

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

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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: P1458619

Luminaire Tested: GLAN-SB6A-940-U-T3LG-HSS

Issue Date: 05/20/2026

Test Information

Test Method: LM-79-2024
Report Number: P1458619
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/22/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: GLAN-SB6A-940-U-T3LG-HSS
Description: GALLEON II AREA AND ROADWAY HIGH DENSITY LUMINAIRE 350mA 6xLight Square PACKAGE 90CRI 4000K FIXTURE w/ TYPE III LOW GLARE WITH HOUSE SIDE SHIELD
Light Source: (156) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

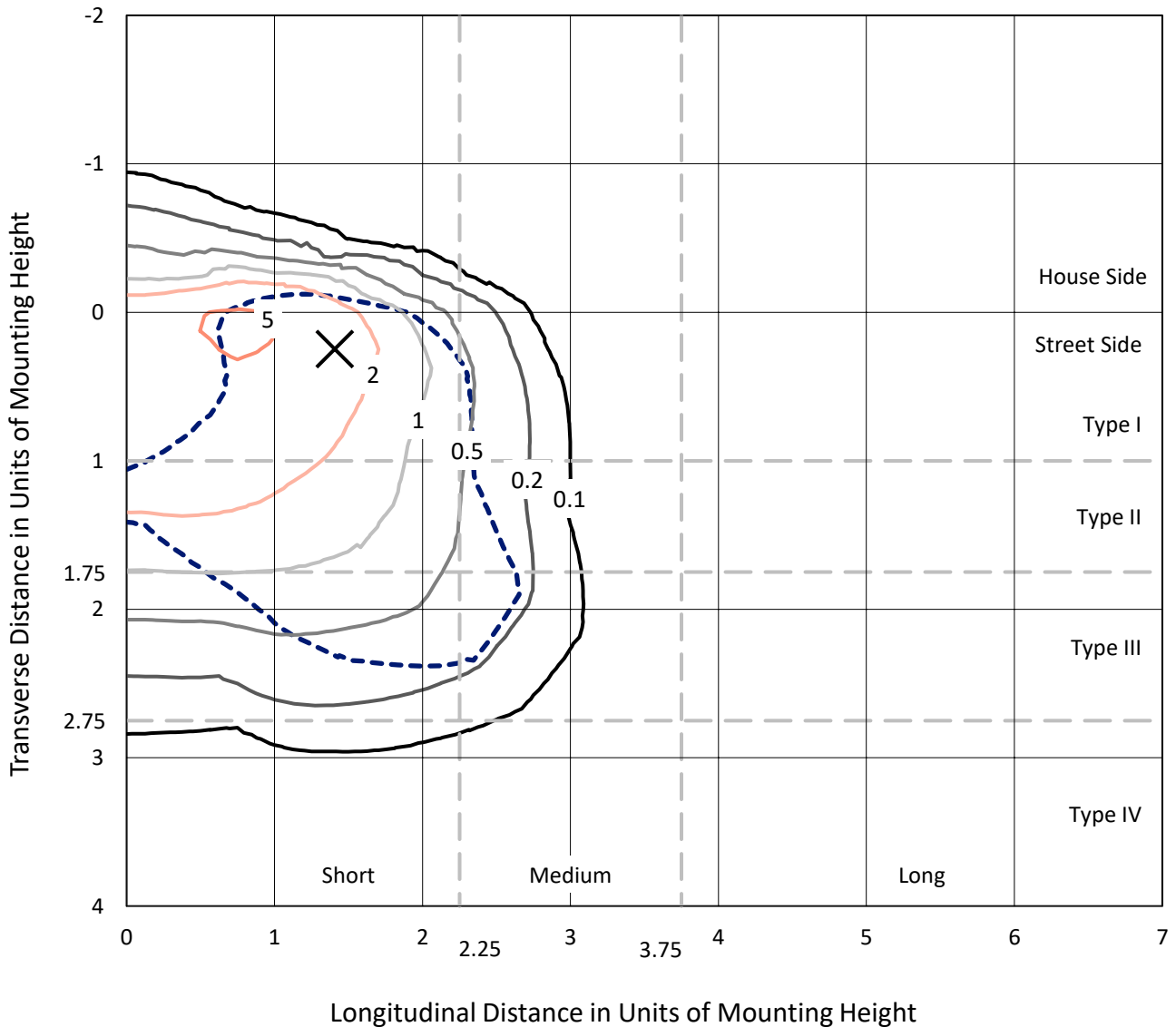
Lumens per Lamp: N/A
Luminaire Lumens: 15067.4 lumens
Efficiency: N/A
Efficacy: 88.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 170.9
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

