

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: STREETWORKS

Report Number: P360149

Luminaire Tested: NVN-SA1A-740-U-SLL-HSS

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P360149
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-27)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: NVN-SA1A-740-U-SLL-HSS
Description: NAVION ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 615mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3564 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

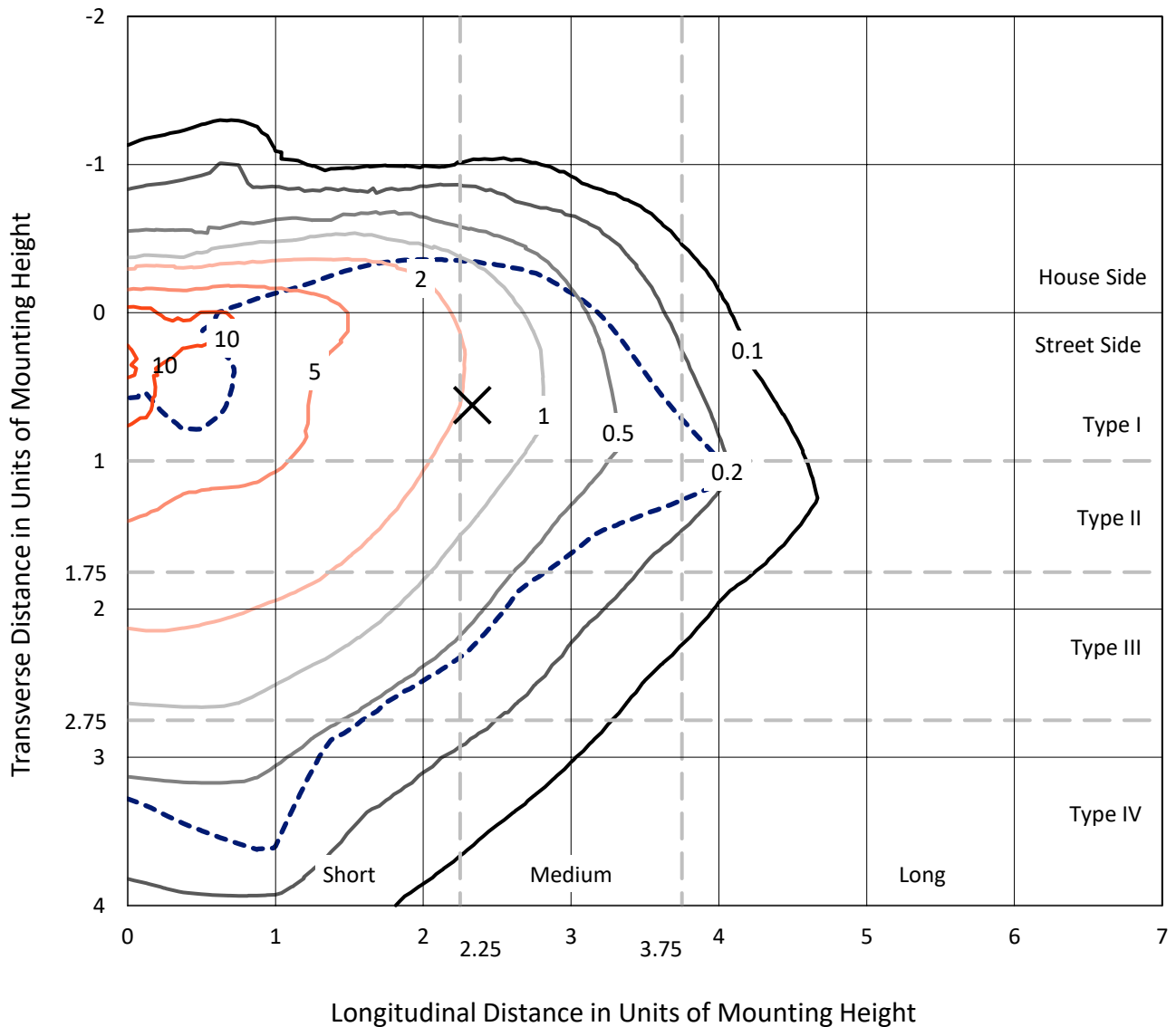
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P360149
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Iso-Footcandle Lines of Horizontal Illumination

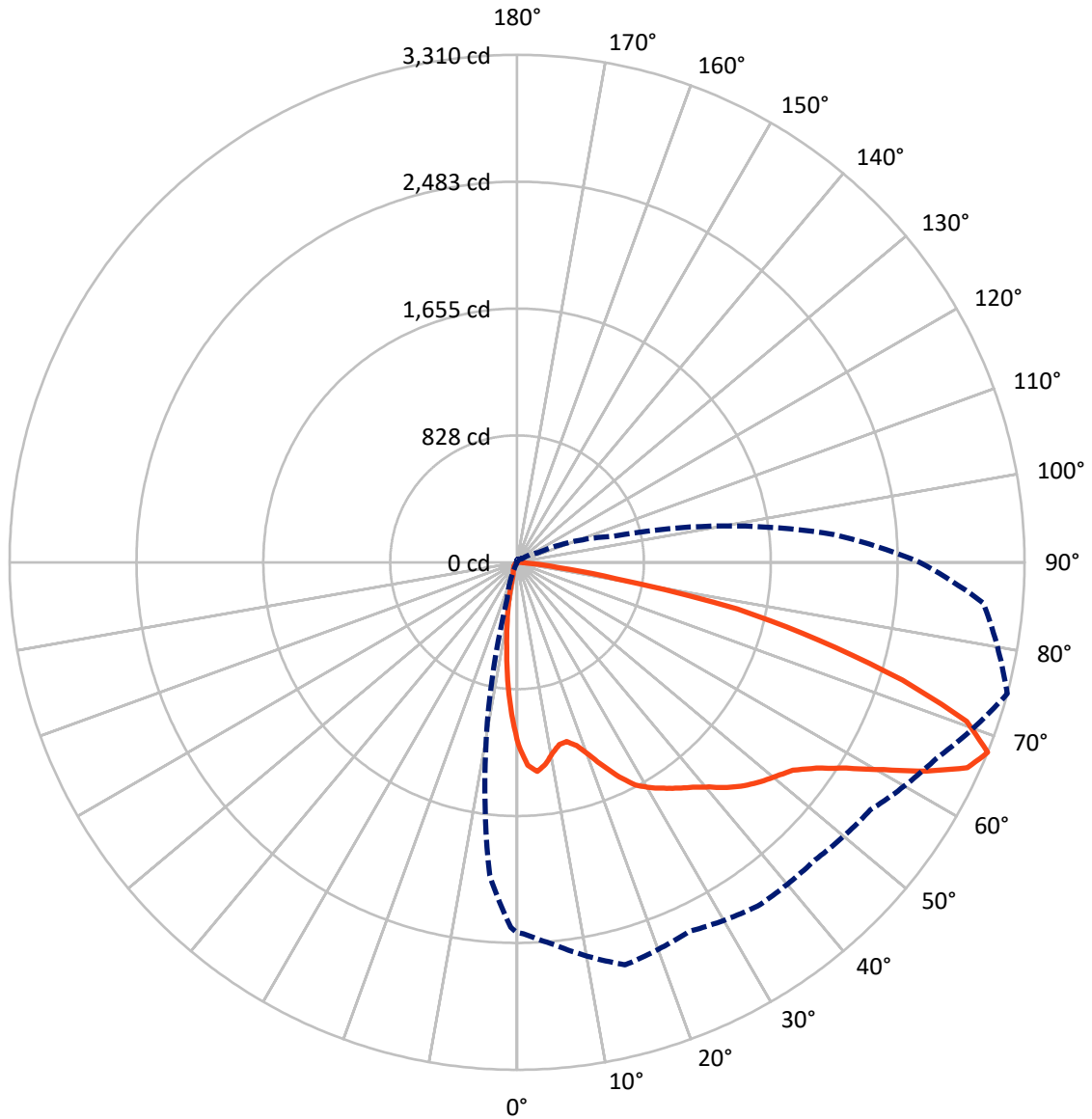
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 534.8 | 0.0 | 534.8 |
| | % Fixture | 15.0 | 0.0 | 15.0 |
| Street Side | Lumens | 3029.2 | 0.0 | 3029.2 |
| | % Fixture | 85.0 | 0.0 | 85.0 |
| Total | Lumens | 3564.0 | 0.0 | 3564.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 90.7 | 2.5 |
| 10°-20° | 178.6 | 5.0 |
| 20°-30° | 252.6 | 7.1 |
| 30°-40° | 371.5 | 10.4 |
| 40°-50° | 533.9 | 15.0 |
| 50°-60° | 751.6 | 21.1 |
| 60°-70° | 877.8 | 24.6 |
| 70°-80° | 447.8 | 12.6 |
| 80°-90° | 59.5 | 1.7 |
| 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° | 3564.0 | 100.0 |
| 0°-180° | 3564.0 | 100.0 |

