

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: P937529

Luminaire Tested: SQ4-FB-100U-075D-92765-1D-UNV-STD-W-12-5000K

Issue Date: 12/17/2024

**Test Information**

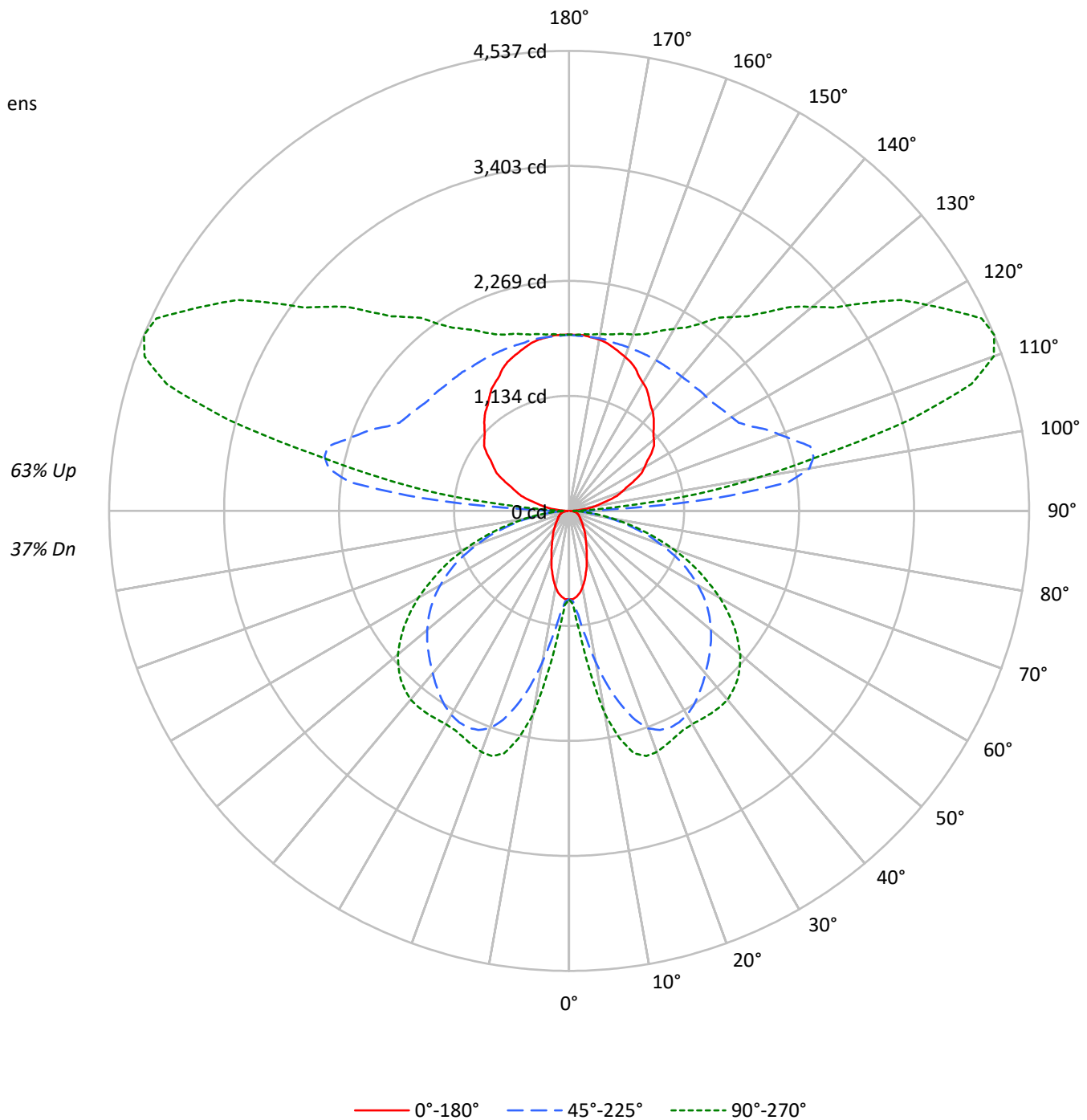
Test Method: LM-79-2019  
Report Number: P937529  
REPORT IS A COMBINATION OF REPORTS P933558 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FB-100U-075D-92765-1D-UNV-STD-W-12-5000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18019.3 lumens  
Efficiency: N/A  
Efficacy: 122.1 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: Semi-Indirect  
  
