | 837.6 | 843.5 | 857.7 | 887.2 | 908.4 | 930.8 | 930.8 | 933.2 | 927.3 | 906.0 |
| 12.5° | 810.5 | 811.7 | 825.8 | 848.2 | 887.2 | 923.7 | 969.7 | 988.6 | 987.4 | 983.9 | 959.1 |
| 15° | 748.0 | 748.0 | 769.2 | 811.7 | 874.2 | 934.4 | 1002.8 | 1053.5 | 1054.7 | 1058.2 | 1028.7 |
| 17.5° | 694.9 | 696.0 | 713.7 | 751.5 | 832.9 | 928.5 | 1038.2 | 1125.5 | 1129.0 | 1149.1 | 1106.6 |
| 20° | 699.6 | 699.6 | 705.5 | 722.0 | 788.1 | 904.9 | 1058.2 | 1202.2 | 1214.0 | 1261.1 | 1208.1 |
| 22.5° | 736.2 | 736.2 | 740.9 | 739.7 | 779.8 | 889.5 | 1071.2 | 1278.8 | 1300.1 | 1398.0 | 1329.6 |
| 25° | 803.4 | 802.2 | 797.5 | 790.4 | 814.0 | 906.0 | 1100.7 | 1337.8 | 1379.1 | 1549.0 | 1470.0 |
| 27.5° | 886.0 | 883.6 | 876.5 | 864.8 | 881.3 | 955.6 | 1151.4 | 1400.4 | 1445.2 | 1714.2 | 1618.6 |
| 30° | 988.6 | 981.5 | 974.5 | 959.1 | 976.8 | 1037.0 | 1226.9 | 1488.8 | 1531.3 | 1901.7 | 1797.9 |
| 32.5° | 1110.1 | 1118.4 | 1094.8 | 1073.6 | 1092.4 | 1147.9 | 1339.0 | 1593.8 | 1639.8 | 2097.6 | 1984.3 |
| 35° | 1291.8 | 1316.6 | 1309.5 | 1202.2 | 1219.9 | 1281.2 | 1470.0 | 1729.5 | 1770.8 | 2275.7 | 2175.4 |
| 37.5° | 1471.1 | 1465.2 | 1471.1 | 1381.5 | 1353.2 | 1427.5 | 1610.3 | 1859.3 | 1899.4 | 2420.8 | 2344.1 |
| 40° | 1615.1 | 1632.8 | 1632.8 | 1559.6 | 1523.0 | 1572.6 | 1737.8 | 1978.4 | 2017.4 | 2501.1 | 2465.7 |
| 42.5° | 1772.0 | 1774.3 | 1769.6 | 1705.9 | 1691.7 | 1704.7 | 1849.8 | 2053.9 | 2085.8 | 2542.3 | 2548.2 |
| 45° | 1948.9 | 1947.8 | 1927.7 | 1874.6 | 1853.4 | 1841.6 | 1919.4 | 2127.1 | 2158.9 | 2561.2 | 2593.1 |
| 47.5° | 2095.2 | 2101.1 | 2102.3 | 2045.7 | 2010.3 | 1959.6 | 1979.6 | 2163.6 | 2200.2 | 2540.0 | 2602.5 |
| 50° | 2103.5 | 2112.9 | 2157.7 | 2174.3 | 2167.2 | 2085.8 | 2035.1 | 2202.6 | 2239.1 | 2544.7 | 2636.7 |
| 52.5° | 2051.6 | 2061.0 | 2118.8 | 2187.2 | 2269.8 | 2230.9 | 2122.4 | 2269.8 | 2307.6 | 2590.7 | 2714.6 |
| 55° | 1912.4 | 1927.7 | 2013.8 | 2109.4 | 2256.8 | 2312.3 | 2276.9 | 2391.3 | 2426.7 | 2627.3 | 2805.4 |
| 57.5° | 1664.6 | 1683.5 | 1802.6 | 1954.8 | 2156.6 | 2293.4 | 2501.1 | 2586.0 | 2615.5 | 2653.2 | 2806.6 |
| 60° | 1244.6 | 1260.0 | 1446.4 | 1651.6 | 1954.8 | 2175.4 | 2634.4 | 2919.9 | 2936.4 | 2512.8 | 2647.3 |
| 62.5° | 916.7 | 932.0 | 1057.0 | 1204.5 | 1536.0 | 1958.4 | 2660.3 | 3208.9 | 3211.3 | 2259.2 | 2427.9 |
| 63° | 863.6 | 878.9 | 992.2 | 1130.2 | 1436.9 | 1885.2 | 2652.1 | 3218.3 | 3210.1 | 2207.3 | 2379.5 |
| 65° | 672.5 | 699.6 | 817.6 | 922.6 | 1077.1 | 1500.6 | 2545.9 | 3050.8 | 3062.6 | 2053.9 | 2136.5 |
| 67.5° | 457.7 | 477.8 | 627.6 | 749.1 | 814.0 | 955.6 | 2088.1 | 2610.8 | 2629.6 | 1894.7 | 1704.7 |
| 70° | 353.9 | 363.4 | 450.7 | 593.4 | 658.3 | 607.6 | 1361.4 | 2102.3 | 2102.3 | 1479.4 | 1208.1 |
| 72.5° | 277.2 | 280.8 | 339.8 | 463.6 | 529.7 | 467.2 | 758.6 | 1528.9 | 1472.3 | 877.7 | 805.8 |
| 75° | 198.2 | 202.9 | 256.0 | 345.7 | 422.3 | 368.1 | 484.9 | 890.7 | 856.5 | 504.9 | 538.0 |
| 77.5° | 156.9 | 159.3 | 191.1 | 254.8 | 342.1 | 280.8 | 369.3 | 486.1 | 481.3 | 355.1 | 345.7 |
| 80° | 123.9 | 128.6 | 149.8 | 182.9 | 264.3 | 219.4 | 274.9 | 320.9 | 311.5 | 244.2 | 221.8 |
| 82.5° | 88.5 | 96.7 | 115.6 | 139.2 | 195.8 | 156.9 | 180.5 | 226.5 | 226.5 | 184.0 | 146.3 |
| 85° | 54.3 | 61.3 | 68.4 | 86.1 | 139.2 | 101.5 | 95.6 | 146.3 | 149.8 | 138.0 | 94.4 |
| 87.5° | 26.0 | 28.3 | 33.0 | 36.6 | 50.7 | 46.0 | 37.8 | 55.4 | 56.6 | 61.3 | 38.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P1456297