Coefficient of Utilization

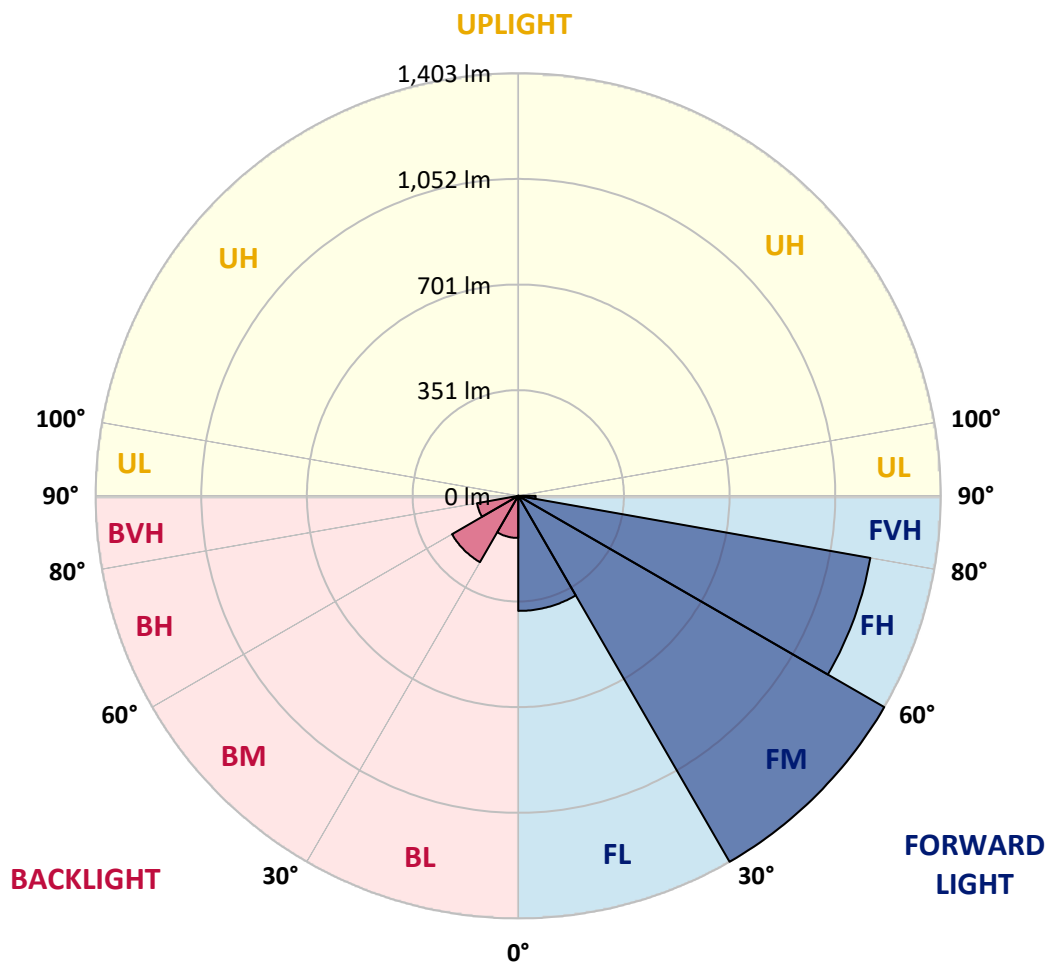


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 382.1 | 10.7 | | | |
| FM (30°-60°) | 1402.7 | 39.4 | | | |
| FH (60°-80°) | 1186.7 | 33.3 | | | G1/1800 |
| FVH (80°-90°) | 57.7 | 1.6 | | | G1/100 |
| BL (0°-30°) | 139.9 | 3.9 | B1/500 | | |
| BM (30°-60°) | 254.2 | 7.1 | B1/1000 | | |
| BH (60°-80°) | 138.9 | 3.9 | B1/500 | | G1/500 |
| BVH (80°-90°) | 1.8 | 0.1 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G1
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1195.7 | 1195.7 | 1195.7 | 1195.7 | 1195.7 | 1195.7 | 1195.7 | 1195.7 | 1195.7 | 1195.7 | 1195.7 |
| 2.5° | 1296.1 | 1298.1 | 1308.6 | 1332.9 | 1359.4 | 1361.5 | 1379.3 | 1360.9 | 1354.7 | 1325.0 | 1294.3 |
| 5° | 1305.9 | 1313.7 | 1349.6 | 1421.1 | 1483.0 | 1502.9 | 1517.1 | 1481.0 | 1443.0 | 1370.4 | 1292.9 |
| 7.5° | 1227.1 | 1240.1 | 1296.6 | 1430.7 | 1541.4 | 1590.4 | 1599.7 | 1543.1 | 1450.1 | 1330.6 | 1214.1 |
| 10° | 1126.1 | 1141.0 | 1209.2 | 1373.9 | 1526.1 | 1610.0 | 1622.8 | 1548.7 | 1415.0 | 1266.1 | 1128.8 |
| 12.5° | 1044.4 | 1061.8 | 1131.5 | 1310.1 | 1473.2 | 1566.1 | 1591.4 | 1529.9 | 1384.6 | 1220.3 | 1070.6 |
| 15° | 1006.7 | 1026.7 | 1099.9 | 1268.9 | 1414.6 | 1487.7 | 1508.7 | 1482.2 | 1367.7 | 1213.1 | 1057.1 |
| 17.5° | 1028.3 | 1050.0 | 1125.6 | 1272.5 | 1359.6 | 1390.8 | 1407.7 | 1418.5 | 1367.7 | 1256.8 | 1096.6 |
| 20° | 1117.0 | 1140.3 | 1220.3 | 1308.4 | 1314.0 | 1302.4 | 1320.4 | 1358.4 | 1383.6 | 1339.8 | 1191.4 |
| 22.5° | 1239.6 | 1266.9 | 1357.2 | 1370.1 | 1291.7 | 1247.7 | 1250.0 | 1309.6 | 1412.4 | 1445.2 | 1323.1 |
| 25° | 1389.0 | 1422.4 | 1514.2 | 1461.9 | 1301.0 | 1215.1 | 1214.2 | 1269.4 | 1440.6 | 1550.7 | 1469.8 |
| 27.5° | 1537.4 | 1574.2 | 1654.9 | 1574.0 | 1339.3 | 1209.2 | 1207.5 | 1257.3 | 1468.2 | 1644.6 | 1630.1 |
| 30° | 1661.8 | 1697.6 | 1767.2 | 1655.2 | 1380.7 | 1223.0 | 1214.9 | 1270.3 | 1484.5 | 1705.5 | 1746.9 |
| 32.5° | 1763.1 | 1791.8 | 1848.0 | 1711.1 | 1424.9 | 1249.9 | 1232.3 | 1305.1 | 1512.4 | 1757.0 | 1854.3 |
| 35° | 1874.5 | 1904.8 | 1927.2 | 1764.3 | 1474.6 | 1288.5 | 1263.4 | 1360.3 | 1555.3 | 1809.4 | 1971.9 |
| 37.5° | 2001.7 | 2031.7 | 2029.0 | 1812.9 | 1537.5 | 1352.5 | 1336.5 | 1447.7 | 1622.0 | 1861.2 | 2103.3 |
| 40° | 2126.1 | 2156.8 | 2134.9 | 1866.1 | 1611.5 | 1458.0 | 1446.2 | 1579.1 | 1711.3 | 1927.5 | 2257.3 |
| 42.5° | 2242.6 | 2275.8 | 2228.9 | 1916.4 | 1699.6 | 1591.1 | 1611.3 | 1748.2 | 1823.0 | 2009.3 | 2390.0 |
| 45° | 2336.5 | 2370.4 | 2307.8 | 1965.4 | 1792.5 | 1752.5 | 1813.4 | 1935.6 | 1957.4 | 2078.3 | 2479.6 |
| 47.5° | 2404.7 | 2436.7 | 2362.5 | 2014.3 | 1911.3 | 1949.8 | 2056.0 | 2132.2 | 2078.8 | 2138.2 | 2543.3 |
| 50° | 2448.2 | 2473.2 | 2378.5 | 2075.6 | 2067.3 | 2180.1 | 2308.8 | 2345.9 | 2193.1 | 2192.3 | 2620.6 |
| 52.5° | 2475.9 | 2487.2 | 2390.3 | 2139.6 | 2230.1 | 2430.8 | 2556.3 | 2567.9 | 2310.8 | 2251.7 | 2724.8 |
| 55° | 2571.3 | 2580.4 | 2474.0 | 2217.1 | 2364.6 | 2650.5 | 2780.1 | 2769.3 | 2444.0 | 2368.0 | 2847.7 |
| 57.5° | 2734.0 | 2743.7 | 2647.1 | 2328.5 | 2473.5 | 2786.2 | 2942.4 | 2961.8 | 2600.2 | 2531.5 | 2979.4 |
| 60° | 2815.8 | 2833.7 | 2799.2 | 2469.7 | 2579.1 | 2873.0 | 3053.0 | 3114.9 | 2795.3 | 2746.9 | 3107.0 |
| 62.5° | 2741.6 | 2767.6 | 2817.6 | 2626.2 | 2683.9 | 2920.8 | 3087.4 | 3169.8 | 2995.2 | 2997.9 | 3185.7 |
| 65° | 2593.8 | 2614.5 | 2699.3 | 2711.9 | 2744.7 | 2914.9 | 3002.3 | 3093.2 | 3117.6 | 3228.6 | 3181.5 |
| 67.5° | 2415.1 | 2422.9 | 2494.8 | 2718.7 | 2656.6 | 2737.3 | 2746.7 | 2813.9 | 3020.9 | 3310.3 | 3053.6 |
| 70° | 2158.0 | 2162.2 | 2225.0 | 2492.6 | 2282.9 | 2300.7 | 2286.6 | 2300.3 | 2597.1 | 3111.2 | 2731.0 |
| 72.5° | 1736.8 | 1747.4 | 1836.7 | 2070.0 | 1663.2 | 1612.0 | 1722.1 | 1716.0 | 2000.1 | 2628.5 | 2028.3 |
| 75° | 1278.7 | 1297.1 | 1432.0 | 1667.4 | 1167.3 | 1055.9 | 1136.2 | 1157.7 | 1421.9 | 2033.2 | 1268.4 |
| 77.5° | 895.3 | 909.0 | 1039.7 | 1225.7 | 844.8 | 755.0 | 726.0 | 751.5 | 938.5 | 1470.9 | 639.0 |
| 80° | 515.8 | 520.8 | 604.2 | 707.7 | 569.3 | 651.3 | 590.1 | 607.6 | 562.4 | 654.4 | 274.9 |
| 82.5° | 337.5 | 338.3 | 370.9 | 421.2 | 354.5 | 411.9 | 304.9 | 389.8 | 345.9 | 262.9 | 89.5 |
| 85° | 182.3 | 183.4 | 215.1 | 299.0 | 200.7 | 113.5 | 66.7 | 136.9 | 213.9 | 60.3 | 24.5 |
| 87.5° | 20.1 | 18.4 | 64.8 | 108.7 | 55.7 | 10.3 | 3.5 | 15.4 | 34.3 | 3.9 | 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 |