Input Watts (W): 147.6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: P937529  
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### Luminous Intensity Polar Plot





TEST NUMBER: P937529

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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| RF  | 20  |     |     |     | 20 |    |    |    | 20 |    |    |    | 20 |    |    |    | 20 |    |    |    |    |
| RC  | 80  |     |     |     | 70 |    |    |    | 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   | 104 | 104 | 104 | 104 | 94 | 94 | 94 | 94 | 76 | 76 | 76 | 60 | 60 | 60 | 45 | 45 | 45 | 37 |    |    | 37 |
| 1   | 95  | 90  | 86  | 83  | 86 | 82 | 78 | 75 | 66 | 64 | 62 | 52 | 50 | 49 | 39 | 38 | 37 | 31 |    |    | 31 |
| 2   | 86  | 78  | 72  | 67  | 77 | 71 | 66 | 61 | 58 | 54 | 50 | 45 | 42 | 40 | 34 | 32 | 30 | 25 |    |    | 25 |
| 3   | 78  | 68  | 61  | 55  | 70 | 62 | 56 | 50 | 50 | 46 | 42 | 39 | 36 | 33 | 29 | 27 | 25 | 21 |    |    | 21 |
| 4   | 71  | 60  | 52  | 46  | 64 | 55 | 48 | 42 | 44 | 39 | 35 | 35 | 31 | 28 | 26 | 23 | 21 | 17 |    |    | 17 |
| 5   | 65  | 53  | 45  | 39  | 58 | 48 | 41 | 36 | 39 | 34 | 30 | 31 | 27 | 24 | 23 | 20 | 18 | 15 |    |    | 15 |
| 6   | 60  | 47  | 39  | 33  | 54 | 43 | 36 | 31 | 35 | 30 | 26 | 28 | 24 | 21 | 21 | 18 | 16 | 13 |    |    | 13 |
| 7   | 55  | 42  | 34  | 29  | 49 | 39 | 32 | 27 | 32 | 26 | 22 | 25 | 21 | 18 | 19 | 16 | 14 | 11 |    |    | 11 |
| 8   | 51  | 38  | 31  | 25  | 46 | 35 | 28 | 23 | 29 | 23 | 20 | 23 | 19 | 16 | 17 | 14 | 12 | 10 |    |    | 10 |
| 9   | 47  | 35  | 27  | 22  | 42 | 32 | 25 | 21 | 26 | 21 | 17 | 21 | 17 | 14 | 16 | 13 | 11 | 9  |    |    | 9  |
| 10  | 44  | 32  | 24  | 20  | 40 | 29 | 23 | 18 | 24 | 19 | 15 | 19 | 15 | 12 | 14 | 12 | 10 | 8  |    |    | 8  |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 2697 | 2697 | 2697 |
| 5°  | 2636 | 3118 | 3626 |
| 10° | 2392 | 4547 | 6011 |
| 15° | 2034 | 5942 | 7258 |
| 20° | 1656 | 6887 | 7397 |
| 25° | 1382 | 7209 | 7247 |
| 30° | 1166 | 7257 | 7233 |
| 35° | 1032 | 7138 | 7421 |
| 40° | 899  | 6984 | 7614 |
| 45° | 815  | 6871 | 7643 |
| 50° | 748  | 6770 | 7517 |
| 55° | 717  | 6621 | 7184 |
| 60° | 735  | 6333 | 6658 |
| 65° | 766  | 5895 | 5935 |
| 70° | 818  | 5144 | 5014 |
| 75° | 910  | 4198 | 3912 |
| 80° | 1002 | 2915 | 2636 |
| 85° | 907  | 1549 | 1349 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 7643 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 112.8   | 0.6       |
| 10°-20°   | 500.0   | 2.8       |
| 20°-30°   | 874.6   | 4.9       |
