

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: CORELITE

Report Number: P937617

Luminaire Tested: SQ4-FB-100U-100D-840-1D-UNV-STD-W-12

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P937617
REPORT IS A COMBINATION OF REPORTS P933559 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FB-100U-100D-840-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

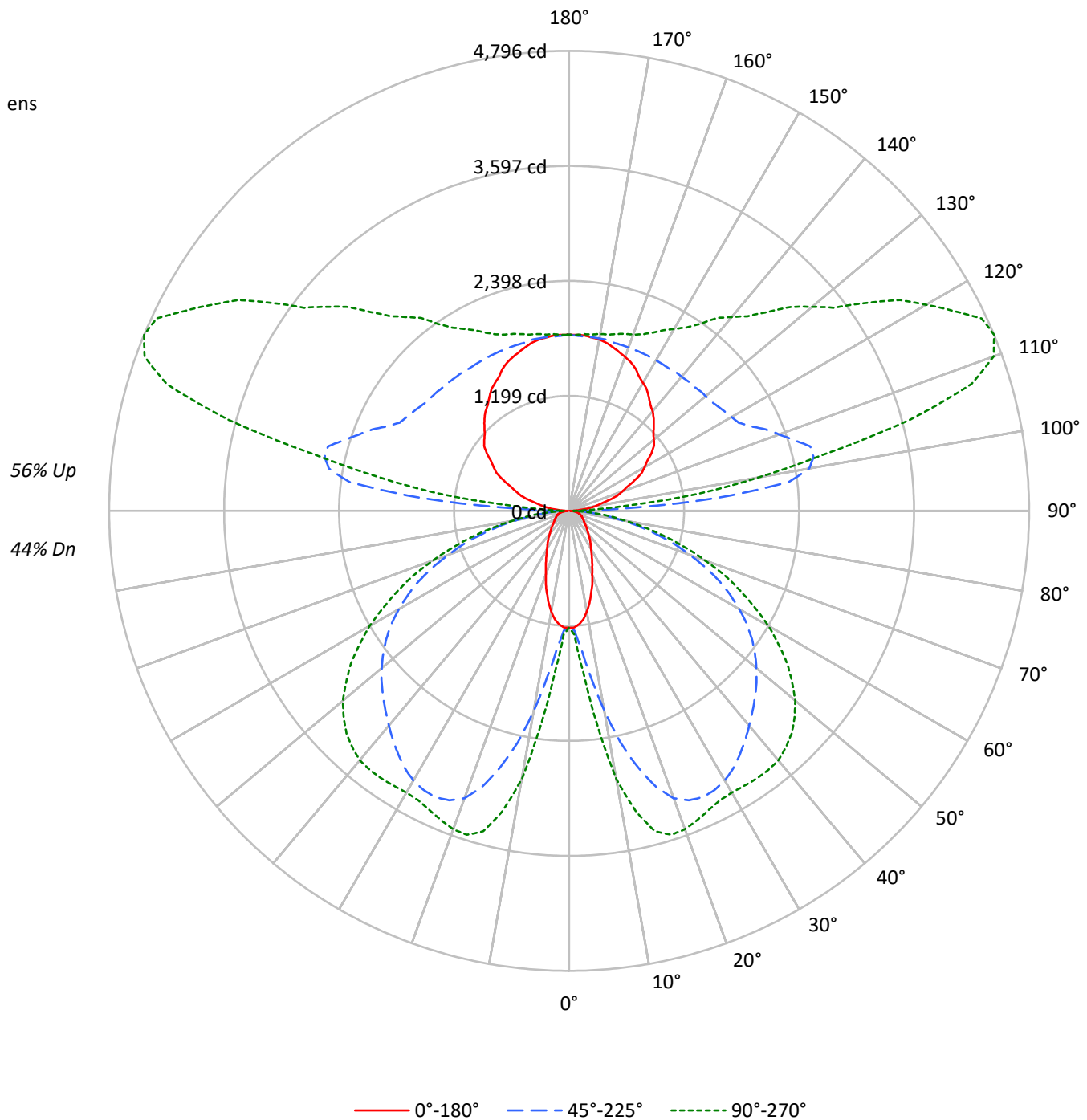
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21336.9 lumens
Efficiency: N/A
Efficacy: 122.6 lumens/watt
Spacing Criteria (0/90/45): 0.71 / 2.69 / 2.33
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 12' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 174
Input Voltage (V): NR
Input Current (A_{in}): 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: 24 FT

