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

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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: McGRAW-EDISON

Report Number: P1201619

Luminaire Tested: GWC-SB1B-830-U-SLL

Issue Date: 10/30/2025

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Scaled Data Report

**Test Information**

| | |
|---|---|
| Test Method: | LM-79-2024 |
| Report Number: | P1201619 |
| | TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-8) |
| Test Lab: | INNOVATION CENTER |
| Issue Date: | 3/14/2026 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS |
| Product Line: | McGRAW-EDISON |
| Catalog Number: | GWC-SB1B-830-U-SLL |
| Description: | GALLEON WALL LUMINAIRE |
| | (1) 80 CRI, 3000K, 450mA LIGHTSQUARE WITH 26 LEDS AND SPILL LIGHT ELIMINATOR LEFT OPTICS |
| Light Source: | - |
| Ballast/Driver: | ELECTRONIC DRIVER |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 5068 lumens |
| Efficiency: | N/A |
| Efficacy: | 127.3 lumens/watt |
| Luminous Opening: | Rectangular (W 0.5' x L: 0.5' x H: 0') |
| IES Classification: | Type IV - Short |
| BUG Rating: | B1 - U0 - G2 |

| | |
|---|---|
| Input Watts (W): | 39.8 |
| Input Voltage (V): | 120.0 |
| Input Current (Ain): | 0.33 |
| Voltage Rise (V): | NR |
| Power Factor: | 0.996 |
| Total Harmonic Distortion (THDi): | 5.305 |
| Frequency (hertz): | 60 |
| Stabilization Time: | NR |
| Operation Time: | NR |
| Ambient Temperature (°C): | NR |
| Test Distance: | 28.75 FT |

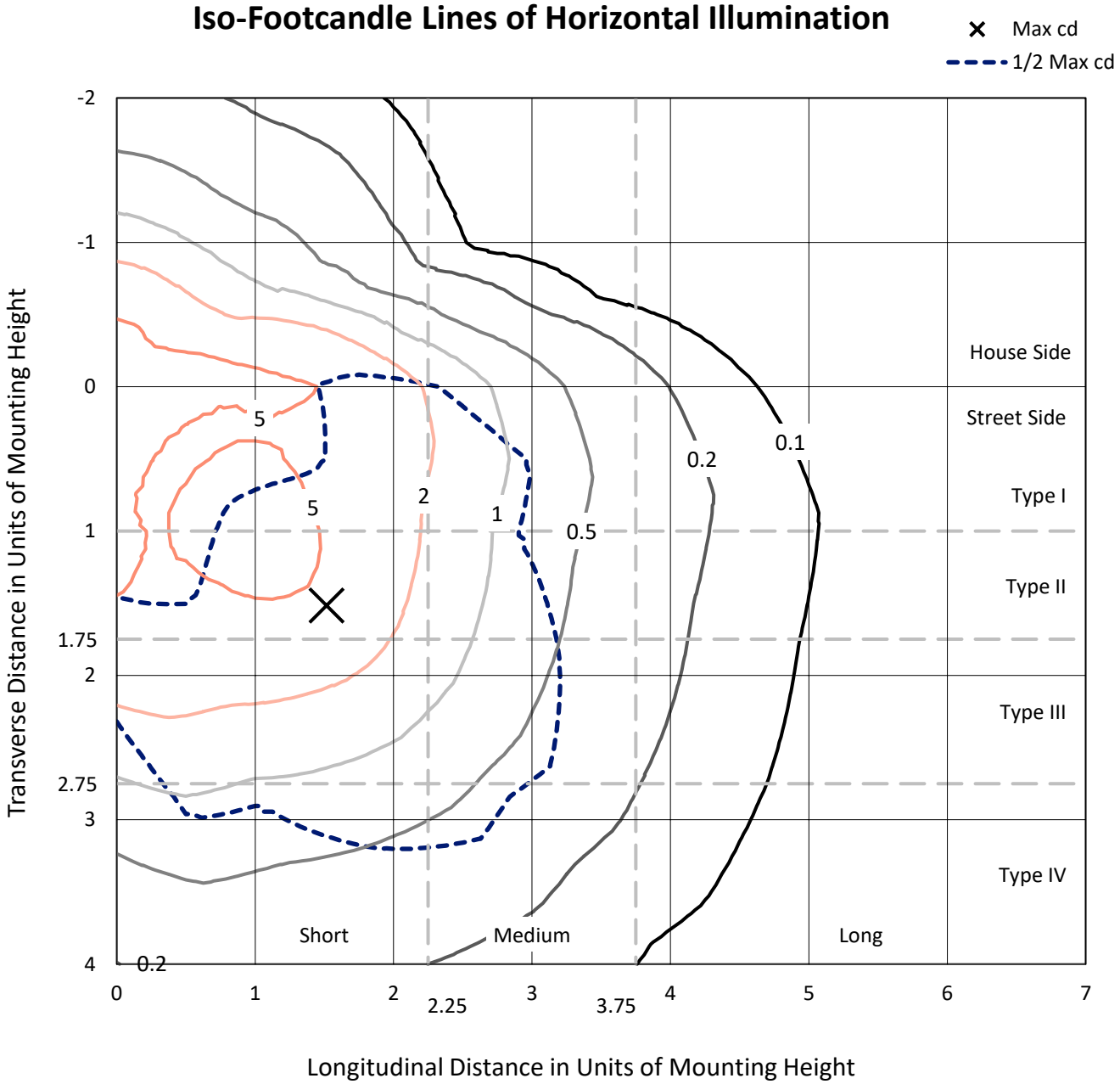


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## Iso-Footcandle Lines of Horizontal Illumination



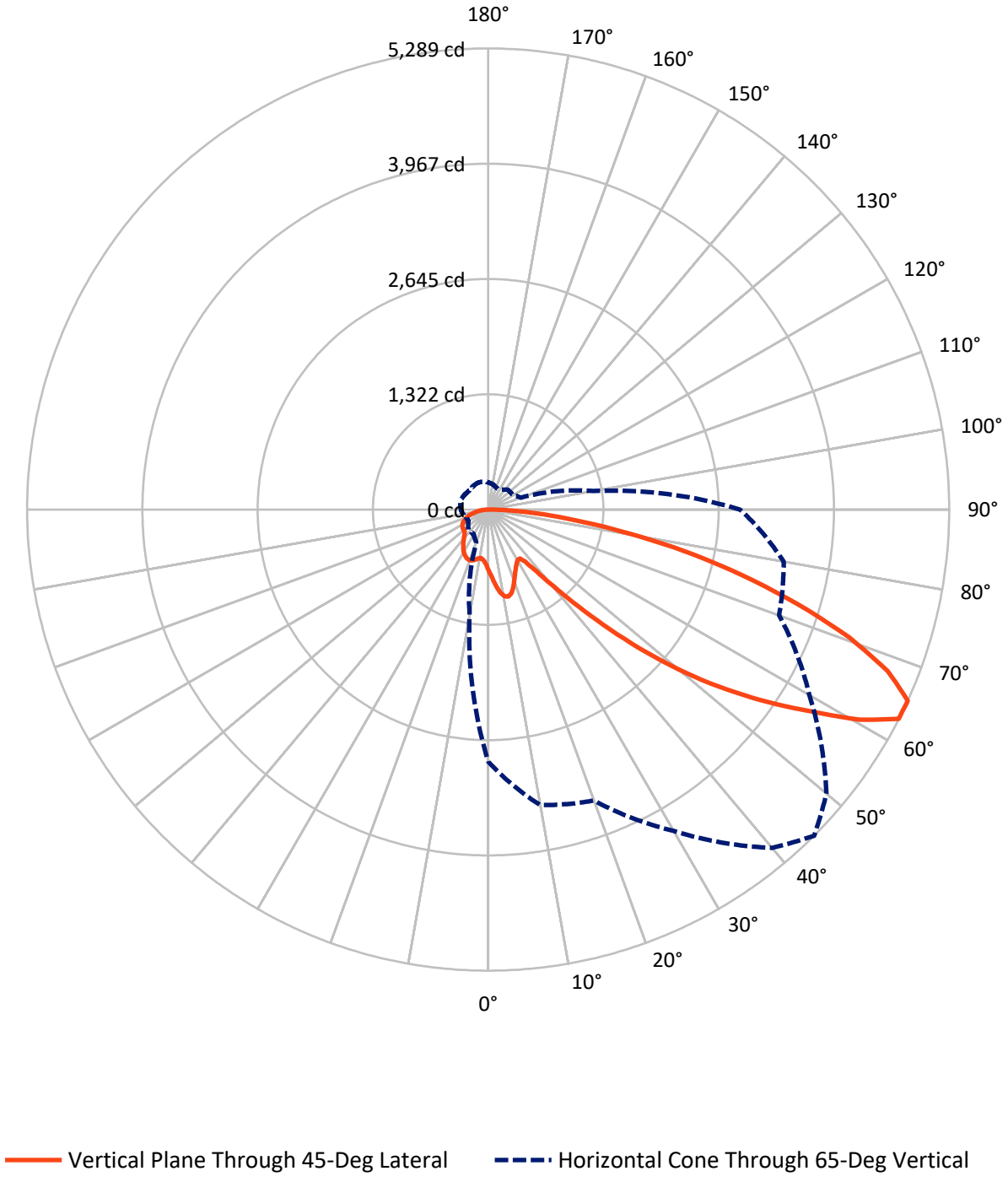

Based on 10 foot mounting height. Maximum calculated value = 8.8 fc
Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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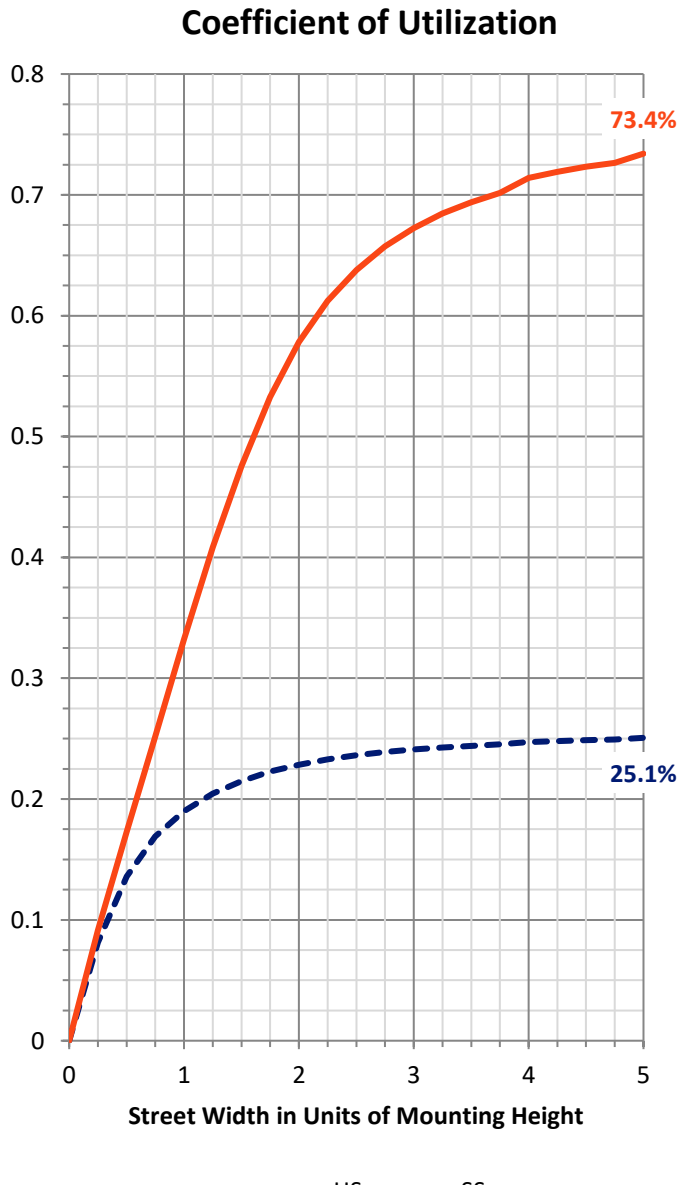
REPORT NUMBER: P1201619
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**FLUX DISTRIBUTION:**

| | | Downward | Upward | Total |
|---|---|---|---|---|
| **House Side** | Lumens | 1288.0 | 0.0 | 1288.0 |
| | % Fixture | 25.4 | 0.0 | 25.4 |
| **Street Side** | Lumens | 3780.0 | 0.0 | 3780.0 |
| | % Fixture | 74.6 | 0.0 | 74.6 |
| **Total** | Lumens | 5068.0 | 0.0 | 5068.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 69.1 | 1.4 |
| 10°-20° | 217.0 | 4.3 |
| 20°-30° | 335.2 | 6.6 |
| 30°-40° | 424.8 | 8.4 |
| 40°-50° | 640.7 | 12.6 |
| 50°-60° | 1035.2 | 20.4 |
| 60°-70° | 1290.5 | 25.5 |
| 70°-80° | 846.2 | 16.7 |
| 80°-90° | 209.2 | 4.1 |
| 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° | 5068.0 | 100.0 |
| 0°-180° | 5068.0 | 100.0 |