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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1195.7 | 1195.7 | 1195.7 | 1195.7 | 1195.7 | 1195.7 | 1195.7 | 1195.7 | 1195.7 | 1195.7 | 1195.7 |
| 2.5° | 1278.6 | 1264.5 | 1229.6 | 1192.6 | 1162.9 | 1135.1 | 1107.0 | 1072.8 | 1046.2 | 1040.8 | 1032.1 |
| 5° | 1251.2 | 1206.8 | 1133.5 | 1059.9 | 1000.7 | 925.9 | 878.4 | 841.5 | 805.3 | 803.1 | 795.9 |
| 7.5° | 1155.6 | 1097.2 | 994.1 | 892.3 | 808.9 | 737.6 | 665.7 | 617.6 | 579.8 | 566.4 | 558.5 |
| 10° | 1063.8 | 998.1 | 869.3 | 753.2 | 678.7 | 615.7 | 565.1 | 514.8 | 469.2 | 437.8 | 423.6 |
| 12.5° | 999.6 | 927.1 | 785.1 | 684.9 | 631.6 | 571.8 | 510.0 | 447.2 | 394.7 | 356.9 | 333.8 |
| 15° | 974.8 | 897.3 | 756.9 | 657.9 | 592.1 | 516.5 | 437.4 | 365.7 | 307.4 | 273.2 | 252.4 |
| 17.5° | 1004.4 | 914.2 | 754.7 | 625.0 | 533.0 | 439.0 | 351.7 | 266.9 | 212.1 | 186.1 | 172.7 |
| 20° | 1079.3 | 967.9 | 753.8 | 584.7 | 462.8 | 347.1 | 238.2 | 175.6 | 142.3 | 127.8 | 121.6 |
| 22.5° | 1185.4 | 1036.5 | 760.6 | 544.8 | 389.7 | 248.0 | 164.4 | 129.0 | 111.9 | 104.2 | 100.6 |
| 25° | 1321.8 | 1132.7 | 779.7 | 508.7 | 320.9 | 185.0 | 128.1 | 108.1 | 96.1 | 90.0 | 87.5 |
| 27.5° | 1467.1 | 1243.4 | 809.4 | 477.3 | 265.1 | 147.6 | 109.7 | 92.5 | 83.9 | 79.7 | 77.3 |
| 30° | 1587.0 | 1371.8 | 839.4 | 442.3 | 224.5 | 128.6 | 100.5 | 84.4 | 74.5 | 71.8 | 69.6 |
| 32.5° | 1691.9 | 1468.8 | 860.7 | 410.8 | 198.0 | 114.3 | 90.8 | 75.5 | 68.7 | 63.5 | 61.1 |
| 35° | 1800.4 | 1549.7 | 860.0 | 388.6 | 179.8 | 103.5 | 82.7 | 67.5 | 59.4 | 53.4 | 51.5 |
| 37.5° | 1917.9 | 1641.0 | 845.3 | 369.7 | 171.9 | 94.9 | 78.2 | 63.3 | 55.2 | 49.1 | 46.8 |
| 40° | 2055.5 | 1736.9 | 830.3 | 352.0 | 169.7 | 88.0 | 75.0 | 59.9 | 51.3 | 45.4 | 43.1 |
| 42.5° | 2189.6 | 1823.4 | 817.1 | 338.8 | 160.2 | 87.8 | 72.1 | 57.4 | 48.3 | 42.5 | 39.8 |
| 45° | 2296.8 | 1903.9 | 814.6 | 330.9 | 150.3 | 90.8 | 70.6 | 55.7 | 45.9 | 40.2 | 37.6 |
| 47.5° | 2385.9 | 1991.4 | 830.8 | 325.3 | 140.8 | 82.9 | 74.3 | 54.5 | 43.7 | 38.2 | 35.3 |
| 50° | 2491.9 | 2098.7 | 869.0 | 316.2 | 130.8 | 74.6 | 85.1 | 54.9 | 41.9 | 36.1 | 33.1 |
| 52.5° | 2639.8 | 2247.3 | 925.0 | 300.9 | 117.2 | 67.0 | 83.7 | 55.2 | 39.8 | 33.9 | 30.9 |
| 55° | 2805.6 | 2432.9 | 985.3 | 275.4 | 98.1 | 57.1 | 71.8 | 52.8 | 36.0 | 31.6 | 28.7 |
| 57.5° | 2979.9 | 2601.2 | 1021.1 | 245.0 | 78.0 | 49.3 | 57.4 | 48.1 | 31.7 | 28.4 | 26.5 |
| 60° | 3007.2 | 2665.2 | 1004.7 | 207.7 | 62.0 | 42.9 | 42.5 | 49.0 | 28.4 | 25.0 | 23.6 |
| 62.5° | 2939.2 | 2584.8 | 925.5 | 174.4 | 51.8 | 37.6 | 34.9 | 42.7 | 25.7 | 22.3 | 20.9 |
| 65° | 2808.3 | 2367.5 | 797.2 | 157.2 | 48.1 | 32.2 | 29.0 | 30.1 | 22.5 | 19.4 | 18.2 |
| 67.5° | 2626.3 | 2077.5 | 654.6 | 147.4 | 47.6 | 27.7 | 24.8 | 22.8 | 19.4 | 16.9 | 15.9 |
| 70° | 2254.2 | 1730.7 | 522.2 | 142.0 | 46.3 | 23.3 | 20.9 | 18.6 | 16.2 | 14.4 | 13.5 |
| 72.5° | 1659.1 | 1226.4 | 406.2 | 136.1 | 46.6 | 18.6 | 18.2 | 15.4 | 13.0 | 11.1 | 10.8 |
| 75° | 958.6 | 700.6 | 266.4 | 110.2 | 44.4 | 14.4 | 15.2 | 10.8 | 9.1 | 7.8 | 7.8 |
| 77.5° | 510.9 | 427.3 | 101.5 | 45.9 | 16.2 | 9.1 | 8.6 | 6.4 | 5.7 | 4.7 | 4.6 |
| 80° | 222.7 | 188.1 | 30.6 | 12.8 | 8.9 | 4.9 | 3.2 | 2.9 | 2.5 | 2.0 | 1.9 |