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 CATALOG NUMBER: GLAN-SB6A-940-U-T3LG-HSS

Iso-Footcandle Lines of Horizontal Illumination

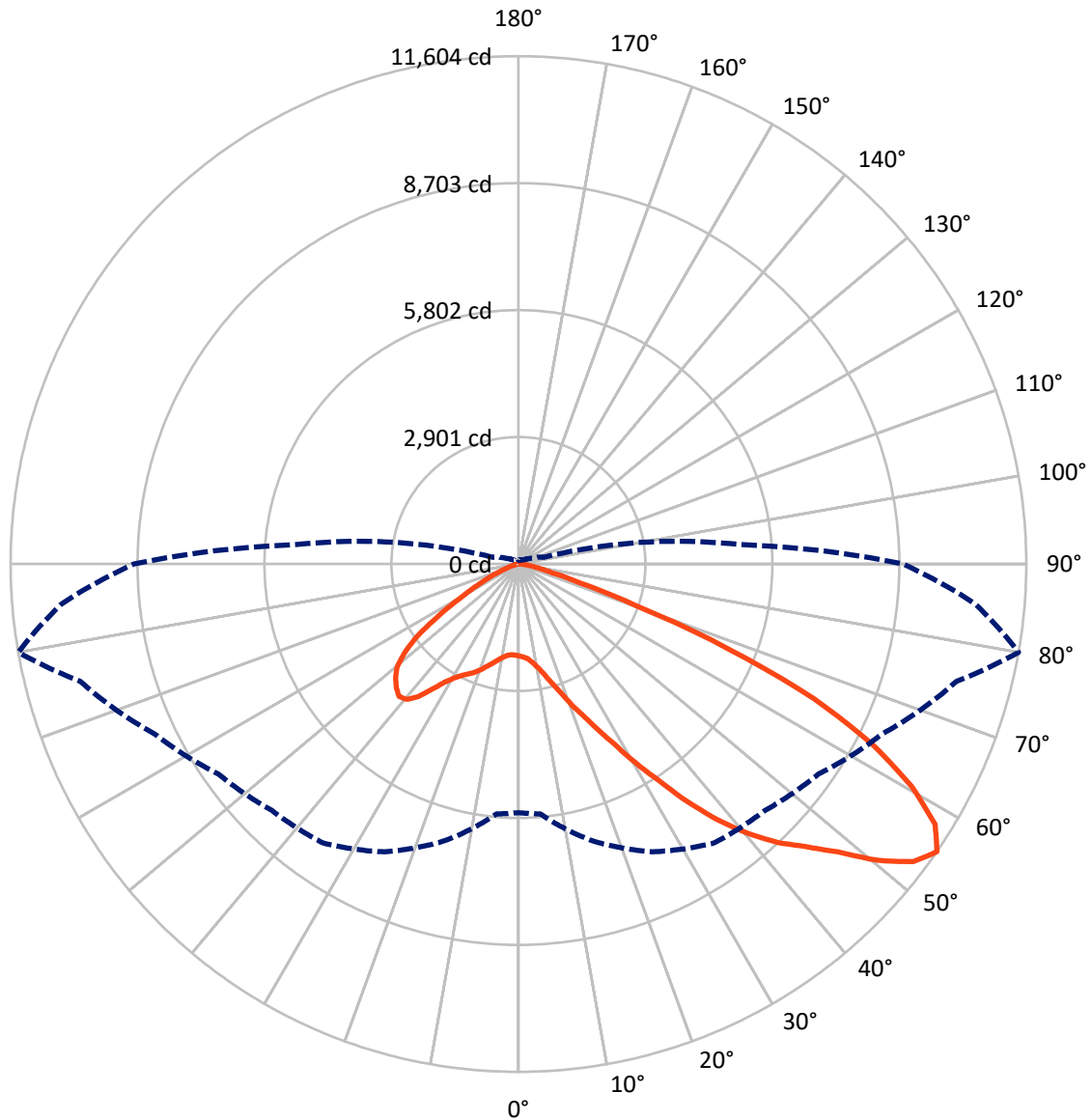
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type III - Short - N/A