CATALOG NUMBER: GLAN-SB1C-940-U-T2LG

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 799.9 | 799.9 | 799.9 | 799.9 | 799.9 | 799.9 | 799.9 | 799.9 | 799.9 | 799.9 | 799.9 |
| 2.5° | 806.9 | 804.6 | 792.8 | 781.0 | 768.0 | 756.2 | 744.4 | 735.0 | 724.4 | 726.7 | 727.9 |
| 5° | 822.3 | 816.4 | 790.4 | 759.8 | 719.6 | 681.9 | 645.3 | 619.4 | 602.8 | 598.1 | 588.7 |
| 7.5° | 855.3 | 841.2 | 794.0 | 729.1 | 654.8 | 595.8 | 561.6 | 546.2 | 541.5 | 542.7 | 540.3 |
| 10° | 893.1 | 871.8 | 798.7 | 692.5 | 598.1 | 558.0 | 553.3 | 562.7 | 567.5 | 572.2 | 573.4 |
| 12.5° | 942.6 | 908.4 | 796.3 | 652.4 | 571.0 | 563.9 | 581.6 | 599.3 | 609.9 | 617.0 | 615.8 |
| 15° | 1000.4 | 954.4 | 789.2 | 619.4 | 567.5 | 586.3 | 608.7 | 628.8 | 641.8 | 648.9 | 645.3 |
| 17.5° | 1070.0 | 1008.7 | 781.0 | 598.1 | 578.1 | 600.5 | 624.1 | 644.1 | 658.3 | 663.0 | 659.5 |
| 20° | 1156.1 | 1070.0 | 766.8 | 588.7 | 586.3 | 606.4 | 627.6 | 646.5 | 658.3 | 663.0 | 658.3 |
| 22.5° | 1257.6 | 1143.2 | 755.0 | 588.7 | 589.9 | 606.4 | 621.7 | 635.9 | 646.5 | 650.0 | 644.1 |
| 25° | 1387.4 | 1228.1 | 750.3 | 598.1 | 591.1 | 600.5 | 608.7 | 617.0 | 622.9 | 625.3 | 622.9 |
| 27.5° | 1519.5 | 1326.0 | 752.7 | 609.9 | 589.9 | 592.2 | 592.2 | 593.4 | 594.6 | 595.8 | 594.6 |
| 30° | 1671.7 | 1425.1 | 762.1 | 625.3 | 592.2 | 580.4 | 576.9 | 569.8 | 563.9 | 559.2 | 554.5 |
| 32.5° | 1819.2 | 1519.5 | 778.6 | 647.7 | 589.9 | 567.5 | 560.4 | 542.7 | 526.2 | 512.0 | 512.0 |
| 35° | 1978.4 | 1617.4 | 808.1 | 664.2 | 587.5 | 555.7 | 535.6 | 515.5 | 497.9 | 477.8 | 477.8 |
| 37.5° | 2115.3 | 1701.2 | 831.7 | 683.1 | 585.2 | 541.5 | 509.6 | 487.2 | 468.4 | 448.3 | 445.9 |
| 40° | 2210.8 | 1749.6 | 845.9 | 690.1 | 576.9 | 522.6 | 484.9 | 456.6 | 429.4 | 402.3 | 401.1 |
| 42.5° | 2256.8 | 1747.2 | 837.6 | 687.8 | 561.6 | 499.0 | 463.6 | 425.9 | 389.3 | 364.5 | 362.2 |
| 45° | 2281.6 | 1731.9 | 805.8 | 667.7 | 536.8 | 474.3 | 436.5 | 396.4 | 359.8 | 337.4 | 332.7 |
| 47.5° | 2276.9 | 1694.1 | 762.1 | 618.2 | 503.7 | 447.1 | 409.4 | 368.1 | 338.6 | 325.6 | 325.6 |
| 50° | 2289.9 | 1664.6 | 712.6 | 561.6 | 458.9 | 415.3 | 384.6 | 346.8 | 329.1 | 312.6 | 306.7 |
| 52.5° | 2347.7 | 1689.4 | 670.1 | 508.5 | 416.4 | 384.6 | 363.4 | 331.5 | 309.1 | 298.5 | 294.9 |
| 55° | 2424.4 | 1742.5 | 630.0 | 461.3 | 375.2 | 357.5 | 346.8 | 317.4 | 291.4 | 280.8 | 274.9 |
| 57.5° | 2438.5 | 1779.1 | 591.1 | 415.3 | 340.9 | 336.2 | 332.7 | 292.6 | 271.3 | 263.1 | 258.4 |
| 60° | 2340.6 | 1751.9 | 540.3 | 374.0 | 313.8 | 316.2 | 306.7 | 277.2 | 252.5 | 244.2 | 239.5 |
| 62.5° | 2174.3 | 1681.1 | 489.6 | 338.6 | 292.6 | 297.3 | 287.9 | 258.4 | 233.6 | 225.3 | 223.0 |
| 63° | 2141.2 | 1662.3 | 477.8 | 335.0 | 287.9 | 293.8 | 285.5 | 256.0 | 231.2 | 223.0 | 219.4 |
| 65° | 1944.2 | 1549.0 | 436.5 | 316.2 | 272.5 | 272.5 | 273.7 | 244.2 | 223.0 | 219.4 | 217.1 |
| 67.5° | 1585.6 | 1293.0 | 391.7 | 293.8 | 256.0 | 259.5 | 265.4 | 248.9 | 240.7 | 238.3 | 235.9 |
| 70° | 1198.6 | 973.3 | 352.7 | 272.5 | 238.3 | 250.1 | 290.2 | 283.1 | 252.5 | 231.2 | 226.5 |
| 72.5° | 849.4 | 663.0 | 318.5 | 251.3 | 217.1 | 246.6 | 300.8 | 270.2 | 227.7 | 202.9 | 198.2 |
| 75° | 568.6 | 427.1 | 284.3 | 228.9 | 193.5 | 227.7 | 284.3 | 246.6 | 198.2 | 192.3 | 185.2 |
| 77.5° | 357.5 | 304.4 | 250.1 | 202.9 | 167.5 | 202.9 | 258.4 | 219.4 | 171.1 | 173.4 | 162.8 |
| 80° | 218.3 | 217.1 | 210.0 | 172.2 | 134.5 | 161.6 | 217.1 | 185.2 | 136.9 | 136.9 | 121.5 |
| 82.5° | 129.8 | 156.9 | 178.1 | 142.7 | 97.9 | 115.6 | 156.9 | 139.2 | 114.4 | 110.9 | 103.8 |
| 85° | 87.3 | 106.2 | 141.6 | 109.7 | 62.5 | 70.8 | 108.5 | 116.8 | 105.0 | 92.0 | 86.1 |
| 87.5° | 31.9 | 42.5 | 64.9 | 44.8 | 27.1 | 42.5 | 81.4 | 84.9 | 63.7 | 49.5 | 44.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-16

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-940-U-5WQ

Data in this report applies to families of products including GSS-SB1A-940-U-5WQ

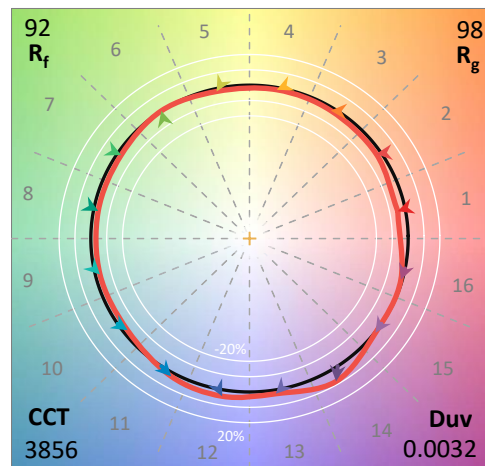
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-16
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 10/15/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: McGraw-Edison
 Catalog Number: **GSS-SB1A-940-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 90 CRI 4000K CCT 26 LEDS