| 82.5° | 78.8 | 68.0 | 10.0 | 6.2 | 3.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 17.9 | 12.8 | 0.0 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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 CATALOG NUMBER: NVN-SA1A-740-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1195.7 | 1195.7 | 1195.7 | 1195.7 | 1195.7 | 1195.7 | 1195.7 | 1195.7 | 1195.7 | 1195.7 | 1195.7 |
| 2.5° | 1014.2 | 1010.5 | 988.5 | 989.3 | 993.2 | 998.8 | 985.6 | 991.7 | 1008.1 | 1023.8 | 1029.7 |
| 5° | 784.2 | 785.1 | 771.7 | 780.0 | 787.4 | 792.5 | 771.2 | 771.6 | 784.6 | 802.3 | 811.6 |
| 7.5° | 552.6 | 551.2 | 551.9 | 571.7 | 585.7 | 575.5 | 583.5 | 556.0 | 557.6 | 570.3 | 560.9 |
| 10° | 410.8 | 392.2 | 381.7 | 396.6 | 411.9 | 406.4 | 392.7 | 383.8 | 390.0 | 404.0 | 403.0 |
| 12.5° | 322.8 | 296.1 | 280.4 | 269.8 | 282.5 | 272.0 | 271.6 | 263.9 | 255.4 | 257.0 | 279.4 |
| 15° | 242.8 | 223.4 | 204.8 | 187.7 | 187.4 | 183.9 | 165.8 | 145.5 | 143.8 | 144.9 | 156.5 |
| 17.5° | 167.0 | 160.4 | 152.8 | 138.1 | 134.2 | 119.4 | 101.8 | 93.7 | 89.6 | 91.5 | 95.4 |
| 20° | 117.3 | 114.8 | 115.6 | 107.7 | 102.1 | 88.0 | 77.7 | 74.5 | 73.8 | 75.6 | 77.5 |
| 22.5° | 97.2 | 92.7 | 92.2 | 88.6 | 83.1 | 72.8 | 67.2 | 65.3 | 64.5 | 66.2 | 67.5 |
| 25° | 85.1 | 80.5 | 78.7 | 76.5 | 70.6 | 63.5 | 60.1 | 58.4 | 57.6 | 58.6 | 59.4 |
| 27.5° | 75.0 | 70.7 | 69.1 | 67.5 | 61.8 | 56.7 | 54.0 | 52.5 | 51.8 | 52.2 | 53.0 |
| 30° | 67.4 | 63.6 | 61.5 | 59.6 | 54.7 | 51.2 | 48.8 | 47.3 | 46.6 | 46.6 | 47.4 |
| 32.5° | 59.4 | 57.4 | 55.4 | 53.0 | 48.5 | 46.1 | 43.7 | 42.0 | 41.4 | 41.5 | 42.2 |
| 35° | 49.5 | 48.8 | 49.3 | 47.1 | 43.2 | 41.2 | 38.8 | 37.0 | 36.5 | 36.6 | 37.3 |
| 37.5° | 43.9 | 40.9 | 42.7 | 41.5 | 39.3 | 36.6 | 33.6 | 31.9 | 31.1 | 31.6 | 31.9 |
| 40° | 40.4 | 36.6 | 35.3 | 36.5 | 36.1 | 31.7 | 29.0 | 27.4 | 26.7 | 26.8 | 27.2 |
| 42.5° | 37.3 | 32.9 | 29.9 | 29.7 | 31.7 | 27.7 | 24.8 | 23.3 | 22.5 | 22.5 | 22.8 |
| 45° | 34.4 | 29.7 | 26.0 | 23.1 | 26.7 | 23.5 | 20.8 | 19.4 | 18.4 | 18.4 | 18.6 |
| 47.5° | 32.2 | 27.0 | 22.6 | 18.9 | 20.1 | 19.2 | 17.1 | 15.7 | 14.7 | 14.7 | 14.9 |
| 50° | 30.2 | 24.3 | 19.6 | 15.9 | 15.0 | 15.9 | 13.8 | 12.3 | 11.6 | 11.5 | 11.8 |
| 52.5° | 28.0 | 21.6 | 16.7 | 13.5 | 11.8 | 12.0 | 10.8 | 9.8 | 8.9 | 8.9 | 9.3 |
| 55° | 25.8 | 19.4 | 14.5 | 11.5 | 9.8 | 8.9 | 8.6 | 7.9 | 7.3 | 7.3 | 7.6 |
| 57.5° | 23.6 | 17.1 | 12.3 | 9.5 | 7.8 | 7.1 | 7.1 | 6.6 | 6.1 | 6.1 | 6.4 |
| 60° | 21.6 | 14.7 | 10.1 | 7.8 | 6.1 | 5.9 | 6.1 | 5.6 | 5.2 | 5.2 | 5.6 |
| 62.5° | 19.2 | 12.5 | 8.3 | 6.4 | 4.9 | 4.7 | 5.2 | 4.9 | 4.6 | 4.6 | 4.9 |
| 65° | 16.4 | 10.6 | 6.6 | 4.9 | 3.7 | 3.7 | 4.4 | 4.1 | 3.7 | 3.7 | 4.1 |
| 67.5° | 13.8 | 8.9 | 5.1 | 3.5 | 2.7 | 2.9 | 3.7 | 3.4 | 3.2 | 3.2 | 3.5 |
| 70° | 11.5 | 6.9 | 3.5 | 2.2 | 1.5 | 2.2 | 2.9 | 2.9 | 2.9 | 2.9 | 3.2 |
| 72.5° | 8.6 | 4.7 | 2.0 | 0.8 | 0.7 | 1.5 | 2.4 | 2.7 | 2.5 | 2.5 | 3.0 |
| 75° | 5.6 | 2.7 | 0.7 | 0.0 | 0.0 | 0.8 | 1.9 | 2.2 | 2.2 | 2.0 | 2.5 |
| 77.5° | 3.2 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 | 1.0 | 0.8 | 0.7 | 1.2 |
| 80° | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P360149
 CATALOG NUMBER: NVN-SA1A-740-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