REPORT NUMBER: P1458619
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Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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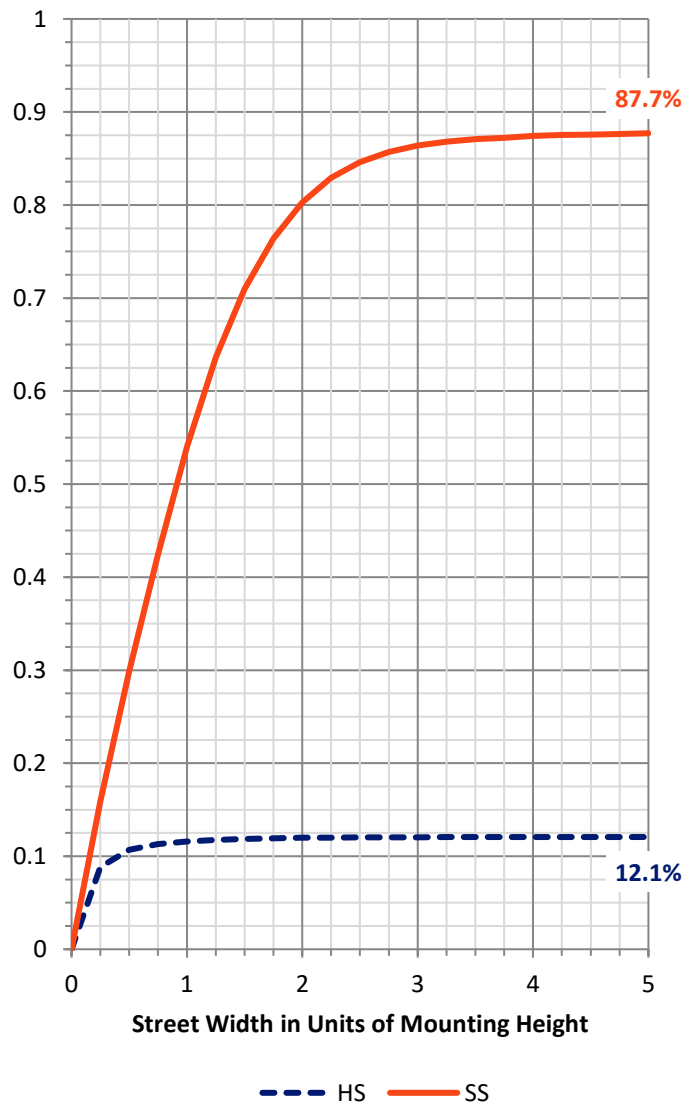
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1831.6 | 0.0 | 1831.6 |
| | % Fixture | 12.2 | 0.0 | 12.2 |
| Street Side | Lumens | 13235.7 | 0.0 | 13235.7 |
| | % Fixture | 87.8 | 0.0 | 87.8 |
| Total | Lumens | 15067.4 | 0.0 | 15067.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 176.1 | 1.2 |
| 10°-20° | 464.4 | 3.1 |
| 20°-30° | 909.1 | 6.0 |
| 30°-40° | 1849.5 | 12.3 |
| 40°-50° | 3117.9 | 20.7 |
| 50°-60° | 3983.8 | 26.4 |
| 60°-70° | 3401.2 | 22.6 |
| 70°-80° | 1086.9 | 7.2 |
| 80°-90° | 78.5 | 0.5 |
| 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° | 15067.4 | 100.0 |
| 0°-180° | 15067.4 | 100.0 |