Spectral Parameters

CCT (K): 3856
 CIE u': 0.2261
 CIE v': 0.5084
 Duv: 0.0032
 CIE x: 0.3896
 CIE y: 0.3894
 CIE z: 0.2211
 Peak Wavelength (nm): 614
 Dominant Wavelength (nm): 578
 Purity: 33.77304
 Rf: 91.8
 Rg: 98.4

| | | | |
|-----------|------|------|------|
| CRI (Ra): | 92.1 | | |
| R1: | 91.8 | R9: | 60.7 |
| R2: | 94.1 | R10: | 85.2 |
| R3: | 95.3 | R11: | 92.4 |
| R4: | 92.8 | R12: | 74.5 |
| R5: | 91.0 | R13: | 92.3 |
| R6: | 91.6 | R14: | 97.0 |
| R7: | 95.0 | R15: | 88.5 |
| R8: | 85.2 | | |



Test Conditions

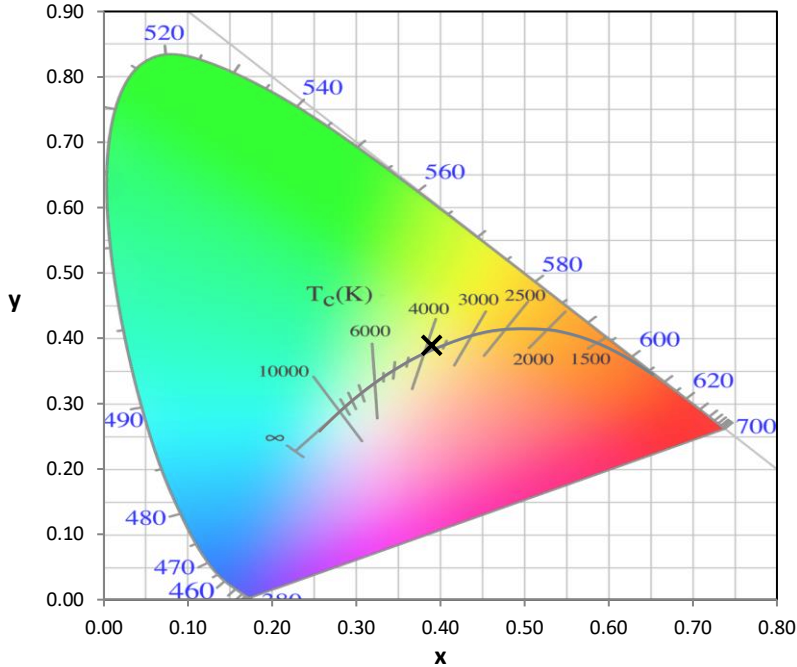
Stabilization Time: 23M
 Operation Time: 1H 23M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-16

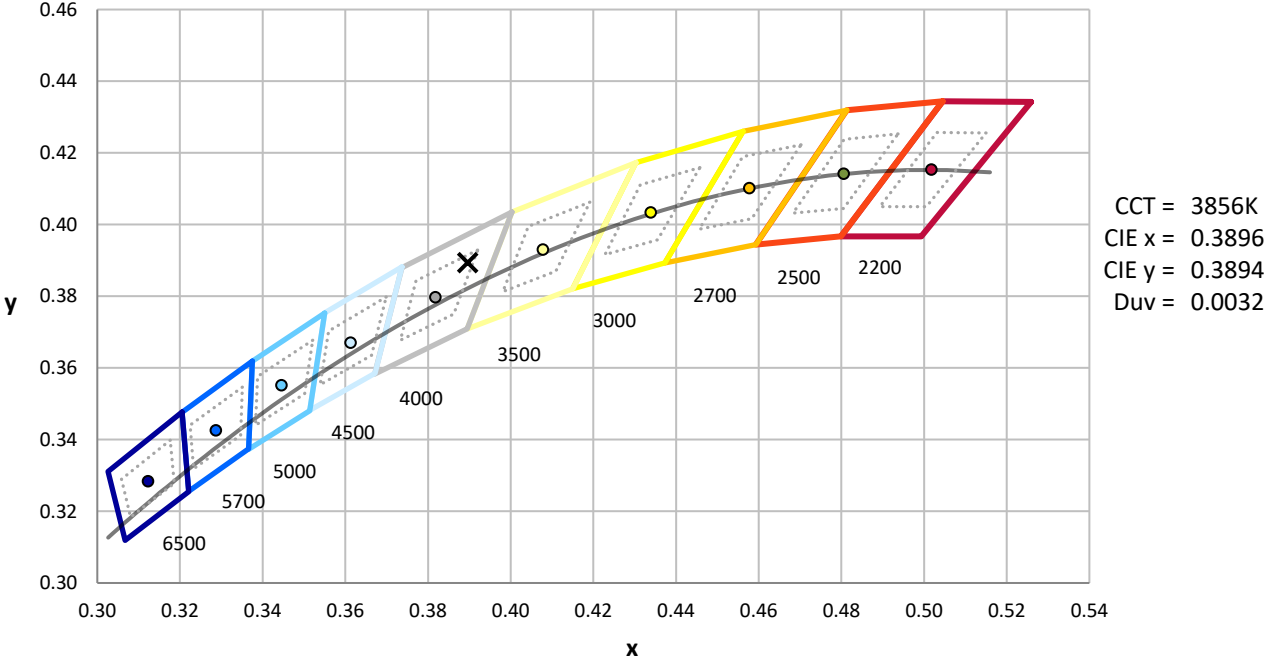
| Measurement and Test Equipment | | | |
|--------------------------------|-----------------------|------------------|----------------------|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | IN0058 | 6/18/2024 | 12/18/2024 |
| Power Meter | INXT2011004 | 2/8/2024 | 2/8/2025 |
| AC Power Source | IN0063 | 10/24/2023 | 10/24/2024 |
| DC Power Source | IN0208 | 10/24/2023 | 10/24/2024 |
| Sphere Thermometer | IN0085 | 10/24/2023 | 10/24/2024 |
| Room Thermometer | IN0046 | 10/24/2023 | 10/24/2024 |

REPORT NUMBER: SP1-2407-184-16

CIE 1931 Chromaticity Diagram



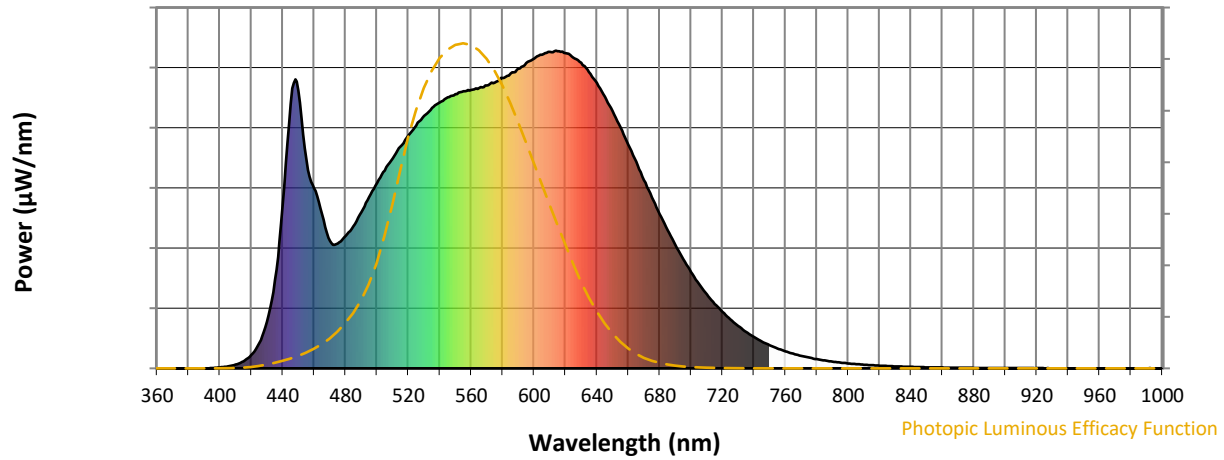
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-16

