

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: P937077

Luminaire Tested: SQ4-FB-075U-050D-B2750-1D-UNV-W2A-W-12-2700K

Issue Date: 12/17/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P937077  
REPORT IS A COMBINATION OF REPORTS P933493 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FB-075U-050D-B2750-1D-UNV-W2A-W-12-2700K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L  
Light Source: -  
Ballast/Driver: -

**Summary**

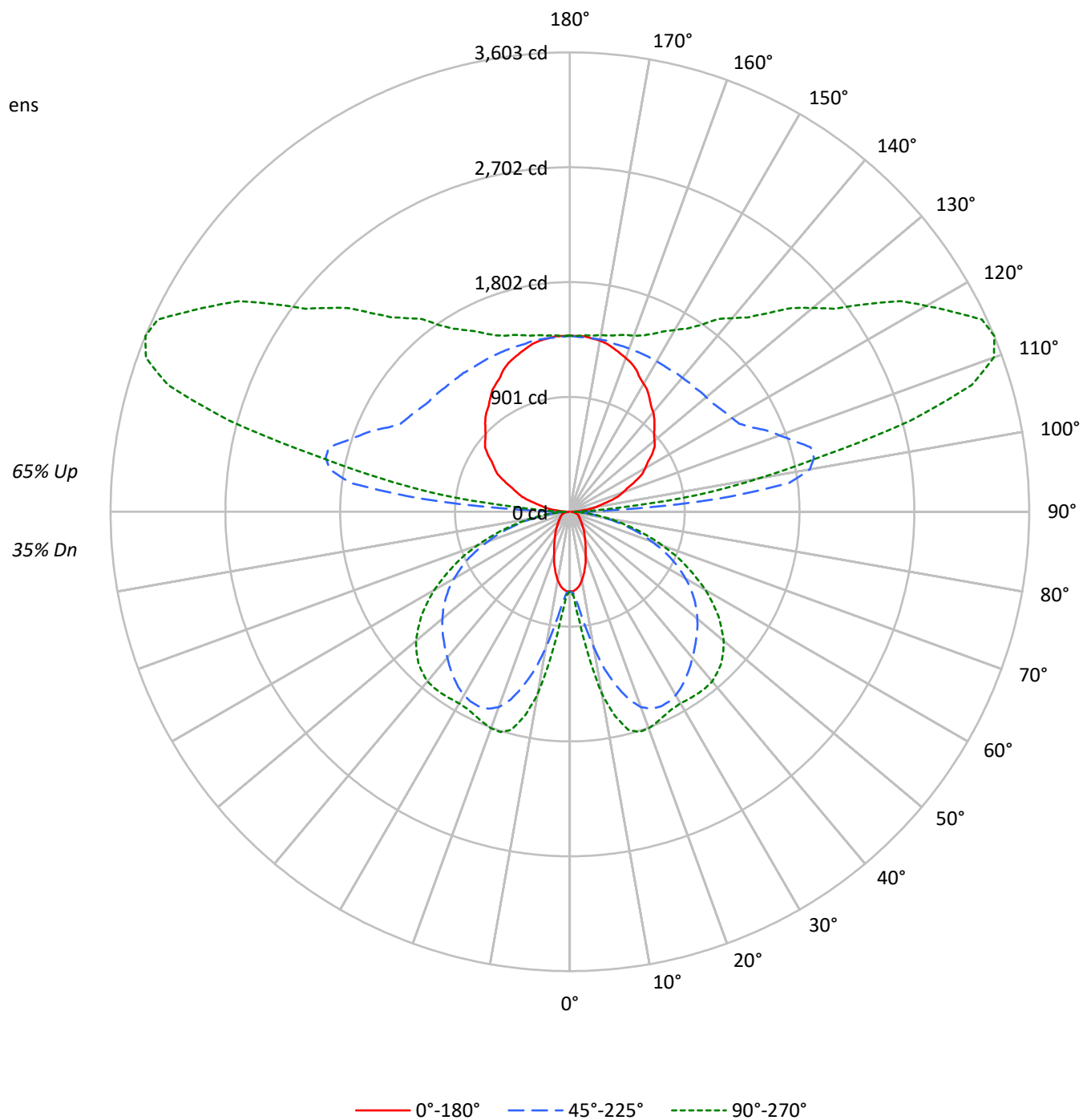
Lumens per Lamp: N/A  
Luminaire Lumens: 13773.7 lumens  
Efficiency: N/A  
Efficacy: 133.5 lumens/watt  
Spacing Criteria (0/90/45): 0.71 / 2.69 / 2.33  
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 12' x H: 0.1')  
CIE Type: Semi-Indirect

