

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: P938378

Luminaire Tested: SQ4-FB-150U-075D-B2750-1D-UNV-W2A-W-12-3000K

Issue Date: 12/17/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P938378  
REPORT IS A COMBINATION OF REPORTS P933622 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FB-150U-075D-B2750-1D-UNV-W2A-W-12-3000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L  
Light Source: -  
Ballast/Driver: -

**Summary**

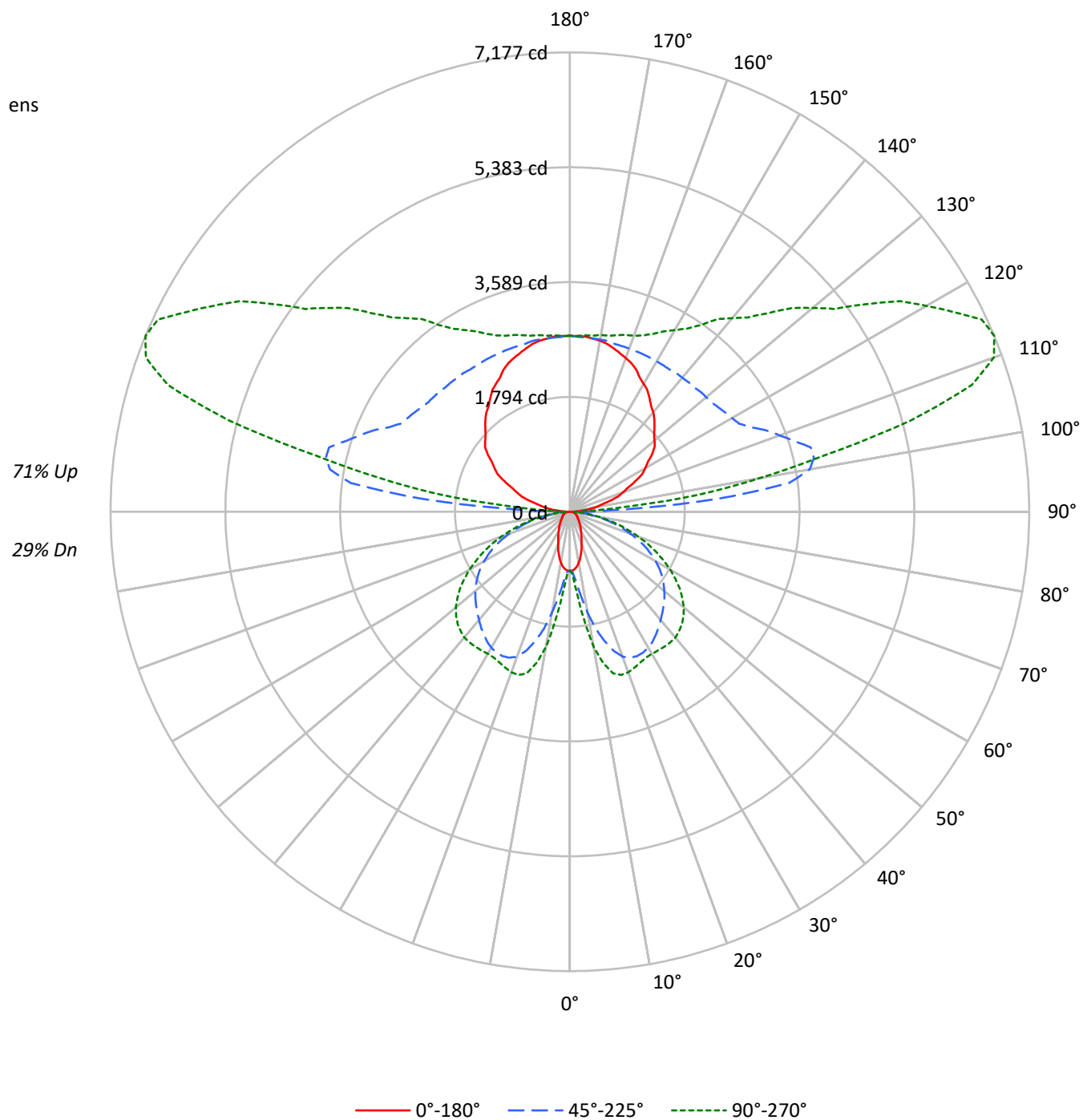
Lumens per Lamp: N/A  
Luminaire Lumens: 24947.7 lumens  
Efficiency: N/A  
Efficacy: 130.8 lumens/watt  
Spacing Criteria (0/90/45): 0.71 / 2.69 / 2.33  
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 12' x H: 0.1')  
CIE Type: Semi-Indirect