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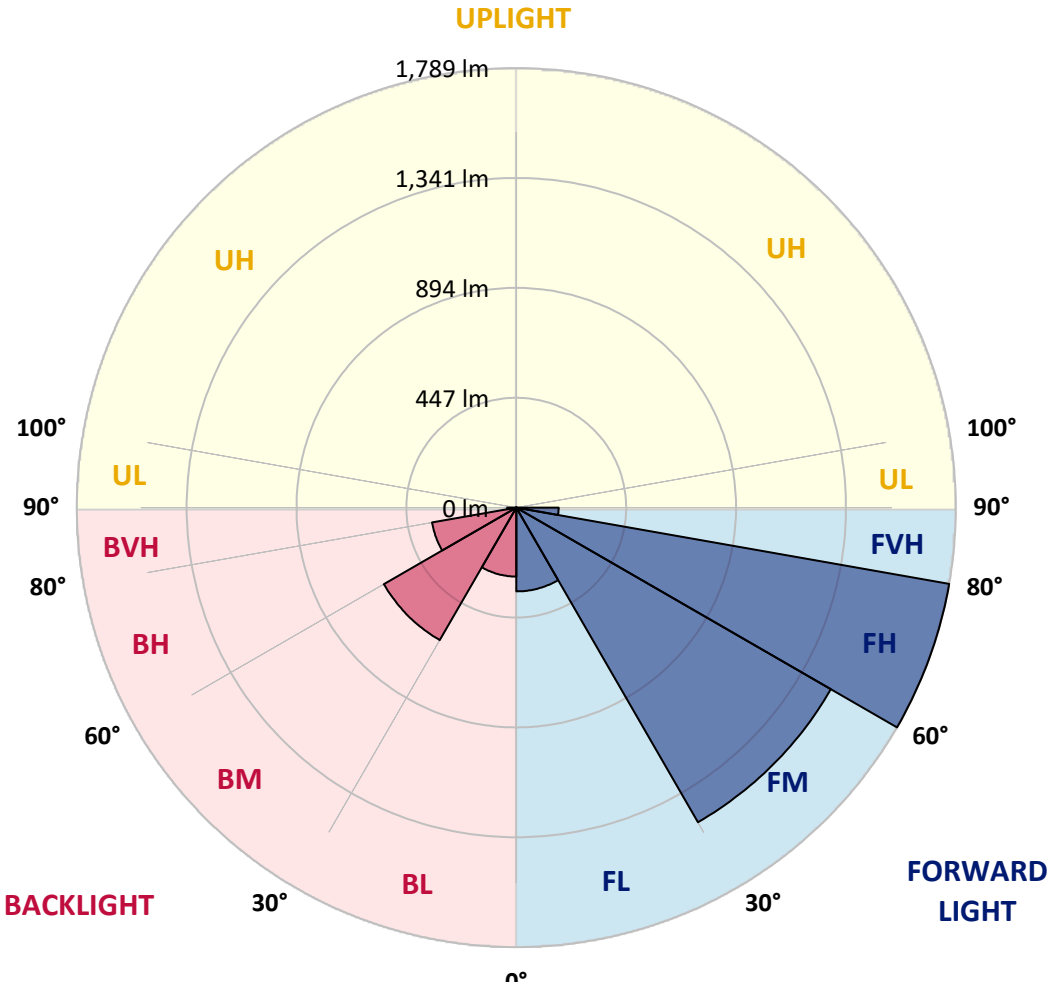
Scaled Data Report

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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°) | 340.9 | 6.7 | | | |
| FM | (30°-60°) | 1478.2 | 29.2 | | | |
| FH | (60°-80°) | 1788.5 | 35.3 | | | G1/1800 |
| FVH | (80°-90°) | 172.3 | 3.4 | | | G2/225 |
| BL | (0°-30°) | 280.5 | 5.5 | B1/500 | | |
| BM | (30°-60°) | 622.5 | 12.3 | B1/1000 | | |
| BH | (60°-80°) | 348.2 | 6.9 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 36.9 | 0.7 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

**BUG Rating: B1-U0-G2**
Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 696.9 | 696.9 | 696.9 | 696.9 | 696.9 | 696.9 | 696.9 | 696.9 | 696.9 | *696.9* | 696.9 |
| 2.5° | 749.4 | 752.3 | 755.1 | 759.2 | 763.2 | 765.6 | 768.0 | 769.2 | 770.4 | *769.9* | 770.4 |
| 5° | 805.9 | 815.8 | 825.7 | 835.6 | 845.4 | 850.8 | 856.1 | 859.4 | 862.6 | *865.1* | 862.6 |
| 7.5° | 862.6 | 878.7 | 894.8 | 909.4 | 923.9 | 932.6 | 941.4 | 946.1 | 950.8 | *953.1* | 950.8 |
| 10° | 906.0 | 925.1 | 944.2 | 961.2 | 978.3 | 988.6 | 998.9 | 1003.5 | 1008.0 | *1009.8* | 1008.0 |
| 12.5° | 932.6 | 953.3 | 974.0 | 989.4 | 1004.7 | 1012.2 | 1019.7 | 1022.2 | 1024.7 | *1025.0* | 1024.7 |
| 15° | 948.8 | 966.7 | 984.5 | 994.2 | 1003.8 | 1004.1 | 1004.4 | 1001.7 | 999.0 | *995.9* | 999.0 |
| 17.5° | 957.9 | 970.0 | 982.0 | 982.2 | 982.4 | 971.5 | 960.7 | 950.8 | 940.8 | *933.8* | 940.8 |
| 20° | 967.9 | 972.1 | 976.3 | 963.6 | 950.9 | 927.0 | 903.1 | 885.7 | 868.3 | *857.6* | 868.3 |
| 22.5° | 979.6 | 974.0 | 968.5 | 942.2 | 915.9 | 880.7 | 845.6 | 823.8 | 802.0 | *790.2* | 802.0 |
| 25° | 994.5 | 977.1 | 959.8 | 919.8 | 879.9 | 837.2 | 794.4 | 771.6 | 748.7 | *737.5* | 748.7 |
| 27.5° | 1014.9 | 983.8 | 952.7 | 899.8 | 846.9 | 799.5 | 752.2 | 729.7 | 707.2 | *696.6* | 707.2 |
| 30° | 1042.3 | 995.9 | 949.6 | 884.5 | 819.3 | 770.0 | 720.7 | 699.8 | 678.9 | *669.1* | 678.9 |
| 32.5° | 1074.6 | 1011.2 | 947.7 | 874.0 | 800.3 | 754.0 | 707.6 | 691.3 | 674.8 | *667.7* | 674.8 |
| 35° | 1113.9 | 1036.3 | 958.6 | 881.8 | 805.1 | 772.9 | 740.7 | 736.9 | 733.0 | *732.5* | 733.0 |
| 37.5° | 1180.1 | 1088.8 | 997.4 | 927.6 | 857.8 | 855.7 | 853.7 | 871.1 | 888.6 | *897.7* | 888.6 |
| 40° | 1280.1 | 1180.8 | 1081.4 | 1029.5 | 977.6 | 1014.3 | 1050.9 | 1093.4 | 1135.9 | *1157.1* | 1135.9 |
| 42.5° | 1412.8 | 1314.2 | 1215.6 | 1185.7 | 1155.8 | 1235.7 | 1315.6 | 1393.0 | 1470.3 | *1515.7* | 1470.3 |
| 45° | 1576.6 | 1488.0 | 1399.5 | 1386.3 | 1373.1 | 1501.1 | 1629.1 | 1756.2 | 1883.3 | *1960.4* | 1883.3 |
| 47.5° | 1781.4 | 1695.3 | 1609.1 | 1606.4 | 1603.8 | 1788.4 | 1973.1 | 2159.1 | 2345.1 | *2454.4* | 2345.1 |
| 50° | 2049.9 | 1943.5 | 1837.1 | 1837.6 | 1838.0 | 2076.0 | 2314.0 | 2559.6 | 2805.2 | *2953.6* | 2805.2 |
| 52.5° | 2358.1 | 2229.3 | 2100.4 | 2087.4 | 2074.4 | 2358.7 | 2643.0 | 2946.8 | 3250.6 | *3428.6* | 3250.6 |
| 55° | 2686.2 | 2558.9 | 2431.6 | 2380.9 | 2330.1 | 2646.5 | 2962.9 | 3325.1 | 3687.3 | *3899.0* | 3687.3 |
| 57.5° | 2984.7 | 2915.3 | 2846.0 | 2744.1 | 2642.3 | 2961.8 | 3281.3 | 3691.6 | 4101.8 | *4364.3* | 4101.8 |
| 60° | 3165.0 | 3272.7 | 3380.4 | 3253.9 | 3127.4 | 3429.8 | 3732.1 | 4171.4 | 4610.6 | *4894.3* | 4610.6 |
| 62.5° | 3073.4 | 3367.6 | 3661.8 | 3647.6 | 3633.3 | 3910.3 | 4187.2 | 4605.2 | 5023.1 | *5285.3* | 5023.1 |
| 65° | *2890.1* | *3166.2* | *3442.3* | *3497.0* | *3551.6* | *3903.6* | *4255.6* | *4660.8* | *5066.0* | *5289.3* | *5066.0* |
| 67.5° | 2644.5 | 2907.1 | 3169.7 | 3195.3 | 3220.9 | 3587.7 | 3954.4 | 4361.4 | 4768.3 | *4943.2* | 4768.3 |
| 70° | 2349.4 | 2635.0 | 2920.7 | 2932.1 | 2943.6 | 3271.6 | 3599.5 | 3949.8 | 4300.0 | *4397.2* | 4300.0 |
| 72.5° | 1997.8 | 2325.5 | 2653.3 | 2661.6 | 2669.8 | 2926.4 | 3183.0 | 3445.3 | 3707.5 | *3717.4* | 3707.5 |
| 75° | 1552.9 | 1892.1 | 2231.4 | 2261.9 | 2292.3 | 2491.9 | 2691.6 | 2876.2 | 3060.9 | *3011.4* | 3060.9 |
| 77.5° | 1109.5 | 1426.2 | 1742.9 | 1786.5 | 1830.1 | 1981.8 | 2133.6 | 2264.6 | 2395.5 | *2310.5* | 2395.5 |
| 80° | 726.2 | 992.6 | 1259.0 | 1313.2 | 1367.4 | 1482.0 | 1596.5 | 1665.3 | 1734.1 | *1597.3* | 1734.1 |
| 82.5° | 422.1 | 604.3 | 786.4 | 846.9 | 907.5 | 986.4 | 1065.3 | 1094.0 | 1122.6 | *1015.1* | 1122.6 |
| 85° | 185.7 | 282.4 | 379.1 | 430.5 | 482.0 | 546.8 | 611.6 | 627.9 | 644.2 | *558.1* | 644.2 |
| 87.5° | 57.5 | 90.0 | 122.5 | 151.2 | 179.9 | 212.3 | 244.7 | 246.1 | 247.5 | *207.8* | 247.5 |
| 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):**