Input Watts (W): 103.2  
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: P937077

CATALOG NUMBER: SQ4-FB-075U-050D-B2750-1D-UNV-W2A-W-12-2700K

### Luminous Intensity Polar Plot



TEST NUMBER: P937077

CATALOG NUMBER: SQ4-FB-075U-050D-B2750-1D-UNV-W2A-W-12-2700K

**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   | 104 | 104 | 104 | 104 | 94 | 94 | 94 | 94 | 75 | 75 | 75 | 58 | 58 | 58 | 42 | 42 | 42 |
| 1   | 94  | 90  | 86  | 82  | 85 | 81 | 78 | 75 | 65 | 63 | 61 | 50 | 49 | 47 | 37 | 36 | 35 |
| 2   | 85  | 78  | 72  | 66  | 77 | 70 | 65 | 61 | 57 | 53 | 50 | 44 | 41 | 39 | 32 | 30 | 29 |
| 3   | 77  | 68  | 61  | 55  | 70 | 62 | 55 | 50 | 49 | 45 | 41 | 38 | 35 | 32 | 28 | 26 | 24 |
| 4   | 71  | 60  | 52  | 46  | 63 | 54 | 47 | 42 | 44 | 39 | 35 | 34 | 30 | 27 | 25 | 22 | 20 |
| 5   | 65  | 53  | 45  | 39  | 58 | 48 | 41 | 36 | 39 | 33 | 29 | 30 | 26 | 23 | 22 | 19 | 17 |
| 6   | 59  | 47  | 39  | 33  | 53 | 43 | 36 | 31 | 35 | 29 | 25 | 27 | 23 | 20 | 20 | 17 | 15 |
| 7   | 55  | 42  | 34  | 29  | 49 | 38 | 31 | 26 | 31 | 26 | 22 | 24 | 20 | 17 | 18 | 15 | 13 |
| 8   | 50  | 38  | 30  | 25  | 45 | 35 | 28 | 23 | 28 | 23 | 19 | 22 | 18 | 15 | 16 | 14 | 12 |
| 9   | 47  | 35  | 27  | 22  | 42 | 32 | 25 | 20 | 26 | 21 | 17 | 20 | 16 | 14 | 15 | 12 | 10 |
| 10  | 44  | 32  | 24  | 20  | 39 | 29 | 22 | 18 | 23 | 18 | 15 | 18 | 15 | 12 | 14 | 11 | 9  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 1928 | 1928 | 1928 |
| 5°  | 1884 | 2229 | 2591 |
| 10° | 1710 | 3250 | 4296 |
| 15° | 1454 | 4247 | 5187 |
| 20° | 1184 | 4922 | 5287 |
| 25° | 988  | 5152 | 5179 |
| 30° | 834  | 5186 | 5169 |
| 35° | 737  | 5101 | 5303 |
| 40° | 643  | 4991 | 5441 |
| 45° | 583  | 4910 | 5463 |
| 50° | 535  | 4838 | 5372 |
| 55° | 513  | 4732 | 5134 |
| 60° | 526  | 4526 | 4758 |
| 65° | 548  | 4213 | 4242 |
| 70° | 584  | 3676 | 3583 |
| 75° | 650  | 3000 | 2796 |
| 80° | 716  | 2083 | 1884 |
| 85° | 648  | 1107 | 965  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5463 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 80.6    | 0.6       |
| 10°-20°   | 357.3   | 2.6       |
| 20°-30°   | 625.0   | 4.5       |
| 30°-40°   | 804.6   | 5.8       |
| 40°-50°   | 898.7   | 6.5       |
| 50°-60°   | 860.7   | 6.2       |
| 60°-70°   | 682.1   | 5.0       |
| 70°-80°   | 401.1   | 2.9       |
| 80°-90°   | 116.7   | 0.8       |
| 90°-100°  | 672.7   | 4.9       |
| 100°-110° | 1768.7  | 12.8      |
| 110°-120° | 1833.9  | 13.3      |
| 120°-130° | 1471.0  | 10.7      |
| 130°-140° | 1154.2  | 8.4       |
| 140°-150° | 885.9   | 6.4       |
| 150°-160° | 638.0   | 4.6       |
| 160°-170° | 390.4   | 2.8       |
| 170°-180° | 131.9   | 1.0       |
| 0°-30°    | 1063.0  | 7.7       |
| 0°-40°    | 1867.5  | 13.6      |
| 0°-60°    | 3627.0  | 26.3      |
| 0°-90°    | 4826.9  | 35.0      |
| 90°-120°  | 4275.3  | 31.0      |
| 90°-150°  | 7786.5  | 56.5      |
| 90°-180°  | 8947.0  | 65.0      |
| 0°-180°   | 13773.7 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 623  | 623   | 623  | 623   | 623  |      |
| 5°   | 607  | 651   | 734  | 830   | 860  | 56   |
| 15°  | 455  | 840   | 1415 | 1716  | 1770 | 127  |
| 25°  | 291  | 952   | 1685 | 1760  | 1762 | 134  |
| 35°  | 196  | 910   | 1587 | 1678  | 1744 | 123  |
| 45°  | 134  | 726   | 1403 | 1607  | 1680 | 104  |
| 55°  | 96   | 461   | 1190 | 1383  | 1421 | 88   |
| 65°  | 76   | 244   | 884  | 994   | 1008 | 75   |
| 75°  | 56   | 150   | 485  | 533   | 535  | 59   |
| 85°  | 20   | 46    | 120  | 132   | 134  | 21   |
| 90°  | 9    | 26    | 70   | 35    | 35   | 9    |
| 95°  | 89   | 348   | 1159 | 597   | 407  | 99   |
| 105° | 319  | 483   | 1955 | 2969  | 2770 | 338  |
| 115° | 566  | 687   | 1566 | 3124  | 3566 | 559  |
| 125° | 787  | 883   | 1425 | 2407  | 2840 | 699  |
| 135° | 938  | 1033  | 1380 | 1943  | 2204 | 726  |
| 145° | 1088 | 1158  | 1362 | 1658  | 1788 | 682  |
| 155° | 1230 | 1264  | 1362 | 1496  | 1539 | 565  |
| 165° | 1327 | 1345  | 1362 | 1416  | 1434 | 375  |
| 175° | 1380 | 1380  | 1372 | 1389  | 1389 | 131  |
| 180° | 1380 | 1380  | 1380 | 1380  | 1380 |      |