Input Watts (W): 190.8  
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: 24 FT

TEST NUMBER: P938378

CATALOG NUMBER: SQ4-FB-150U-075D-B2750-1D-UNV-W2A-W-12-3000K

### Luminous Intensity Polar Plot



TEST NUMBER: P938378

CATALOG NUMBER: SQ4-FB-150U-075D-B2750-1D-UNV-W2A-W-12-3000K

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

|     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |
|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| RF  | 20  |     |     |     | 20 |    |    |    | 20 |    |    |    | 20 |    |    |    | 20 |
| RC  | 80  |     |     |     | 70 |    |    |    | 50 |    |    |    | 30 |    |    |    | 10 |
| RW  | 70  | 50  | 30  | 10  | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 |
| RCR |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 0   | 102 | 102 | 102 | 102 | 91 | 91 | 91 | 91 | 71 | 71 | 71 | 53 | 53 | 53 | 36 | 36 | 36 |
| 1   | 93  | 88  | 84  | 81  | 83 | 79 | 76 | 73 | 62 | 60 | 58 | 46 | 45 | 43 | 32 | 31 | 30 |
| 2   | 84  | 77  | 71  | 66  | 75 | 69 | 64 | 59 | 54 | 50 | 47 | 40 | 38 | 36 | 27 | 26 | 25 |
| 3   | 76  | 67  | 60  | 54  | 68 | 60 | 54 | 49 | 47 | 43 | 39 | 35 | 32 | 30 | 24 | 22 | 21 |
| 4   | 70  | 59  | 51  | 45  | 62 | 53 | 46 | 41 | 42 | 37 | 33 | 31 | 28 | 25 | 21 | 19 | 17 |
| 5   | 64  | 52  | 44  | 38  | 57 | 47 | 40 | 35 | 37 | 32 | 28 | 28 | 24 | 21 | 19 | 17 | 15 |
| 6   | 58  | 47  | 39  | 33  | 52 | 42 | 35 | 30 | 33 | 28 | 24 | 25 | 21 | 18 | 17 | 15 | 13 |
| 7   | 54  | 42  | 34  | 28  | 48 | 38 | 31 | 26 | 30 | 25 | 21 | 22 | 19 | 16 | 15 | 13 | 11 |
| 8   | 50  | 38  | 30  | 25  | 44 | 34 | 27 | 23 | 27 | 22 | 18 | 20 | 17 | 14 | 14 | 12 | 10 |
| 9   | 46  | 34  | 27  | 22  | 41 | 31 | 24 | 20 | 24 | 20 | 16 | 18 | 15 | 12 | 13 | 10 | 9  |
| 10  | 43  | 31  | 24  | 19  | 38 | 28 | 22 | 18 | 22 | 18 | 14 | 17 | 13 | 11 | 12 | 9  | 8  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 2845 | 2845 | 2845 |
| 5°  | 2781 | 3289 | 3825 |
| 10° | 2523 | 4797 | 6341 |
| 15° | 2145 | 6268 | 7657 |
| 20° | 1747 | 7265 | 7803 |
| 25° | 1458 | 7605 | 7645 |
| 30° | 1230 | 7655 | 7630 |
| 35° | 1088 | 7530 | 7828 |
| 40° | 949  | 7367 | 8032 |
| 45° | 860  | 7248 | 8063 |
| 50° | 789  | 7142 | 7930 |
| 55° | 757  | 6985 | 7578 |
| 60° | 776  | 6681 | 7023 |
| 65° | 808  | 6218 | 6261 |
| 70° | 863  | 5426 | 5289 |
| 75° | 960  | 4428 | 4127 |
| 80° | 1056 | 3075 | 2781 |
| 85° | 959  | 1634 | 1423 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 8063 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 119.0   | 0.5       |
| 10°-20°   | 527.4   | 2.1       |