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 696.9 | 696.9 | 696.9 | 696.9 | 696.9 | 696.9 | 696.9 | 696.9 | 696.9 | 696.9 | 696.9 |
| 2.5° | 769.2 | 768.0 | 765.6 | 763.2 | 759.2 | 755.1 | 752.3 | 749.4 | 743.7 | 737.9 | 731.8 |
| 5° | 859.4 | 856.1 | 850.8 | 845.4 | 835.6 | 825.7 | 815.8 | 805.9 | 793.2 | 780.5 | 767.8 |
| 7.5° | 946.1 | 941.4 | 932.6 | 923.9 | 909.4 | 894.8 | 878.7 | 862.6 | 841.6 | 820.7 | 801.3 |
| 10° | 1003.5 | 998.9 | 988.6 | 978.3 | 961.2 | 944.2 | 925.1 | 906.0 | 879.5 | 853.0 | 827.4 |
| 12.5° | 1022.2 | 1019.7 | 1012.2 | 1004.7 | 989.4 | 974.0 | 953.3 | 932.6 | 903.5 | 874.4 | 845.4 |
| 15° | 1001.7 | 1004.4 | 1004.1 | 1003.8 | 994.2 | 984.5 | 966.7 | 948.8 | 918.5 | 888.1 | 856.6 |
| 17.5° | 950.8 | 960.7 | 971.5 | 982.4 | 982.2 | 982.0 | 970.0 | 957.9 | 927.1 | 896.3 | 862.0 |
| 20° | 885.7 | 903.1 | 927.0 | 950.9 | 963.6 | 976.3 | 972.1 | 967.9 | 935.9 | 903.9 | 866.2 |
| 22.5° | 823.8 | 845.6 | 880.7 | 915.9 | 942.2 | 968.5 | 974.0 | 979.6 | 946.9 | 914.2 | 871.9 |
| 25° | 771.6 | 794.4 | 837.2 | 879.9 | 919.8 | 959.8 | 977.1 | 994.5 | 962.5 | 930.5 | 882.2 |
| 27.5° | 729.7 | 752.2 | 799.5 | 846.9 | 899.8 | 952.7 | 983.8 | 1014.9 | 984.3 | 953.7 | 898.2 |
| 30° | 699.8 | 720.7 | 770.0 | 819.3 | 884.5 | 949.6 | 995.9 | 1042.3 | 1012.7 | 983.2 | 919.0 |
| 32.5° | 691.3 | 707.6 | 754.0 | 800.3 | 874.0 | 947.7 | 1011.2 | 1074.6 | 1045.4 | 1016.2 | 940.7 |
| 35° | 736.9 | 740.7 | 772.9 | 805.1 | 881.8 | 958.6 | 1036.3 | 1113.9 | 1086.0 | 1058.0 | 965.4 |
| 37.5° | 871.1 | 853.7 | 855.7 | 857.8 | 927.6 | 997.4 | 1088.8 | 1180.1 | 1144.4 | 1108.8 | 993.1 |
| 40° | 1093.4 | 1050.9 | 1014.3 | 977.6 | 1029.5 | 1081.4 | 1180.8 | 1280.1 | 1228.1 | 1176.2 | 1028.2 |
| 42.5° | 1393.0 | 1315.6 | 1235.7 | 1155.8 | 1185.7 | 1215.6 | 1314.2 | 1412.8 | 1337.7 | 1262.7 | 1074.2 |
| 45° | 1756.2 | 1629.1 | 1501.1 | 1373.1 | 1386.3 | 1399.5 | 1488.0 | 1576.6 | 1475.4 | 1374.1 | 1134.7 |
| 47.5° | 2159.1 | 1973.1 | 1788.4 | 1603.8 | 1606.4 | 1609.1 | 1695.3 | 1781.4 | 1639.0 | 1496.5 | 1199.1 |
| 50° | 2559.6 | 2314.0 | 2076.0 | 1838.0 | 1837.6 | 1837.1 | 1943.5 | 2049.9 | 1835.1 | 1620.3 | 1258.9 |
| 52.5° | 2946.8 | 2643.0 | 2358.7 | 2074.4 | 2087.4 | 2100.4 | 2229.3 | 2358.1 | 2041.2 | 1724.3 | 1297.7 |
| 55° | 3325.1 | 2962.9 | 2646.5 | 2330.1 | 2380.9 | 2431.6 | 2558.9 | 2686.2 | 2223.9 | 1761.6 | 1289.2 |
| 57.5° | 3691.6 | 3281.3 | 2961.8 | 2642.3 | 2744.1 | 2846.0 | 2915.3 | 2984.7 | 2353.4 | 1722.1 | 1229.0 |
| 60° | 4171.4 | 3732.1 | 3429.8 | 3127.4 | 3253.9 | 3380.4 | 3272.7 | 3165.0 | 2385.8 | 1606.4 | 1116.9 |
| 62.5° | 4605.2 | 4187.2 | 3910.3 | 3633.3 | 3647.6 | 3661.8 | 3367.6 | 3073.4 | 2249.5 | 1425.6 | 965.3 |
| 65° | *4660.8* | *4255.6* | *3903.6* | *3551.6* | *3497.0* | *3442.3* | *3166.2* | *2890.1* | *2056.7* | *1223.3* | *810.7* |
| 67.5° | 4361.4 | 3954.4 | 3587.7 | 3220.9 | 3195.3 | 3169.7 | 2907.1 | 2644.5 | 1827.3 | 1010.1 | 659.2 |
| 70° | 3949.8 | 3599.5 | 3271.6 | 2943.6 | 2932.1 | 2920.7 | 2635.0 | 2349.4 | 1577.0 | 804.5 | 519.1 |
| 72.5° | 3445.3 | 3183.0 | 2926.4 | 2669.8 | 2661.6 | 2653.3 | 2325.5 | 1997.8 | 1305.6 | 613.5 | 396.8 |
| 75° | 2876.2 | 2691.6 | 2491.9 | 2292.3 | 2261.9 | 2231.4 | 1892.1 | 1552.9 | 994.5 | 436.1 | 288.0 |
| 77.5° | 2264.6 | 2133.6 | 1981.8 | 1830.1 | 1786.5 | 1742.9 | 1426.2 | 1109.5 | 696.1 | 282.6 | 195.2 |
| 80° | 1665.3 | 1596.5 | 1482.0 | 1367.4 | 1313.2 | 1259.0 | 992.6 | 726.2 | 448.5 | 170.7 | 125.7 |
| 82.5° | 1094.0 | 1065.3 | 986.4 | 907.5 | 846.9 | 786.4 | 604.3 | 422.1 | 259.6 | 97.0 | 77.3 |
| 85° | 627.9 | 611.6 | 546.8 | 482.0 | 430.5 | 379.1 | 282.4 | 185.7 | 116.8 | 47.8 | 41.3 |
| 87.5° | 246.1 | 244.7 | 212.3 | 179.9 | 151.2 | 122.5 | 90.0 | 57.5 | 38.2 | 19.0 | 17.1 |
| 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: GWC-SB1B-830-U-SLL

**CANDELA DISTRIBUTION (continued):**

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 696.9 | 696.9 | 696.9 | 696.9 | 696.9 | 696.9 | 696.9 | 696.9 | 696.9 | 696.9 | 696.9 |
| 2.5° | 725.7 | 719.6 | 713.4 | 707.5 | 701.7 | 696.0 | 689.6 | 684.5 | 679.4 | 674.8 | 670.2 |
| 5° | 755.1 | 742.4 | 729.7 | 717.8 | 705.9 | 694.6 | 683.5 | 673.8 | 664.1 | 656.0 | 647.9 |
| 7.5° | 781.9 | 763.1 | 744.2 | 727.6 | 711.0 | 695.7 | 681.3 | 668.4 | 655.6 | 644.9 | 634.2 |
| 10° | 801.9 | 779.0 | 756.0 | 736.4 | 716.7 | 697.8 | 682.4 | 668.8 | 655.2 | 644.5 | 633.8 |
| 12.5° | 816.4 | 789.4 | 762.4 | 740.2 | 718.0 | 698.1 | 683.7 | 672.6 | 661.5 | 654.4 | 647.4 |
| 15° | 825.2 | 794.1 | 763.0 | 737.3 | 711.5 | 689.5 | 678.0 | 672.7 | 667.4 | 668.4 | 669.3 |
| 17.5° | 827.7 | 791.6 | 755.5 | 724.6 | 693.6 | 667.7 | 660.7 | 662.6 | 664.5 | 676.2 | 687.9 |
| 20° | 828.5 | 784.8 | 741.0 | 702.7 | 664.3 | 634.2 | 632.3 | 641.4 | 650.5 | 670.7 | 691.0 |
| 22.5° | 829.6 | 776.4 | 723.2 | 677.0 | 630.8 | 596.5 | 600.1 | 613.6 | 627.0 | 650.1 | 673.3 |
| 25° | 833.8 | 768.1 | 702.4 | 648.3 | 594.2 | 559.0 | 568.9 | 584.4 | 600.0 | 620.7 | 641.5 |
| 27.5° | 842.6 | 762.5 | 682.5 | 622.0 | 561.6 | 529.6 | 541.7 | 556.6 | 571.6 | 588.7 | 605.8 |
| 30° | 854.7 | 760.0 | 665.1 | 600.1 | 535.1 | 508.2 | 517.7 | 529.5 | 541.5 | 555.6 | 569.8 |
| 32.5° | 865.2 | 756.7 | 648.3 | 581.2 | 514.1 | 492.5 | 496.7 | 503.7 | 510.7 | 522.0 | 533.4 |
| 35° | 872.8 | 750.7 | 628.6 | 562.6 | 496.6 | 478.5 | 476.8 | 478.7 | 480.7 | 489.3 | 497.9 |
| 37.5° | 877.3 | 740.3 | 603.4 | 540.7 | 478.1 | 462.4 | 456.0 | 453.9 | 451.7 | 457.9 | 464.1 |
| 40° | 880.2 | 726.1 | 572.0 | 514.6 | 457.3 | 443.0 | 433.2 | 428.4 | 423.5 | 428.0 | 432.5 |
| 42.5° | 885.6 | 711.4 | 537.2 | 485.8 | 434.5 | 421.3 | 409.0 | 402.6 | 396.2 | 399.8 | 403.5 |
| 45° | 895.2 | 697.7 | 500.3 | 455.3 | 410.2 | 396.8 | 384.9 | 378.7 | 372.5 | 375.5 | 378.6 |
| 47.5° | 901.7 | 686.4 | 471.1 | 431.1 | 391.0 | 373.7 | 363.5 | 358.2 | 353.0 | 355.9 | 358.7 |
| 50° | 897.5 | 674.1 | 450.8 | 415.0 | 379.1 | 356.5 | 344.6 | 339.9 | 335.3 | 339.8 | 344.3 |
| 52.5° | 871.1 | 653.4 | 435.6 | 404.4 | 373.2 | 347.1 | 330.5 | 325.9 | 321.3 | 328.1 | 334.8 |
| 55° | 816.7 | 618.9 | 421.1 | 396.7 | 372.3 | 348.0 | 323.0 | 315.7 | 308.5 | 318.1 | 327.6 |
| 57.5° | 735.8 | 570.4 | 404.9 | 387.6 | 370.4 | 349.0 | 318.5 | 307.9 | 297.3 | 307.6 | 318.0 |
| 60° | 627.3 | 507.3 | 387.3 | 373.7 | 360.2 | 346.0 | 314.3 | 300.6 | 286.8 | 295.9 | 304.9 |
| 62.5° | 505.1 | 431.8 | 358.6 | 349.5 | 340.6 | 338.8 | 309.4 | 292.2 | 275.0 | 280.8 | 286.5 |
| 65° | *398.1* | *363.9* | *329.7* | *325.5* | *321.2* | *321.4* | *299.0* | *280.7* | *262.5* | *264.7* | *266.9* |
| 67.5° | 308.4 | 298.7 | 288.9 | 291.3 | 293.7 | 293.1 | 280.5 | 265.3 | 250.1 | 249.4 | 248.7 |
| 70° | 233.6 | 236.4 | 239.1 | 250.1 | 261.1 | 261.1 | 257.0 | 246.2 | 235.4 | 233.0 | 230.6 |
| 72.5° | 180.2 | 188.6 | 197.0 | 212.6 | 228.2 | 230.8 | 230.8 | 223.4 | 216.0 | 212.5 | 209.0 |
| 75° | 139.9 | 147.5 | 155.1 | 172.6 | 190.1 | 202.2 | 201.2 | 195.5 | 189.7 | 186.4 | 183.0 |
| 77.5° | 107.7 | 112.9 | 118.1 | 135.0 | 152.0 | 172.0 | 171.4 | 166.8 | 162.3 | 158.8 | 155.4 |
| 80° | 80.8 | 82.9 | 85.0 | 99.4 | 113.8 | 137.6 | 137.5 | 133.7 | 129.8 | 127.0 | 124.1 |
| 82.5° | 57.7 | 58.1 | 58.5 | 69.1 | 79.7 | 100.0 | 101.1 | 99.3 | 97.4 | 95.4 | 93.3 |
| 85° | 34.9 | 34.7 | 34.5 | 42.3 | 50.0 | 65.1 | 66.6 | 64.6 | 62.6 | 60.3 | 58.0 |
| 87.5° | 15.3 | 15.1 | 14.9 | 18.1 | 21.3 | 27.5 | 29.4 | 28.6 | 27.8 | 27.4 | 27.0 |
| 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
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Scaled Data Report