Photopic Flux vs. Wavelength

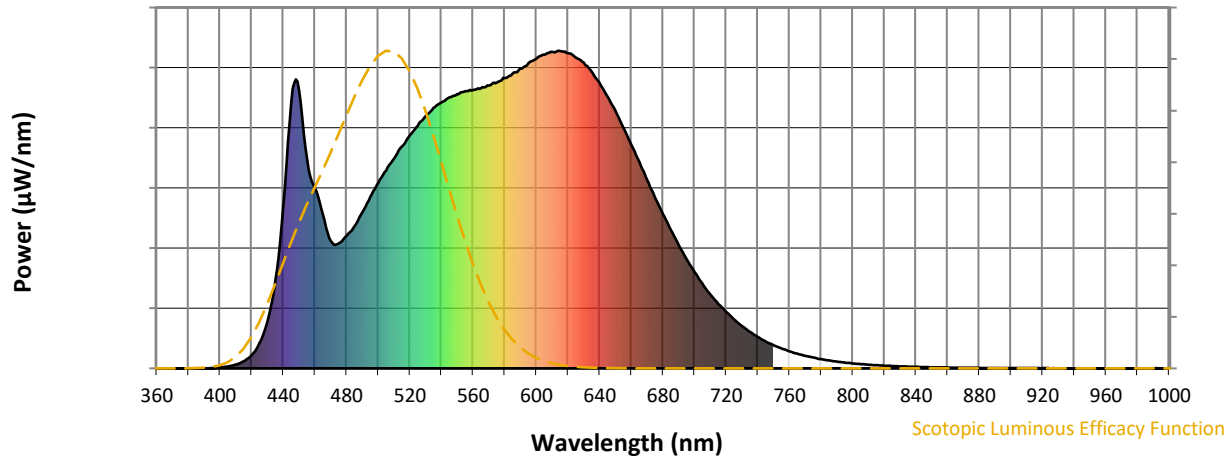


Photopic Lumens: NR

| λ (nm) | Power W [^] /nm | Lumens (ϕ /nm) | λ (nm) | Power W [^] /nm | Lumens (ϕ /nm) | λ (nm) | Power W [^] /nm | Lumens (ϕ /nm) | λ (nm) | Power W [^] /nm | Lumens (ϕ /nm) | λ (nm) | Power W [^] /nm | Lumens (ϕ /nm) |
|-------------------|-----------------------------|-------------------------|-------------------|-----------------------------|-------------------------|-------------------|-----------------------------|-------------------------|-------------------|-----------------------------|-------------------------|-------------------|-----------------------------|-------------------------|
| 360 | 0 | NR | 490 | 492 | NR | 620 | 993 | NR | 750 | 73 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 539 | NR | 625 | 978 | NR | 755 | 62 | NR | 885 | 1 | NR |
| 370 | 0 | NR | 500 | 583 | NR | 630 | 962 | NR | 760 | 54 | NR | 890 | 1 | NR |
| 375 | 0 | NR | 505 | 623 | NR | 635 | 933 | NR | 765 | 46 | NR | 895 | 1 | NR |
| 380 | 0 | NR | 510 | 661 | NR | 640 | 898 | NR | 770 | 39 | NR | 900 | 1 | NR |
| 385 | 0 | NR | 515 | 698 | NR | 645 | 855 | NR | 775 | 34 | NR | 905 | 1 | NR |
| 390 | 0 | NR | 520 | 733 | NR | 650 | 810 | NR | 780 | 29 | NR | 910 | 1 | NR |
| 395 | 1 | NR | 525 | 764 | NR | 655 | 759 | NR | 785 | 25 | NR | 915 | 1 | NR |
| 400 | 3 | NR | 530 | 794 | NR | 660 | 704 | NR | 790 | 21 | NR | 920 | 1 | NR |
| 405 | 6 | NR | 535 | 820 | NR | 665 | 651 | NR | 795 | 18 | NR | 925 | 1 | NR |
| 410 | 12 | NR | 540 | 837 | NR | 670 | 592 | NR | 800 | 16 | NR | 930 | 1 | NR |
| 415 | 22 | NR | 545 | 853 | NR | 675 | 538 | NR | 805 | 13 | NR | 935 | 0 | NR |
| 420 | 42 | NR | 550 | 864 | NR | 680 | 486 | NR | 810 | 12 | NR | 940 | 0 | NR |
| 425 | 79 | NR | 555 | 872 | NR | 685 | 435 | NR | 815 | 10 | NR | 945 | 0 | NR |
| 430 | 147 | NR | 560 | 876 | NR | 690 | 389 | NR | 820 | 9 | NR | 950 | 0 | NR |
| 435 | 278 | NR | 565 | 883 | NR | 695 | 344 | NR | 825 | 7 | NR | 955 | 0 | NR |
| 440 | 515 | NR | 570 | 891 | NR | 700 | 303 | NR | 830 | 6 | NR | 960 | 0 | NR |
| 445 | 832 | NR | 575 | 900 | NR | 705 | 266 | NR | 835 | 5 | NR | 965 | 0 | NR |
| 450 | 874 | NR | 580 | 914 | NR | 710 | 233 | NR | 840 | 5 | NR | 970 | 0 | NR |
| 455 | 659 | NR | 585 | 927 | NR | 715 | 203 | NR | 845 | 4 | NR | 975 | 0 | NR |
| 460 | 567 | NR | 590 | 944 | NR | 720 | 178 | NR | 850 | 4 | NR | 980 | 0 | NR |
| 465 | 485 | NR | 595 | 961 | NR | 725 | 154 | NR | 855 | 3 | NR | 985 | 0 | NR |
| 470 | 401 | NR | 600 | 975 | NR | 730 | 133 | NR | 860 | 3 | NR | 990 | 0 | NR |
| 475 | 393 | NR | 605 | 988 | NR | 735 | 115 | NR | 865 | 2 | NR | 995 | 1 | NR |
| 480 | 417 | NR | 610 | 996 | NR | 740 | 98 | NR | 870 | 2 | NR | 1000 | 0 | NR |
| 485 | 448 | NR | 615 | 998 | NR | 745 | 85 | NR | 875 | 2 | NR | | | |