| | 285° | 295° | 305° | 315° | 325° | 335° | 345° | 355° | 359° | 360° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1195.7 | 1195.7 | 1195.7 | 1195.7 | 1195.7 | 1195.7 | 1195.7 | 1195.7 | 1195.7 | 1195.7 |
| 2.5° | 1053.5 | 1073.4 | 1101.5 | 1131.2 | 1176.9 | 1213.2 | 1248.8 | 1279.4 | 1291.2 | 1296.1 |
| 5° | 833.9 | 863.1 | 904.1 | 956.8 | 1039.3 | 1113.6 | 1188.9 | 1264.7 | 1297.6 | 1305.9 |
| 7.5° | 598.3 | 635.6 | 687.8 | 753.8 | 850.6 | 946.8 | 1052.0 | 1163.2 | 1214.2 | 1227.1 |
| 10° | 442.8 | 488.4 | 548.2 | 617.8 | 710.1 | 809.0 | 923.7 | 1050.8 | 1109.1 | 1126.1 |
| 12.5° | 314.2 | 375.8 | 455.8 | 540.4 | 620.5 | 708.8 | 824.7 | 964.9 | 1026.0 | 1044.4 |
| 15° | 184.5 | 244.1 | 338.8 | 452.1 | 554.6 | 644.1 | 761.9 | 920.8 | 988.2 | 1006.7 |
| 17.5° | 105.9 | 135.6 | 207.2 | 333.4 | 472.6 | 596.5 | 742.2 | 931.8 | 1011.1 | 1028.3 |
| 20° | 80.9 | 90.3 | 119.4 | 214.8 | 376.7 | 549.7 | 742.2 | 993.9 | 1091.7 | 1117.0 |
| 22.5° | 70.7 | 77.7 | 89.5 | 128.1 | 277.2 | 499.6 | 750.8 | 1083.7 | 1211.5 | 1239.6 |
| 25° | 62.8 | 69.1 | 79.2 | 96.4 | 189.1 | 440.0 | 771.2 | 1194.0 | 1352.7 | 1389.0 |
| 27.5° | 56.2 | 62.1 | 71.2 | 84.4 | 129.3 | 368.1 | 798.7 | 1323.3 | 1508.3 | 1537.4 |
| 30° | 50.3 | 55.9 | 64.2 | 73.4 | 99.8 | 286.5 | 822.2 | 1445.2 | 1630.6 | 1661.8 |
| 32.5° | 44.7 | 49.8 | 57.2 | 64.2 | 81.7 | 211.9 | 824.7 | 1541.8 | 1732.0 | 1763.1 |
| 35° | 39.5 | 44.1 | 50.8 | 56.2 | 67.7 | 167.3 | 785.4 | 1625.5 | 1833.5 | 1874.5 |
| 37.5° | 34.4 | 38.8 | 44.7 | 48.8 | 59.6 | 136.4 | 725.3 | 1718.9 | 1963.7 | 2001.7 |
| 40° | 29.7 | 33.6 | 39.7 | 42.4 | 56.4 | 104.8 | 660.0 | 1816.8 | 2091.3 | 2126.1 |
| 42.5° | 25.3 | 29.0 | 34.9 | 40.2 | 49.5 | 78.3 | 589.4 | 1908.6 | 2206.1 | 2242.6 |
| 45° | 21.1 | 25.0 | 30.9 | 42.5 | 41.0 | 58.6 | 513.9 | 1969.6 | 2296.8 | 2336.5 |
| 47.5° | 17.1 | 21.4 | 29.5 | 40.5 | 32.8 | 43.1 | 454.2 | 2027.3 | 2365.5 | 2404.7 |
| 50° | 13.7 | 18.1 | 33.3 | 36.1 | 26.8 | 32.9 | 429.2 | 2079.0 | 2410.6 | 2448.2 |
| 52.5° | 11.1 | 15.2 | 31.4 | 27.7 | 22.5 | 27.2 | 442.7 | 2162.7 | 2452.3 | 2475.9 |
| 55° | 9.3 | 12.0 | 18.9 | 19.2 | 19.1 | 23.1 | 459.4 | 2282.9 | 2560.2 | 2571.3 |
| 57.5° | 8.1 | 9.6 | 13.2 | 14.9 | 16.0 | 20.6 | 459.7 | 2455.5 | 2727.1 | 2734.0 |
| 60° | 6.9 | 8.4 | 11.0 | 12.0 | 13.8 | 18.4 | 443.0 | 2515.8 | 2792.8 | 2815.8 |
| 62.5° | 6.1 | 7.4 | 9.1 | 10.0 | 11.6 | 16.5 | 403.8 | 2428.5 | 2702.6 | 2741.6 |
| 65° | 5.4 | 6.8 | 7.6 | 8.4 | 10.3 | 14.9 | 339.4 | 2253.9 | 2553.1 | 2593.8 |
| 67.5° | 4.7 | 5.9 | 6.8 | 7.6 | 9.3 | 13.2 | 249.9 | 2051.1 | 2381.4 | 2415.1 |
| 70° | 4.2 | 5.2 | 6.1 | 6.8 | 8.1 | 11.1 | 151.6 | 1740.5 | 2144.0 | 2158.0 |
| 72.5° | 4.1 | 4.7 | 5.6 | 6.1 | 7.1 | 9.8 | 76.8 | 1279.1 | 1714.0 | 1736.8 |
| 75° | 3.5 | 4.2 | 5.1 | 5.4 | 6.2 | 8.4 | 31.2 | 840.1 | 1242.1 | 1278.7 |
| 77.5° | 2.9 | 3.9 | 4.6 | 4.9 | 5.4 | 6.9 | 15.9 | 536.9 | 871.7 | 895.3 |
| 80° | 1.0 | 2.9 | 3.9 | 4.1 | 4.6 | 5.1 | 10.5 | 293.9 | 505.6 | 515.8 |
| 82.5° | 0.0 | 1.9 | 3.0 | 2.9 | 3.2 | 3.9 | 6.8 | 139.8 | 333.8 | 337.5 |
| 85° | 0.0 | 0.8 | 2.4 | 1.9 | 1.4 | 2.7 | 2.4 | 30.6 | 175.1 | 182.3 |
| 87.5° | 0.0 | 0.0 | 0.2 | 0.8 | 0.7 | 1.0 | 0.3 | 0.2 | 15.9 | 20.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

LM-79-08: Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Report Prepared for

Cooper Lighting Solutions

MCGRAW, INVUE, LUMARK AND STREETWORKS

DATA VALID FOR LUMINIAIRES UTILIZING SA LIGHT ENGINES

Report Number: SP1-2101-121-2

Luminaire Tested: IFLD-S-SA2A-740-U-T3R-HSS

Test Date: 03/05/2021

Test Information

Test Method: LM-79-08
 Report Number: SP1-2101-121-2
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1
 Measurement Geometry: 4π
 Issue Date: 03/05/2021
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: STREETWORKS
 Catalog Number: **IFLD-S-SA2A-740-U-T3R-HSS**
 Description: STREETWORKS INF FLOOD

SHIELD, DRIVER PROGRAMMED @ 615mA.