REPORT NUMBER: P1201619
CATALOG NUMBER: GWC-SB1B-830-U-SLL

**CANDELA DISTRIBUTION (continued):**

| | 165° | 170° | 175° | 180° | 185° | 190° | 195° | 200° | 205° | 210° | 215° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 696.9 | 696.9 | 696.9 | 696.9 | 696.9 | 696.9 | 696.9 | 696.9 | 696.9 | 696.9 | 696.9 |
| 2.5° | 666.1 | 662.1 | 658.0 | 654.0 | 650.8 | 647.7 | 645.1 | 642.6 | 640.6 | 638.6 | 636.8 |
| 5° | 640.7 | 633.6 | 627.1 | 620.5 | 615.5 | 610.5 | 607.0 | 603.5 | 601.0 | 598.5 | 596.6 |
| 7.5° | 625.2 | 616.1 | 608.2 | 600.2 | 594.3 | 588.3 | 584.1 | 580.0 | 577.1 | 574.3 | 572.6 |
| 10° | 624.1 | 614.4 | 605.4 | 596.5 | 589.4 | 582.2 | 577.6 | 572.9 | 570.2 | 567.5 | 566.0 |
| 12.5° | 639.7 | 632.1 | 622.8 | 613.6 | 604.5 | 595.4 | 589.4 | 583.4 | 580.4 | 577.4 | 576.1 |
| 15° | 667.4 | 665.4 | 657.3 | 649.3 | 636.4 | 623.4 | 614.3 | 605.1 | 600.9 | 596.7 | 595.1 |
| 17.5° | 694.1 | 700.2 | 693.7 | 687.3 | 670.1 | 653.0 | 639.5 | 626.0 | 619.8 | 613.6 | 611.6 |
| 20° | 704.0 | 717.0 | 714.0 | 710.9 | 691.3 | 671.8 | 655.2 | 638.7 | 630.8 | 622.8 | 620.3 |
| 22.5° | 690.2 | 707.1 | 708.9 | 710.7 | 691.9 | 673.2 | 656.2 | 639.2 | 630.8 | 622.4 | 619.6 |
| 25° | 658.1 | 674.8 | 681.0 | 687.1 | 671.8 | 656.5 | 641.3 | 626.2 | 619.0 | 611.7 | 609.1 |
| 27.5° | 619.1 | 632.4 | 639.3 | 646.2 | 635.3 | 624.4 | 612.6 | 600.9 | 596.0 | 591.1 | 589.9 |
| 30° | 580.9 | 591.9 | 597.5 | 603.2 | 594.8 | 586.5 | 578.1 | 569.7 | 567.2 | 564.7 | 564.7 |
| 32.5° | 544.0 | 554.6 | 560.8 | 567.1 | 559.4 | 551.7 | 545.0 | 538.3 | 536.7 | 535.1 | 535.3 |
| 35° | 508.4 | 518.9 | 526.4 | 533.9 | 528.4 | 523.0 | 516.8 | 510.6 | 508.1 | 505.7 | 505.2 |
| 37.5° | 474.6 | 485.0 | 494.3 | 503.5 | 501.0 | 498.5 | 492.8 | 487.1 | 482.6 | 478.1 | 475.7 |
| 40° | 442.6 | 452.7 | 463.3 | 474.0 | 474.6 | 475.2 | 470.4 | 465.5 | 458.9 | 452.4 | 448.0 |
| 42.5° | 413.1 | 422.7 | 434.2 | 445.7 | 448.7 | 451.8 | 447.7 | 443.6 | 435.5 | 427.3 | 420.9 |
| 45° | 387.7 | 396.8 | 408.7 | 420.6 | 425.1 | 429.5 | 425.8 | 422.1 | 412.8 | 403.5 | 395.9 |
| 47.5° | 367.6 | 376.5 | 388.3 | 400.1 | 405.1 | 410.2 | 407.7 | 405.1 | 396.8 | 388.5 | 381.5 |
| 50° | 352.7 | 361.1 | 371.6 | 382.1 | 388.7 | 395.2 | 395.0 | 394.9 | 388.3 | 381.7 | 375.2 |
| 52.5° | 342.5 | 350.2 | 360.0 | 369.8 | 377.6 | 385.3 | 386.7 | 388.1 | 382.7 | 377.3 | 371.5 |
| 55° | 335.9 | 344.2 | 352.8 | 361.4 | 369.6 | 377.8 | 379.7 | 381.7 | 377.0 | 372.2 | 367.2 |
| 57.5° | 327.7 | 337.4 | 345.9 | 354.5 | 362.7 | 371.0 | 372.9 | 374.9 | 370.1 | 365.3 | 360.3 |
| 60° | 316.1 | 327.3 | 335.9 | 344.6 | 352.9 | 361.1 | 363.3 | 365.4 | 360.8 | 356.1 | 351.0 |
| 62.5° | 299.6 | 312.6 | 321.8 | 331.1 | 338.7 | 346.3 | 348.3 | 350.4 | 346.2 | 342.0 | 336.5 |
| 65° | *280.8* | *294.8* | *303.7* | *312.5* | *319.2* | *325.8* | *328.0* | *330.0* | *326.0* | *322.0* | *316.7* |
| 67.5° | 261.6 | 274.5 | 282.9 | 291.2 | 297.0 | 302.8 | 304.8 | 306.9 | 303.1 | 299.5 | 294.5 |
| 70° | 241.9 | 253.2 | 260.5 | 267.7 | 272.9 | 278.1 | 280.1 | 282.1 | 279.1 | 276.0 | 271.3 |
| 72.5° | 217.9 | 226.8 | 233.3 | 239.9 | 245.0 | 250.1 | 252.4 | 254.8 | 252.3 | 249.8 | 245.3 |
| 75° | 189.6 | 196.2 | 202.1 | 208.1 | 212.7 | 217.4 | 219.8 | 222.3 | 221.0 | 219.8 | 216.0 |
| 77.5° | 160.8 | 166.2 | 171.3 | 176.4 | 181.3 | 186.1 | 188.4 | 190.7 | 189.0 | 187.2 | 183.4 |
| 80° | 128.6 | 133.0 | 137.3 | 141.6 | 145.3 | 149.0 | 152.1 | 155.1 | 154.4 | 153.6 | 148.5 |
| 82.5° | 93.0 | 92.6 | 91.1 | 89.6 | 97.5 | 105.4 | 110.6 | 115.8 | 115.5 | 115.1 | 110.8 |
| 85° | 56.1 | 54.2 | 50.0 | 45.9 | 53.3 | 60.7 | 67.1 | 73.5 | 73.0 | 72.5 | 69.1 |
| 87.5° | 26.9 | 26.8 | 23.6 | 20.5 | 23.6 | 26.7 | 29.3 | 31.9 | 31.2 | 30.5 | 28.8 |
| 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
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Scaled Data Report

REPORT NUMBER: P1201619
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**CANDELA DISTRIBUTION (continued):**

| | 220° | 225° | 230° | 235° | 240° | 245° | 250° | 255° | 260° | 265° | 270° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 696.9 | 696.9 | 696.9 | 696.9 | 696.9 | 696.9 | 696.9 | 696.9 | 696.9 | 696.9 | 696.9 |
| 2.5° | 635.0 | 632.7 | 635.0 | 636.8 | 638.6 | 640.6 | 642.6 | 645.1 | 647.7 | 650.8 | 654.0 |
| 5° | 594.7 | 592.9 | 594.7 | 596.6 | 598.5 | 601.0 | 603.5 | 607.0 | 610.5 | 615.5 | 620.5 |
| 7.5° | 570.9 | 569.6 | 570.9 | 572.6 | 574.3 | 577.1 | 580.0 | 584.1 | 588.3 | 594.3 | 600.2 |
| 10° | 564.6 | 564.0 | 564.6 | 566.0 | 567.5 | 570.2 | 572.9 | 577.6 | 582.2 | 589.4 | 596.5 |
| 12.5° | 574.9 | 574.7 | 574.9 | 576.1 | 577.4 | 580.4 | 583.4 | 589.4 | 595.4 | 604.5 | 613.6 |
| 15° | 593.5 | 593.4 | 593.5 | 595.1 | 596.7 | 600.9 | 605.1 | 614.3 | 623.4 | 636.4 | 649.3 |
| 17.5° | 609.5 | 609.2 | 609.5 | 611.6 | 613.6 | 619.8 | 626.0 | 639.5 | 653.0 | 670.1 | 687.3 |
| 20° | 617.7 | 616.9 | 617.7 | 620.3 | 622.8 | 630.8 | 638.7 | 655.2 | 671.8 | 691.3 | 710.9 |
| 22.5° | 616.8 | 615.6 | 616.8 | 619.6 | 622.4 | 630.8 | 639.2 | 656.2 | 673.2 | 691.9 | 710.7 |
| 25° | 606.5 | 604.9 | 606.5 | 609.1 | 611.7 | 619.0 | 626.2 | 641.3 | 656.5 | 671.8 | 687.1 |
| 27.5° | 588.7 | 588.3 | 588.7 | 589.9 | 591.1 | 596.0 | 600.9 | 612.6 | 624.4 | 635.3 | 646.2 |
| 30° | 564.7 | 565.1 | 564.7 | 564.7 | 564.7 | 567.2 | 569.7 | 578.1 | 586.5 | 594.8 | 603.2 |
| 32.5° | 535.5 | 535.9 | 535.5 | 535.3 | 535.1 | 536.7 | 538.3 | 545.0 | 551.7 | 559.4 | 567.1 |
| 35° | 504.6 | 504.4 | 504.6 | 505.2 | 505.7 | 508.1 | 510.6 | 516.8 | 523.0 | 528.4 | 533.9 |
| 37.5° | 473.3 | 472.0 | 473.3 | 475.7 | 478.1 | 482.6 | 487.1 | 492.8 | 498.5 | 501.0 | 503.5 |
| 40° | 443.6 | 441.0 | 443.6 | 448.0 | 452.4 | 458.9 | 465.5 | 470.4 | 475.2 | 474.6 | 474.0 |
| 42.5° | 414.4 | 410.2 | 414.4 | 420.9 | 427.3 | 435.5 | 443.6 | 447.7 | 451.8 | 448.7 | 445.7 |
| 45° | 388.3 | 383.5 | 388.3 | 395.9 | 403.5 | 412.8 | 422.1 | 425.8 | 429.5 | 425.1 | 420.6 |
| 47.5° | 374.5 | 369.8 | 374.5 | 381.5 | 388.5 | 396.8 | 405.1 | 407.7 | 410.2 | 405.1 | 400.1 |
| 50° | 368.7 | 364.2 | 368.7 | 375.2 | 381.7 | 388.3 | 394.9 | 395.0 | 395.2 | 388.7 | 382.1 |
| 52.5° | 365.7 | 361.6 | 365.7 | 371.5 | 377.3 | 382.7 | 388.1 | 386.7 | 385.3 | 377.6 | 369.8 |
| 55° | 362.1 | 358.3 | 362.1 | 367.2 | 372.2 | 377.0 | 381.7 | 379.7 | 377.8 | 369.6 | 361.4 |
| 57.5° | 355.3 | 351.4 | 355.3 | 360.3 | 365.3 | 370.1 | 374.9 | 372.9 | 371.0 | 362.7 | 354.5 |
| 60° | 345.8 | 341.8 | 345.8 | 351.0 | 356.1 | 360.8 | 365.4 | 363.3 | 361.1 | 352.9 | 344.6 |
| 62.5° | 331.1 | 326.3 | 331.1 | 336.5 | 342.0 | 346.2 | 350.4 | 348.3 | 346.3 | 338.7 | 331.1 |
| 65° | *311.4* | *307.3* | *311.4* | *316.7* | *322.0* | *326.0* | *330.0* | *328.0* | *325.8* | *319.2* | *312.5* |
| 67.5° | 289.6 | 285.9 | 289.6 | 294.5 | 299.5 | 303.1 | 306.9 | 304.8 | 302.8 | 297.0 | 291.2 |
| 70° | 266.6 | 262.3 | 266.6 | 271.3 | 276.0 | 279.1 | 282.1 | 280.1 | 278.1 | 272.9 | 267.7 |
| 72.5° | 240.8 | 236.7 | 240.8 | 245.3 | 249.8 | 252.3 | 254.8 | 252.4 | 250.1 | 245.0 | 239.9 |
| 75° | 212.3 | 208.3 | 212.3 | 216.0 | 219.8 | 221.0 | 222.3 | 219.8 | 217.4 | 212.7 | 208.1 |
| 77.5° | 179.7 | 176.5 | 179.7 | 183.4 | 187.2 | 189.0 | 190.7 | 188.4 | 186.1 | 181.3 | 176.4 |
| 80° | 143.4 | 137.5 | 143.4 | 148.5 | 153.6 | 154.4 | 155.1 | 152.1 | 149.0 | 145.3 | 141.6 |
| 82.5° | 106.5 | 102.7 | 106.5 | 110.8 | 115.1 | 115.5 | 115.8 | 110.6 | 105.4 | 97.5 | 89.6 |
| 85° | 65.7 | 62.3 | 65.7 | 69.1 | 72.5 | 73.0 | 73.5 | 67.1 | 60.7 | 53.3 | 45.9 |
| 87.5° | 27.1 | 25.4 | 27.1 | 28.8 | 30.5 | 31.2 | 31.9 | 29.3 | 26.7 | 23.6 | 20.5 |
| 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
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Scaled Data Report