| 20°-30°   | 922.5   | 3.7       |
| 30°-40°   | 1187.6  | 4.8       |
| 40°-50°   | 1326.5  | 5.3       |
| 50°-60°   | 1270.5  | 5.1       |
| 60°-70°   | 1006.9  | 4.0       |
| 70°-80°   | 592.0   | 2.4       |
| 80°-90°   | 175.0   | 0.7       |
| 90°-100°  | 1340.0  | 5.4       |
| 100°-110° | 3522.9  | 14.1      |
| 110°-120° | 3652.8  | 14.6      |
| 120°-130° | 2930.0  | 11.7      |
| 130°-140° | 2299.0  | 9.2       |
| 140°-150° | 1764.6  | 7.1       |
| 150°-160° | 1270.8  | 5.1       |
| 160°-170° | 777.5   | 3.1       |
| 170°-180° | 262.7   | 1.1       |
| 0°-30°    | 1569.0  | 6.3       |
| 0°-40°    | 2756.6  | 11.0      |
| 0°-60°    | 5353.6  | 21.5      |
| 0°-90°    | 7127.4  | 28.6      |
| 90°-120°  | 8515.7  | 34.1      |
| 90°-150°  | 15509.3 | 62.2      |
| 90°-180°  | 17820.0 | 71.4      |
| 0°-180°   | 24947.7 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 920  | 920   | 920  | 920   | 920  |      |
| 5°   | 896  | 961   | 1083 | 1225  | 1269 | 83   |
| 15°  | 672  | 1240  | 2088 | 2532  | 2612 | 187  |
| 25°  | 429  | 1405  | 2488 | 2597  | 2600 | 198  |
| 35°  | 290  | 1343  | 2343 | 2476  | 2574 | 181  |
| 45°  | 198  | 1071  | 2071 | 2372  | 2479 | 153  |
| 55°  | 142  | 680   | 1757 | 2041  | 2097 | 129  |
| 65°  | 112  | 361   | 1305 | 1467  | 1488 | 111  |
| 75°  | 83   | 222   | 716  | 787   | 790  | 87   |
| 85°  | 30   | 68    | 178  | 195   | 198  | 31   |
| 90°  | 18   | 52    | 140  | 70    | 70   | 17   |
| 95°  | 177  | 694   | 2308 | 1190  | 810  | 197  |
| 105° | 635  | 961   | 3895 | 5913  | 5516 | 673  |
| 115° | 1127 | 1369  | 3120 | 6223  | 7103 | 1113 |
| 125° | 1568 | 1758  | 2838 | 4795  | 5657 | 1392 |
| 135° | 1869 | 2057  | 2749 | 3871  | 4389 | 1446 |
| 145° | 2168 | 2306  | 2714 | 3302  | 3561 | 1358 |
| 155° | 2450 | 2518  | 2714 | 2980  | 3066 | 1126 |
| 165° | 2644 | 2679  | 2714 | 2821  | 2856 | 746  |
| 175° | 2749 | 2749  | 2732 | 2767  | 2767 | 261  |
| 180° | 2749 | 2749  | 2749 | 2749  | 2749 |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 10°    | 20°    | 22.5°  | 30°    | 40°    | 45°    | 50°    | 60°    | 67.5°  | 70°    |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 919.9 | 919.9  | 919.9  | 919.9  | 919.9  | 919.9  | 919.9  | 919.9  | 919.9  | 919.9  | 919.9  |
| 2.5°   | 919.9 | 919.9  | 925.9  | 928.8  | 934.7  | 937.7  | 943.6  | 949.5  | 967.3  | 970.2  | 976.1  |
| 5°     | 896.3 | 908.1  | 946.6  | 961.4  | 1002.8 | 1059.0 | 1082.6 | 1121.2 | 1201.0 | 1224.7 | 1239.5 |
| 7.5°   | 860.8 | 887.4  | 982.1  | 1005.7 | 1109.2 | 1257.2 | 1319.4 | 1402.2 | 1529.4 | 1591.5 | 1641.8 |