TEST NUMBER: P937617
CATALOG NUMBER: SQ4-FB-100U-100D-840-1D-UNV-STD-W-12

Luminous Intensity Polar Plot





TEST NUMBER: P937617
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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|----|--|--|--|--|--|----|--|--|--|--|--|--|--|--|---|
| RF | 20 | | | | | | | | | 20 | | | | | | | | | 20 | | | | | | | | | 20 | | | | | | | | | |
| RC | 80 | | | | | | | | | 50 | | | | | | | | | 30 | | | | | | | | | 10 | | | | | | | | | 0 |
| RW | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 | | | | | | | | | | | | | | | | |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 106 | 106 | 106 | 106 | 97 | 97 | 97 | 97 | 80 | 80 | 80 | 65 | 65 | 65 | 51 | 51 | 51 | | | | | 44 | | | | | | | | | | | | | | | |
| 1 | 96 | 91 | 87 | 84 | 88 | 84 | 80 | 77 | 69 | 67 | 65 | 56 | 55 | 53 | 44 | 43 | 42 | | | | | 36 | | | | | | | | | | | | | | | |
| 2 | 87 | 79 | 73 | 68 | 79 | 73 | 67 | 63 | 60 | 56 | 53 | 49 | 46 | 43 | 38 | 36 | 34 | | | | | 30 | | | | | | | | | | | | | | | |
| 3 | 79 | 69 | 62 | 56 | 72 | 63 | 57 | 52 | 53 | 48 | 44 | 43 | 39 | 36 | 33 | 31 | 29 | | | | | 24 | | | | | | | | | | | | | | | |
| 4 | 72 | 61 | 53 | 46 | 65 | 56 | 49 | 43 | 46 | 41 | 37 | 38 | 34 | 30 | 29 | 27 | 24 | | | | | 20 | | | | | | | | | | | | | | | |
| 5 | 66 | 54 | 46 | 39 | 60 | 49 | 42 | 37 | 41 | 36 | 31 | 33 | 29 | 26 | 26 | 23 | 21 | | | | | 17 | | | | | | | | | | | | | | | |
| 6 | 60 | 48 | 40 | 34 | 55 | 44 | 37 | 31 | 37 | 31 | 27 | 30 | 26 | 22 | 24 | 20 | 18 | | | | | 15 | | | | | | | | | | | | | | | |
| 7 | 56 | 43 | 35 | 29 | 51 | 40 | 32 | 27 | 33 | 27 | 23 | 27 | 23 | 19 | 21 | 18 | 16 | | | | | 13 | | | | | | | | | | | | | | | |
| 8 | 51 | 39 | 31 | 26 | 47 | 36 | 29 | 24 | 30 | 24 | 20 | 25 | 20 | 17 | 19 | 16 | 14 | | | | | 11 | | | | | | | | | | | | | | | |
| 9 | 48 | 35 | 28 | 23 | 44 | 33 | 26 | 21 | 27 | 22 | 18 | 22 | 18 | 15 | 18 | 15 | 12 | | | | | 10 | | | | | | | | | | | | | | | |
| 10 | 44 | 32 | 25 | 20 | 41 | 30 | 23 | 19 | 25 | 20 | 16 | 21 | 16 | 14 | 16 | 13 | 11 | | | | | 9 | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|-------|-------|
| 0° | 3767 | 3767 | 3767 |
| 5° | 3682 | 4355 | 5063 |
| 10° | 3341 | 6350 | 8394 |
| 15° | 2840 | 8298 | 10136 |