| 30°-40°   | 1125.8  | 6.2       |
| 40°-50°   | 1257.5  | 7.0       |
| 50°-60°   | 1204.4  | 6.7       |
| 60°-70°   | 954.5   | 5.3       |
| 70°-80°   | 561.2   | 3.1       |
| 80°-90°   | 162.5   | 0.9       |
| 90°-100°  | 847.1   | 4.7       |
| 100°-110° | 2227.2  | 12.4      |
| 110°-120° | 2309.3  | 12.8      |
| 120°-130° | 1852.4  | 10.3      |
| 130°-140° | 1453.4  | 8.1       |
| 140°-150° | 1115.6  | 6.2       |
| 150°-160° | 803.4   | 4.5       |
| 160°-170° | 491.6   | 2.7       |
| 170°-180° | 166.1   | 0.9       |
| 0°-30°    | 1487.4  | 8.3       |
| 0°-40°    | 2613.2  | 14.5      |
| 0°-60°    | 5075.0  | 28.2      |
| 0°-90°    | 6753.3  | 37.5      |
| 90°-120°  | 5383.6  | 29.9      |
| 90°-150°  | 9804.9  | 54.4      |
| 90°-180°  | 11266.0 | 62.5      |
| 0°-180°   | 18019.3 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 872  | 872   | 872  | 872   | 872  |      |
| 5°   | 850  | 911   | 1026 | 1161  | 1203 | 78   |
| 15°  | 636  | 1175  | 1980 | 2400  | 2476 | 177  |
| 25°  | 407  | 1332  | 2358 | 2462  | 2465 | 187  |
| 35°  | 275  | 1273  | 2221 | 2347  | 2440 | 172  |
| 45°  | 188  | 1015  | 1963 | 2249  | 2350 | 145  |
| 55°  | 135  | 645   | 1666 | 1935  | 1988 | 123  |
| 65°  | 107  | 342   | 1237 | 1391  | 1411 | 106  |
| 75°  | 78   | 210   | 679  | 746   | 749  | 82   |
| 85°  | 28   | 64    | 168  | 185   | 188  | 30   |
| 90°  | 12   | 33    | 89   | 44    | 44   | 12   |
| 95°  | 112  | 439   | 1459 | 752   | 512  | 124  |
| 105° | 401  | 608   | 2462 | 3738  | 3487 | 425  |
| 115° | 713  | 865   | 1972 | 3934  | 4490 | 704  |
| 125° | 991  | 1112  | 1794 | 3031  | 3576 | 880  |
| 135° | 1182 | 1300  | 1738 | 2447  | 2775 | 914  |
| 145° | 1370 | 1458  | 1716 | 2088  | 2251 | 859  |
| 155° | 1549 | 1592  | 1716 | 1884  | 1938 | 712  |
| 165° | 1671 | 1694  | 1716 | 1783  | 1806 | 472  |
| 175° | 1738 | 1738  | 1727 | 1750  | 1750 | 165  |
| 180° | 1738 | 1738  | 1738 | 1738  | 1738 |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 10°   | 20°    | 22.5°  | 30°    | 40°    | 45°    | 50°    | 60°    | 67.5°  | 70°    |
|--------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 872.1 | 872.1 | 872.1  | 872.1  | 872.1  | 872.1  | 872.1  | 872.1  | 872.1  | 872.1  | 872.1  |
| 2.5°   | 872.1 | 872.1 | 877.7  | 880.5  | 886.1  | 888.9  | 894.5  | 900.1  | 916.9  | 919.8  | 925.4  |
| 5°     | 849.6 | 860.9 | 897.3  | 911.3  | 950.6  | 1003.9 | 1026.3 | 1062.9 | 1138.6 | 1161.0 | 1175.0 |
| 7.5°   | 816.0 | 841.2 | 931.0  | 953.4  | 1051.5 | 1191.8 | 1250.7 | 1329.2 | 1449.8 | 1508.7 | 1556.4 |