| 10°    | 804.6 | 860.8  | 1029.4 | 1085.6 | 1254.3 | 1479.1 | 1594.5 | 1709.8 | 1902.1 | 1987.9 | 2020.4 |
| 12.5°  | 742.5 | 834.2  | 1079.7 | 1156.7 | 1399.2 | 1727.6 | 1866.6 | 1993.8 | 2212.7 | 2328.0 | 2345.8 |
| 15°    | 671.5 | 795.7  | 1127.1 | 1239.5 | 1553.0 | 1934.6 | 2088.4 | 2245.2 | 2449.3 | 2532.1 | 2552.9 |
| 17.5°  | 609.3 | 766.1  | 1171.5 | 1289.8 | 1671.4 | 2121.0 | 2277.8 | 2407.9 | 2573.6 | 2629.8 | 2644.6 |
| 20°    | 532.4 | 718.8  | 1201.0 | 1354.9 | 1795.6 | 2257.1 | 2407.9 | 2508.5 | 2620.9 | 2656.4 | 2662.3 |
| 22.5°  | 476.2 | 668.5  | 1218.8 | 1378.5 | 1878.4 | 2339.9 | 2467.1 | 2546.9 | 2623.8 | 2635.7 | 2638.6 |
| 25°    | 428.9 | 612.3  | 1215.8 | 1405.1 | 1949.4 | 2390.2 | 2487.8 | 2546.9 | 2591.3 | 2597.2 | 2597.2 |
| 27.5°  | 384.5 | 550.2  | 1204.0 | 1411.1 | 2002.7 | 2402.0 | 2478.9 | 2520.3 | 2541.0 | 2552.9 | 2552.9 |
| 30°    | 346.1 | 491.0  | 1174.4 | 1399.2 | 2026.3 | 2390.2 | 2452.3 | 2473.0 | 2493.7 | 2511.4 | 2520.3 |
| 32.5°  | 316.5 | 434.8  | 1130.1 | 1375.6 | 2029.3 | 2360.6 | 2405.0 | 2416.8 | 2446.4 | 2487.8 | 2502.6 |
| 35°    | 289.9 | 378.6  | 1079.7 | 1343.0 | 2011.5 | 2313.3 | 2342.8 | 2354.7 | 2413.8 | 2475.9 | 2496.7 |
| 37.5°  | 263.3 | 337.2  | 1014.6 | 1286.8 | 1984.9 | 2257.1 | 2277.8 | 2298.5 | 2390.2 | 2464.1 | 2487.8 |
| 40°    | 236.6 | 301.7  | 937.7  | 1224.7 | 1943.5 | 2189.0 | 2206.8 | 2239.3 | 2360.6 | 2446.4 | 2470.0 |
| 42.5°  | 215.9 | 272.1  | 854.9  | 1159.6 | 1890.3 | 2112.1 | 2138.7 | 2186.1 | 2325.1 | 2416.8 | 2443.4 |
| 45°    | 198.2 | 242.6  | 766.1  | 1070.8 | 1822.2 | 2032.2 | 2070.7 | 2135.8 | 2283.7 | 2372.4 | 2396.1 |
| 47.5°  | 180.4 | 221.8  | 674.4  | 979.1  | 1748.3 | 1952.4 | 2002.7 | 2076.6 | 2227.5 | 2313.3 | 2334.0 |
| 50°    | 165.6 | 201.1  | 582.7  | 881.5  | 1668.4 | 1866.6 | 1925.8 | 2002.7 | 2156.5 | 2236.3 | 2263.0 |
| 52.5°  | 153.8 | 183.4  | 496.9  | 783.9  | 1576.7 | 1777.9 | 1845.9 | 1925.8 | 2070.7 | 2147.6 | 2165.4 |
| 55°    | 142.0 | 168.6  | 423.0  | 680.3  | 1482.1 | 1683.2 | 1757.2 | 1834.1 | 1976.0 | 2041.1 | 2053.0 |
| 57.5°  | 136.1 | 156.8  | 360.9  | 582.7  | 1381.5 | 1576.7 | 1659.5 | 1730.5 | 1863.6 | 1913.9 | 1925.8 |
| 60°    | 127.2 | 147.9  | 313.5  | 499.9  | 1272.0 | 1476.1 | 1547.1 | 1618.1 | 1730.5 | 1771.9 | 1780.8 |
| 62.5°  | 118.3 | 142.0  | 278.1  | 420.0  | 1159.6 | 1357.8 | 1428.8 | 1493.9 | 1588.5 | 1618.1 | 1630.0 |
| 65°    | 112.4 | 136.1  | 251.4  | 360.9  | 1044.2 | 1233.6 | 1304.6 | 1360.8 | 1437.7 | 1467.3 | 1473.2 |