| 20° | 2313 | 9618 | 10330 |
| 25° | 1930 | 10067 | 10120 |
| 30° | 1628 | 10134 | 10101 |
| 35° | 1440 | 9968 | 10362 |
| 40° | 1256 | 9752 | 10632 |
| 45° | 1138 | 9595 | 10674 |
| 50° | 1045 | 9454 | 10497 |
| 55° | 1002 | 9246 | 10032 |
| 60° | 1027 | 8844 | 9297 |
| 65° | 1070 | 8231 | 8288 |
| 70° | 1142 | 7183 | 7002 |
| 75° | 1271 | 5862 | 5464 |
| 80° | 1398 | 4071 | 3682 |
| 85° | 1267 | 2163 | 1885 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 10674 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 157.5 | 0.7 |
| 10°-20° | 698.2 | 3.3 |
| 20°-30° | 1221.3 | 5.7 |
| 30°-40° | 1572.2 | 7.4 |
| 40°-50° | 1756.0 | 8.2 |
| 50°-60° | 1681.9 | 7.9 |
| 60°-70° | 1332.9 | 6.2 |
| 70°-80° | 783.8 | 3.7 |
| 80°-90° | 224.7 | 1.1 |
| 90°-100° | 895.4 | 4.2 |
| 100°-110° | 2354.1 | 11.0 |
| 110°-120° | 2441.0 | 11.4 |
| 120°-130° | 1958.0 | 9.2 |
| 130°-140° | 1536.3 | 7.2 |
| 140°-150° | 1179.2 | 5.5 |
| 150°-160° | 849.2 | 4.0 |
| 160°-170° | 519.6 | 2.4 |
| 170°-180° | 175.5 | 0.8 |
| 0°-30° | 2077.0 | 9.7 |
| 0°-40° | 3649.2 | 17.1 |
| 0°-60° | 7087.1 | 33.2 |
| 0°-90° | 9428.6 | 44.2 |
| 90°-120° | 5690.5 | 26.7 |
| 90°-150° | 10364.0 | 48.6 |
| 90°-180° | 11908.0 | 55.8 |
| 0°-180° | 21336.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1218 | 1218 | 1218 | 1218 | 1218 | |
| 5° | 1187 | 1273 | 1433 | 1621 | 1680 | 110 |
| 15° | 889 | 1641 | 2765 | 3352 | 3458 | 247 |
| 25° | 568 | 1860 | 3293 | 3438 | 3442 | 262 |
| 35° | 384 | 1778 | 3102 | 3278 | 3407 | 240 |
| 45° | 262 | 1418 | 2741 | 3141 | 3282 | 203 |
| 55° | 188 | 901 | 2326 | 2702 | 2776 | 171 |
| 65° | 149 | 478 | 1727 | 1942 | 1970 | 147 |
| 75° | 110 | 294 | 948 | 1042 | 1046 | 115 |
| 85° | 39 | 90 | 235 | 258 | 262 | 42 |
| 90° | 12 | 34 | 94 | 47 | 47 | 13 |
| 95° | 118 | 464 | 1542 | 795 | 541 | 131 |
| 105° | 424 | 642 | 2603 | 3951 | 3686 | 450 |
| 115° | 753 | 915 | 2085 | 4158 | 4746 | 744 |
| 125° | 1048 | 1175 | 1896 | 3204 | 3780 | 930 |
| 135° | 1249 | 1375 | 1837 | 2586 | 2933 | 966 |
| 145° | 1449 | 1541 | 1814 | 2207 | 2379 | 908 |
| 155° | 1637 | 1683 | 1814 | 1991 | 2049 | 752 |
| 165° | 1767 | 1790 | 1814 | 1885 | 1908 | 499 |
| 175° | 1837 | 1837 | 1826 | 1849 | 1849 | 174 |
| 180° | 1837 | 1837 | 1837 | 1837 | 1837 | |