TEST NUMBER: P937077

CATALOG NUMBER: SQ4-FB-075U-050D-B2750-1D-UNV-W2A-W-12-2700K

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 10°   | 20°   | 22.5° | 30°    | 40°    | 45°    | 50°    | 60°    | 67.5°  | 70°    |
|--------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 623.3 | 623.3 | 623.3 | 623.3 | 623.3  | 623.3  | 623.3  | 623.3  | 623.3  | 623.3  | 623.3  |
| 2.5°   | 623.3 | 623.3 | 627.3 | 629.3 | 633.3  | 635.2  | 639.3  | 643.3  | 655.4  | 657.4  | 661.3  |
| 5°     | 607.3 | 615.2 | 641.3 | 651.3 | 679.4  | 717.4  | 733.5  | 759.5  | 813.6  | 829.7  | 839.7  |
| 7.5°   | 583.2 | 601.2 | 665.3 | 681.4 | 751.6  | 851.8  | 893.8  | 950.0  | 1036.1 | 1078.2 | 1112.2 |
| 10°    | 545.1 | 583.2 | 697.4 | 735.5 | 849.7  | 1002.1 | 1080.2 | 1158.3 | 1288.6 | 1346.8 | 1368.8 |
| 12.5°  | 503.0 | 565.1 | 731.5 | 783.6 | 947.9  | 1170.4 | 1264.6 | 1350.8 | 1499.1 | 1577.3 | 1589.2 |
| 15°    | 455.0 | 539.1 | 763.5 | 839.7 | 1052.2 | 1310.6 | 1414.9 | 1521.1 | 1659.4 | 1715.5 | 1729.6 |
| 17.5°  | 412.8 | 519.0 | 793.6 | 873.8 | 1132.4 | 1436.9 | 1543.1 | 1631.3 | 1743.6 | 1781.6 | 1791.7 |
| 20°    | 360.8 | 487.0 | 813.6 | 917.9 | 1216.5 | 1529.2 | 1631.3 | 1699.5 | 1775.7 | 1799.7 | 1803.7 |
| 22.5°  | 322.7 | 452.9 | 825.7 | 933.9 | 1272.6 | 1585.2 | 1671.4 | 1725.6 | 1777.7 | 1785.6 | 1787.6 |
| 25°    | 290.6 | 414.8 | 823.7 | 952.0 | 1320.7 | 1619.3 | 1685.4 | 1725.6 | 1755.5 | 1759.6 | 1759.6 |
| 27.5°  | 260.6 | 372.8 | 815.6 | 956.0 | 1356.8 | 1627.4 | 1679.5 | 1707.4 | 1721.5 | 1729.6 | 1729.6 |
| 30°    | 234.5 | 332.7 | 795.6 | 947.9 | 1372.8 | 1619.3 | 1661.4 | 1675.5 | 1689.4 | 1701.5 | 1707.4 |
| 32.5°  | 214.4 | 294.6 | 765.5 | 931.9 | 1374.8 | 1599.3 | 1629.4 | 1637.3 | 1657.3 | 1685.4 | 1695.5 |
| 35°    | 196.4 | 256.6 | 731.5 | 909.8 | 1362.8 | 1567.2 | 1587.2 | 1595.3 | 1635.3 | 1677.5 | 1691.4 |
| 37.5°  | 178.4 | 228.5 | 687.4 | 871.8 | 1344.7 | 1529.2 | 1543.1 | 1557.1 | 1619.3 | 1669.4 | 1685.4 |
| 40°    | 160.4 | 204.4 | 635.2 | 829.7 | 1316.7 | 1483.0 | 1495.1 | 1517.1 | 1599.3 | 1657.3 | 1673.4 |