Spectral Parameters

| | | | | | |
|---------------------------|---------|-----------|------|------|-------|
| CCT (K): | 3905 | CRI (Ra): | 71.2 | R9: | -29.7 |
| CIE u': | 0.2273 | R1: | 68.9 | R10: | 46.2 |
| CIE v': | 0.5024 | R2: | 77.0 | R11: | 68.8 |
| Duv: | -0.0008 | R3: | 84.0 | R12: | 45.6 |
| CIE x: | 0.3841 | R4: | 71.6 | R13: | 69.5 |
| CIE y: | 0.3774 | R5: | 68.9 | R14: | 90.7 |
| CIE z: | 0.2385 | R6: | 68.3 | | |
| Peak Wavelength (nm): | 443 | R7: | 78.7 | | |
| Dominant Wavelength (nm): | 579 | R8: | 52.2 | | |
| Purity: | 28.7 | | | | |
| Rf: | 71.7 | | | | |
| Rg: | 96.9 | | | | |



Test Conditions

Stabilization Time: 211M
 Operation Time: 12H
 Room Temperature (°C) / RH%: 24.8/312%
 Sphere Temperature (°C): 24.1

REPORT NUMBER: SP1-2101-121-2

| Measurement and Test Equipment | | | |
|--------------------------------|-----------------------|------------------|----------------------|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | IN0058 | 1/31/2021 | 7/31/2021 |
| Power Meter | IN0071 | 12/1/2020 | 12/1/2021 |
| AC Power Source | IN0063 | 12/1/2020 | 12/1/2021 |
| DC Power Source | IN0208 | 12/1/2020 | 12/1/2021 |
| Sphere Thermometer | IN0085 | 12/1/2020 | 12/1/2021 |
| Room Thermometer | IN0046 | 12/1/2020 | 12/1/2021 |

REPORT NUMBER: SP1-2101-121-2

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: SP1-2101-121-2

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 | 2304 | 0.0 | 490 | 19043 | 2.7 | 620 | 97577 | 25.4 | 750 | 4830 | 0.0 | 880 | 3505 | 0.0 |
| 365 | 2150 | 0.0 | 495 | 26606 | 4.8 | 625 | 90158 | 19.9 | 755 | 4664 | 0.0 | 885 | 2991 | 0.0 |
| 370 | 2146 | 0.0 | 500 | 36376 | 8.0 | 630 | 82240 | 14.9 | 760 | 4006 | 0.0 | 890 | 2327 | 0.0 |
| 375 | 2332 | 0.0 | 505 | 47714 | 13.3 | 635 | 74361 | 11.2 | 765 | 3715 | 0.0 | 895 | 2775 | 0.0 |
| 380 | 2527 | 0.0 | 510 | 58741 | 20.2 | 640 | 66994 | 8.0 | 770 | 3696 | 0.0 | 900 | 2141 | 0.0 |
| 385 | 2304 | 0.0 | 515 | 68716 | 28.5 | 645 | 60405 | 5.8 | 775 | 3117 | 0.0 | 905 | 2421 | 0.0 |
| 390 | 2064 | 0.0 | 520 | 77136 | 37.4 | 650 | 53806 | 3.9 | 780 | 3062 | 0.0 | 910 | 2200 | 0.0 |
| 395 | 1856 | 0.0 | 525 | 83567 | 44.9 | 655 | 47610 | 2.7 | 785 | 2907 | 0.0 | 915 | 2716 | 0.0 |
| 400 | 1856 | 0.0 | 530 | 89283 | 52.6 | 660 | 42018 | 1.8 | 790 | 2655 | 0.0 | 920 | 2656 | 0.0 |
| 405 | 2374 | 0.0 | 535 | 94097 | 58.4 | 665 | 36742 | 1.2 | 795 | 2467 | 0.0 | 925 | 2671 | 0.0 |
| 410 | 4084 | 0.0 | 540 | 96845 | 63.1 | 670 | 32105 | 0.7 | 800 | 2609 | 0.0 | 930 | 3292 | 0.0 |
| 415 | 8543 | 0.0 | 545 | 100829 | 67.1 | 675 | 27946 | 0.5 | 805 | 2293 | 0.0 | 935 | 3188 | 0.0 |
| 420 | 18394 | 0.1 | 550 | 105648 | 71.8 | 680 | 24146 | 0.3 | 810 | 2188 | 0.0 | 940 | 1997 | 0.0 |
| 425 | 37987 | 0.2 | 555 | 110017 | 75.1 | 685 | 21191 | 0.2 | 815 | 2386 | 0.0 | 945 | 2623 | 0.0 |
| 430 | 67605 | 0.5 | 560 | 114586 | 77.9 | 690 | 18544 | 0.1 | 820 | 2712 | 0.0 | 950 | 2969 | 0.0 |
| 435 | 102160 | 1.2 | 565 | 118987 | 79.1 | 695 | 16058 | 0.1 | 825 | 2473 | 0.0 | 955 | 2277 | 0.0 |
| 440 | 135103 | 2.1 | 570 | 122326 | 79.5 | 700 | 14133 | 0.0 | 830 | 1969 | 0.0 | 960 | 4267 | 0.0 |
| 445 | 140126 | 2.9 | 575 | 125968 | 78.4 | 705 | 12309 | 0.0 | 835 | 1917 | 0.0 | 965 | 2034 | 0.0 |
| 450 | 102339 | 2.7 | 580 | 127613 | 75.8 | 710 | 11142 | 0.0 | 840 | 2248 | 0.0 | 970 | 3586 | 0.0 |
| 455 | 58751 | 2.0 | 585 | 129466 | 71.9 | 715 | 10143 | 0.0 | 845 | 2266 | 0.0 | 975 | 2505 | 0.0 |
| 460 | 36892 | 1.5 | 590 | 128813 | 66.6 | 720 | 9072 | 0.0 | 850 | 2558 | 0.0 | 980 | 2666 | 0.0 |
| 465 | 24637 | 1.3 | 595 | 126387 | 59.9 | 725 | 8130 | 0.0 | 855 | 2767 | 0.0 | 985 | 2934 | 0.0 |
| 470 | 16738 | 1.0 | 600 | 123477 | 53.2 | 730 | 7149 | 0.0 | 860 | 2826 | 0.0 | 990 | 4120 | 0.0 |
| 475 | 13456 | 1.1 | 605 | 118718 | 46.0 | 735 | 6311 | 0.0 | 865 | 2385 | 0.0 | 995 | 3858 | 0.0 |
| 480 | 13081 | 1.2 | 610 | 112091 | 38.5 | 740 | 5711 | 0.0 | 870 | 3194 | 0.0 | 1000 | 3405 | 0.0 |
| 485 | 14734 | 1.7 | 615 | 105039 | 31.7 | 745 | 5111 | 0.0 | 875 | 3189 | 0.0 | | | |