| 67.5°  | 106.5 | 130.2  | 230.7  | 310.6  | 928.8  | 1109.2 | 1162.6 | 1215.8 | 1275.0 | 1304.6 | 1307.5 |
| 70°    | 97.6  | 124.2  | 213.0  | 275.1  | 810.5  | 967.3  | 1011.6 | 1067.8 | 1115.2 | 1130.1 | 1138.9 |
| 72.5°  | 91.7  | 115.4  | 201.1  | 248.5  | 689.2  | 831.2  | 872.6  | 905.1  | 946.6  | 961.4  | 961.4  |
| 75°    | 82.8  | 103.5  | 189.3  | 221.8  | 565.0  | 680.3  | 715.8  | 748.4  | 780.9  | 786.8  | 778.0  |
| 77.5°  | 74.0  | 91.7   | 162.7  | 186.4  | 440.7  | 538.4  | 567.9  | 585.7  | 612.3  | 618.2  | 621.2  |
| 80°    | 62.1  | 79.9   | 127.2  | 144.9  | 319.5  | 396.4  | 417.1  | 431.9  | 455.5  | 455.5  | 461.4  |
| 82.5°  | 47.3  | 62.1   | 91.7   | 103.5  | 215.9  | 272.1  | 289.9  | 298.8  | 313.5  | 313.5  | 313.5  |
| 85°    | 29.6  | 38.5   | 59.2   | 68.0   | 130.2  | 165.6  | 177.5  | 180.4  | 192.3  | 195.2  | 195.2  |
| 87.5°  | 14.8  | 20.7   | 38.5   | 41.4   | 68.0   | 85.8   | 85.8   | 91.7   | 91.7   | 88.7   | 85.8   |
| 90°    | 18.4  | 33.2   | 48.0   | 51.7   | 81.1   | 120.5  | 140.2  | 124.6  | 93.5   | 70.1   | 70.1   |
| 92.5°  | 73.8  | 199.2  | 324.7  | 356.0  | 500.6  | 693.3  | 789.6  | 692.0  | 496.8  | 350.5  | 336.6  |
| 95°    | 177.1 | 406.6  | 636.3  | 693.7  | 1231.8 | 1949.3 | 2308.0 | 2059.6 | 1562.7 | 1190.0 | 1147.8 |
| 97.5°  | 306.3 | 508.8  | 711.3  | 762.0  | 1659.2 | 2855.6 | 3453.7 | 3296.7 | 2982.6 | 2747.1 | 2666.7 |
| 100°   | 405.8 | 589.5  | 773.2  | 819.2  | 1814.8 | 3142.3 | 3806.1 | 3817.5 | 3840.5 | 3857.7 | 3762.0 |
| 102.5° | 490.7 | 662.1  | 833.5  | 876.4  | 1886.1 | 3232.5 | 3905.7 | 4105.8 | 4505.9 | 4806.1 | 4724.0 |
| 105°   | 634.7 | 779.8  | 925.0  | 961.3  | 1939.1 | 3242.8 | 3894.6 | 4343.1 | 5240.2 | 5912.9 | 5868.9 |
| 107.5° | 782.3 | 917.6  | 1052.9 | 1086.7 | 1948.8 | 3098.4 | 3673.2 | 4298.9 | 5550.1 | 6488.6 | 6499.2 |
| 110°   | 881.9 | 1004.0 | 1126.2 | 1156.8 | 1934.1 | 2970.5 | 3488.8 | 4188.2 | 5587.1 | 6636.2 | 6682.1 |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 10°    | 20°    | 22.5°  | 30°    | 40°    | 45°    | 50°    | 60°    | 67.5°  | 70°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 979.7  | 1096.1 | 1212.6 | 1241.7 | 1934.7 | 2858.8 | 3320.8 | 4036.7 | 5468.4 | 6542.1 | 6612.6 |
| 115°   | 1127.3 | 1234.7 | 1342.1 | 1369.0 | 1952.6 | 2730.7 | 3119.8 | 3809.4 | 5188.5 | 6222.9 | 6320.8 |
| 117.5° | 1273.0 | 1370.5 | 1468.2 | 1492.5 | 1988.8 | 2650.5 | 2981.4 | 3603.7 | 4848.5 | 5782.0 | 5890.5 |
| 120°   | 1357.8 | 1449.7 | 1541.5 | 1564.5 | 2018.3 | 2623.5 | 2926.1 | 3494.7 | 4631.9 | 5484.9 | 5590.3 |