| 42.5°  | 146.3 | 184.4 | 579.2 | 785.6 | 1280.7 | 1431.0 | 1449.0 | 1481.1 | 1575.2 | 1637.3 | 1655.4 |
| 45°    | 134.3 | 164.3 | 519.0 | 725.5 | 1234.5 | 1376.8 | 1402.9 | 1447.0 | 1547.2 | 1607.2 | 1623.3 |
| 47.5°  | 122.2 | 150.3 | 457.0 | 663.3 | 1184.4 | 1322.7 | 1356.8 | 1406.8 | 1509.0 | 1567.2 | 1581.2 |
| 50°    | 112.2 | 136.3 | 394.8 | 597.2 | 1130.3 | 1264.6 | 1304.7 | 1356.8 | 1461.0 | 1515.1 | 1533.1 |
| 52.5°  | 104.2 | 124.3 | 336.6 | 531.1 | 1068.2 | 1204.5 | 1250.6 | 1304.7 | 1402.9 | 1455.0 | 1467.0 |
| 55°    | 96.2  | 114.2 | 286.5 | 460.9 | 1004.1 | 1140.3 | 1190.4 | 1242.5 | 1338.7 | 1382.8 | 1390.8 |
| 57.5°  | 92.2  | 106.2 | 244.5 | 394.8 | 935.9  | 1068.2 | 1124.3 | 1172.4 | 1262.5 | 1296.7 | 1304.7 |
| 60°    | 86.2  | 100.2 | 212.4 | 338.7 | 861.7  | 1000.1 | 1048.2 | 1096.2 | 1172.4 | 1200.5 | 1206.5 |
| 62.5°  | 80.2  | 96.2  | 188.3 | 284.6 | 785.6  | 919.9  | 968.0  | 1012.0 | 1076.2 | 1096.2 | 1104.3 |
| 65°    | 76.2  | 92.2  | 170.3 | 244.5 | 707.5  | 835.7  | 883.9  | 921.9  | 974.0  | 994.0  | 998.0  |
| 67.5°  | 72.1  | 88.1  | 156.3 | 210.5 | 629.3  | 751.6  | 787.6  | 823.7  | 863.7  | 883.9  | 885.8  |
| 70°    | 66.1  | 84.2  | 144.3 | 186.4 | 549.1  | 655.4  | 685.4  | 723.5  | 755.6  | 765.5  | 771.6  |
| 72.5°  | 62.2  | 78.2  | 136.3 | 168.3 | 466.9  | 563.1  | 591.2  | 613.2  | 641.3  | 651.3  | 651.3  |
| 75°    | 56.1  | 70.1  | 128.3 | 150.3 | 382.8  | 460.9  | 485.0  | 507.1  | 529.1  | 533.1  | 527.1  |
| 77.5°  | 50.1  | 62.2  | 110.3 | 126.3 | 298.6  | 364.7  | 384.8  | 396.8  | 414.8  | 418.8  | 420.8  |
| 80°    | 42.1  | 54.1  | 86.2  | 98.2  | 216.4  | 268.5  | 282.6  | 292.6  | 308.7  | 308.7  | 312.6  |
| 82.5°  | 32.1  | 42.1  | 62.2  | 70.1  | 146.3  | 184.4  | 196.4  | 202.4  | 212.4  | 212.4  | 212.4  |
| 85°    | 20.0  | 26.1  | 40.0  | 46.1  | 88.1   | 112.2  | 120.2  | 122.2  | 130.3  | 132.3  | 132.3  |
| 87.5°  | 10.1  | 14.0  | 26.1  | 28.1  | 46.1   | 58.2   | 58.2   | 62.2   | 62.2   | 60.2   | 58.2   |
| 90°    | 9.3   | 16.6  | 24.0  | 25.9  | 40.7   | 60.6   | 70.4   | 62.5   | 46.9   | 35.2   | 35.2   |