REPORT NUMBER: P1201619
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**CANDELA DISTRIBUTION (continued):**

| | 275° | 280° | 285° | 290° | 295° | 300° | 305° | 310° | 315° | 320° | 325° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 696.9 | 696.9 | 696.9 | 696.9 | 696.9 | 696.9 | 696.9 | 696.9 | 696.9 | 696.9 | 696.9 |
| 2.5° | 658.0 | 662.1 | 666.1 | 670.2 | 674.8 | 679.4 | 684.5 | 689.6 | 696.0 | 701.7 | 707.5 |
| 5° | 627.1 | 633.6 | 640.7 | 647.9 | 656.0 | 664.1 | 673.8 | 683.5 | 694.6 | 705.9 | 717.8 |
| 7.5° | 608.2 | 616.1 | 625.2 | 634.2 | 644.9 | 655.6 | 668.4 | 681.3 | 695.7 | 711.0 | 727.6 |
| 10° | 605.4 | 614.4 | 624.1 | 633.8 | 644.5 | 655.2 | 668.8 | 682.4 | 697.8 | 716.7 | 736.4 |
| 12.5° | 622.8 | 632.1 | 639.7 | 647.4 | 654.4 | 661.5 | 672.6 | 683.7 | 698.1 | 718.0 | 740.2 |
| 15° | 657.3 | 665.4 | 667.4 | 669.3 | 668.4 | 667.4 | 672.7 | 678.0 | 689.5 | 711.5 | 737.3 |
| 17.5° | 693.7 | 700.2 | 694.1 | 687.9 | 676.2 | 664.5 | 662.6 | 660.7 | 667.7 | 693.6 | 724.6 |
| 20° | 714.0 | 717.0 | 704.0 | 691.0 | 670.7 | 650.5 | 641.4 | 632.3 | 634.2 | 664.3 | 702.7 |
| 22.5° | 708.9 | 707.1 | 690.2 | 673.3 | 650.1 | 627.0 | 613.6 | 600.1 | 596.5 | 630.8 | 677.0 |
| 25° | 681.0 | 674.8 | 658.1 | 641.5 | 620.7 | 600.0 | 584.4 | 568.9 | 559.0 | 594.2 | 648.3 |
| 27.5° | 639.3 | 632.4 | 619.1 | 605.8 | 588.7 | 571.6 | 556.6 | 541.7 | 529.6 | 561.6 | 622.0 |
| 30° | 597.5 | 591.9 | 580.9 | 569.8 | 555.6 | 541.5 | 529.5 | 517.7 | 508.2 | 535.1 | 600.1 |
| 32.5° | 560.8 | 554.6 | 544.0 | 533.4 | 522.0 | 510.7 | 503.7 | 496.7 | 492.5 | 514.1 | 581.2 |
| 35° | 526.4 | 518.9 | 508.4 | 497.9 | 489.3 | 480.7 | 478.7 | 476.8 | 478.5 | 496.6 | 562.6 |
| 37.5° | 494.3 | 485.0 | 474.6 | 464.1 | 457.9 | 451.7 | 453.9 | 456.0 | 462.4 | 478.1 | 540.7 |
| 40° | 463.3 | 452.7 | 442.6 | 432.5 | 428.0 | 423.5 | 428.4 | 433.2 | 443.0 | 457.3 | 514.6 |
| 42.5° | 434.2 | 422.7 | 413.1 | 403.5 | 399.8 | 396.2 | 402.6 | 409.0 | 421.3 | 434.5 | 485.8 |
| 45° | 408.7 | 396.8 | 387.7 | 378.6 | 375.5 | 372.5 | 378.7 | 384.9 | 396.8 | 410.2 | 455.3 |
| 47.5° | 388.3 | 376.5 | 367.6 | 358.7 | 355.9 | 353.0 | 358.2 | 363.5 | 373.7 | 391.0 | 431.1 |
| 50° | 371.6 | 361.1 | 352.7 | 344.3 | 339.8 | 335.3 | 339.9 | 344.6 | 356.5 | 379.1 | 415.0 |
| 52.5° | 360.0 | 350.2 | 342.5 | 334.8 | 328.1 | 321.3 | 325.9 | 330.5 | 347.1 | 373.2 | 404.4 |
| 55° | 352.8 | 344.2 | 335.9 | 327.6 | 318.1 | 308.5 | 315.7 | 323.0 | 348.0 | 372.3 | 396.7 |
| 57.5° | 345.9 | 337.4 | 327.7 | 318.0 | 307.6 | 297.3 | 307.9 | 318.5 | 349.0 | 370.4 | 387.6 |
| 60° | 335.9 | 327.3 | 316.1 | 304.9 | 295.9 | 286.8 | 300.6 | 314.3 | 346.0 | 360.2 | 373.7 |
| 62.5° | 321.8 | 312.6 | 299.6 | 286.5 | 280.8 | 275.0 | 292.2 | 309.4 | 338.8 | 340.6 | 349.5 |
| 65° | *303.7* | *294.8* | *280.8* | *266.9* | *264.7* | *262.5* | *280.7* | *299.0* | *321.4* | *321.2* | *325.5* |
| 67.5° | 282.9 | 274.5 | 261.6 | 248.7 | 249.4 | 250.1 | 265.3 | 280.5 | 293.1 | 293.7 | 291.3 |
| 70° | 260.5 | 253.2 | 241.9 | 230.6 | 233.0 | 235.4 | 246.2 | 257.0 | 261.1 | 261.1 | 250.1 |
| 72.5° | 233.3 | 226.8 | 217.9 | 209.0 | 212.5 | 216.0 | 223.4 | 230.8 | 230.8 | 228.2 | 212.6 |
| 75° | 202.1 | 196.2 | 189.6 | 183.0 | 186.4 | 189.7 | 195.5 | 201.2 | 202.2 | 190.1 | 172.6 |
| 77.5° | 171.3 | 166.2 | 160.8 | 155.4 | 158.8 | 162.3 | 166.8 | 171.4 | 172.0 | 152.0 | 135.0 |
| 80° | 137.3 | 133.0 | 128.6 | 124.1 | 127.0 | 129.8 | 133.7 | 137.5 | 137.6 | 113.8 | 99.4 |
| 82.5° | 91.1 | 92.6 | 93.0 | 93.3 | 95.4 | 97.4 | 99.3 | 101.1 | 100.0 | 79.7 | 69.1 |
| 85° | 50.0 | 54.2 | 56.1 | 58.0 | 60.3 | 62.6 | 64.6 | 66.6 | 65.1 | 50.0 | 42.3 |
| 87.5° | 23.6 | 26.8 | 26.9 | 27.0 | 27.4 | 27.8 | 28.6 | 29.4 | 27.5 | 21.3 | 18.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

REPORT NUMBER: P1201619
CATALOG NUMBER: GWC-SB1B-830-U-SLL

**CANDELA DISTRIBUTION (continued):**

| | 330° | 335° | 340° | 345° | 350° | 355° | 360° |
|---|---|---|---|---|---|---|---|
| 0° | 696.9 | 696.9 | 696.9 | 696.9 | 696.9 | 696.9 | 696.9 |
| 2.5° | 713.4 | 719.6 | 725.7 | 731.8 | 737.9 | 743.7 | 749.4 |
| 5° | 729.7 | 742.4 | 755.1 | 767.8 | 780.5 | 793.2 | 805.9 |
| 7.5° | 744.2 | 763.1 | 781.9 | 801.3 | 820.7 | 841.6 | 862.6 |
| 10° | 756.0 | 779.0 | 801.9 | 827.4 | 853.0 | 879.5 | 906.0 |
| 12.5° | 762.4 | 789.4 | 816.4 | 845.4 | 874.4 | 903.5 | 932.6 |
| 15° | 763.0 | 794.1 | 825.2 | 856.6 | 888.1 | 918.5 | 948.8 |
| 17.5° | 755.5 | 791.6 | 827.7 | 862.0 | 896.3 | 927.1 | 957.9 |
| 20° | 741.0 | 784.8 | 828.5 | 866.2 | 903.9 | 935.9 | 967.9 |
| 22.5° | 723.2 | 776.4 | 829.6 | 871.9 | 914.2 | 946.9 | 979.6 |
| 25° | 702.4 | 768.1 | 833.8 | 882.2 | 930.5 | 962.5 | 994.5 |
| 27.5° | 682.5 | 762.5 | 842.6 | 898.2 | 953.7 | 984.3 | 1014.9 |
| 30° | 665.1 | 760.0 | 854.7 | 919.0 | 983.2 | 1012.7 | 1042.3 |
| 32.5° | 648.3 | 756.7 | 865.2 | 940.7 | 1016.2 | 1045.4 | 1074.6 |
| 35° | 628.6 | 750.7 | 872.8 | 965.4 | 1058.0 | 1086.0 | 1113.9 |
| 37.5° | 603.4 | 740.3 | 877.3 | 993.1 | 1108.8 | 1144.4 | 1180.1 |
| 40° | 572.0 | 726.1 | 880.2 | 1028.2 | 1176.2 | 1228.1 | 1280.1 |
| 42.5° | 537.2 | 711.4 | 885.6 | 1074.2 | 1262.7 | 1337.7 | 1412.8 |
| 45° | 500.3 | 697.7 | 895.2 | 1134.7 | 1374.1 | 1475.4 | 1576.6 |
| 47.5° | 471.1 | 686.4 | 901.7 | 1199.1 | 1496.5 | 1639.0 | 1781.4 |
| 50° | 450.8 | 674.1 | 897.5 | 1258.9 | 1620.3 | 1835.1 | 2049.9 |
| 52.5° | 435.6 | 653.4 | 871.1 | 1297.7 | 1724.3 | 2041.2 | 2358.1 |
| 55° | 421.1 | 618.9 | 816.7 | 1289.2 | 1761.6 | 2223.9 | 2686.2 |
| 57.5° | 404.9 | 570.4 | 735.8 | 1229.0 | 1722.1 | 2353.4 | 2984.7 |
| 60° | 387.3 | 507.3 | 627.3 | 1116.9 | 1606.4 | 2385.8 | 3165.0 |
| 62.5° | 358.6 | 431.8 | 505.1 | 965.3 | 1425.6 | 2249.5 | 3073.4 |
| 65° | *329.7* | *363.9* | *398.1* | *810.7* | *1223.3* | *2056.7* | *2890.1* |
| 67.5° | 288.9 | 298.7 | 308.4 | 659.2 | 1010.1 | 1827.3 | 2644.5 |
| 70° | 239.1 | 236.4 | 233.6 | 519.1 | 804.5 | 1577.0 | 2349.4 |
| 72.5° | 197.0 | 188.6 | 180.2 | 396.8 | 613.5 | 1305.6 | 1997.8 |
| 75° | 155.1 | 147.5 | 139.9 | 288.0 | 436.1 | 994.5 | 1552.9 |
| 77.5° | 118.1 | 112.9 | 107.7 | 195.2 | 282.6 | 696.1 | 1109.5 |
| 80° | 85.0 | 82.9 | 80.8 | 125.7 | 170.7 | 448.5 | 726.2 |
| 82.5° | 58.5 | 58.1 | 57.7 | 77.3 | 97.0 | 259.6 | 422.1 |
| 85° | 34.5 | 34.7 | 34.9 | 41.3 | 47.8 | 116.8 | 185.7 |
| 87.5° | 14.9 | 15.1 | 15.3 | 17.1 | 19.0 | 38.2 | 57.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |


HS
SS

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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: SP1-2408-195-9

Test Date: 08/07/2024

Luminaire Tested: GALN-SB1A-830-U-5WQ

Data in this report applies to families of products including GALN-SB1A-830-U-5WQ.

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

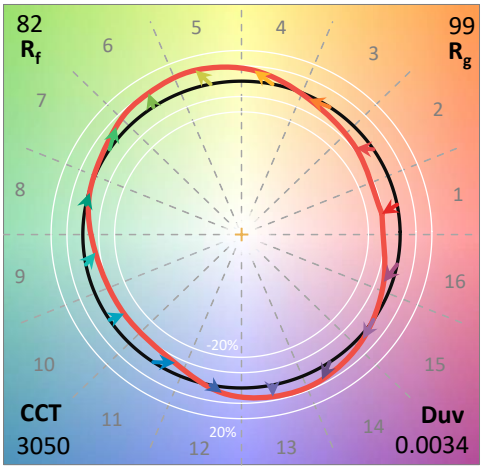
## Test Information

| | |
|---|---|
| Test Method: | LM-79-2019 |
| Report Number: | SP1-2408-195-9 |
| Test Lab: | COOPER LIGHTING SOLUTIONS |
| Photometer: | SP1 - 76IN SPHERE |
| Measurement Geometry: | 4π |
| Issue Date: | 08/07/2024 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS |
| Product Line: | MCGRAW EDISON |
| Catalog Number: | **GALN-SB1A-830-U-5WQ** |
| Description: | GALLEON AREA AND ROADWAY LUMINAIRE. (1) 80 CRI, 3000K, 350MA HIGH DENSITY LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS |

## Spectral Parameters

| | |
|---|---|
| CCT (K): | 3050 |
| CIE u': | 0.2476 |
| CIE v': | 0.5251 |
| Duv: | 0.0034 |
| CIE x: | 0.4383 |
| CIE y: | 0.4131 |
| CIE z: | 0.1487 |
| Peak Wavelength (nm): | 603 |
| Dominant Wavelength (nm): | 581 |
| Purity: | 55.55201 |
| Rf: | 81.5 |
| Rg: | 99.2 |

| | |
|---|---|
| CRI (Ra): | 81.0 |
| R1: | 79.6 |
| R2: | 85.6 |
| R3: | 92.0 |
| R4: | 82.6 |
| R5: | 78.9 |
| R6: | 81.7 |
| R7: | 85.2 |
| R8: | 62.0 |
| R9: | 7.1 |
| R10: | 67.0 |
| R11: | 82.7 |
| R12: | 63.2 |
| R13: | 80.3 |
| R14: | 95.0 |
| R15: | 71.7 |