| 10°    | 762.7 | 816.0 | 975.8  | 1029.1 | 1189.0 | 1402.2 | 1511.5 | 1620.9 | 1803.1 | 1884.5 | 1915.3 |
| 12.5°  | 703.8 | 790.8 | 1023.5 | 1096.5 | 1326.4 | 1637.7 | 1769.5 | 1890.1 | 2097.6 | 2206.9 | 2223.8 |
| 15°    | 636.5 | 754.3 | 1068.5 | 1175.0 | 1472.3 | 1834.0 | 1979.8 | 2128.4 | 2321.9 | 2400.4 | 2420.0 |
| 17.5°  | 577.6 | 726.3 | 1110.5 | 1222.7 | 1584.4 | 2010.6 | 2159.3 | 2282.6 | 2439.7 | 2493.0 | 2507.0 |
| 20°    | 504.7 | 681.4 | 1138.6 | 1284.4 | 1702.2 | 2139.6 | 2282.6 | 2378.0 | 2484.5 | 2518.2 | 2523.8 |
| 22.5°  | 451.5 | 633.7 | 1155.4 | 1306.8 | 1780.7 | 2218.2 | 2338.7 | 2414.4 | 2487.3 | 2498.6 | 2501.4 |
| 25°    | 406.6 | 580.5 | 1152.6 | 1332.0 | 1848.0 | 2265.8 | 2358.4 | 2414.4 | 2456.5 | 2462.1 | 2462.1 |
| 27.5°  | 364.5 | 521.6 | 1141.4 | 1337.7 | 1898.5 | 2277.0 | 2349.9 | 2389.2 | 2408.8 | 2420.0 | 2420.0 |
| 30°    | 328.1 | 465.5 | 1113.3 | 1326.4 | 1920.9 | 2265.8 | 2324.7 | 2344.3 | 2364.0 | 2380.8 | 2389.2 |
| 32.5°  | 300.0 | 412.2 | 1071.3 | 1304.0 | 1923.7 | 2237.8 | 2279.8 | 2291.1 | 2319.1 | 2358.4 | 2372.4 |
| 35°    | 274.8 | 358.9 | 1023.5 | 1273.2 | 1906.9 | 2192.9 | 2221.0 | 2232.2 | 2288.3 | 2347.1 | 2366.8 |
| 37.5°  | 249.6 | 319.7 | 961.8  | 1219.9 | 1881.7 | 2139.6 | 2159.3 | 2178.9 | 2265.8 | 2335.9 | 2358.4 |
| 40°    | 224.3 | 286.0 | 888.9  | 1161.0 | 1842.4 | 2075.1 | 2092.0 | 2122.8 | 2237.8 | 2319.1 | 2341.5 |
| 42.5°  | 204.7 | 258.0 | 810.4  | 1099.3 | 1791.9 | 2002.2 | 2027.5 | 2072.3 | 2204.1 | 2291.1 | 2316.3 |
| 45°    | 187.9 | 229.9 | 726.3  | 1015.1 | 1727.4 | 1926.5 | 1963.0 | 2024.7 | 2164.9 | 2249.0 | 2271.4 |
| 47.5°  | 171.1 | 210.3 | 639.3  | 928.2  | 1657.3 | 1850.8 | 1898.5 | 1968.6 | 2111.6 | 2192.9 | 2212.5 |
| 50°    | 157.0 | 190.7 | 552.4  | 835.6  | 1581.6 | 1769.5 | 1825.6 | 1898.5 | 2044.3 | 2120.0 | 2145.2 |
| 52.5°  | 145.8 | 173.9 | 471.1  | 743.1  | 1494.7 | 1685.4 | 1749.9 | 1825.6 | 1963.0 | 2035.9 | 2052.7 |
| 55°    | 134.6 | 159.8 | 401.0  | 644.9  | 1405.0 | 1595.6 | 1665.7 | 1738.6 | 1873.2 | 1934.9 | 1946.2 |
| 57.5°  | 129.0 | 148.6 | 342.1  | 552.4  | 1309.6 | 1494.7 | 1573.2 | 1640.5 | 1766.7 | 1814.4 | 1825.6 |
| 60°    | 120.6 | 140.2 | 297.2  | 473.9  | 1205.9 | 1399.3 | 1466.6 | 1533.9 | 1640.5 | 1679.8 | 1688.2 |
| 62.5°  | 112.2 | 134.6 | 263.6  | 398.2  | 1099.3 | 1287.2 | 1354.5 | 1416.2 | 1505.9 | 1533.9 | 1545.2 |
| 65°    | 106.6 | 129.0 | 238.4  | 342.1  | 989.9  | 1169.4 | 1236.7 | 1290.0 | 1362.9 | 1390.9 | 1396.5 |
| 67.5°  | 100.9 | 123.4 | 218.7  | 294.4  | 880.5  | 1051.5 | 1102.1 | 1152.6 | 1208.7 | 1236.7 | 1239.5 |