| 92.5°  | 37.1  | 100.0 | 163.0 | 178.8 | 251.3  | 348.0  | 396.4  | 347.4  | 249.5  | 176.0  | 169.0  |
| 95°    | 88.9  | 204.2 | 319.5 | 348.3 | 618.4  | 978.7  | 1158.7 | 1034.0 | 784.5  | 597.4  | 576.2  |
| 97.5°  | 153.8 | 255.5 | 357.2 | 382.6 | 833.1  | 1433.6 | 1733.9 | 1655.1 | 1497.4 | 1379.2 | 1338.8 |
| 100°   | 203.8 | 296.0 | 388.2 | 411.2 | 911.1  | 1577.6 | 1910.8 | 1916.6 | 1928.2 | 1936.8 | 1888.7 |
| 102.5° | 246.4 | 332.5 | 418.4 | 439.9 | 946.9  | 1622.9 | 1960.9 | 2061.3 | 2262.2 | 2412.9 | 2371.8 |
| 105°   | 318.6 | 391.5 | 464.3 | 482.6 | 973.5  | 1628.1 | 1955.3 | 2180.5 | 2630.9 | 2968.7 | 2946.6 |
| 107.5° | 392.7 | 460.6 | 528.6 | 545.6 | 978.5  | 1555.7 | 1844.2 | 2158.3 | 2786.5 | 3257.6 | 3263.0 |
| 110°   | 442.7 | 504.1 | 565.4 | 580.8 | 971.0  | 1491.4 | 1751.6 | 2102.8 | 2805.0 | 3331.7 | 3354.7 |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 10°    | 20°    | 22.5°  | 30°    | 40°    | 45°    | 50°    | 60°    | 67.5°  | 70°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 491.8  | 550.3  | 608.8  | 623.4  | 971.4  | 1435.3 | 1667.3 | 2026.7 | 2745.5 | 3284.5 | 3319.9 |
| 115°   | 565.9  | 619.8  | 673.8  | 687.2  | 980.3  | 1371.0 | 1566.3 | 1912.5 | 2604.9 | 3124.3 | 3173.4 |
| 117.5° | 639.1  | 688.1  | 737.0  | 749.3  | 998.5  | 1330.7 | 1496.8 | 1809.2 | 2434.1 | 2902.8 | 2957.3 |
| 120°   | 681.8  | 727.9  | 773.9  | 785.4  | 1013.3 | 1317.1 | 1469.0 | 1754.5 | 2325.5 | 2753.7 | 2806.6 |
| 122.5° | 723.4  | 769.9  | 816.4  | 828.1  | 1034.6 | 1310.0 | 1447.7 | 1704.8 | 2219.0 | 2604.6 | 2656.8 |
| 125°   | 787.3  | 829.8  | 872.2  | 882.8  | 1063.3 | 1304.2 | 1424.6 | 1643.0 | 2079.7 | 2407.3 | 2455.4 |
| 127.5° | 839.2  | 882.1  | 924.9  | 935.5  | 1092.1 | 1300.8 | 1405.2 | 1592.7 | 1967.7 | 2249.0 | 2289.5 |
| 130°   | 867.0  | 913.1  | 959.1  | 970.7  | 1113.0 | 1302.8 | 1397.7 | 1564.6 | 1898.5 | 2148.9 | 2186.3 |
| 132.5° | 895.7  | 941.8  | 987.8  | 999.4  | 1130.0 | 1304.2 | 1391.2 | 1540.6 | 1839.5 | 2063.7 | 2097.3 |