## Test Conditions

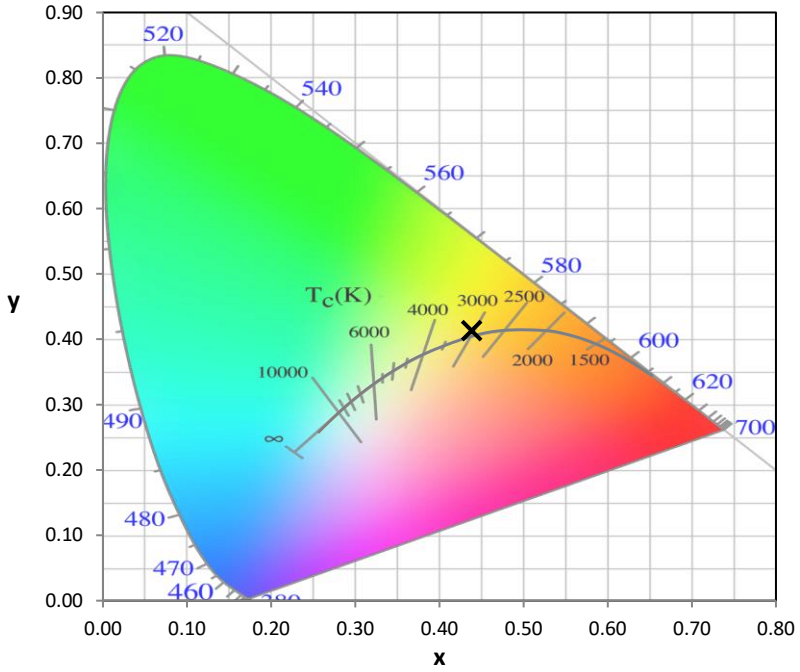
| | |
|---|---|
| Stabilization Time: | 20M |
| Operation Time: | 1H 20M |
| Sphere Temperature (°C): | 24.2 |

REPORT NUMBER: SP1-2408-195-9

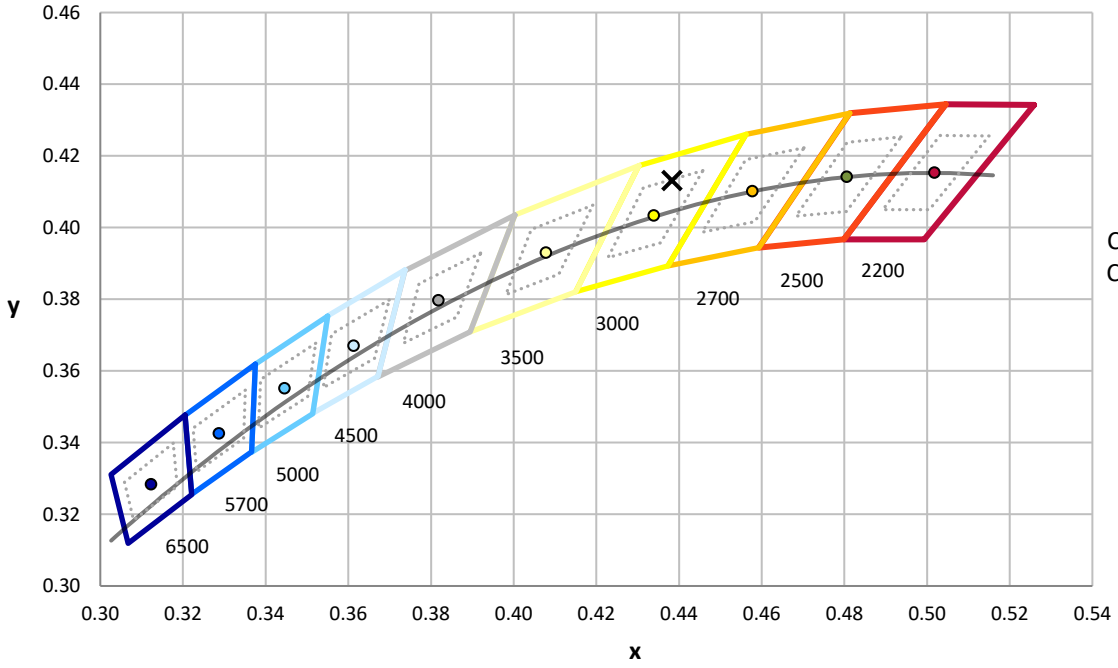
| Measurement and Test Equipment | | | |
|---|---|---|---|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | IN0058 | 6/18/2024 | 12/18/2024 |
| Power Meter | INXT2011004 | 2/8/2024 | 2/8/2025 |
| AC Power Source | IN0063 | 10/24/2023 | 10/24/2024 |
| DC 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: SP1-2408-195-9

## CIE 1931 Chromaticity Diagram




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

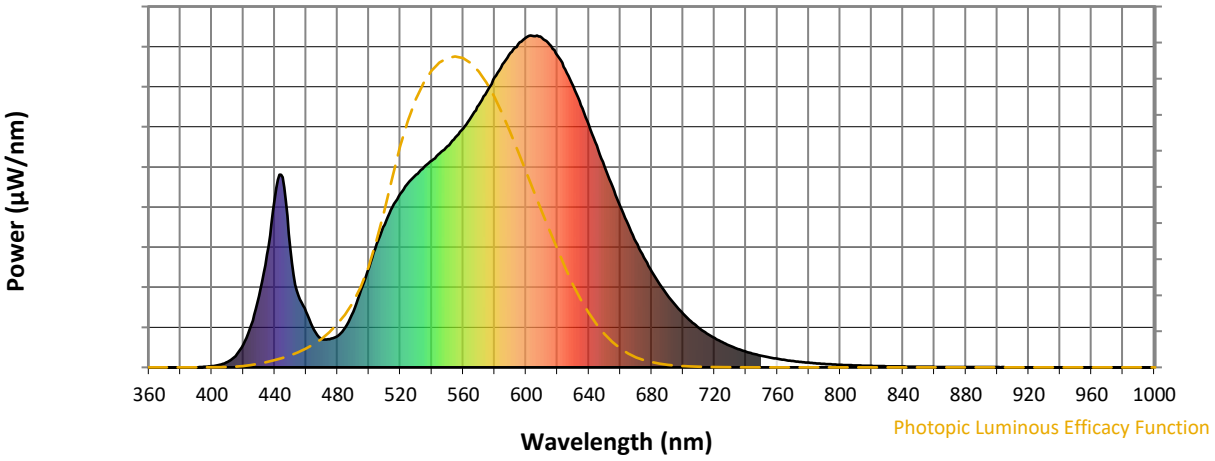



CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

## Photopic Flux vs. Wavelength

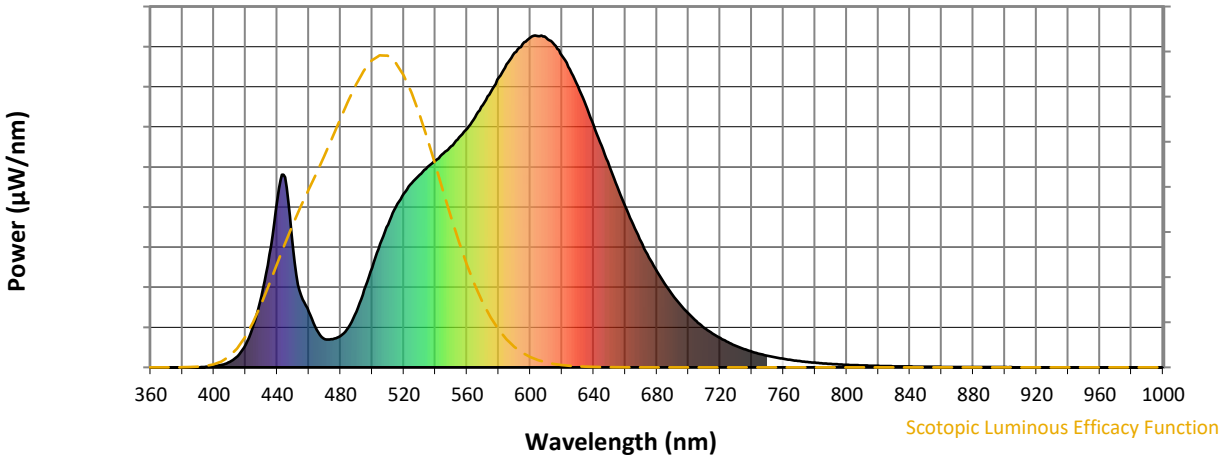



## Photopic Lumens: NR

| 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 | 168 | NR | 620 | 940 | NR | 750 | 35 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 233 | NR | 625 | 897 | NR | 755 | 30 | NR | 885 | 1 | NR |
| 370 | 0 | NR | 500 | 300 | NR | 630 | 847 | NR | 760 | 26 | NR | 890 | 1 | NR |
| 375 | 0 | NR | 505 | 372 | NR | 635 | 790 | NR | 765 | 22 | NR | 895 | 1 | NR |
| 380 | 0 | NR | 510 | 430 | NR | 640 | 730 | NR | 770 | 19 | NR | 900 | 1 | NR |
| 385 | 0 | NR | 515 | 483 | NR | 645 | 668 | NR | 775 | 16 | NR | 905 | 1 | NR |
| 390 | 0 | NR | 520 | 524 | NR | 650 | 605 | NR | 780 | 14 | NR | 910 | 0 | NR |
| 395 | 2 | NR | 525 | 555 | NR | 655 | 545 | NR | 785 | 12 | NR | 915 | 0 | NR |
| 400 | 4 | NR | 530 | 581 | NR | 660 | 485 | NR | 790 | 10 | NR | 920 | 0 | NR |
| 405 | 7 | NR | 535 | 604 | NR | 665 | 430 | NR | 795 | 9 | NR | 925 | 0 | NR |
| 410 | 17 | NR | 540 | 623 | NR | 670 | 378 | NR | 800 | 8 | NR | 930 | 0 | NR |
| 415 | 34 | NR | 545 | 645 | NR | 675 | 331 | NR | 805 | 7 | NR | 935 | 0 | NR |
| 420 | 68 | NR | 550 | 667 | NR | 680 | 290 | NR | 810 | 6 | NR | 940 | 0 | NR |
| 425 | 128 | NR | 555 | 693 | NR | 685 | 251 | NR | 815 | 5 | NR | 945 | 0 | NR |
| 430 | 214 | NR | 560 | 719 | NR | 690 | 218 | NR | 820 | 4 | NR | 950 | 0 | NR |
| 435 | 339 | NR | 565 | 754 | NR | 695 | 188 | NR | 825 | 4 | NR | 955 | 0 | NR |
| 440 | 507 | NR | 570 | 791 | NR | 700 | 162 | NR | 830 | 3 | NR | 960 | 0 | NR |
| 445 | 573 | NR | 575 | 830 | NR | 705 | 139 | NR | 835 | 3 | NR | 965 | 0 | NR |
| 450 | 356 | NR | 580 | 873 | NR | 710 | 119 | NR | 840 | 3 | NR | 970 | 0 | NR |
| 455 | 217 | NR | 585 | 913 | NR | 715 | 102 | NR | 845 | 2 | NR | 975 | 0 | NR |
| 460 | 168 | NR | 590 | 948 | NR | 720 | 88 | NR | 850 | 2 | NR | 980 | 0 | NR |
| 465 | 113 | NR | 595 | 974 | NR | 725 | 76 | NR | 855 | 2 | NR | 985 | 0 | NR |
| 470 | 85 | NR | 600 | 994 | NR | 730 | 65 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 85 | NR | 605 | 998 | NR | 735 | 55 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 94 | NR | 610 | 994 | NR | 740 | 47 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 120 | NR | 615 | 973 | NR | 745 | 41 | NR | 875 | 1 | NR | | | |