REPORT NUMBER: SP1-2407-184-16

Scotopic Flux vs. Wavelength



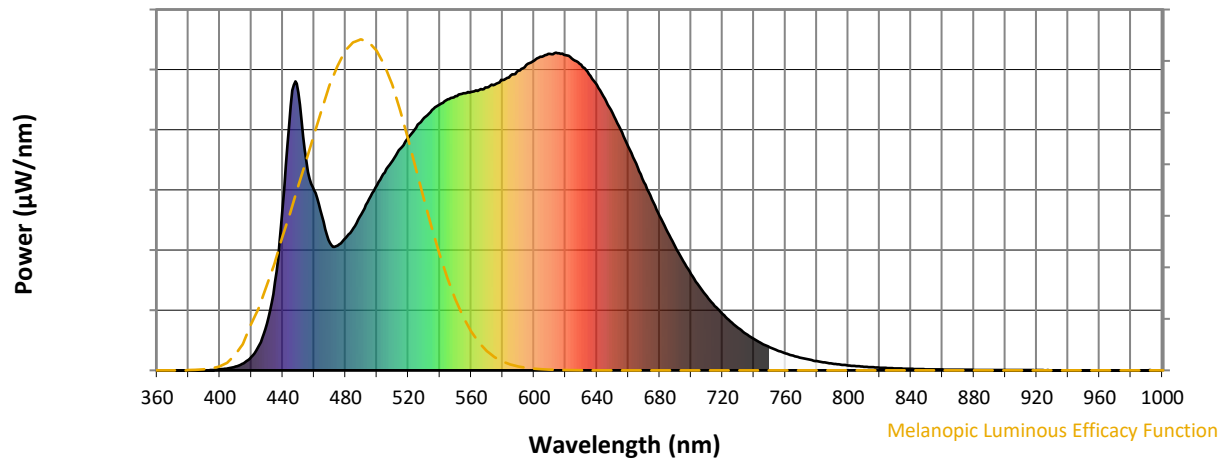
Scotopic Lumens: NR

S/P: 1.72

| λ (nm) | Power W [^] /nm | Lumens (ϕ /nm) | λ (nm) | Power W [^] /nm | Lumens (ϕ /nm) | λ (nm) | Power W [^] /nm | Lumens (ϕ /nm) | λ (nm) | Power W [^] /nm | Lumens (ϕ /nm) | λ (nm) | Power W [^] /nm | Lumens (ϕ /nm) |
|-------------------|-----------------------------|-------------------------|-------------------|-----------------------------|-------------------------|-------------------|-----------------------------|-------------------------|-------------------|-----------------------------|-------------------------|-------------------|-----------------------------|-------------------------|
| 360 | 0 | NR | 490 | 492 | NR | 620 | 993 | NR | 750 | 73 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 539 | NR | 625 | 978 | NR | 755 | 62 | NR | 885 | 1 | NR |
| 370 | 0 | NR | 500 | 583 | NR | 630 | 962 | NR | 760 | 54 | NR | 890 | 1 | NR |
| 375 | 0 | NR | 505 | 623 | NR | 635 | 933 | NR | 765 | 46 | NR | 895 | 1 | NR |
| 380 | 0 | NR | 510 | 661 | NR | 640 | 898 | NR | 770 | 39 | NR | 900 | 1 | NR |
| 385 | 0 | NR | 515 | 698 | NR | 645 | 855 | NR | 775 | 34 | NR | 905 | 1 | NR |
| 390 | 0 | NR | 520 | 733 | NR | 650 | 810 | NR | 780 | 29 | NR | 910 | 1 | NR |
| 395 | 1 | NR | 525 | 764 | NR | 655 | 759 | NR | 785 | 25 | NR | 915 | 1 | NR |
| 400 | 3 | NR | 530 | 794 | NR | 660 | 704 | NR | 790 | 21 | NR | 920 | 1 | NR |
| 405 | 6 | NR | 535 | 820 | NR | 665 | 651 | NR | 795 | 18 | NR | 925 | 1 | NR |
| 410 | 12 | NR | 540 | 837 | NR | 670 | 592 | NR | 800 | 16 | NR | 930 | 1 | NR |
| 415 | 22 | NR | 545 | 853 | NR | 675 | 538 | NR | 805 | 13 | NR | 935 | 0 | NR |
| 420 | 42 | NR | 550 | 864 | NR | 680 | 486 | NR | 810 | 12 | NR | 940 | 0 | NR |
| 425 | 79 | NR | 555 | 872 | NR | 685 | 435 | NR | 815 | 10 | NR | 945 | 0 | NR |
| 430 | 147 | NR | 560 | 876 | NR | 690 | 389 | NR | 820 | 9 | NR | 950 | 0 | NR |
| 435 | 278 | NR | 565 | 883 | NR | 695 | 344 | NR | 825 | 7 | NR | 955 | 0 | NR |
| 440 | 515 | NR | 570 | 891 | NR | 700 | 303 | NR | 830 | 6 | NR | 960 | 0 | NR |
| 445 | 832 | NR | 575 | 900 | NR | 705 | 266 | NR | 835 | 5 | NR | 965 | 0 | NR |
| 450 | 874 | NR | 580 | 914 | NR | 710 | 233 | NR | 840 | 5 | NR | 970 | 0 | NR |
| 455 | 659 | NR | 585 | 927 | NR | 715 | 203 | NR | 845 | 4 | NR | 975 | 0 | NR |
| 460 | 567 | NR | 590 | 944 | NR | 720 | 178 | NR | 850 | 4 | NR | 980 | 0 | NR |
| 465 | 485 | NR | 595 | 961 | NR | 725 | 154 | NR | 855 | 3 | NR | 985 | 0 | NR |
| 470 | 401 | NR | 600 | 975 | NR | 730 | 133 | NR | 860 | 3 | NR | 990 | 0 | NR |
| 475 | 393 | NR | 605 | 988 | NR | 735 | 115 | NR | 865 | 2 | NR | 995 | 1 | NR |
| 480 | 417 | NR | 610 | 996 | NR | 740 | 98 | NR | 870 | 2 | NR | 1000 | 0 | NR |
| 485 | 448 | NR | 615 | 998 | NR | 745 | 85 | NR | 875 | 2 | NR | | | |