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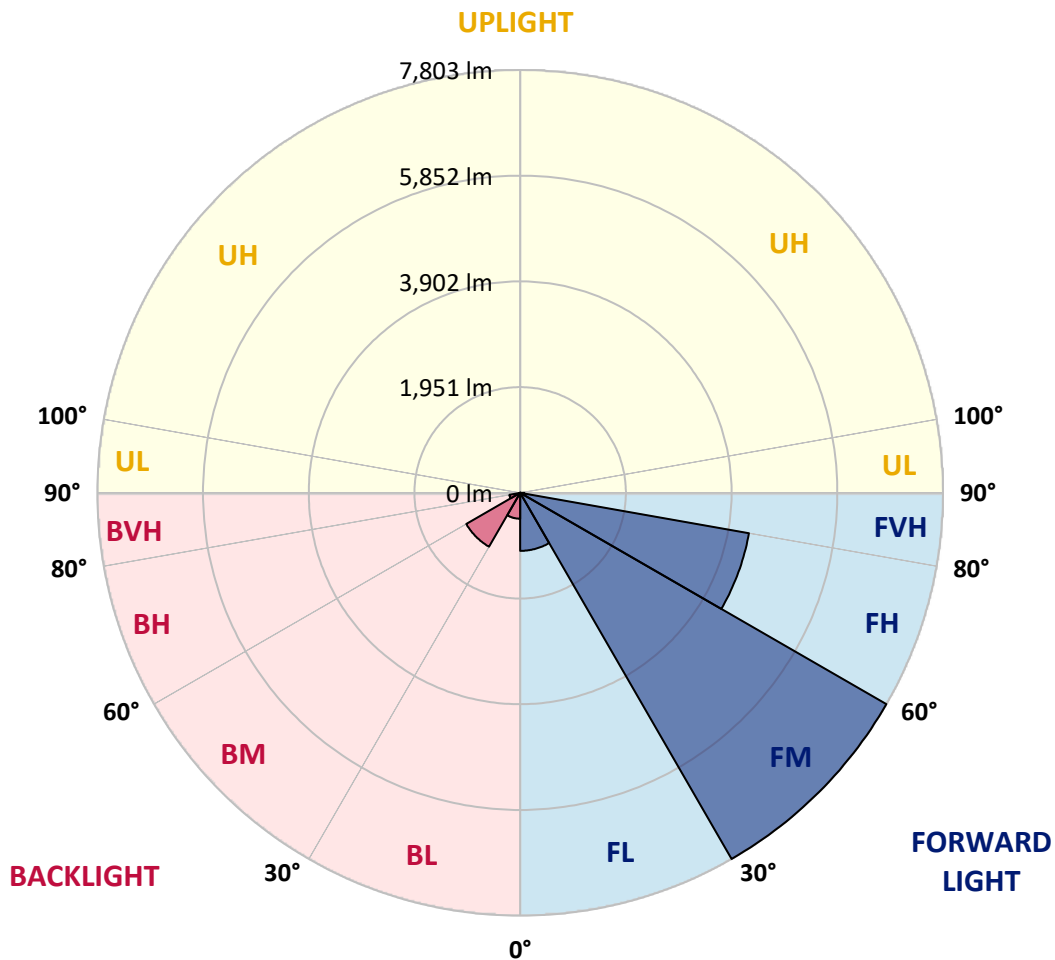
CATALOG NUMBER: GLAN-SB6A-940-U-T3LG-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1071.3 | 7.1 | | | |
| FM | (30°-60°) | 7803.2 | 51.8 | | | |
| FH | (60°-80°) | 4286.8 | 28.5 | | | G2/5000 |
| FVH | (80°-90°) | 74.4 | 0.5 | | | G1/100 |
| BL | (0°-30°) | 478.3 | 3.2 | B1/500 | | |
| BM | (30°-60°) | 1147.9 | 7.6 | B2/2500 | | |
| BH | (60°-80°) | 201.3 | 1.3 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 4.1 | 0.0 | | | G0/10 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 80° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0° | 2098.9 | 2098.9 | 2098.9 | 2098.9 | 2098.9 | 2098.9 | 2098.9 | 2098.9 | 2098.9 | 2098.9 | 2098.9 |
| 2.5° | 2111.7 | 2116.0 | 2111.7 | 2116.0 | 2124.6 | 2120.3 | 2137.4 | 2133.1 | 2133.1 | 2128.8 | 2111.7 |
| 5° | 1991.8 | 1996.1 | 2004.6 | 2026.0 | 2056.0 | 2086.0 | 2124.6 | 2150.3 | 2176.0 | 2171.7 | 2154.5 |
| 7.5° | 1756.2 | 1764.8 | 1799.0 | 1841.9 | 1940.4 | 2030.3 | 2128.8 | 2193.1 | 2248.8 | 2265.9 | 2253.1 |
| 10° | 1623.4 | 1632.0 | 1653.4 | 1696.2 | 1786.2 | 1936.1 | 2128.8 | 2261.6 | 2360.1 | 2394.4 | 2398.7 |
| 12.5° | 1610.5 | 1614.8 | 1632.0 | 1679.1 | 1756.2 | 1884.7 | 2124.6 | 2351.6 | 2518.6 | 2570.0 | 2587.2 |
| 15° | 1619.1 | 1627.7 | 1644.8 | 1683.4 | 1773.3 | 1919.0 | 2158.8 | 2492.9 | 2728.5 | 2801.3 | 2805.6 |
| 17.5° | 1653.4 | 1662.0 | 1683.4 | 1726.2 | 1824.7 | 2008.9 | 2265.9 | 2638.6 | 2981.2 | 3062.6 | 3109.7 |
| 20° | 1721.9 | 1726.2 | 1751.9 | 1807.6 | 1919.0 | 2120.3 | 2424.4 | 2835.6 | 3285.4 | 3405.3 | 3439.6 |
| 22.5° | 1811.9 | 1824.7 | 1859.0 | 1927.5 | 2068.9 | 2274.5 | 2642.8 | 3075.5 | 3619.5 | 3743.7 | 3803.6 |
| 25° | 1910.4 | 1927.5 | 1978.9 | 2090.3 | 2270.2 | 2510.1 | 2912.7 | 3392.4 | 4013.5 | 4163.4 | 4244.8 |
| 27.5° | 2111.7 | 2116.0 | 2150.3 | 2291.6 | 2522.9 | 2818.5 | 3255.4 | 3799.4 | 4476.1 | 4651.7 | 4741.7 |
| 30° | 2552.9 | 2557.2 | 2527.2 | 2565.7 | 2801.3 | 3182.5 | 3658.0 | 4274.8 | 5015.8 | 5260.0 | 5332.8 |
| 32.5° | 3092.6 | 3114.0 | 3109.7 | 3084.0 | 3191.1 | 3546.6 | 4137.7 | 4844.5 | 5649.8 | 5906.8 | 5975.3 |
| 35° | 3705.1 | 3756.5 | 3743.7 | 3735.1 | 3748.0 | 4013.5 | 4686.0 | 5474.2 | 6369.4 | 6682.1 | 6737.8 |