REPORT NUMBER: SP1-2408-195-9

## Scotopic Flux vs. Wavelength

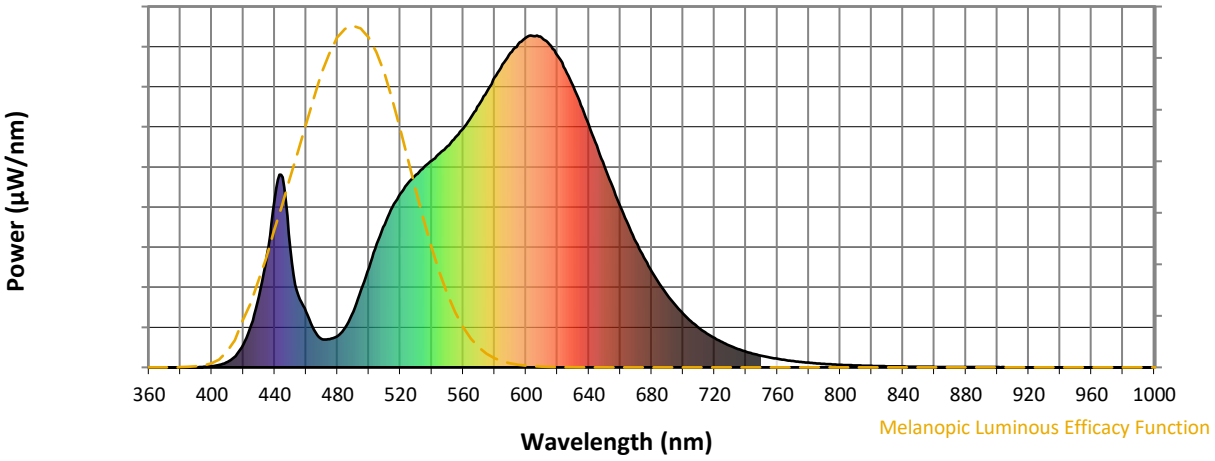



**Scotopic Lumens: NR** **S/P: 1.27**

| 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 | 168 | NR | 620 | 940 | NR | 750 | 35 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 233 | NR | 625 | 897 | NR | 755 | 30 | NR | 885 | 1 | NR |
| 370 | 0 | NR | 500 | 300 | NR | 630 | 847 | NR | 760 | 26 | NR | 890 | 1 | NR |
| 375 | 0 | NR | 505 | 372 | NR | 635 | 790 | NR | 765 | 22 | NR | 895 | 1 | NR |
| 380 | 0 | NR | 510 | 430 | NR | 640 | 730 | NR | 770 | 19 | NR | 900 | 1 | NR |
| 385 | 0 | NR | 515 | 483 | NR | 645 | 668 | NR | 775 | 16 | NR | 905 | 1 | NR |
| 390 | 0 | NR | 520 | 524 | NR | 650 | 605 | NR | 780 | 14 | NR | 910 | 0 | NR |
| 395 | 2 | NR | 525 | 555 | NR | 655 | 545 | NR | 785 | 12 | NR | 915 | 0 | NR |
| 400 | 4 | NR | 530 | 581 | NR | 660 | 485 | NR | 790 | 10 | NR | 920 | 0 | NR |
| 405 | 7 | NR | 535 | 604 | NR | 665 | 430 | NR | 795 | 9 | NR | 925 | 0 | NR |
| 410 | 17 | NR | 540 | 623 | NR | 670 | 378 | NR | 800 | 8 | NR | 930 | 0 | NR |
| 415 | 34 | NR | 545 | 645 | NR | 675 | 331 | NR | 805 | 7 | NR | 935 | 0 | NR |
| 420 | 68 | NR | 550 | 667 | NR | 680 | 290 | NR | 810 | 6 | NR | 940 | 0 | NR |
| 425 | 128 | NR | 555 | 693 | NR | 685 | 251 | NR | 815 | 5 | NR | 945 | 0 | NR |
| 430 | 214 | NR | 560 | 719 | NR | 690 | 218 | NR | 820 | 4 | NR | 950 | 0 | NR |
| 435 | 339 | NR | 565 | 754 | NR | 695 | 188 | NR | 825 | 4 | NR | 955 | 0 | NR |
| 440 | 507 | NR | 570 | 791 | NR | 700 | 162 | NR | 830 | 3 | NR | 960 | 0 | NR |
| 445 | 573 | NR | 575 | 830 | NR | 705 | 139 | NR | 835 | 3 | NR | 965 | 0 | NR |
| 450 | 356 | NR | 580 | 873 | NR | 710 | 119 | NR | 840 | 3 | NR | 970 | 0 | NR |
| 455 | 217 | NR | 585 | 913 | NR | 715 | 102 | NR | 845 | 2 | NR | 975 | 0 | NR |
| 460 | 168 | NR | 590 | 948 | NR | 720 | 88 | NR | 850 | 2 | NR | 980 | 0 | NR |
| 465 | 113 | NR | 595 | 974 | NR | 725 | 76 | NR | 855 | 2 | NR | 985 | 0 | NR |
| 470 | 85 | NR | 600 | 994 | NR | 730 | 65 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 85 | NR | 605 | 998 | NR | 735 | 55 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 94 | NR | 610 | 994 | NR | 740 | 47 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 120 | NR | 615 | 973 | NR | 745 | 41 | NR | 875 | 1 | NR | | | |

REPORT NUMBER: SP1-2408-195-9

## Melanopic Flux vs. Wavelength




**Melanopic Lumens: NR** **M/P: 2.32**

| 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 | 168 | NR | 620 | 940 | NR | 750 | 35 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 233 | NR | 625 | 897 | NR | 755 | 30 | NR | 885 | 1 | NR |
| 370 | 0 | NR | 500 | 300 | NR | 630 | 847 | NR | 760 | 26 | NR | 890 | 1 | NR |
| 375 | 0 | NR | 505 | 372 | NR | 635 | 790 | NR | 765 | 22 | NR | 895 | 1 | NR |
| 380 | 0 | NR | 510 | 430 | NR | 640 | 730 | NR | 770 | 19 | NR | 900 | 1 | NR |
| 385 | 0 | NR | 515 | 483 | NR | 645 | 668 | NR | 775 | 16 | NR | 905 | 1 | NR |
| 390 | 0 | NR | 520 | 524 | NR | 650 | 605 | NR | 780 | 14 | NR | 910 | 0 | NR |
| 395 | 2 | NR | 525 | 555 | NR | 655 | 545 | NR | 785 | 12 | NR | 915 | 0 | NR |
| 400 | 4 | NR | 530 | 581 | NR | 660 | 485 | NR | 790 | 10 | NR | 920 | 0 | NR |
| 405 | 7 | NR | 535 | 604 | NR | 665 | 430 | NR | 795 | 9 | NR | 925 | 0 | NR |
| 410 | 17 | NR | 540 | 623 | NR | 670 | 378 | NR | 800 | 8 | NR | 930 | 0 | NR |
| 415 | 34 | NR | 545 | 645 | NR | 675 | 331 | NR | 805 | 7 | NR | 935 | 0 | NR |
| 420 | 68 | NR | 550 | 667 | NR | 680 | 290 | NR | 810 | 6 | NR | 940 | 0 | NR |
| 425 | 128 | NR | 555 | 693 | NR | 685 | 251 | NR | 815 | 5 | NR | 945 | 0 | NR |
| 430 | 214 | NR | 560 | 719 | NR | 690 | 218 | NR | 820 | 4 | NR | 950 | 0 | NR |
| 435 | 339 | NR | 565 | 754 | NR | 695 | 188 | NR | 825 | 4 | NR | 955 | 0 | NR |
| 440 | 507 | NR | 570 | 791 | NR | 700 | 162 | NR | 830 | 3 | NR | 960 | 0 | NR |
| 445 | 573 | NR | 575 | 830 | NR | 705 | 139 | NR | 835 | 3 | NR | 965 | 0 | NR |
| 450 | 356 | NR | 580 | 873 | NR | 710 | 119 | NR | 840 | 3 | NR | 970 | 0 | NR |
| 455 | 217 | NR | 585 | 913 | NR | 715 | 102 | NR | 845 | 2 | NR | 975 | 0 | NR |
| 460 | 168 | NR | 590 | 948 | NR | 720 | 88 | NR | 850 | 2 | NR | 980 | 0 | NR |
| 465 | 113 | NR | 595 | 974 | NR | 725 | 76 | NR | 855 | 2 | NR | 985 | 0 | NR |
| 470 | 85 | NR | 600 | 994 | NR | 730 | 65 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 85 | NR | 605 | 998 | NR | 735 | 55 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 94 | NR | 610 | 994 | NR | 740 | 47 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 120 | NR | 615 | 973 | NR | 745 | 41 | NR | 875 | 1 | NR | | | |

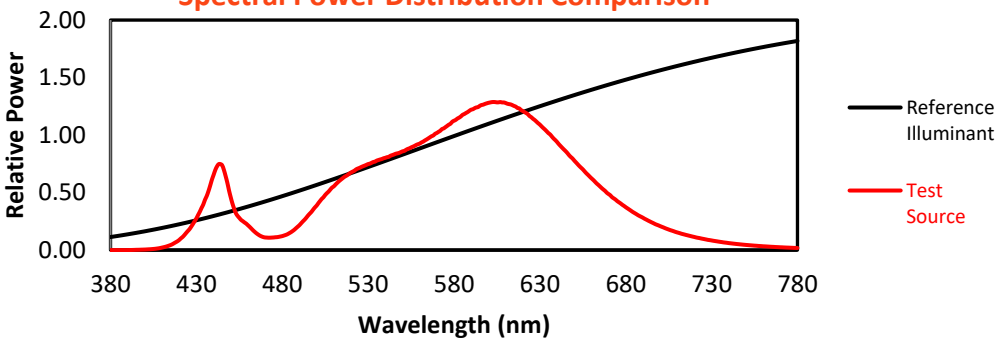
REPORT NUMBER: SP1-2408-195-9

# TM-30-18

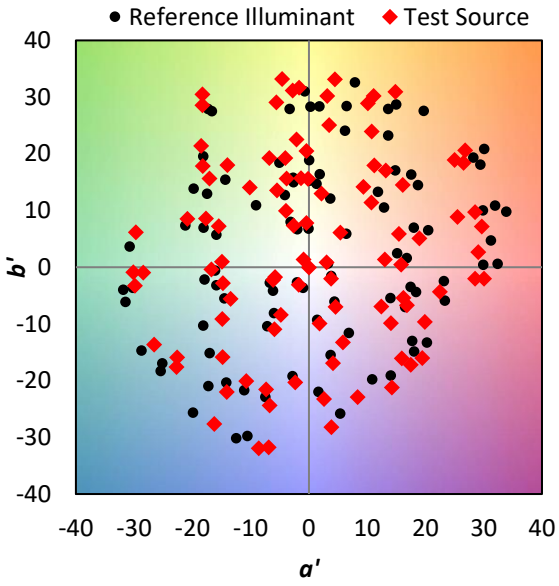
## Summary

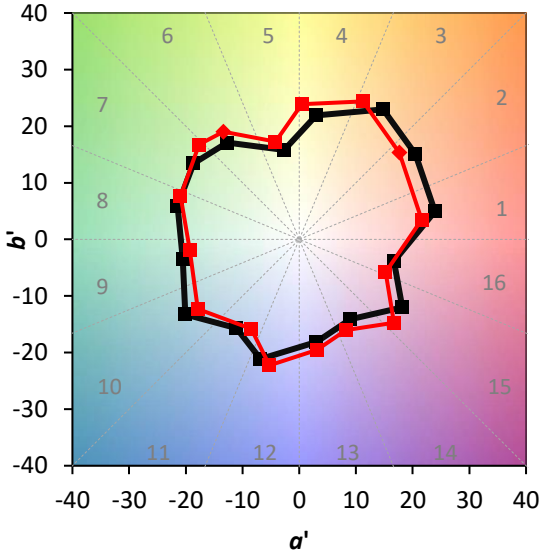
$R_f$ = 81.5
$R_g$ = 99.2
CIE $R_a$ = 81.0
$R_9$ = 7.1

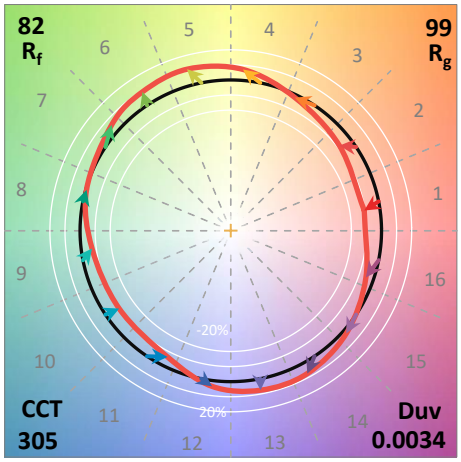
## Spectral Power Distribution Comparison