REPORT NUMBER: SP1-2407-184-16

Melanopic Flux vs. Wavelength



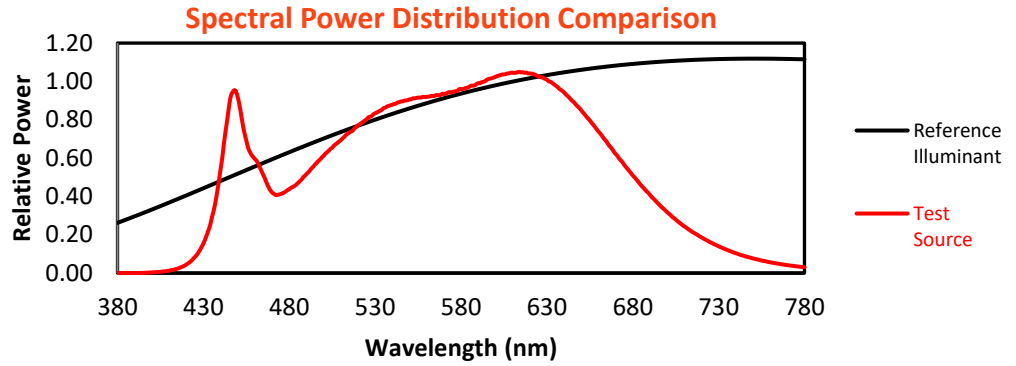
Melanopic Lumens: NR

M/P: 3.52

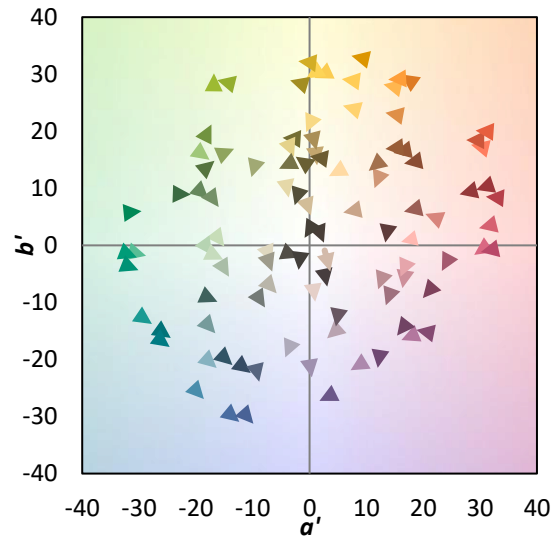
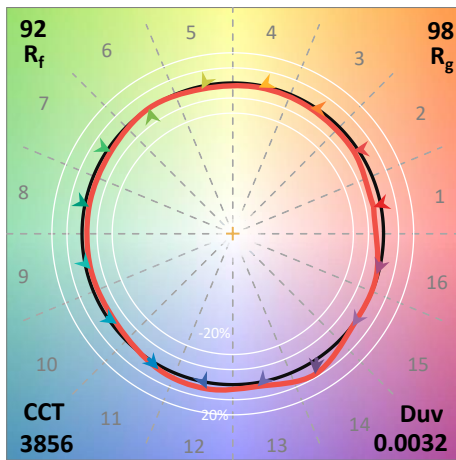
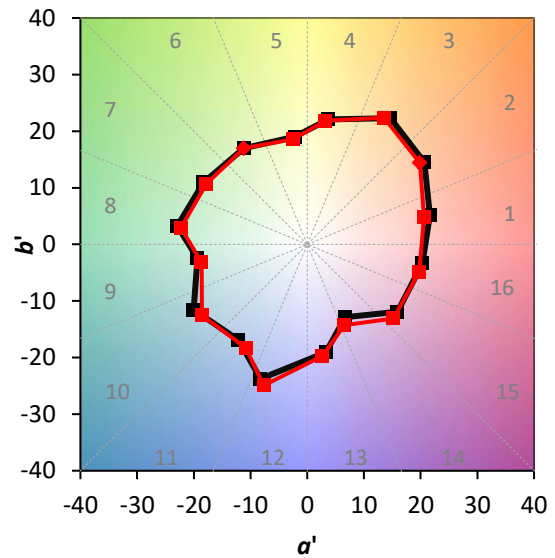
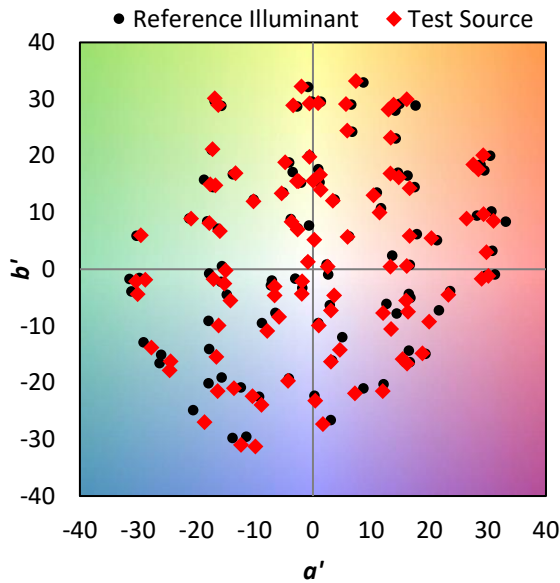
| λ (nm) | Power W [^] /nm | Lumens (φ/nm) | λ (nm) | Power W [^] /nm | Lumens (φ/nm) | λ (nm) | Power W [^] /nm | Lumens (φ/nm) | λ (nm) | Power W [^] /nm | Lumens (φ/nm) | λ (nm) | Power W [^] /nm | Lumens (φ/nm) |
|--------|--------------------------|---------------|--------|--------------------------|---------------|--------|--------------------------|---------------|--------|--------------------------|---------------|--------|--------------------------|---------------|
| 360 | 0 | NR | 490 | 492 | NR | 620 | 993 | NR | 750 | 73 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 539 | NR | 625 | 978 | NR | 755 | 62 | NR | 885 | 1 | NR |
| 370 | 0 | NR | 500 | 583 | NR | 630 | 962 | NR | 760 | 54 | NR | 890 | 1 | NR |
| 375 | 0 | NR | 505 | 623 | NR | 635 | 933 | NR | 765 | 46 | NR | 895 | 1 | NR |
| 380 | 0 | NR | 510 | 661 | NR | 640 | 898 | NR | 770 | 39 | NR | 900 | 1 | NR |
| 385 | 0 | NR | 515 | 698 | NR | 645 | 855 | NR | 775 | 34 | NR | 905 | 1 | NR |
| 390 | 0 | NR | 520 | 733 | NR | 650 | 810 | NR | 780 | 29 | NR | 910 | 1 | NR |
| 395 | 1 | NR | 525 | 764 | NR | 655 | 759 | NR | 785 | 25 | NR | 915 | 1 | NR |
| 400 | 3 | NR | 530 | 794 | NR | 660 | 704 | NR | 790 | 21 | NR | 920 | 1 | NR |
| 405 | 6 | NR | 535 | 820 | NR | 665 | 651 | NR | 795 | 18 | NR | 925 | 1 | NR |
| 410 | 12 | NR | 540 | 837 | NR | 670 | 592 | NR | 800 | 16 | NR | 930 | 1 | NR |
| 415 | 22 | NR | 545 | 853 | NR | 675 | 538 | NR | 805 | 13 | NR | 935 | 0 | NR |
| 420 | 42 | NR | 550 | 864 | NR | 680 | 486 | NR | 810 | 12 | NR | 940 | 0 | NR |
| 425 | 79 | NR | 555 | 872 | NR | 685 | 435 | NR | 815 | 10 | NR | 945 | 0 | NR |
| 430 | 147 | NR | 560 | 876 | NR | 690 | 389 | NR | 820 | 9 | NR | 950 | 0 | NR |
| 435 | 278 | NR | 565 | 883 | NR | 695 | 344 | NR | 825 | 7 | NR | 955 | 0 | NR |
| 440 | 515 | NR | 570 | 891 | NR | 700 | 303 | NR | 830 | 6 | NR | 960 | 0 | NR |
| 445 | 832 | NR | 575 | 900 | NR | 705 | 266 | NR | 835 | 5 | NR | 965 | 0 | NR |
| 450 | 874 | NR | 580 | 914 | NR | 710 | 233 | NR | 840 | 5 | NR | 970 | 0 | NR |
| 455 | 659 | NR | 585 | 927 | NR | 715 | 203 | NR | 845 | 4 | NR | 975 | 0 | NR |
| 460 | 567 | NR | 590 | 944 | NR | 720 | 178 | NR | 850 | 4 | NR | 980 | 0 | NR |
| 465 | 485 | NR | 595 | 961 | NR | 725 | 154 | NR | 855 | 3 | NR | 985 | 0 | NR |
| 470 | 401 | NR | 600 | 975 | NR | 730 | 133 | NR | 860 | 3 | NR | 990 | 0 | NR |
| 475 | 393 | NR | 605 | 988 | NR | 735 | 115 | NR | 865 | 2 | NR | 995 | 1 | NR |
| 480 | 417 | NR | 610 | 996 | NR | 740 | 98 | NR | 870 | 2 | NR | 1000 | 0 | NR |
| 485 | 448 | NR | 615 | 998 | NR | 745 | 85 | NR | 875 | 2 | NR | | | |