| 135°   | 938.3  | 980.3  | 1022.3 | 1032.8 | 1148.6 | 1303.0 | 1380.2 | 1505.3 | 1755.5 | 1943.3 | 1972.2 |
| 137.5° | 981.9  | 1023.4 | 1065.0 | 1075.4 | 1176.4 | 1310.9 | 1378.3 | 1484.0 | 1695.7 | 1854.4 | 1878.1 |
| 140°   | 1017.9 | 1056.2 | 1094.5 | 1104.1 | 1193.3 | 1312.3 | 1371.8 | 1463.2 | 1646.0 | 1783.0 | 1805.2 |
| 142.5° | 1045.7 | 1081.2 | 1116.5 | 1125.4 | 1207.6 | 1317.0 | 1371.8 | 1452.1 | 1612.6 | 1733.0 | 1752.1 |
| 145°   | 1088.3 | 1119.2 | 1150.1 | 1157.8 | 1226.1 | 1317.0 | 1362.5 | 1428.2 | 1559.5 | 1658.0 | 1672.5 |
| 147.5° | 1131.0 | 1161.0 | 1191.1 | 1198.6 | 1253.3 | 1326.1 | 1362.5 | 1414.2 | 1517.5 | 1595.0 | 1606.9 |
| 150°   | 1158.7 | 1185.9 | 1213.1 | 1219.9 | 1267.4 | 1330.9 | 1362.5 | 1406.2 | 1493.4 | 1558.8 | 1568.5 |
| 152.5° | 1187.4 | 1208.0 | 1228.6 | 1233.7 | 1276.7 | 1333.9 | 1362.5 | 1399.8 | 1474.3 | 1530.2 | 1537.4 |
| 155°   | 1230.1 | 1245.3 | 1260.5 | 1264.3 | 1297.1 | 1340.7 | 1362.5 | 1392.2 | 1451.5 | 1495.9 | 1500.8 |
| 157.5° | 1261.5 | 1276.4 | 1291.2 | 1294.9 | 1317.4 | 1347.5 | 1362.5 | 1385.5 | 1431.7 | 1466.2 | 1469.6 |
| 160°   | 1282.8 | 1294.4 | 1306.0 | 1308.8 | 1326.8 | 1350.6 | 1362.5 | 1382.2 | 1421.8 | 1451.5 | 1453.5 |
| 162.5° | 1304.2 | 1312.8 | 1321.4 | 1323.6 | 1336.5 | 1353.9 | 1362.5 | 1379.2 | 1412.5 | 1437.5 | 1439.4 |
| 165°   | 1327.4 | 1335.1 | 1342.9 | 1344.9 | 1350.8 | 1358.6 | 1362.5 | 1374.5 | 1398.3 | 1416.2 | 1418.2 |
| 167.5° | 1348.6 | 1352.3 | 1356.1 | 1357.0 | 1361.9 | 1368.5 | 1371.8 | 1379.6 | 1395.2 | 1406.9 | 1407.7 |
| 170°   | 1362.5 | 1366.2 | 1370.0 | 1370.9 | 1371.2 | 1371.6 | 1371.8 | 1379.6 | 1395.2 | 1406.9 | 1406.9 |
| 172.5° | 1369.9 | 1370.7 | 1371.6 | 1371.8 | 1371.8 | 1371.8 | 1371.8 | 1378.0 | 1390.3 | 1399.6 | 1398.9 |
| 175°   | 1380.2 | 1380.2 | 1380.2 | 1380.2 | 1377.4 | 1373.7 | 1371.8 | 1375.7 | 1383.5 | 1389.4 | 1389.4 |
| 177.5° | 1380.2 | 1380.2 | 1380.2 | 1380.2 | 1378.0 | 1375.1 | 1373.7 | 1376.8 | 1382.9 | 1387.5 | 1386.7 |
| 180°   | 1380.2 | 1380.2 | 1380.2 | 1380.2 | 1380.2 | 1380.2 | 1380.2 | 1380.2 | 1380.2 | 1380.2 | 1380.2 |