| 37.5° | 4304.8 | 4317.6 | 4377.6 | 4450.4 | 4459.0 | 4643.2 | 5320.0 | 6142.4 | 7037.6 | 7435.9 | 7521.6 |
| 40° | 4767.4 | 4810.2 | 4960.2 | 5105.8 | 5255.7 | 5401.3 | 5842.5 | 6682.1 | 7568.7 | 8104.2 | 8142.7 |
| 42.5° | 5127.2 | 5230.0 | 5448.5 | 5675.5 | 5979.6 | 6142.4 | 6339.4 | 7063.3 | 8001.3 | 8699.5 | 8682.4 |
| 45° | 5564.1 | 5606.9 | 5915.3 | 6215.2 | 6523.6 | 6772.0 | 6767.7 | 7384.5 | 8339.7 | 9209.3 | 9102.2 |
| 47.5° | 5859.7 | 5911.1 | 6330.8 | 6682.1 | 6999.0 | 7123.3 | 7149.0 | 7731.5 | 8806.6 | 9826.1 | 9573.3 |
| 50° | 6018.1 | 6108.1 | 6566.4 | 7011.9 | 7354.6 | 7393.1 | 7508.8 | 8185.5 | 9419.1 | 10644.2 | 10168.7 |
| 52.5° | 6035.3 | 6120.9 | 6647.8 | 7221.8 | 7594.4 | 7671.5 | 7868.6 | 8699.5 | 10014.5 | 11299.6 | 10511.4 |
| 55° | 5679.8 | 5731.2 | 6549.3 | 7256.0 | 7782.9 | 7962.8 | 8365.4 | 9175.0 | 10361.5 | 11603.7 | 10481.4 |
| 57.5° | 5345.7 | 5397.1 | 6108.1 | 7196.1 | 7975.6 | 8344.0 | 8896.6 | 9500.5 | 10091.6 | 11226.7 | 9813.2 |
| 60° | 5058.7 | 5084.4 | 5731.2 | 6917.7 | 8048.5 | 8716.7 | 9354.9 | 9179.3 | 9393.4 | 10322.9 | 8669.6 |
| 62.5° | 4519.0 | 4536.1 | 5302.8 | 6416.5 | 7902.8 | 9003.7 | 9513.4 | 8498.2 | 8626.7 | 9076.5 | 7324.6 |
| 65° | 3413.9 | 3478.1 | 4180.6 | 6039.6 | 7663.0 | 9136.4 | 9145.0 | 7667.2 | 7534.5 | 7427.4 | 5761.1 |
| 67.5° | 2317.3 | 2390.1 | 2814.2 | 5431.3 | 7273.2 | 9192.1 | 8429.7 | 6592.1 | 5739.7 | 5187.2 | 3773.7 |
| 70° | 1850.4 | 1850.4 | 1996.1 | 4364.8 | 6348.0 | 8481.1 | 7543.0 | 4977.3 | 3645.2 | 2865.6 | 2021.8 |
| 72.5° | 1216.5 | 1220.8 | 1357.8 | 2771.3 | 4501.8 | 6467.9 | 6150.9 | 2878.4 | 1893.3 | 1460.6 | 998.0 |
| 75° | 441.2 | 441.2 | 595.4 | 1109.4 | 2381.6 | 3850.8 | 3748.0 | 1375.0 | 1028.0 | 796.7 | 604.0 |
| 77.5° | 235.6 | 244.2 | 287.0 | 458.3 | 912.4 | 1567.7 | 1464.9 | 702.5 | 582.5 | 496.9 | 376.9 |
| 80° | 158.5 | 162.8 | 192.8 | 282.7 | 441.2 | 604.0 | 471.2 | 394.1 | 394.1 | 334.1 | 252.7 |
| 82.5° | 85.7 | 90.0 | 128.5 | 184.2 | 235.6 | 282.7 | 227.0 | 231.3 | 278.4 | 227.0 | 145.6 |
| 85° | 60.0 | 60.0 | 98.5 | 132.8 | 132.8 | 137.1 | 98.5 | 145.6 | 162.8 | 141.4 | 98.5 |
| 87.5° | 34.3 | 34.3 | 55.7 | 64.3 | 64.3 | 60.0 | 30.0 | 51.4 | 64.3 | 72.8 | 42.8 |
| 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: P1458619