| 122.5° | 1440.8 | 1533.5 | 1626.2 | 1649.4 | 2060.8 | 2609.4 | 2883.7 | 3395.7 | 4419.8 | 5187.9 | 5291.9 |
| 125°   | 1568.2 | 1652.6 | 1737.1 | 1758.2 | 2118.0 | 2597.7 | 2837.5 | 3272.5 | 4142.5 | 4794.9 | 4890.7 |
| 127.5° | 1671.5 | 1756.8 | 1842.0 | 1863.3 | 2175.1 | 2590.9 | 2798.8 | 3172.3 | 3919.3 | 4479.5 | 4560.2 |
| 130°   | 1726.9 | 1818.7 | 1910.5 | 1933.4 | 2216.9 | 2595.0 | 2784.0 | 3116.5 | 3781.5 | 4280.2 | 4354.9 |
| 132.5° | 1784.1 | 1875.9 | 1967.7 | 1990.6 | 2250.7 | 2597.6 | 2771.1 | 3068.7 | 3664.1 | 4110.5 | 4177.4 |
| 135°   | 1868.9 | 1952.5 | 2036.2 | 2057.1 | 2287.7 | 2595.3 | 2749.0 | 2998.2 | 3496.8 | 3870.6 | 3928.2 |
| 137.5° | 1955.6 | 2038.5 | 2121.3 | 2142.0 | 2343.0 | 2611.1 | 2745.2 | 2955.9 | 3377.4 | 3693.6 | 3740.7 |
| 140°   | 2027.6 | 2103.8 | 2180.1 | 2199.2 | 2376.9 | 2613.8 | 2732.3 | 2914.3 | 3278.4 | 3551.5 | 3595.5 |
| 142.5° | 2082.9 | 2153.4 | 2223.9 | 2241.6 | 2405.1 | 2623.3 | 2732.3 | 2892.2 | 3212.0 | 3451.9 | 3489.8 |
| 145°   | 2167.8 | 2229.3 | 2290.8 | 2306.2 | 2442.0 | 2623.3 | 2713.9 | 2844.6 | 3106.2 | 3302.4 | 3331.1 |
| 147.5° | 2252.6 | 2312.5 | 2372.3 | 2387.3 | 2496.2 | 2641.3 | 2713.9 | 2816.8 | 3022.6 | 3177.0 | 3200.8 |
| 150°   | 2308.0 | 2362.2 | 2416.3 | 2429.8 | 2524.5 | 2650.8 | 2713.9 | 2800.8 | 2974.7 | 3105.0 | 3124.2 |
| 152.5° | 2365.2 | 2406.2 | 2447.2 | 2457.4 | 2542.9 | 2656.9 | 2713.9 | 2788.1 | 2936.5 | 3047.8 | 3062.4 |
| 155°   | 2450.1 | 2480.5 | 2510.8 | 2518.3 | 2583.5 | 2670.4 | 2713.9 | 2772.9 | 2891.1 | 2979.6 | 2989.3 |
| 157.5° | 2512.8 | 2542.3 | 2571.8 | 2579.2 | 2624.0 | 2683.9 | 2713.9 | 2759.8 | 2851.6 | 2920.5 | 2927.3 |
| 160°   | 2555.2 | 2578.2 | 2601.2 | 2606.9 | 2642.6 | 2690.1 | 2713.9 | 2753.2 | 2831.9 | 2891.0 | 2894.9 |
| 162.5° | 2597.6 | 2614.9 | 2632.0 | 2636.4 | 2662.2 | 2696.6 | 2713.9 | 2747.1 | 2813.6 | 2863.3 | 2867.0 |
| 165°   | 2643.8 | 2659.3 | 2674.9 | 2678.9 | 2690.5 | 2706.1 | 2713.9 | 2737.6 | 2785.2 | 2820.8 | 2824.8 |
| 167.5° | 2686.3 | 2693.7 | 2700.9 | 2702.8 | 2712.7 | 2725.8 | 2732.3 | 2747.9 | 2779.0 | 2802.4 | 2804.1 |
| 170°   | 2713.9 | 2721.3 | 2728.7 | 2730.5 | 2731.1 | 2731.9 | 2732.3 | 2747.9 | 2779.0 | 2802.4 | 2802.4 |
| 172.5° | 2728.7 | 2730.2 | 2731.9 | 2732.3 | 2732.3 | 2732.3 | 2732.3 | 2744.6 | 2769.3 | 2787.7 | 2786.2 |
| 175°   | 2749.0 | 2749.0 | 2749.0 | 2749.0 | 2743.4 | 2736.1 | 2732.3 | 2740.1 | 2755.7 | 2767.4 | 2767.4 |
| 177.5° | 2749.0 | 2749.0 | 2749.0 | 2749.0 | 2744.6 | 2738.9 | 2736.1 | 2742.2 | 2754.5 | 2763.7 | 2762.0 |
| 180°   | 2749.0 | 2749.0 | 2749.0 | 2749.0 | 2749.0 | 2749.0 | 2749.0 | 2749.0 | 2749.0 | 2749.0 | 2749.0 |