Summary

$R_f = 91.8$
 $R_g = 98.4$
 $CIE R_a = 92.1$
 $R_9 = 60.7$

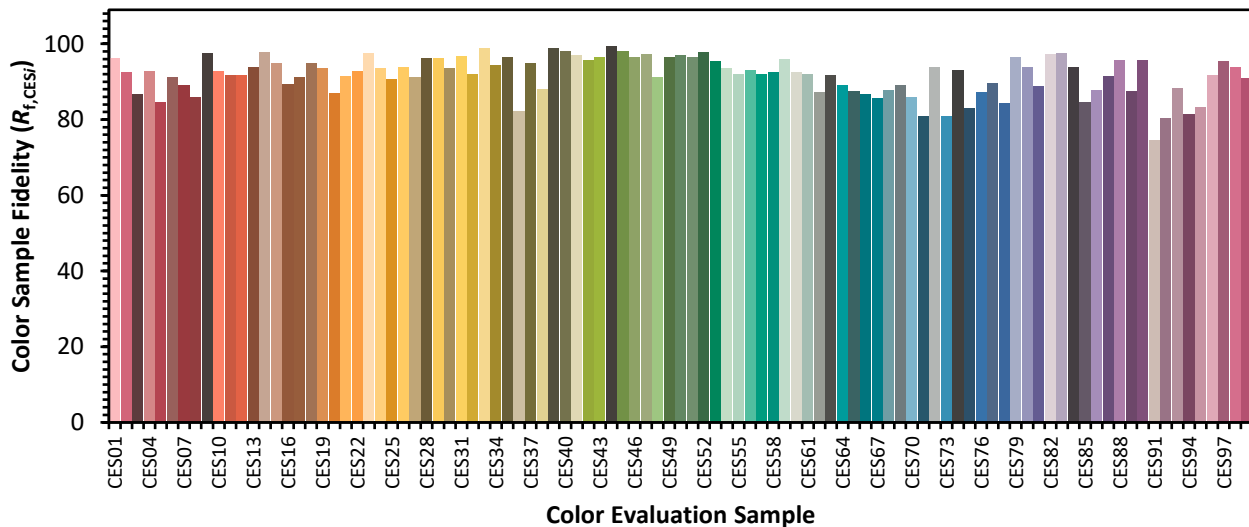


Color Vector Graphics

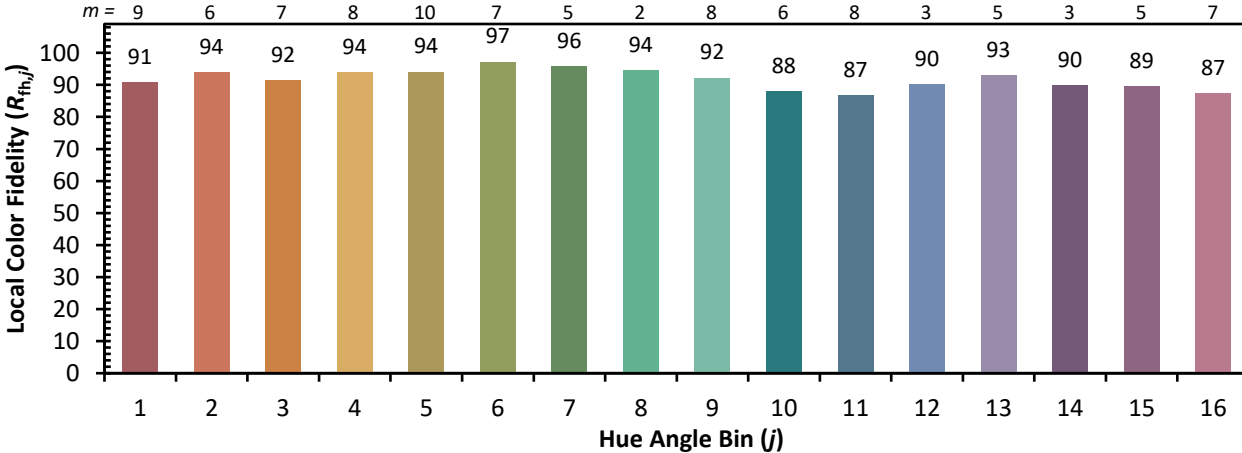
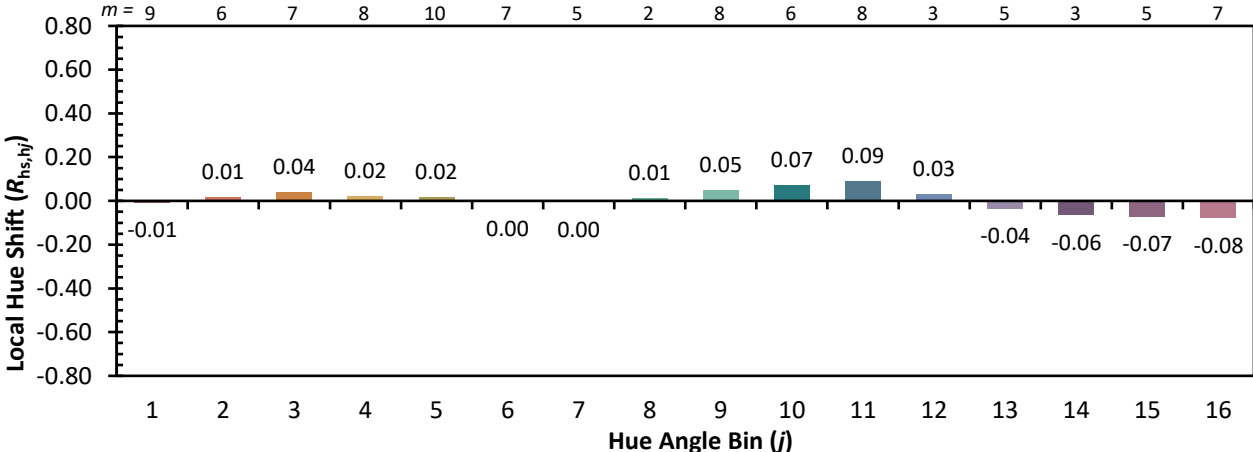
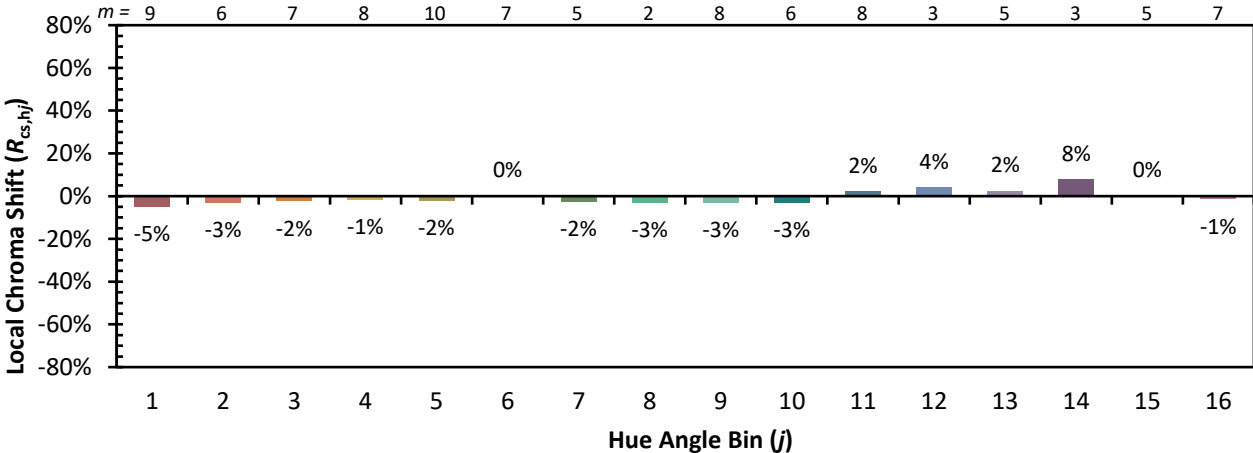