| 70°    | 92.5  | 117.8 | 201.9  | 260.8  | 768.3  | 916.9  | 959.0  | 1012.3 | 1057.2 | 1071.3 | 1079.7 |
| 72.5°  | 86.9  | 109.4 | 190.7  | 235.5  | 653.4  | 788.0  | 827.2  | 858.1  | 897.3  | 911.3  | 911.3  |
| 75°    | 78.5  | 98.1  | 179.5  | 210.3  | 535.6  | 644.9  | 678.6  | 709.4  | 740.3  | 745.9  | 737.5  |
| 77.5°  | 70.1  | 86.9  | 154.2  | 176.7  | 417.8  | 510.3  | 538.4  | 555.2  | 580.5  | 586.1  | 588.9  |
| 80°    | 58.9  | 75.7  | 120.6  | 137.4  | 302.8  | 375.8  | 395.4  | 409.4  | 431.8  | 431.8  | 437.4  |
| 82.5°  | 44.9  | 58.9  | 86.9   | 98.1   | 204.7  | 258.0  | 274.8  | 283.2  | 297.2  | 297.2  | 297.2  |
| 85°    | 28.0  | 36.5  | 56.1   | 64.5   | 123.4  | 157.0  | 168.2  | 171.1  | 182.3  | 185.1  | 185.1  |
| 87.5°  | 14.0  | 19.6  | 36.5   | 39.3   | 64.5   | 81.3   | 81.3   | 86.9   | 86.9   | 84.1   | 81.3   |
| 90°    | 11.7  | 21.0  | 30.3   | 32.6   | 51.3   | 76.2   | 88.6   | 78.8   | 59.1   | 44.3   | 44.3   |
| 92.5°  | 46.6  | 125.9 | 205.3  | 225.1  | 316.5  | 438.3  | 499.2  | 437.5  | 314.2  | 221.6  | 212.8  |
| 95°    | 112.0 | 257.1 | 402.3  | 438.6  | 778.7  | 1232.3 | 1459.1 | 1302.0 | 987.9  | 752.3  | 725.5  |
| 97.5°  | 193.6 | 321.6 | 449.7  | 481.7  | 1048.9 | 1805.2 | 2183.4 | 2084.1 | 1885.6 | 1736.7 | 1685.9 |
| 100°   | 256.6 | 372.7 | 488.8  | 517.8  | 1147.3 | 1986.5 | 2406.2 | 2413.5 | 2428.0 | 2438.8 | 2378.4 |
| 102.5° | 310.2 | 418.6 | 526.9  | 554.0  | 1192.4 | 2043.6 | 2469.2 | 2595.7 | 2848.6 | 3038.4 | 2986.5 |
| 105°   | 401.3 | 493.0 | 584.8  | 607.7  | 1225.9 | 2050.1 | 2462.2 | 2745.8 | 3312.9 | 3738.2 | 3710.3 |
| 107.5° | 494.6 | 580.1 | 665.6  | 687.0  | 1232.0 | 1958.8 | 2322.2 | 2717.8 | 3508.8 | 4102.1 | 4108.8 |
| 110°   | 557.6 | 634.8 | 712.0  | 731.3  | 1222.7 | 1877.9 | 2205.5 | 2647.7 | 3532.1 | 4195.3 | 4224.4 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 10°    | 20°    | 22.5°  | 30°    | 40°    | 45°    | 50°    | 60°    | 67.5°  | 70°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 619.3  | 693.0  | 766.6  | 785.0  | 1223.2 | 1807.3 | 2099.4 | 2552.0 | 3457.1 | 4135.9 | 4180.5 |
| 115°   | 712.6  | 780.6  | 848.4  | 865.4  | 1234.4 | 1726.3 | 1972.3 | 2408.3 | 3280.2 | 3934.1 | 3995.9 |
| 117.5° | 804.8  | 866.5  | 928.2  | 943.6  | 1257.4 | 1675.6 | 1884.8 | 2278.3 | 3065.2 | 3655.4 | 3723.9 |
| 120°   | 858.4  | 916.5  | 974.6  | 989.1  | 1276.1 | 1658.6 | 1849.9 | 2209.4 | 2928.3 | 3467.6 | 3534.2 |
| 122.5° | 911.0  | 969.6  | 1028.1 | 1042.8 | 1302.9 | 1649.7 | 1823.1 | 2146.7 | 2794.2 | 3279.8 | 3345.5 |