CATALOG NUMBER: GLAN-SB6A-940-U-T3LG-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2098.9 | 2098.9 | 2098.9 | 2098.9 | 2098.9 | 2098.9 | 2098.9 | 2098.9 | 2098.9 | 2098.9 | 2098.9 |
| 2.5° | 2107.4 | 2094.6 | 2068.9 | 2017.5 | 1991.8 | 1957.5 | 1927.5 | 1889.0 | 1880.4 | 1876.1 | 1859.0 |
| 5° | 2141.7 | 2116.0 | 2038.9 | 1927.5 | 1833.3 | 1743.3 | 1653.4 | 1602.0 | 1559.1 | 1537.7 | 1533.4 |
| 7.5° | 2227.4 | 2176.0 | 2034.6 | 1837.6 | 1662.0 | 1507.7 | 1375.0 | 1259.3 | 1199.3 | 1147.9 | 1152.2 |
| 10° | 2355.9 | 2274.5 | 2043.2 | 1751.9 | 1490.6 | 1242.2 | 1049.4 | 882.4 | 762.4 | 706.8 | 702.5 |
| 12.5° | 2527.2 | 2411.5 | 2073.2 | 1666.2 | 1280.7 | 933.8 | 689.6 | 591.1 | 565.4 | 561.1 | 556.8 |
| 15° | 2737.1 | 2574.3 | 2103.1 | 1554.9 | 998.0 | 646.8 | 561.1 | 539.7 | 535.4 | 531.1 | 531.1 |
| 17.5° | 2989.8 | 2762.8 | 2120.3 | 1366.4 | 728.2 | 556.8 | 526.9 | 514.0 | 509.7 | 505.4 | 505.4 |
| 20° | 3306.8 | 2972.7 | 2141.7 | 1126.5 | 616.8 | 535.4 | 501.2 | 484.0 | 479.7 | 479.7 | 475.5 |
| 22.5° | 3619.5 | 3208.2 | 2124.6 | 916.6 | 595.4 | 509.7 | 471.2 | 454.0 | 445.5 | 445.5 | 441.2 |
| 25° | 3979.3 | 3448.1 | 2073.2 | 826.7 | 591.1 | 488.3 | 441.2 | 415.5 | 402.6 | 398.4 | 398.4 |
| 27.5° | 4390.5 | 3722.3 | 1991.8 | 831.0 | 591.1 | 471.2 | 402.6 | 368.4 | 359.8 | 351.2 | 351.2 |
| 30° | 4861.6 | 4056.4 | 1931.8 | 886.7 | 599.7 | 454.0 | 368.4 | 325.5 | 312.7 | 304.1 | 308.4 |
| 32.5° | 5401.3 | 4429.0 | 1927.5 | 976.6 | 612.5 | 428.3 | 329.8 | 282.7 | 269.9 | 265.6 | 269.9 |
| 35° | 6013.9 | 4891.6 | 2026.0 | 1045.1 | 578.3 | 372.7 | 282.7 | 244.2 | 231.3 | 231.3 | 235.6 |
| 37.5° | 6694.9 | 5422.8 | 2158.8 | 1028.0 | 466.9 | 295.6 | 244.2 | 214.2 | 201.3 | 205.6 | 209.9 |
| 40° | 7316.0 | 5838.2 | 2180.2 | 878.1 | 351.2 | 252.7 | 209.9 | 188.5 | 179.9 | 184.2 | 188.5 |
| 42.5° | 7787.2 | 6172.3 | 1974.6 | 681.1 | 295.6 | 214.2 | 179.9 | 162.8 | 158.5 | 167.1 | 167.1 |
| 45° | 8168.4 | 6305.1 | 1649.1 | 505.4 | 261.3 | 184.2 | 158.5 | 149.9 | 141.4 | 145.6 | 145.6 |
| 47.5° | 8566.8 | 6326.5 | 1345.0 | 406.9 | 231.3 | 167.1 | 145.6 | 137.1 | 128.5 | 128.5 | 128.5 |
| 50° | 8952.3 | 6275.1 | 1028.0 | 359.8 | 214.2 | 149.9 | 132.8 | 124.2 | 115.7 | 111.4 | 111.4 |
| 52.5° | 9046.5 | 5863.9 | 753.9 | 334.1 | 197.0 | 141.4 | 124.2 | 115.7 | 107.1 | 102.8 | 102.8 |
| 55° | 8785.2 | 5084.4 | 591.1 | 299.8 | 179.9 | 128.5 | 115.7 | 107.1 | 94.2 | 90.0 | 90.0 |
| 57.5° | 7924.2 | 3876.5 | 471.2 | 257.0 | 162.8 | 124.2 | 107.1 | 98.5 | 85.7 | 81.4 | 81.4 |
| 60° | 6806.3 | 2749.9 | 381.2 | 209.9 | 149.9 | 111.4 | 98.5 | 85.7 | 77.1 | 68.5 | 68.5 |
| 62.5° | 5568.4 | 1974.6 | 308.4 | 175.6 | 141.4 | 98.5 | 90.0 | 77.1 | 60.0 | 47.1 | 47.1 |
| 65° | 4270.5 | 1417.8 | 239.9 | 141.4 | 128.5 | 85.7 | 77.1 | 64.3 | 47.1 | 34.3 | 34.3 |
| 67.5° | 2762.8 | 916.6 | 179.9 | 124.2 | 98.5 | 72.8 | 60.0 | 51.4 | 42.8 | 30.0 | 25.7 |
| 70° | 1456.3 | 535.4 | 132.8 | 107.1 | 72.8 | 55.7 | 51.4 | 42.8 | 34.3 | 21.4 | 21.4 |
| 72.5° | 753.9 | 351.2 | 98.5 | 94.2 | 55.7 | 38.6 | 42.8 | 34.3 | 25.7 | 12.9 | 12.9 |
| 75° | 484.0 | 235.6 | 72.8 | 77.1 | 34.3 | 30.0 | 30.0 | 21.4 | 12.9 | 8.6 | 4.3 |
| 77.5° | 312.7 | 158.5 | 51.4 | 64.3 | 21.4 | 17.1 | 17.1 | 8.6 | 4.3 | 0.0 | 0.0 |
| 80° | 184.2 | 98.5 | 34.3 | 42.8 | 8.6 | 8.6 | 4.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 94.2 | 51.4 | 17.1 | 17.1 | 4.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 60.0 | 25.7 | 4.3 | 4.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 30.0 | 8.6 | 4.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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