TEST NUMBER: P937617

CATALOG NUMBER: SQ4-FB-100U-100D-840-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (FULL):

| | 0° | 10° | 20° | 22.5° | 30° | 40° | 45° | 50° | 60° | 67.5° | 70° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1217.9 | 1217.9 | 1217.9 | 1217.9 | 1217.9 | 1217.9 | 1217.9 | 1217.9 | 1217.9 | 1217.9 | 1217.9 |
| 2.5° | 1217.9 | 1217.9 | 1225.7 | 1229.7 | 1237.5 | 1241.4 | 1249.2 | 1257.0 | 1280.5 | 1284.5 | 1292.3 |
| 5° | 1186.6 | 1202.2 | 1253.2 | 1272.7 | 1327.6 | 1402.0 | 1433.3 | 1484.2 | 1589.9 | 1621.2 | 1640.8 |
| 7.5° | 1139.6 | 1174.8 | 1300.1 | 1331.4 | 1468.5 | 1664.3 | 1746.6 | 1856.2 | 2024.6 | 2106.8 | 2173.4 |
| 10° | 1065.2 | 1139.6 | 1362.7 | 1437.1 | 1660.4 | 1958.0 | 2110.8 | 2263.5 | 2518.0 | 2631.5 | 2674.6 |
| 12.5° | 983.0 | 1104.3 | 1429.3 | 1531.2 | 1852.3 | 2286.9 | 2471.0 | 2639.4 | 2929.2 | 3082.0 | 3105.4 |
| 15° | 888.9 | 1053.4 | 1492.0 | 1640.8 | 2055.9 | 2561.1 | 2764.7 | 2972.3 | 3242.5 | 3352.1 | 3379.6 |
| 17.5° | 806.7 | 1014.3 | 1550.8 | 1707.4 | 2212.5 | 2807.8 | 3015.4 | 3187.7 | 3406.9 | 3481.3 | 3501.0 |
| 20° | 704.8 | 951.6 | 1589.9 | 1793.5 | 2377.0 | 2987.9 | 3187.7 | 3320.8 | 3469.6 | 3516.6 | 3524.4 |
| 22.5° | 630.4 | 885.1 | 1613.4 | 1824.8 | 2486.7 | 3097.6 | 3265.9 | 3371.7 | 3473.5 | 3489.2 | 3493.1 |
| 25° | 567.8 | 810.7 | 1609.5 | 1860.1 | 2580.7 | 3164.2 | 3293.4 | 3371.7 | 3430.4 | 3438.2 | 3438.2 |
| 27.5° | 509.1 | 728.4 | 1593.8 | 1867.9 | 2651.2 | 3179.8 | 3281.6 | 3336.5 | 3363.8 | 3379.6 | 3379.6 |
| 30° | 458.1 | 650.1 | 1554.6 | 1852.3 | 2682.5 | 3164.2 | 3246.4 | 3273.8 | 3301.2 | 3324.7 | 3336.5 |
| 32.5° | 419.0 | 575.6 | 1495.9 | 1821.0 | 2686.4 | 3125.0 | 3183.7 | 3199.4 | 3238.6 | 3293.4 | 3313.0 |
| 35° | 383.7 | 501.2 | 1429.3 | 1777.9 | 2662.9 | 3062.3 | 3101.5 | 3117.1 | 3195.5 | 3277.7 | 3305.2 |
| 37.5° | 348.6 | 446.5 | 1343.2 | 1703.5 | 2627.7 | 2987.9 | 3015.4 | 3042.7 | 3164.2 | 3262.1 | 3293.4 |
| 40° | 313.3 | 399.4 | 1241.4 | 1621.2 | 2572.9 | 2897.9 | 2921.3 | 2964.4 | 3125.0 | 3238.6 | 3269.9 |
| 42.5° | 285.8 | 360.3 | 1131.8 | 1535.1 | 2502.3 | 2796.0 | 2831.3 | 2894.0 | 3078.0 | 3199.4 | 3234.6 |
| 45° | 262.4 | 321.1 | 1014.3 | 1417.6 | 2412.3 | 2690.3 | 2741.2 | 2827.4 | 3023.2 | 3140.7 | 3172.0 |
| 47.5° | 238.9 | 293.7 | 892.9 | 1296.3 | 2314.4 | 2584.6 | 2651.2 | 2749.0 | 2948.8 | 3062.3 | 3089.8 |
| 50° | 219.3 | 266.3 | 771.4 | 1167.0 | 2208.7 | 2471.0 | 2549.3 | 2651.2 | 2854.8 | 2960.5 | 2995.8 |