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CATALOG NUMBER: SQ4-FB-150U-075D-B2750-1D-UNV-W2A-W-12-3000K

**CANDELA DISTRIBUTION (continued):**

|        | 80°    | 90°    |
|--------|--------|--------|
| 0°     | 919.9  | 919.9  |
| 2.5°   | 982.1  | 976.1  |
| 5°     | 1263.2 | 1269.1 |
| 7.5°   | 1700.9 | 1698.0 |
| 10°    | 2115.1 | 2141.7 |
| 12.5°  | 2416.8 | 2422.7 |
| 15°    | 2600.2 | 2612.0 |
| 17.5°  | 2671.2 | 2674.1 |
| 20°    | 2674.1 | 2668.2 |
| 22.5°  | 2641.6 | 2635.7 |
| 25°    | 2603.1 | 2600.2 |
| 27.5°  | 2567.6 | 2570.6 |
| 30°    | 2552.9 | 2561.7 |
| 32.5°  | 2552.9 | 2567.6 |
| 35°    | 2558.8 | 2573.6 |
| 37.5°  | 2555.8 | 2573.6 |
| 40°    | 2544.0 | 2564.7 |
| 42.5°  | 2511.4 | 2526.2 |
| 45°    | 2461.2 | 2478.9 |
| 47.5°  | 2396.1 | 2407.9 |
| 50°    | 2313.3 | 2325.1 |
| 52.5°  | 2209.7 | 2212.7 |
| 55°    | 2085.5 | 2097.3 |
| 57.5°  | 1952.4 | 1955.3 |
| 60°    | 1804.5 | 1813.4 |
| 62.5°  | 1647.7 | 1647.7 |
| 65°    | 1482.1 | 1488.0 |
| 67.5°  | 1310.5 | 1325.3 |
| 70°    | 1136.0 | 1138.9 |
| 72.5°  | 964.3  | 964.3  |
| 75°    | 786.8  | 789.8  |
| 77.5°  | 618.2  | 618.2  |
| 80°    | 458.5  | 461.4  |
| 82.5°  | 316.5  | 322.4  |
| 85°    | 198.2  | 198.2  |
| 87.5°  | 91.7   | 82.8   |
| 90°    | 70.1   | 70.1   |
| 92.5°  | 280.8  | 225.1  |
| 95°    | 978.8  | 809.9  |
| 97.5°  | 2345.3 | 2023.9 |
| 100°   | 3379.1 | 2996.2 |
| 102.5° | 4396.1 | 4068.0 |
| 105°   | 5692.7 | 5516.4 |
| 107.5° | 6541.9 | 6584.5 |
| 110°   | 6865.8 | 7049.5 |