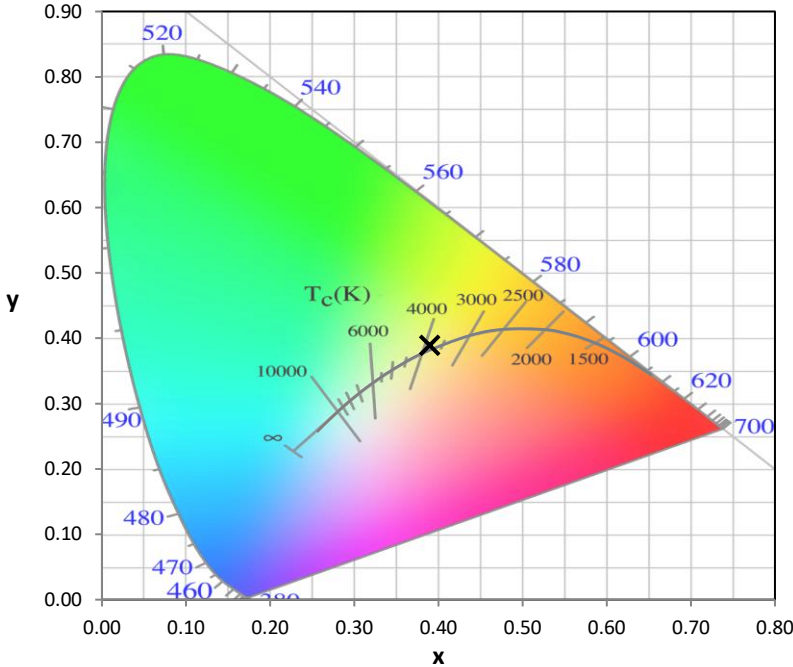
Stabilization Time: 23M
 Operation Time: 1H 23M
 Sphere Temperature (°C): 25.2