Individual Sample Fidelity Index ($R_{f,i}$)

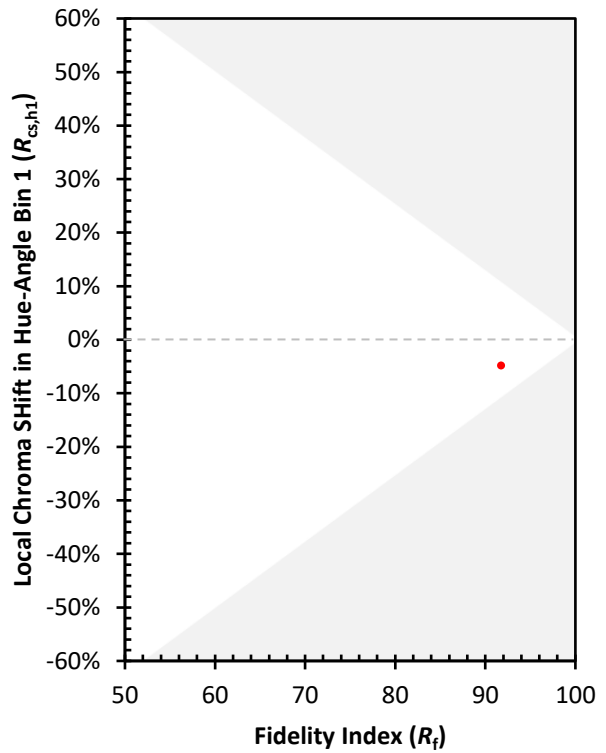
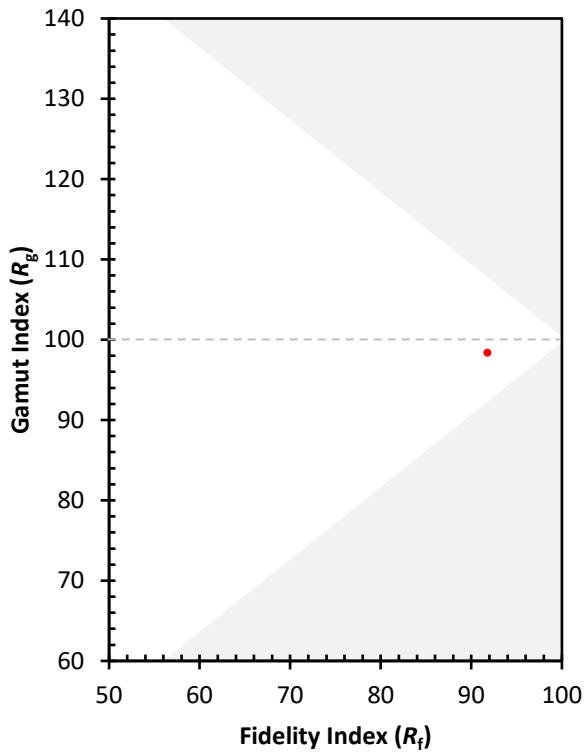
| | | | |
|------------|------------|------------|------------|
| CES01 = 86 | CES26 = 94 | CES51 = 96 | CES76 = 87 |
| CES02 = 62 | CES27 = 91 | CES52 = 98 | CES77 = 90 |
| CES03 = 31 | CES28 = 96 | CES53 = 95 | CES78 = 84 |
| CES04 = 69 | CES29 = 96 | CES54 = 94 | CES79 = 96 |
| CES05 = 49 | CES30 = 93 | CES55 = 92 | CES80 = 94 |
| CES06 = 50 | CES31 = 97 | CES56 = 93 | CES81 = 89 |
| CES07 = 42 | CES32 = 92 | CES57 = 92 | CES82 = 97 |
| CES08 = 41 | CES33 = 99 | CES58 = 92 | CES83 = 98 |
| CES09 = 29 | CES34 = 94 | CES59 = 96 | CES84 = 94 |
| CES10 = 74 | CES35 = 96 | CES60 = 93 | CES85 = 85 |
| CES11 = 57 | CES36 = 82 | CES61 = 92 | CES86 = 88 |
| CES12 = 63 | CES37 = 95 | CES62 = 87 | CES87 = 92 |
| CES13 = 43 | CES38 = 88 | CES63 = 92 | CES88 = 96 |
| CES14 = 74 | CES39 = 99 | CES64 = 89 | CES89 = 87 |
| CES15 = 71 | CES40 = 98 | CES65 = 88 | CES90 = 96 |
| CES16 = 47 | CES41 = 97 | CES66 = 87 | CES91 = 74 |
| CES17 = 49 | CES42 = 96 | CES67 = 86 | CES92 = 80 |
| CES18 = 56 | CES43 = 96 | CES68 = 88 | CES93 = 88 |
| CES19 = 71 | CES44 = 99 | CES69 = 89 | CES94 = 82 |
| CES20 = 66 | CES45 = 98 | CES70 = 86 | CES95 = 83 |
| CES21 = 85 | CES46 = 97 | CES71 = 81 | CES96 = 92 |
| CES22 = 78 | CES47 = 97 | CES72 = 94 | CES97 = 95 |
| CES23 = 91 | CES48 = 91 | CES73 = 81 | CES98 = 94 |
| CES24 = 90 | CES49 = 96 | CES74 = 93 | CES99 = 91 |
| CES25 = 71 | CES50 = 97 | CES75 = 83 | |



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)