| 52.5° | 203.6 | 242.8 | 657.9 | 1037.8 | 2087.2 | 2353.5 | 2443.6 | 2549.3 | 2741.2 | 2843.1 | 2866.6 |
| 55° | 188.0 | 223.2 | 560.0 | 900.7 | 1962.0 | 2228.2 | 2326.1 | 2427.9 | 2615.9 | 2702.1 | 2717.7 |
| 57.5° | 180.1 | 207.6 | 477.8 | 771.4 | 1828.8 | 2087.2 | 2196.9 | 2290.9 | 2467.1 | 2533.6 | 2549.3 |
| 60° | 168.4 | 195.8 | 415.1 | 661.8 | 1683.8 | 1954.1 | 2048.1 | 2142.1 | 2290.9 | 2345.7 | 2357.5 |
| 62.5° | 156.6 | 188.0 | 368.1 | 556.0 | 1535.1 | 1797.5 | 1891.4 | 1977.6 | 2103.0 | 2142.1 | 2157.7 |
| 65° | 148.8 | 180.1 | 332.9 | 477.8 | 1382.4 | 1633.0 | 1726.9 | 1801.4 | 1903.2 | 1942.3 | 1950.2 |
| 67.5° | 141.0 | 172.3 | 305.5 | 411.2 | 1229.7 | 1468.5 | 1539.0 | 1609.5 | 1687.8 | 1726.9 | 1730.9 |
| 70° | 129.2 | 164.5 | 282.0 | 364.2 | 1073.0 | 1280.5 | 1339.3 | 1413.7 | 1476.4 | 1495.9 | 1507.7 |
| 72.5° | 121.4 | 152.7 | 266.3 | 328.9 | 912.4 | 1100.4 | 1155.3 | 1198.3 | 1253.2 | 1272.7 | 1272.7 |
| 75° | 109.7 | 137.0 | 250.7 | 293.7 | 747.9 | 900.7 | 947.7 | 990.8 | 1033.8 | 1041.6 | 1029.9 |
| 77.5° | 97.9 | 121.4 | 215.4 | 246.7 | 583.5 | 712.7 | 751.9 | 775.4 | 810.7 | 818.5 | 822.4 |
| 80° | 82.2 | 105.7 | 168.4 | 191.9 | 423.0 | 524.7 | 552.2 | 571.8 | 603.1 | 603.1 | 610.9 |
| 82.5° | 62.6 | 82.2 | 121.4 | 137.0 | 285.8 | 360.3 | 383.7 | 395.5 | 415.1 | 415.1 | 415.1 |
| 85° | 39.1 | 50.9 | 78.3 | 90.1 | 172.3 | 219.3 | 234.9 | 238.9 | 254.5 | 258.5 | 258.5 |
| 87.5° | 19.6 | 27.4 | 50.9 | 54.8 | 90.1 | 113.5 | 113.5 | 121.4 | 121.4 | 117.5 | 113.5 |
| 90° | 12.4 | 22.2 | 32.0 | 34.5 | 54.2 | 80.5 | 93.7 | 83.3 | 62.4 | 46.8 | 46.8 |
| 92.5° | 49.3 | 133.1 | 217.0 | 237.9 | 334.5 | 463.3 | 527.7 | 462.5 | 332.1 | 234.3 | 225.0 |
| 95° | 118.4 | 271.8 | 425.2 | 463.6 | 823.1 | 1302.6 | 1542.3 | 1376.3 | 1044.2 | 795.1 | 766.9 |
| 97.5° | 204.6 | 340.0 | 475.3 | 509.2 | 1108.7 | 1908.1 | 2307.9 | 2202.9 | 1993.1 | 1835.7 | 1782.1 |
| 100° | 271.2 | 393.9 | 516.6 | 547.4 | 1212.7 | 2099.8 | 2543.4 | 2551.1 | 2566.4 | 2577.9 | 2514.0 |
| 102.5° | 327.9 | 442.4 | 556.9 | 585.6 | 1260.4 | 2160.2 | 2610.0 | 2743.7 | 3011.0 | 3211.6 | 3156.8 |
| 105° | 424.1 | 521.1 | 618.1 | 642.3 | 1295.8 | 2167.0 | 2602.6 | 2902.3 | 3501.8 | 3951.3 | 3921.9 |
| 107.5° | 522.8 | 613.2 | 703.6 | 726.2 | 1302.3 | 2070.5 | 2454.6 | 2872.7 | 3708.9 | 4335.9 | 4343.1 |
| 110° | 589.3 | 671.0 | 752.6 | 773.0 | 1292.4 | 1985.0 | 2331.3 | 2798.7 | 3733.5 | 4434.5 | 4465.3 |