REPORT NUMBER: SP1-2101-121-2

Scotopic Flux vs. Wavelength



Scotopic Lumens: 10425.8 S/P: 1.47

| 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 | 2304 | 0.0 | 490 | 19043 | 29.3 | 620 | 97577 | 1.2 | 750 | 4830 | 0.0 | 880 | 3505 | 0.0 |
| 365 | 2150 | 0.0 | 495 | 26606 | 43.0 | 625 | 90158 | 0.8 | 755 | 4664 | 0.0 | 885 | 2991 | 0.0 |
| 370 | 2146 | 0.0 | 500 | 36376 | 60.8 | 630 | 82240 | 0.5 | 760 | 4006 | 0.0 | 890 | 2327 | 0.0 |
| 375 | 2332 | 0.0 | 505 | 47714 | 81.1 | 635 | 74361 | 0.3 | 765 | 3715 | 0.0 | 895 | 2775 | 0.0 |
| 380 | 2527 | 0.0 | 510 | 58741 | 99.6 | 640 | 66994 | 0.2 | 770 | 3696 | 0.0 | 900 | 2141 | 0.0 |
| 385 | 2304 | 0.0 | 515 | 68716 | 113.9 | 645 | 60405 | 0.1 | 775 | 3117 | 0.0 | 905 | 2421 | 0.0 |
| 390 | 2064 | 0.0 | 520 | 77136 | 122.6 | 650 | 53806 | 0.1 | 780 | 3062 | 0.0 | 910 | 2200 | 0.0 |
| 395 | 1856 | 0.0 | 525 | 83567 | 125.0 | 655 | 47610 | 0.0 | 785 | 2907 | 0.0 | 915 | 2716 | 0.0 |
| 400 | 1856 | 0.0 | 530 | 89283 | 123.1 | 660 | 42018 | 0.0 | 790 | 2655 | 0.0 | 920 | 2656 | 0.0 |
| 405 | 2374 | 0.1 | 535 | 94097 | 117.3 | 665 | 36742 | 0.0 | 795 | 2467 | 0.0 | 925 | 2671 | 0.0 |
| 410 | 4084 | 0.2 | 540 | 96845 | 107.0 | 670 | 32105 | 0.0 | 800 | 2609 | 0.0 | 930 | 3292 | 0.0 |
| 415 | 8543 | 0.9 | 545 | 100829 | 96.7 | 675 | 27946 | 0.0 | 805 | 2293 | 0.0 | 935 | 3188 | 0.0 |
| 420 | 18394 | 3.0 | 550 | 105648 | 86.4 | 680 | 24146 | 0.0 | 810 | 2188 | 0.0 | 940 | 1997 | 0.0 |
| 425 | 37987 | 9.3 | 555 | 110017 | 75.2 | 685 | 21191 | 0.0 | 815 | 2386 | 0.0 | 945 | 2623 | 0.0 |
| 430 | 67605 | 23.0 | 560 | 114586 | 64.0 | 690 | 18544 | 0.0 | 820 | 2712 | 0.0 | 950 | 2969 | 0.0 |
| 435 | 102160 | 45.7 | 565 | 118987 | 53.4 | 695 | 16058 | 0.0 | 825 | 2473 | 0.0 | 955 | 2277 | 0.0 |
| 440 | 135103 | 75.5 | 570 | 122326 | 43.2 | 700 | 14133 | 0.0 | 830 | 1969 | 0.0 | 960 | 4267 | 0.0 |
| 445 | 140126 | 93.8 | 575 | 125968 | 34.3 | 705 | 12309 | 0.0 | 835 | 1917 | 0.0 | 965 | 2034 | 0.0 |
| 450 | 102339 | 79.3 | 580 | 127613 | 26.3 | 710 | 11142 | 0.0 | 840 | 2248 | 0.0 | 970 | 3586 | 0.0 |
| 455 | 58751 | 51.3 | 585 | 129466 | 19.8 | 715 | 10143 | 0.0 | 845 | 2266 | 0.0 | 975 | 2505 | 0.0 |
| 460 | 36892 | 35.6 | 590 | 128813 | 14.3 | 720 | 9072 | 0.0 | 850 | 2558 | 0.0 | 980 | 2666 | 0.0 |
| 465 | 24637 | 26.0 | 595 | 126387 | 10.1 | 725 | 8130 | 0.0 | 855 | 2767 | 0.0 | 985 | 2934 | 0.0 |
| 470 | 16738 | 19.3 | 600 | 123477 | 7.0 | 730 | 7149 | 0.0 | 860 | 2826 | 0.0 | 990 | 4120 | 0.0 |
| 475 | 13456 | 16.8 | 605 | 118718 | 4.7 | 735 | 6311 | 0.0 | 865 | 2385 | 0.0 | 995 | 3858 | 0.0 |
| 480 | 13081 | 17.7 | 610 | 112091 | 3.0 | 740 | 5711 | 0.0 | 870 | 3194 | 0.0 | 1000 | 3405 | 0.0 |
| 485 | 14734 | 21.4 | 615 | 105039 | 1.9 | 745 | 5111 | 0.0 | 875 | 3189 | 0.0 | | | |