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CATALOG NUMBER: SQ4-FB-075U-050D-B2750-1D-UNV-W2A-W-12-2700K

**CANDELA DISTRIBUTION (continued):**

|        | 80°    | 90°    |
|--------|--------|--------|
| 0°     | 623.3  | 623.3  |
| 2.5°   | 665.3  | 661.3  |
| 5°     | 855.8  | 859.7  |
| 7.5°   | 1152.4 | 1150.4 |
| 10°    | 1432.9 | 1451.0 |
| 12.5°  | 1637.3 | 1641.3 |
| 15°    | 1761.6 | 1769.6 |
| 17.5°  | 1809.7 | 1811.7 |
| 20°    | 1811.7 | 1807.7 |
| 22.5°  | 1789.6 | 1785.6 |
| 25°    | 1763.6 | 1761.6 |
| 27.5°  | 1739.5 | 1741.6 |
| 30°    | 1729.6 | 1735.5 |
| 32.5°  | 1729.6 | 1739.5 |
| 35°    | 1733.5 | 1743.6 |
| 37.5°  | 1731.5 | 1743.6 |
| 40°    | 1723.5 | 1737.5 |
| 42.5°  | 1701.5 | 1711.5 |
| 45°    | 1667.4 | 1679.5 |
| 47.5°  | 1623.3 | 1631.3 |
| 50°    | 1567.2 | 1575.2 |
| 52.5°  | 1497.1 | 1499.1 |
| 55°    | 1412.9 | 1420.9 |
| 57.5°  | 1322.7 | 1324.7 |
| 60°    | 1222.5 | 1228.5 |
| 62.5°  | 1116.3 | 1116.3 |
| 65°    | 1004.1 | 1008.1 |
| 67.5°  | 887.8  | 897.8  |
| 70°    | 769.6  | 771.6  |
| 72.5°  | 653.4  | 653.4  |
| 75°    | 533.1  | 535.1  |
| 77.5°  | 418.8  | 418.8  |
| 80°    | 310.7  | 312.6  |
| 82.5°  | 214.4  | 218.4  |
| 85°    | 134.3  | 134.3  |
| 87.5°  | 62.2   | 56.1   |
| 90°    | 35.2   | 35.2   |
| 92.5°  | 141.0  | 113.0  |
| 95°    | 491.4  | 406.7  |
| 97.5°  | 1177.5 | 1016.1 |
| 100°   | 1696.5 | 1504.3 |
| 102.5° | 2207.0 | 2042.4 |
| 105°   | 2858.0 | 2769.5 |
| 107.5° | 3284.4 | 3305.8 |
| 110°   | 3447.0 | 3539.2 |



TEST NUMBER: P937077

CATALOG NUMBER: SQ4-FB-075U-050D-B2750-1D-UNV-W2A-W-12-2700K

**CANDELA DISTRIBUTION (continued):**

|        | 80°    | 90°    |
|--------|--------|--------|
| 112.5° | 3461.5 | 3603.1 |
| 115°   | 3369.7 | 3566.1 |
| 117.5° | 3175.0 | 3392.9 |
| 120°   | 3018.3 | 3229.8 |
| 122.5° | 2865.5 | 3074.3 |
| 125°   | 2647.7 | 2839.9 |
| 127.5° | 2451.8 | 2613.9 |
| 130°   | 2336.2 | 2486.1 |
| 132.5° | 2231.4 | 2365.7 |
| 135°   | 2087.9 | 2203.6 |
| 137.5° | 1972.7 | 2067.4 |
| 140°   | 1893.7 | 1982.1 |
| 142.5° | 1828.3 | 1904.4 |
| 145°   | 1730.1 | 1787.6 |
| 147.5° | 1654.7 | 1702.5 |
| 150°   | 1607.2 | 1646.0 |
| 152.5° | 1566.7 | 1595.9 |
| 155°   | 1520.1 | 1539.4 |
| 157.5° | 1483.2 | 1496.8 |
| 160°   | 1461.2 | 1469.0 |
| 162.5° | 1446.8 | 1454.3 |
| 165°   | 1426.0 | 1433.8 |
| 167.5° | 1411.1 | 1414.4 |
| 170°   | 1406.9 | 1406.9 |
| 172.5° | 1396.0 | 1393.1 |
| 175°   | 1389.4 | 1389.4 |
| 177.5° | 1383.4 | 1380.2 |
| 180°   | 1380.2 | 1380.2 |