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CATALOG NUMBER: SQ4-FB-100U-100D-840-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

| | 0° | 10° | 20° | 22.5° | 30° | 40° | 45° | 50° | 60° | 67.5° | 70° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 654.6 | 732.5 | 810.3 | 829.7 | 1292.9 | 1910.4 | 2219.1 | 2697.5 | 3654.2 | 4371.7 | 4418.8 |
| 115° | 753.3 | 825.1 | 896.8 | 914.8 | 1304.8 | 1824.7 | 2084.8 | 2545.6 | 3467.2 | 4158.4 | 4223.7 |
| 117.5° | 850.7 | 915.9 | 981.1 | 997.4 | 1329.1 | 1771.2 | 1992.3 | 2408.2 | 3239.9 | 3863.8 | 3936.2 |
| 120° | 907.4 | 968.7 | 1030.2 | 1045.5 | 1348.8 | 1753.2 | 1955.4 | 2335.3 | 3095.3 | 3665.3 | 3735.7 |
| 122.5° | 962.9 | 1024.9 | 1086.7 | 1102.2 | 1377.2 | 1743.7 | 1927.0 | 2269.1 | 2953.5 | 3466.8 | 3536.2 |
| 125° | 1048.0 | 1104.4 | 1160.8 | 1174.9 | 1415.3 | 1735.9 | 1896.2 | 2186.8 | 2768.2 | 3204.2 | 3268.1 |
| 127.5° | 1116.9 | 1173.9 | 1230.9 | 1245.2 | 1453.5 | 1731.4 | 1870.3 | 2119.9 | 2619.0 | 2993.3 | 3047.3 |
| 130° | 1154.0 | 1215.3 | 1276.7 | 1292.0 | 1481.5 | 1734.1 | 1860.4 | 2082.6 | 2527.0 | 2860.3 | 2910.2 |
| 132.5° | 1192.2 | 1253.6 | 1314.9 | 1330.2 | 1504.0 | 1735.8 | 1851.7 | 2050.6 | 2448.5 | 2746.8 | 2791.5 |
| 135° | 1248.9 | 1304.8 | 1360.7 | 1374.6 | 1528.7 | 1734.2 | 1837.0 | 2003.6 | 2336.6 | 2586.5 | 2625.0 |
| 137.5° | 1306.8 | 1362.2 | 1417.5 | 1431.3 | 1565.7 | 1744.9 | 1834.5 | 1975.3 | 2257.0 | 2468.2 | 2499.7 |
| 140° | 1354.9 | 1405.9 | 1456.8 | 1469.6 | 1588.3 | 1746.7 | 1825.8 | 1947.4 | 2190.8 | 2373.3 | 2402.7 |
| 142.5° | 1391.9 | 1439.0 | 1486.1 | 1497.9 | 1607.2 | 1752.9 | 1825.8 | 1932.7 | 2146.4 | 2306.7 | 2332.0 |
| 145° | 1448.6 | 1489.7 | 1530.8 | 1541.1 | 1631.9 | 1753.0 | 1813.6 | 1900.9 | 2075.7 | 2206.8 | 2226.0 |
| 147.5° | 1505.3 | 1545.3 | 1585.3 | 1595.3 | 1668.0 | 1765.1 | 1813.6 | 1882.3 | 2019.9 | 2123.0 | 2138.9 |
| 150° | 1542.3 | 1578.4 | 1614.6 | 1623.7 | 1687.0 | 1771.4 | 1813.6 | 1871.7 | 1987.8 | 2074.9 | 2087.7 |
| 152.5° | 1580.5 | 1607.9 | 1635.3 | 1642.2 | 1699.3 | 1775.4 | 1813.6 | 1863.2 | 1962.3 | 2036.7 | 2046.3 |
| 155° | 1637.2 | 1657.5 | 1677.8 | 1682.9 | 1726.4 | 1784.5 | 1813.6 | 1853.0 | 1931.8 | 1991.0 | 1997.4 |
| 157.5° | 1679.1 | 1698.9 | 1718.6 | 1723.6 | 1753.6 | 1793.6 | 1813.6 | 1844.2 | 1905.6 | 1951.6 | 1956.1 |
| 160° | 1707.5 | 1722.9 | 1738.2 | 1742.0 | 1765.9 | 1797.7 | 1813.6 | 1839.9 | 1892.4 | 1931.8 | 1934.4 |
| 162.5° | 1735.8 | 1747.3 | 1758.8 | 1761.7 | 1779.0 | 1802.0 | 1813.6 | 1835.7 | 1880.1 | 1913.4 | 1915.8 |
| 165° | 1766.6 | 1777.0 | 1787.5 | 1790.1 | 1797.9 | 1808.3 | 1813.6 | 1829.5 | 1861.2 | 1885.0 | 1887.6 |
| 167.5° | 1795.0 | 1799.9 | 1804.9 | 1806.2 | 1812.7 | 1821.5 | 1825.8 | 1836.3 | 1857.1 | 1872.8 | 1873.8 |
| 170° | 1813.6 | 1818.5 | 1823.5 | 1824.6 | 1825.0 | 1825.5 | 1825.8 | 1836.3 | 1857.1 | 1872.8 | 1872.8 |
| 172.5° | 1823.4 | 1824.4 | 1825.5 | 1825.8 | 1825.8 | 1825.8 | 1825.8 | 1834.0 | 1850.5 | 1862.9 | 1861.9 |
| 175° | 1837.0 | 1837.0 | 1837.0 | 1837.0 | 1833.2 | 1828.3 | 1825.8 | 1831.1 | 1841.4 | 1849.2 | 1849.2 |
| 177.5° | 1837.0 | 1837.0 | 1837.0 | 1837.0 | 1834.1 | 1830.3 | 1828.3 | 1832.4 | 1840.6 | 1846.8 | 1845.7 |
| 180° | 1837.0 | 1837.0 | 1837.0 | 1837.0 | 1837.0 | 1837.0 | 1837.0 | 1837.0 | 1837.0 | 1837.0 | 1837.0 |