| 125°   | 991.4  | 1044.8 | 1098.2 | 1111.6 | 1339.0 | 1642.3 | 1793.9 | 2068.9 | 2618.9 | 3031.3 | 3091.8 |
| 127.5° | 1056.7 | 1110.6 | 1164.6 | 1178.0 | 1375.1 | 1638.0 | 1769.4 | 2005.5 | 2477.7 | 2831.9 | 2882.9 |
| 130°   | 1091.7 | 1149.8 | 1207.8 | 1222.3 | 1401.6 | 1640.6 | 1760.1 | 1970.3 | 2390.7 | 2706.0 | 2753.2 |
| 132.5° | 1127.9 | 1186.0 | 1244.0 | 1258.5 | 1422.9 | 1642.2 | 1751.8 | 1940.0 | 2316.4 | 2598.7 | 2640.9 |
| 135°   | 1181.6 | 1234.4 | 1287.3 | 1300.5 | 1446.3 | 1640.7 | 1737.9 | 1895.5 | 2210.6 | 2447.0 | 2483.4 |
| 137.5° | 1236.3 | 1288.7 | 1341.0 | 1354.1 | 1481.2 | 1650.8 | 1735.6 | 1868.8 | 2135.2 | 2335.1 | 2364.9 |
| 140°   | 1281.9 | 1330.1 | 1378.2 | 1390.3 | 1502.6 | 1652.5 | 1727.3 | 1842.4 | 2072.6 | 2245.3 | 2273.1 |
| 142.5° | 1316.8 | 1361.4 | 1406.0 | 1417.1 | 1520.5 | 1658.4 | 1727.3 | 1828.5 | 2030.6 | 2182.3 | 2206.2 |
| 145°   | 1370.5 | 1409.3 | 1448.2 | 1458.0 | 1543.9 | 1658.4 | 1715.7 | 1798.4 | 1963.7 | 2087.8 | 2105.9 |
| 147.5° | 1424.1 | 1462.0 | 1499.8 | 1509.3 | 1578.1 | 1669.9 | 1715.7 | 1780.8 | 1910.9 | 2008.5 | 2023.5 |
| 150°   | 1459.1 | 1493.3 | 1527.5 | 1536.1 | 1596.0 | 1675.8 | 1715.7 | 1770.7 | 1880.5 | 1963.0 | 1975.1 |
| 152.5° | 1495.2 | 1521.1 | 1547.1 | 1553.6 | 1607.6 | 1679.7 | 1715.7 | 1762.7 | 1856.4 | 1926.8 | 1936.0 |
| 155°   | 1548.9 | 1568.1 | 1587.3 | 1592.1 | 1633.3 | 1688.3 | 1715.7 | 1753.0 | 1827.6 | 1883.6 | 1889.7 |
| 157.5° | 1588.5 | 1607.2 | 1625.9 | 1630.6 | 1659.0 | 1696.9 | 1715.7 | 1744.7 | 1802.8 | 1846.3 | 1850.6 |
| 160°   | 1615.4 | 1629.9 | 1644.4 | 1648.1 | 1670.6 | 1700.7 | 1715.7 | 1740.6 | 1790.3 | 1827.6 | 1830.1 |
| 162.5° | 1642.2 | 1653.0 | 1664.0 | 1666.7 | 1683.0 | 1704.8 | 1715.7 | 1736.7 | 1778.7 | 1810.2 | 1812.5 |
| 165°   | 1671.3 | 1681.2 | 1691.1 | 1693.5 | 1700.9 | 1710.8 | 1715.7 | 1730.8 | 1760.8 | 1783.3 | 1785.8 |
| 167.5° | 1698.2 | 1702.8 | 1707.5 | 1708.7 | 1714.9 | 1723.2 | 1727.3 | 1737.2 | 1757.0 | 1771.7 | 1772.8 |
| 170°   | 1715.7 | 1720.4 | 1725.1 | 1726.2 | 1726.6 | 1727.1 | 1727.3 | 1737.2 | 1757.0 | 1771.7 | 1771.7 |
| 172.5° | 1725.0 | 1726.0 | 1727.1 | 1727.3 | 1727.3 | 1727.3 | 1727.3 | 1735.1 | 1750.7 | 1762.4 | 1761.5 |
| 175°   | 1737.9 | 1737.9 | 1737.9 | 1737.9 | 1734.3 | 1729.7 | 1727.3 | 1732.3 | 1742.1 | 1749.5 | 1749.5 |
| 177.5° | 1737.9 | 1737.9 | 1737.9 | 1737.9 | 1735.2 | 1731.5 | 1729.7 | 1733.6 | 1741.4 | 1747.2 | 1746.1 |
| 180°   | 1737.9 | 1737.9 | 1737.9 | 1737.9 | 1737.9 | 1737.9 | 1737.9 | 1737.9 | 1737.9 | 1737.9 | 1737.9 |