REPORT NUMBER: SP1-2101-121-2

Melanopic Flux vs. Wavelength



Melanopic Lumens: 3927.2 M/P: 0.55

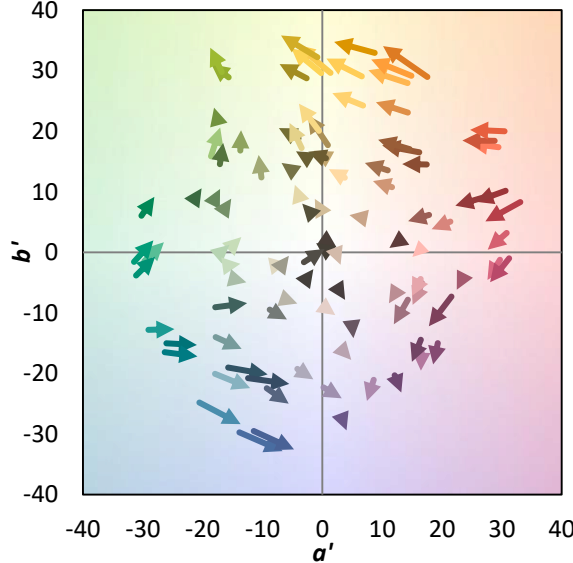
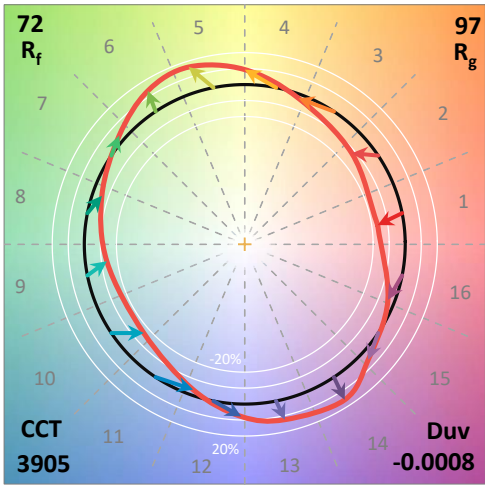
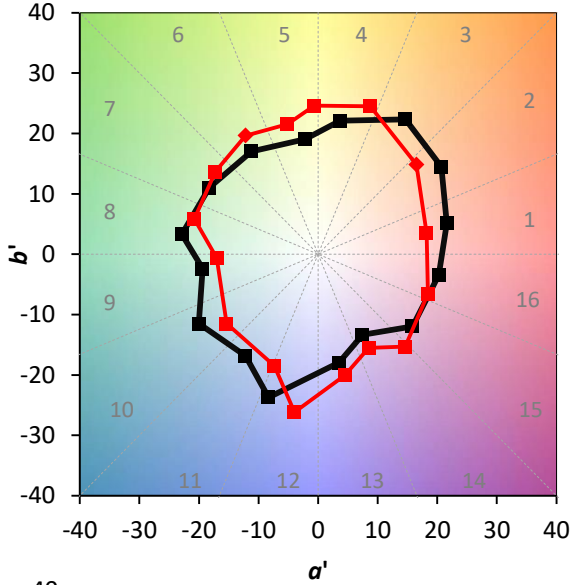
| λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) |
|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|
| 360 | 2304 | 0.0 | 490 | 19043 | 15.8 | 620 | 97577 | 0.1 | 750 | 4830 | 0.0 | 880 | 3505 | 0.0 |
| 365 | 2150 | 0.0 | 495 | 26606 | 22.0 | 625 | 90158 | 0.0 | 755 | 4664 | 0.0 | 885 | 2991 | 0.0 |
| 370 | 2146 | 0.0 | 500 | 36376 | 29.2 | 630 | 82240 | 0.0 | 760 | 4006 | 0.0 | 890 | 2327 | 0.0 |
| 375 | 2332 | 0.0 | 505 | 47714 | 36.6 | 635 | 74361 | 0.0 | 765 | 3715 | 0.0 | 895 | 2775 | 0.0 |
| 380 | 2527 | 0.0 | 510 | 58741 | 42.2 | 640 | 66994 | 0.0 | 770 | 3696 | 0.0 | 900 | 2141 | 0.0 |
| 385 | 2304 | 0.0 | 515 | 68716 | 44.9 | 645 | 60405 | 0.0 | 775 | 3117 | 0.0 | 905 | 2421 | 0.0 |
| 390 | 2064 | 0.0 | 520 | 77136 | 44.9 | 650 | 53806 | 0.0 | 780 | 3062 | 0.0 | 910 | 2200 | 0.0 |
| 395 | 1856 | 0.0 | 525 | 83567 | 42.4 | 655 | 47610 | 0.0 | 785 | 2907 | 0.0 | 915 | 2716 | 0.0 |
| 400 | 1856 | 0.0 | 530 | 89283 | 38.6 | 660 | 42018 | 0.0 | 790 | 2655 | 0.0 | 920 | 2656 | 0.0 |
| 405 | 2374 | 0.0 | 535 | 94097 | 33.9 | 665 | 36742 | 0.0 | 795 | 2467 | 0.0 | 925 | 2671 | 0.0 |
| 410 | 4084 | 0.2 | 540 | 96845 | 28.3 | 670 | 32105 | 0.0 | 800 | 2609 | 0.0 | 930 | 3292 | 0.0 |
| 415 | 8543 | 0.6 | 545 | 100829 | 23.4 | 675 | 27946 | 0.0 | 805 | 2293 | 0.0 | 935 | 3188 | 0.0 |
| 420 | 18394 | 2.1 | 550 | 105648 | 19.0 | 680 | 24146 | 0.0 | 810 | 2188 | 0.0 | 940 | 1997 | 0.0 |
| 425 | 37987 | 5.9 | 555 | 110017 | 14.8 | 685 | 21191 | 0.0 | 815 | 2386 | 0.0 | 945 | 2623 | 0.0 |
| 430 | 67605 | 14.3 | 560 | 114586 | 11.3 | 690 | 18544 | 0.0 | 820 | 2712 | 0.0 | 950 | 2969 | 0.0 |
| 435 | 102160 | 27.3 | 565 | 118987 | 8.4 | 695 | 16058 | 0.0 | 825 | 2473 | 0.0 | 955 | 2277 | 0.0 |
| 440 | 135103 | 45.1 | 570 | 122326 | 6.0 | 700 | 14133 | 0.0 | 830 | 1969 | 0.0 | 960 | 4267 | 0.0 |
| 445 | 140126 | 55.3 | 575 | 125968 | 4.2 | 705 | 12309 | 0.0 | 835 | 1917 | 0.0 | 965 | 2034 | 0.0 |
| 450 | 102339 | 47.2 | 580 | 127613 | 2.9 | 710 | 11142 | 0.0 | 840 | 2248 | 0.0 | 970 | 3586 | 0.0 |
| 455 | 58751 | 30.8 | 585 | 129466 | 1.9 | 715 | 10143 | 0.0 | 845 | 2266 | 0.0 | 975 | 2505 | 0.0 |
| 460 | 36892 | 21.7 | 590 | 128813 | 1.3 | 720 | 9072 | 0.0 | 850 | 2558 | 0.0 | 980 | 2666 | 0.0 |
| 465 | 24637 | 16.1 | 595 | 126387 | 0.8 | 725 | 8130 | 0.0 | 855 | 2767 | 0.0 | 985 | 2934 | 0.0 |
| 470 | 16738 | 12.0 | 600 | 123477 | 0.5 | 730 | 7149 | 0.0 | 860 | 2826 | 0.0 | 990 | 4120 | 0.0 |
| 475 | 13456 | 10.3 | 605 | 118718 | 0.3 | 735 | 6311 | 0.0 | 865 | 2385 | 0.0 | 995 | 3858 | 0.0 |
| 480 | 13081 | 10.5 | 610 | 112091 | 0.2 | 740 | 5711 | 0.0 | 870 | 3194 | 0.0 | 1000 | 3405 | 0.0 |
| 485 | 14734 | 12.1 | 615 | 105039 | 0.1 | 745 | 5111 | 0.0 | 875 | 3189 | 0.0 | | | |

Summary

$R_f = 71.7$
 $R_g = 96.9$
 CIE $R_a = 71.2$
 $R_g = -29.7$



Color Vector Graphics



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

| | | | |
|------------|------------|------------|------------|
| CES01 = 85 | CES26 = 55 | CES51 = 86 | CES76 = 45 |
| CES02 = 61 | CES27 = 80 | CES52 = 87 | CES77 = 68 |
| CES03 = 30 | CES28 = 79 | CES53 = 74 | CES78 = 49 |
| CES04 = 70 | CES29 = 51 | CES54 = 81 | CES79 = 77 |
| CES05 = 47 | CES30 = 60 | CES55 = 80 | CES80 = 75 |
| CES06 = 50 | CES31 = 56 | CES56 = 69 | CES81 = 75 |
| CES07 = 40 | CES32 = 52 | CES57 = 67 | CES82 = 90 |
| CES08 = 39 | CES33 = 62 | CES58 = 69 | CES83 = 85 |
| CES09 = 29 | CES34 = 65 | CES59 = 86 | CES84 = 87 |
| CES10 = 74 | CES35 = 81 | CES60 = 91 | CES85 = 83 |
| CES11 = 57 | CES36 = 92 | CES61 = 85 | CES86 = 72 |
| CES12 = 63 | CES37 = 74 | CES62 = 81 | CES87 = 77 |
| CES13 = 42 | CES38 = 69 | CES63 = 72 | CES88 = 77 |
| CES14 = 74 | CES39 = 92 | CES64 = 69 | CES89 = 72 |
| CES15 = 71 | CES40 = 86 | CES65 = 64 | CES90 = 75 |
| CES16 = 46 | CES41 = 84 | CES66 = 63 | CES91 = 91 |
| CES17 = 49 | CES42 = 75 | CES67 = 60 | CES92 = 66 |
| CES18 = 56 | CES43 = 70 | CES68 = 67 | CES93 = 80 |
| CES19 = 72 | CES44 = 98 | CES69 = 77 | CES94 = 56 |
| CES20 = 65 | CES45 = 80 | CES70 = 57 | CES95 = 72 |
| CES21 = 86 | CES46 = 77 | CES71 = 53 | CES96 = 78 |
| CES22 = 78 | CES47 = 74 | CES72 = 84 | CES97 = 83 |
| CES23 = 92 | CES48 = 66 | CES73 = 47 | CES98 = 73 |
| CES24 = 91 | CES49 = 76 | CES74 = 96 | CES99 = 63 |
| CES25 = 72 | CES50 = 85 | CES75 = 52 | |



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)