TEST NUMBER: P937617

CATALOG NUMBER: SQ4-FB-100U-100D-840-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

| | 80° | 90° |
|--------|--------|--------|
| 0° | 1217.9 | 1217.9 |
| 2.5° | 1300.1 | 1292.3 |
| 5° | 1672.2 | 1680.0 |
| 7.5° | 2251.8 | 2247.8 |
| 10° | 2800.0 | 2835.2 |
| 12.5° | 3199.4 | 3207.2 |
| 15° | 3442.2 | 3457.9 |
| 17.5° | 3536.2 | 3540.1 |
| 20° | 3540.1 | 3532.3 |
| 22.5° | 3497.0 | 3489.2 |
| 25° | 3446.1 | 3442.2 |
| 27.5° | 3399.1 | 3403.1 |
| 30° | 3379.6 | 3391.3 |
| 32.5° | 3379.6 | 3399.1 |
| 35° | 3387.4 | 3406.9 |
| 37.5° | 3383.4 | 3406.9 |
| 40° | 3367.8 | 3395.2 |
| 42.5° | 3324.7 | 3344.3 |
| 45° | 3258.1 | 3281.6 |
| 47.5° | 3172.0 | 3187.7 |
| 50° | 3062.3 | 3078.0 |
| 52.5° | 2925.3 | 2929.2 |
| 55° | 2760.8 | 2776.5 |
| 57.5° | 2584.6 | 2588.5 |
| 60° | 2388.8 | 2400.5 |
| 62.5° | 2181.2 | 2181.2 |
| 65° | 1962.0 | 1969.8 |
| 67.5° | 1734.8 | 1754.4 |
| 70° | 1503.7 | 1507.7 |
| 72.5° | 1276.6 | 1276.6 |
| 75° | 1041.6 | 1045.6 |
| 77.5° | 818.5 | 818.5 |
| 80° | 607.0 | 610.9 |
| 82.5° | 419.0 | 426.8 |
| 85° | 262.4 | 262.4 |
| 87.5° | 121.4 | 109.7 |
| 90° | 46.8 | 46.8 |
| 92.5° | 187.6 | 150.4 |
| 95° | 654.1 | 541.2 |
| 97.5° | 1567.3 | 1352.5 |
| 100° | 2258.1 | 2002.2 |
| 102.5° | 2937.6 | 2718.5 |
| 105° | 3804.0 | 3686.2 |
| 107.5° | 4371.6 | 4400.1 |
| 110° | 4588.0 | 4710.8 |



TEST NUMBER: P937617

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CANDELA DISTRIBUTION (continued):

| | 80° | 90° |
|--------|--------|--------|
| 112.5° | 4607.3 | 4795.9 |
| 115° | 4485.1 | 4746.5 |
| 117.5° | 4226.1 | 4516.0 |
| 120° | 4017.3 | 4299.0 |
| 122.5° | 3814.0 | 4091.8 |
| 125° | 3524.0 | 3779.9 |
| 127.5° | 3263.3 | 3479.1 |
| 130° | 3109.5 | 3309.0 |
| 132.5° | 2970.1 | 3148.8 |
| 135° | 2778.9 | 2933.0 |
| 137.5° | 2625.7 | 2751.8 |
| 140° | 2520.6 | 2638.4 |
| 142.5° | 2433.3 | 2534.7 |
| 145° | 2302.7 | 2379.4 |
| 147.5° | 2202.4 | 2266.0 |
| 150° | 2139.3 | 2190.8 |
| 152.5° | 2085.3 | 2124.2 |
| 155° | 2023.2 | 2049.0 |
| 157.5° | 1974.2 | 1992.3 |
| 160° | 1944.9 | 1955.4 |
| 162.5° | 1925.7 | 1935.6 |
| 165° | 1898.0 | 1908.4 |
| 167.5° | 1878.2 | 1882.5 |
| 170° | 1872.8 | 1872.8 |
| 172.5° | 1858.0 | 1854.2 |
| 175° | 1849.2 | 1849.2 |
| 177.5° | 1841.3 | 1837.0 |
| 180° | 1837.0 | 1837.0 |