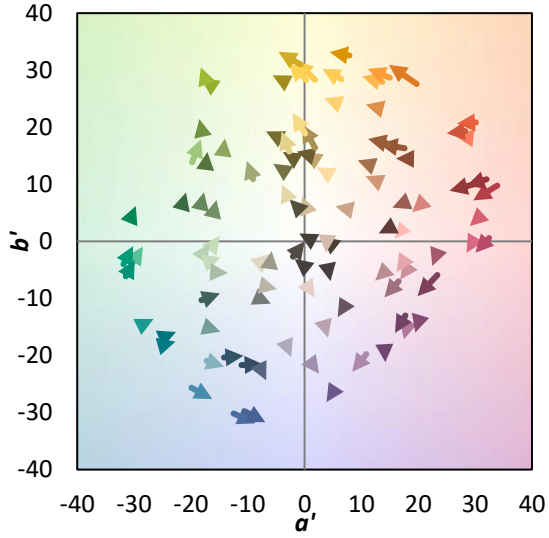



## Color Vector Graphics



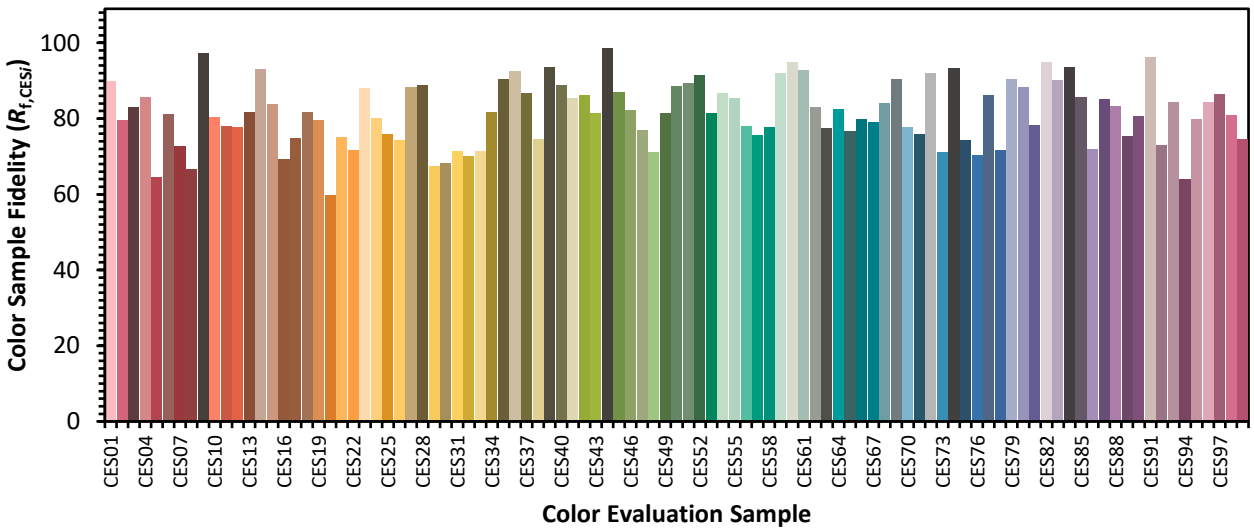



REPORT NUMBER: SP1-2408-195-9

# TM-30-18

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

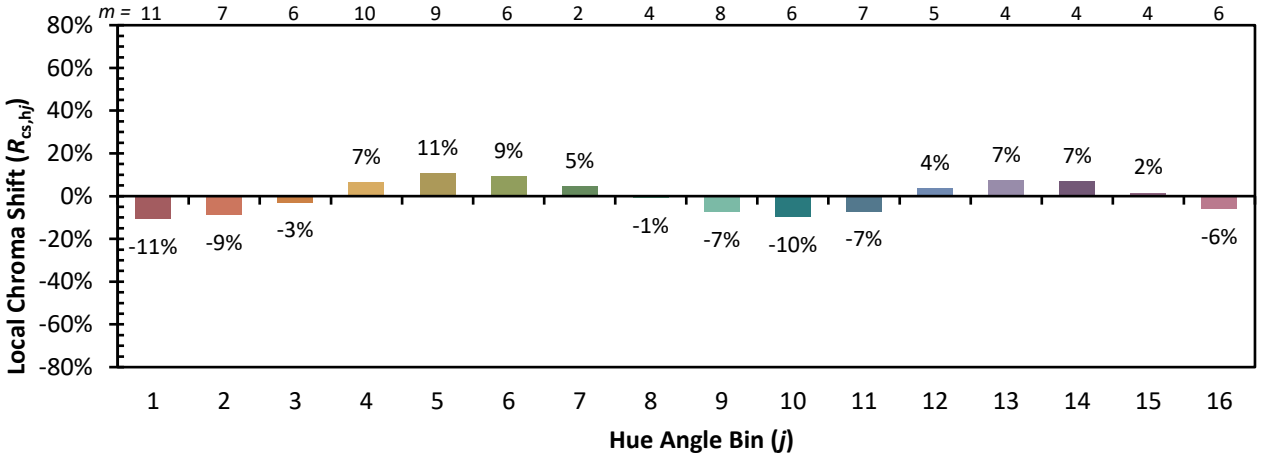
| | | | |
|---|---|---|---|
| CES01 = 86 | CES26 = 74 | CES51 = 89 | CES76 = 70 |
| CES02 = 63 | CES27 = 88 | CES52 = 92 | CES77 = 86 |
| CES03 = 31 | CES28 = 89 | CES53 = 81 | CES78 = 72 |
| CES04 = 70 | CES29 = 67 | CES54 = 87 | CES79 = 90 |
| CES05 = 50 | CES30 = 68 | CES55 = 85 | CES80 = 88 |
| CES06 = 51 | CES31 = 71 | CES56 = 78 | CES81 = 78 |
| CES07 = 42 | CES32 = 70 | CES57 = 76 | CES82 = 95 |
| CES08 = 41 | CES33 = 71 | CES58 = 78 | CES83 = 90 |
| CES09 = 29 | CES34 = 82 | CES59 = 92 | CES84 = 94 |
| CES10 = 76 | CES35 = 90 | CES60 = 95 | CES85 = 86 |
| CES11 = 59 | CES36 = 93 | CES61 = 93 | CES86 = 72 |
| CES12 = 65 | CES37 = 87 | CES62 = 83 | CES87 = 85 |
| CES13 = 43 | CES38 = 75 | CES63 = 77 | CES88 = 83 |
| CES14 = 74 | CES39 = 94 | CES64 = 83 | CES89 = 75 |
| CES15 = 71 | CES40 = 89 | CES65 = 77 | CES90 = 81 |
| CES16 = 47 | CES41 = 85 | CES66 = 80 | CES91 = 96 |
| CES17 = 50 | CES42 = 86 | CES67 = 79 | CES92 = 73 |
| CES18 = 56 | CES43 = 81 | CES68 = 84 | CES93 = 84 |
| CES19 = 72 | CES44 = 99 | CES69 = 91 | CES94 = 64 |
| CES20 = 66 | CES45 = 87 | CES70 = 78 | CES95 = 80 |
| CES21 = 87 | CES46 = 82 | CES71 = 76 | CES96 = 84 |
| CES22 = 79 | CES47 = 77 | CES72 = 92 | CES97 = 87 |
| CES23 = 92 | CES48 = 71 | CES73 = 71 | CES98 = 81 |
| CES24 = 91 | CES49 = 81 | CES74 = 93 | CES99 = 74 |
| CES25 = 72 | CES50 = 89 | CES75 = 74 | |

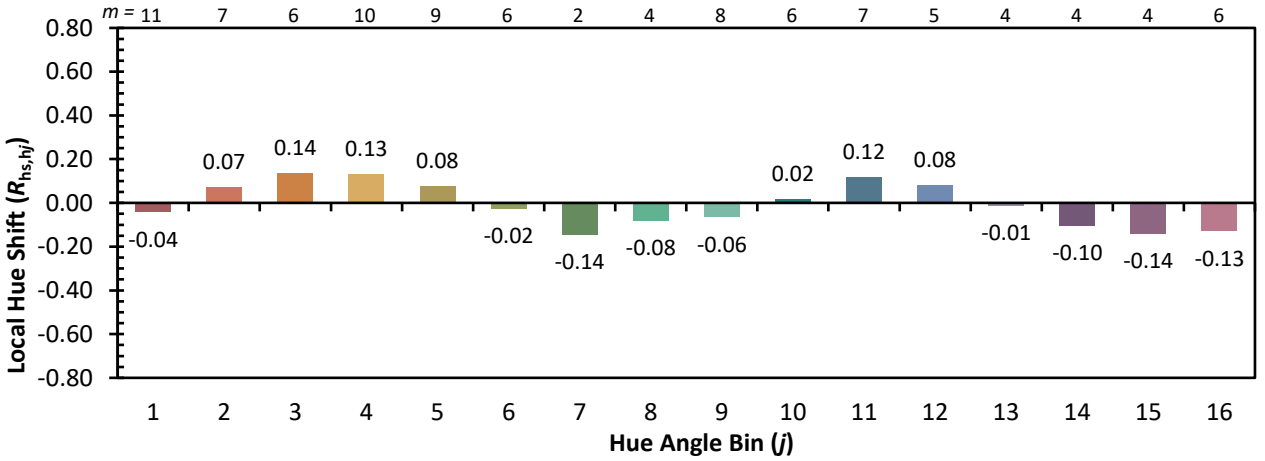


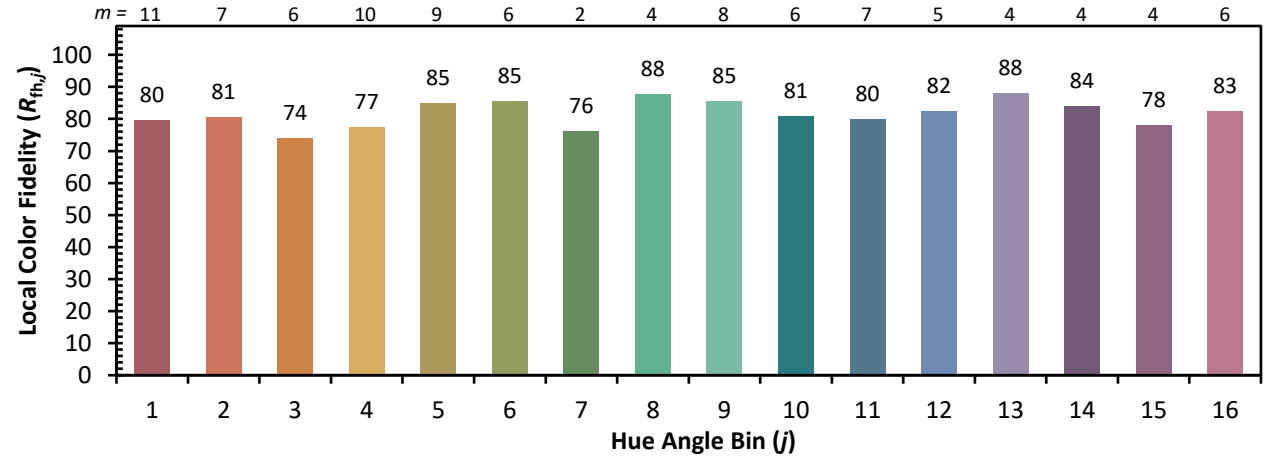
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## Color Rendition by Hue-Angle Bin



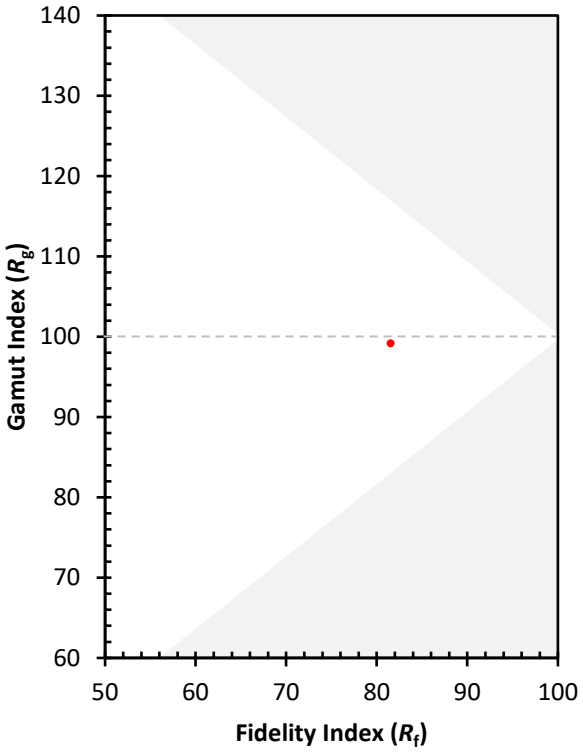



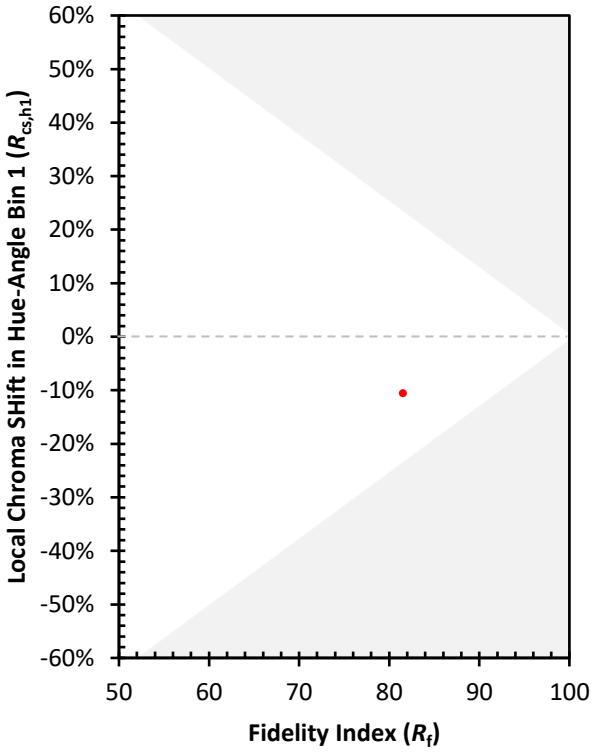



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## Measure Comparisons




(END OF REPORT)