TEST NUMBER: P937077

CATALOG NUMBER: SQ4-FB-075U-050D-B2750-1D-UNV-W2A-W-12-2700K

**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 | 1.74             | 2.51  | 2.81  | 3.58  | 5.05  | 14.93          | 15.70 | 16.00 | 16.77 | 18.24 |
|                 | 3H   | 2.44             | 3.12  | 3.52  | 4.21  | 5.69  | 16.77          | 17.46 | 17.85 | 18.54 | 20.03 |
|                 | 4H   | 2.73             | 3.38  | 3.82  | 4.47  | 5.96  | 17.41          | 18.07 | 18.50 | 19.15 | 20.64 |
|                 | 6H   | 2.98             | 3.58  | 4.08  | 4.67  | 6.17  | 17.84          | 18.44 | 18.94 | 19.53 | 21.04 |
|                 | 8H   | 3.04             | 3.61  | 4.14  | 4.72  | 6.22  | 17.96          | 18.54 | 19.07 | 19.64 | 21.14 |
|                 | 12H  | 3.06             | 3.60  | 4.16  | 4.70  | 6.22  | 18.03          | 18.58 | 19.14 | 19.67 | 21.20 |
| 4H              | 2H   | 8.95             | 9.61  | 10.05 | 10.69 | 12.18 | 15.19          | 15.85 | 16.29 | 16.93 | 18.42 |
|                 | 3H   | 10.51            | 11.06 | 11.61 | 12.17 | 13.67 | 17.24          | 17.78 | 18.34 | 18.89 | 20.40 |
|                 | 4H   | 10.60            | 11.10 | 11.71 | 12.20 | 13.73 | 18.00          | 18.50 | 19.11 | 19.61 | 21.13 |
|                 | 6H   | 10.61            | 11.04 | 11.72 | 12.16 | 13.68 | 18.54          | 18.97 | 19.66 | 20.10 | 21.61 |
|                 | 8H   | 10.58            | 10.98 | 11.70 | 12.10 | 13.63 | 18.70          | 19.10 | 19.82 | 20.22 | 21.76 |
|                 | 12H  | 10.53            | 10.90 | 11.66 | 12.03 | 13.56 | 18.79          | 19.16 | 19.93 | 20.29 | 21.83 |
| 8H              | 4H   | 12.04            | 12.44 | 13.16 | 13.56 | 15.09 | 18.05          | 18.46 | 19.17 | 19.57 | 21.11 |
|                 | 6H   | 12.28            | 12.61 | 13.42 | 13.77 | 15.30 | 18.68          | 19.02 | 19.82 | 20.18 | 21.71 |
|                 | 8H   | 12.29            | 12.59 | 13.44 | 13.73 | 15.28 | 18.90          | 19.20 | 20.05 | 20.34 | 21.89 |
|                 | 12H  | 12.26            | 12.51 | 13.41 | 13.65 | 15.24 | 19.05          | 19.30 | 20.20 | 20.44 | 22.03 |
| 12H             | 4H   | 12.18            | 12.55 | 13.31 | 13.67 | 15.21 | 18.00          | 18.37 | 19.14 | 19.50 | 21.04 |
|                 | 6H   | 12.54            | 12.83 | 13.68 | 13.97 | 15.52 | 18.66          | 18.96 | 19.81 | 20.10 | 21.65 |
|                 | 8H   | 12.60            | 12.86 | 13.75 | 13.99 | 15.58 | 18.89          | 19.15 | 20.04 | 20.29 | 21.87 |