TEST NUMBER: P937617
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CIE UGR TABLE:

| Reflectances: | | | | | | | | | | | |
|-----------------|------|------------------|-------|-------|-------|-------|----------------|-------|-------|-------|-------|
| Ceiling | | 0.7 | 0.7 | 0.5 | 0.5 | 0.3 | 0.7 | 0.7 | 0.5 | 0.5 | 0.3 |
| Wall | | 0.5 | 0.3 | 0.5 | 0.3 | 0.3 | 0.5 | 0.3 | 0.5 | 0.3 | 0.3 |
| Reference plane | | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| Room dimensions | | Viewed crosswise | | | | | Viewed endwise | | | | |
| X=2H | Y=2H | 5.06 | 5.91 | 6.06 | 6.92 | 8.27 | 18.26 | 19.10 | 19.25 | 20.11 | 21.46 |
| | 3H | 5.77 | 6.53 | 6.78 | 7.55 | 8.92 | 20.10 | 20.86 | 21.11 | 21.88 | 23.25 |
| | 4H | 6.06 | 6.78 | 7.09 | 7.81 | 9.19 | 20.75 | 21.47 | 21.77 | 22.49 | 23.87 |
| | 6H | 6.31 | 6.98 | 7.35 | 8.01 | 9.40 | 21.18 | 21.84 | 22.21 | 22.87 | 24.26 |
| | 8H | 6.38 | 7.01 | 7.42 | 8.06 | 9.45 | 21.30 | 21.94 | 22.34 | 22.98 | 24.37 |
| | 12H | 6.40 | 7.00 | 7.44 | 8.04 | 9.45 | 21.37 | 21.97 | 22.42 | 23.02 | 24.43 |
| 4H | 2H | 12.28 | 13.00 | 13.31 | 14.03 | 15.41 | 18.53 | 19.25 | 19.55 | 20.27 | 21.65 |
| | 3H | 13.85 | 14.45 | 14.89 | 15.51 | 16.90 | 20.58 | 21.18 | 21.61 | 22.23 | 23.62 |
| | 4H | 13.94 | 14.50 | 14.99 | 15.54 | 16.95 | 21.35 | 21.90 | 22.39 | 22.94 | 24.36 |
| | 6H | 13.95 | 14.43 | 15.01 | 15.50 | 16.91 | 21.89 | 22.36 | 22.94 | 23.43 | 24.84 |
| | 8H | 13.93 | 14.37 | 14.98 | 15.44 | 16.86 | 22.05 | 22.50 | 23.11 | 23.56 | 24.98 |
| | 12H | 13.88 | 14.29 | 14.96 | 15.36 | 16.79 | 22.15 | 22.55 | 23.22 | 23.63 | 25.06 |
| 8H | 4H | 15.39 | 15.84 | 16.45 | 16.90 | 18.32 | 21.40 | 21.85 | 22.46 | 22.91 | 24.33 |
| | 6H | 15.63 | 16.00 | 16.71 | 17.10 | 18.52 | 22.04 | 22.41 | 23.12 | 23.51 | 24.93 |
| | 8H | 15.65 | 15.97 | 16.74 | 17.06 | 18.50 | 22.26 | 22.58 | 23.35 | 23.67 | 25.11 |
| | 12H | 15.62 | 15.90 | 16.71 | 16.98 | 18.46 | 22.41 | 22.69 | 23.50 | 23.77 | 25.25 |
| 12H | 4H | 15.53 | 15.94 | 16.61 | 17.01 | 18.44 | 21.36 | 21.76 | 22.43 | 22.83 | 24.26 |
| | 6H | 15.89 | 16.22 | 16.98 | 17.30 | 18.74 | 22.02 | 22.34 | 23.11 | 23.43 | 24.87 |
| | 8H | 15.96 | 16.25 | 17.05 | 17.33 | 18.81 | 22.25 | 22.54 | 23.34 | 23.62 | 25.10 |