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 |

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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

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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

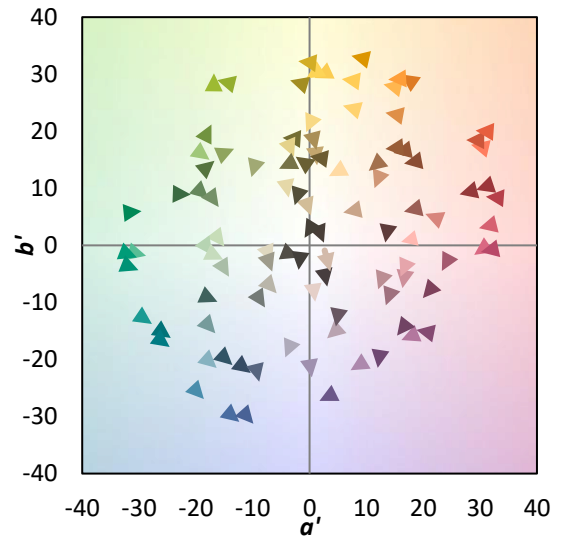
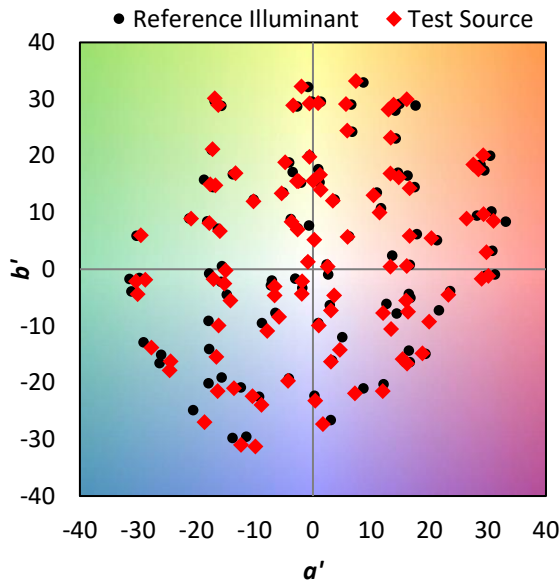
| λ (nm) | Power W [^] /nm | Lumens (φ/nm) | λ (nm) | Power W [^] /nm | Lumens (φ/nm) | λ (nm) | Power W [^] /nm | Lumens (φ/nm) | λ (nm) | Power W [^] /nm | Lumens (φ/nm) | λ (nm) | Power W [^] /nm | Lumens (φ/nm) |
|--------|--------------------------|---------------|--------|--------------------------|---------------|--------|--------------------------|---------------|--------|--------------------------|---------------|--------|--------------------------|---------------|
| 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

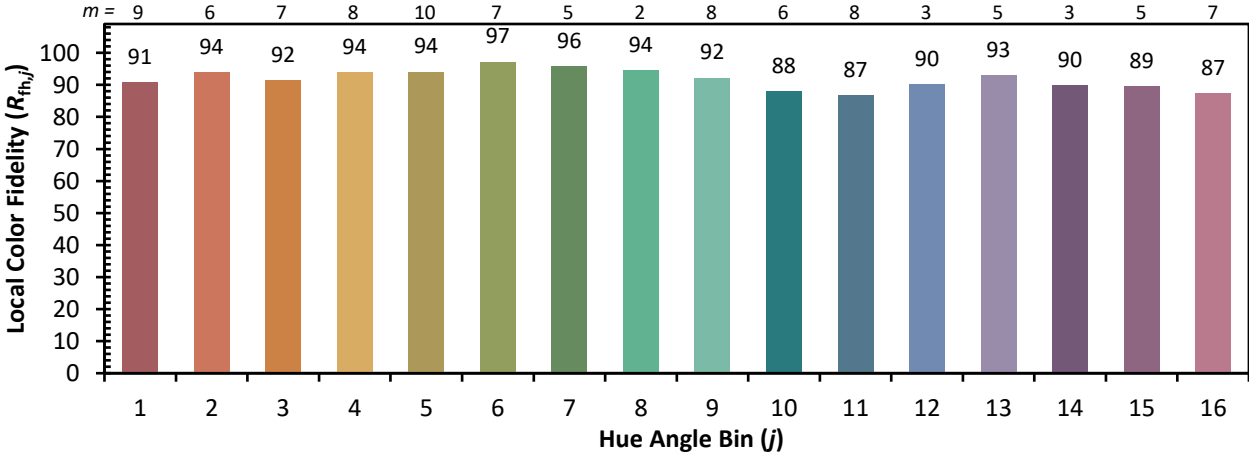


Individual Sample Fidelity Index ($R_{f,i}$)

| | | | |
|------------|------------|------------|------------|
| 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)