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CATALOG NUMBER: SQ4-FB-100U-075D-92765-1D-UNV-STD-W-12-5000K

**CANDELA DISTRIBUTION (continued):**

|        | 80°    | 90°    |
|--------|--------|--------|
| 0°     | 872.1  | 872.1  |
| 2.5°   | 931.0  | 925.4  |
| 5°     | 1197.5 | 1203.1 |
| 7.5°   | 1612.5 | 1609.7 |
| 10°    | 2005.0 | 2030.3 |
| 12.5°  | 2291.1 | 2296.7 |
| 15°    | 2464.9 | 2476.1 |
| 17.5°  | 2532.2 | 2535.0 |
| 20°    | 2535.0 | 2529.4 |
| 22.5°  | 2504.2 | 2498.6 |
| 25°    | 2467.7 | 2464.9 |
| 27.5°  | 2434.1 | 2436.9 |
| 30°    | 2420.0 | 2428.5 |
| 32.5°  | 2420.0 | 2434.1 |
| 35°    | 2425.7 | 2439.7 |
| 37.5°  | 2422.9 | 2439.7 |
| 40°    | 2411.6 | 2431.3 |
| 42.5°  | 2380.8 | 2394.8 |
| 45°    | 2333.1 | 2349.9 |
| 47.5°  | 2271.4 | 2282.6 |
| 50°    | 2192.9 | 2204.1 |
| 52.5°  | 2094.8 | 2097.6 |
| 55°    | 1977.0 | 1988.2 |
| 57.5°  | 1850.8 | 1853.6 |
| 60°    | 1710.6 | 1719.0 |
| 62.5°  | 1562.0 | 1562.0 |
| 65°    | 1405.0 | 1410.6 |
| 67.5°  | 1242.3 | 1256.3 |
| 70°    | 1076.9 | 1079.7 |
| 72.5°  | 914.1  | 914.1  |
| 75°    | 745.9  | 748.7  |
| 77.5°  | 586.1  | 586.1  |
| 80°    | 434.6  | 437.4  |
| 82.5°  | 300.0  | 305.6  |
| 85°    | 187.9  | 187.9  |
| 87.5°  | 86.9   | 78.5   |
| 90°    | 44.3   | 44.3   |
| 92.5°  | 177.5  | 142.3  |
| 95°    | 618.8  | 512.0  |
| 97.5°  | 1482.7 | 1279.5 |
| 100°   | 2136.3 | 1894.2 |
| 102.5° | 2779.2 | 2571.8 |
| 105°   | 3598.8 | 3487.4 |
| 107.5° | 4135.8 | 4162.7 |
| 110°   | 4340.5 | 4456.7 |