TEST NUMBER: P938378

CATALOG NUMBER: SQ4-FB-150U-075D-B2750-1D-UNV-W2A-W-12-3000K

**CANDELA DISTRIBUTION (continued):**

|        | 80°    | 90°    |
|--------|--------|--------|
| 112.5° | 6894.7 | 7176.8 |
| 115°   | 6711.8 | 7102.9 |
| 117.5° | 6324.2 | 6757.9 |
| 120°   | 6011.7 | 6433.3 |
| 122.5° | 5707.7 | 6123.4 |
| 125°   | 5273.6 | 5656.6 |
| 127.5° | 4883.4 | 5206.4 |
| 130°   | 4653.3 | 4951.8 |
| 132.5° | 4444.6 | 4711.9 |
| 135°   | 4158.7 | 4389.1 |
| 137.5° | 3929.3 | 4117.8 |
| 140°   | 3771.8 | 3948.1 |
| 142.5° | 3641.5 | 3793.1 |
| 145°   | 3446.0 | 3560.7 |
| 147.5° | 3295.9 | 3391.0 |
| 150°   | 3201.3 | 3278.4 |
| 152.5° | 3120.6 | 3178.8 |
| 155°   | 3027.7 | 3066.3 |
| 157.5° | 2954.4 | 2981.4 |
| 160°   | 2910.5 | 2926.1 |
| 162.5° | 2881.8 | 2896.6 |
| 165°   | 2840.4 | 2855.9 |
| 167.5° | 2810.6 | 2817.2 |
| 170°   | 2802.4 | 2802.4 |
| 172.5° | 2780.5 | 2774.8 |
| 175°   | 2767.4 | 2767.4 |
| 177.5° | 2755.5 | 2749.0 |
| 180°   | 2749.0 | 2749.0 |

TEST NUMBER: P938378

CATALOG NUMBER: SQ4-FB-150U-075D-B2750-1D-UNV-W2A-W-12-3000K

**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 | 2.25             | 2.97  | 3.37  | 4.08  | 5.63  | 15.45          | 16.16 | 16.56 | 17.28 | 18.82 |
|                 | 3H   | 2.95             | 3.59  | 4.07  | 4.71  | 6.27  | 17.28          | 17.92 | 18.40 | 19.04 | 20.61 |
|                 | 4H   | 3.24             | 3.85  | 4.37  | 4.97  | 6.54  | 17.92          | 18.53 | 19.06 | 19.66 | 21.22 |
|                 | 6H   | 3.48             | 4.04  | 4.62  | 5.17  | 6.75  | 18.35          | 18.91 | 19.49 | 20.04 | 21.61 |
|                 | 8H   | 3.55             | 4.08  | 4.69  | 5.22  | 6.79  | 18.47          | 19.00 | 19.61 | 20.14 | 21.71 |
|                 | 12H  | 3.56             | 4.07  | 4.71  | 5.20  | 6.80  | 18.53          | 19.04 | 19.68 | 20.18 | 21.77 |
| 4H              | 2H   | 9.46             | 10.07 | 10.60 | 11.19 | 12.76 | 15.70          | 16.31 | 16.84 | 17.44 | 19.00 |
|                 | 3H   | 11.01            | 11.52 | 12.16 | 12.67 | 14.25 | 17.74          | 18.25 | 18.89 | 19.40 | 20.98 |
|                 | 4H   | 11.10            | 11.57 | 12.25 | 12.71 | 14.31 | 18.50          | 18.97 | 19.65 | 20.11 | 21.71 |
|                 | 6H   | 11.10            | 11.51 | 12.26 | 12.67 | 14.26 | 19.04          | 19.44 | 20.19 | 20.60 | 22.19 |
|                 | 8H   | 11.08            | 11.45 | 12.23 | 12.60 | 14.21 | 19.20          | 19.57 | 20.35 | 20.73 | 22.33 |
|                 | 12H  | 11.02            | 11.37 | 12.20 | 12.53 | 14.14 | 19.29          | 19.63 | 20.46 | 20.79 | 22.40 |
| 8H              | 4H   | 12.54            | 12.91 | 13.69 | 14.06 | 15.67 | 18.55          | 18.93 | 19.71 | 20.08 | 21.69 |
|                 | 6H   | 12.77            | 13.08 | 13.95 | 14.28 | 15.88 | 19.18          | 19.49 | 20.35 | 20.68 | 22.29 |
|                 | 8H   | 12.79            | 13.06 | 13.97 | 14.23 | 15.85 | 19.40          | 19.67 | 20.58 | 20.84 | 22.46 |
|                 | 12H  | 12.75            | 12.99 | 13.93 | 14.16 | 15.81 | 19.54          | 19.78 | 20.72 | 20.95 | 22.60 |
| 12H             | 4H   | 12.67            | 13.02 | 13.85 | 14.18 | 15.79 | 18.50          | 18.84 | 19.67 | 20.00 | 21.61 |
|                 | 6H   | 13.03            | 13.30 | 14.21 | 14.47 | 16.10 | 19.16          | 19.43 | 20.34 | 20.60 | 22.23 |
|                 | 8H   | 13.09            | 13.33 | 14.28 | 14.50 | 16.16 | 19.38          | 19.62 | 20.57 | 20.79 | 22.45 |