TEST NUMBER: P937529

CATALOG NUMBER: SQ4-FB-100U-075D-92765-1D-UNV-STD-W-12-5000K

**CANDELA DISTRIBUTION (continued):**

|        | 80°    | 90°    |
|--------|--------|--------|
| 112.5° | 4358.8 | 4537.2 |
| 115°   | 4243.2 | 4490.4 |
| 117.5° | 3998.1 | 4272.4 |
| 120°   | 3800.6 | 4067.1 |
| 122.5° | 3608.2 | 3871.1 |
| 125°   | 3333.9 | 3576.0 |
| 127.5° | 3087.2 | 3291.5 |
| 130°   | 2941.8 | 3130.5 |
| 132.5° | 2809.9 | 2978.9 |
| 135°   | 2629.0 | 2774.8 |
| 137.5° | 2484.1 | 2603.3 |
| 140°   | 2384.6 | 2496.0 |
| 142.5° | 2302.1 | 2398.0 |
| 145°   | 2178.5 | 2251.1 |
| 147.5° | 2083.6 | 2143.7 |
| 150°   | 2023.9 | 2072.6 |
| 152.5° | 1972.8 | 2009.6 |
| 155°   | 1914.1 | 1938.5 |
| 157.5° | 1867.7 | 1884.8 |
| 160°   | 1840.0 | 1849.9 |
| 162.5° | 1821.8 | 1831.2 |
| 165°   | 1795.7 | 1805.5 |
| 167.5° | 1776.9 | 1781.0 |
| 170°   | 1771.7 | 1771.7 |
| 172.5° | 1757.8 | 1754.2 |
| 175°   | 1749.5 | 1749.5 |
| 177.5° | 1742.0 | 1737.9 |
| 180°   | 1737.9 | 1737.9 |



TEST NUMBER: P937529  
 CATALOG NUMBER: SQ4-FB-100U-075D-92765-1D-UNV-STD-W-12-5000K

**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 | 3.19             | 3.98  | 4.24  | 5.04  | 6.47  | 16.38          | 17.17 | 17.43 | 18.23 | 19.66 |
|                 | 3H   | 3.89             | 4.59  | 4.95  | 5.66  | 7.12  | 18.22          | 18.93 | 19.28 | 20.00 | 21.45 |
|                 | 4H   | 4.18             | 4.85  | 5.26  | 5.92  | 7.39  | 18.87          | 19.54 | 19.94 | 20.61 | 22.07 |
|                 | 6H   | 4.43             | 5.05  | 5.51  | 6.12  | 7.60  | 19.30          | 19.91 | 20.38 | 20.99 | 22.46 |
|                 | 8H   | 4.50             | 5.08  | 5.58  | 6.17  | 7.64  | 19.42          | 20.01 | 20.50 | 21.10 | 22.56 |
|                 | 12H  | 4.51             | 5.07  | 5.60  | 6.15  | 7.65  | 19.49          | 20.04 | 20.58 | 21.13 | 22.62 |
| 4H              | 2H   | 10.40            | 11.07 | 11.48 | 12.14 | 13.61 | 16.65          | 17.32 | 17.73 | 18.39 | 19.85 |
|                 | 3H   | 11.96            | 12.52 | 13.05 | 13.62 | 15.10 | 18.69          | 19.25 | 19.78 | 20.35 | 21.82 |
|                 | 4H   | 12.06            | 12.57 | 13.15 | 13.66 | 15.15 | 19.46          | 19.97 | 20.55 | 21.06 | 22.56 |
|                 | 6H   | 12.06            | 12.50 | 13.16 | 13.61 | 15.10 | 20.00          | 20.44 | 21.10 | 21.55 | 23.04 |
|                 | 8H   | 12.04            | 12.45 | 13.14 | 13.55 | 15.06 | 20.16          | 20.57 | 21.26 | 21.68 | 23.18 |
|                 | 12H  | 11.99            | 12.36 | 13.11 | 13.48 | 14.99 | 20.25          | 20.63 | 21.37 | 21.74 | 23.25 |
| 8H              | 4H   | 13.50            | 13.91 | 14.60 | 15.01 | 16.52 | 19.51          | 19.92 | 20.61 | 21.03 | 22.53 |
|                 | 6H   | 13.74            | 14.08 | 14.86 | 15.22 | 16.72 | 20.14          | 20.48 | 21.26 | 21.63 | 23.13 |
|                 | 8H   | 13.75            | 14.05 | 14.88 | 15.18 | 16.70 | 20.36          | 20.66 | 21.49 | 21.79 | 23.31 |
|                 | 12H  | 13.72            | 13.98 | 14.85 | 15.10 | 16.66 | 20.51          | 20.77 | 21.64 | 21.89 | 23.45 |
| 12H             | 4H   | 13.64            | 14.01 | 14.76 | 15.13 | 16.64 | 19.46          | 19.83 | 20.58 | 20.95 | 22.46 |
|                 | 6H   | 13.99            | 14.29 | 15.12 | 15.42 | 16.94 | 20.12          | 20.42 | 21.25 | 21.55 | 23.07 |
|                 | 8H   | 14.06            | 14.32 | 15.19 | 15.45 | 17.01 | 20.35          | 20.62 | 21.49 | 21.74 | 23.30 |