

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: P937049

Luminaire Tested: SQ4-FB-075U-050D-930-1D-UNV-STD-W-12

Issue Date: 12/17/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P937049  
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-930-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L  
Light Source: -  
Ballast/Driver: -

**Summary**

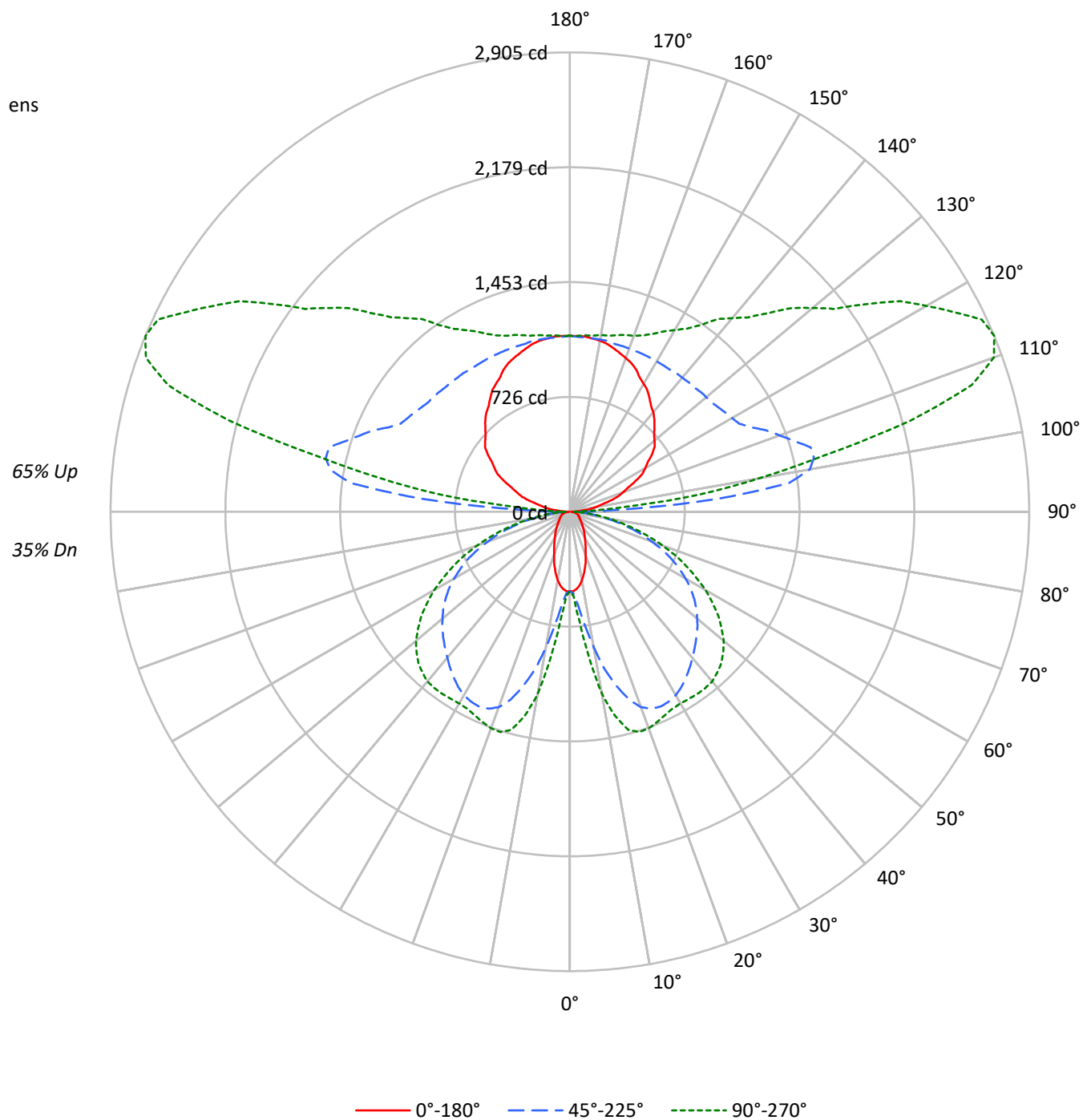
Lumens per Lamp: N/A  
Luminaire Lumens: 11104.7 lumens  
Efficiency: N/A  
Efficacy: 107.6 lumens/watt  
Spacing Criteria (0/90/45): 0.71 / 2.69 / 2.33  
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 12' x H: 0.1')  
CIE Type: Semi-Indirect

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: P937049

CATALOG NUMBER: SQ4-FB-075U-050D-930-1D-UNV-STD-W-12

### Luminous Intensity Polar Plot



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**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°  | 1554 | 1554 | 1554 |
| 5°  | 1519 | 1797 | 2089 |
| 10° | 1378 | 2620 | 3464 |
| 15° | 1172 | 3424 | 4182 |
| 20° | 954  | 3968 | 4262 |
| 25° | 797  | 4154 | 4176 |
| 30° | 672  | 4181 | 4168 |
| 35° | 595  | 4113 | 4276 |
| 40° | 518  | 4024 | 4387 |
| 45° | 469  | 3959 | 4404 |
| 50° | 431  | 3900 | 4331 |
| 55° | 414  | 3815 | 4139 |
| 60° | 424  | 3649 | 3836 |
| 65° | 441  | 3396 | 3419 |
| 70° | 471  | 2964 | 2889 |
| 75° | 524  | 2419 | 2254 |
| 80° | 578  | 1679 | 1519 |
| 85° | 522  | 892  | 777  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4404 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 65.0    | 0.6       |
| 10°-20°   | 288.1   | 2.6       |
| 20°-30°   | 503.9   | 4.5       |
| 30°-40°   | 648.7   | 5.8       |
| 40°-50°   | 724.5   | 6.5       |
| 50°-60°   | 693.9   | 6.2       |
| 60°-70°   | 550.0   | 5.0       |
| 70°-80°   | 323.4   | 2.9       |
| 80°-90°   | 94.1    | 0.8       |
| 90°-100°  | 542.4   | 4.9       |
| 100°-110° | 1426.0  | 12.8      |
| 110°-120° | 1478.5  | 13.3      |
| 120°-130° | 1186.0  | 10.7      |
| 130°-140° | 930.6   | 8.4       |
| 140°-150° | 714.3   | 6.4       |
| 150°-160° | 514.4   | 4.6       |
| 160°-170° | 314.7   | 2.8       |
| 170°-180° | 106.3   | 1.0       |
| <hr/>     |         |           |
| 0°-30°    | 857.0   | 7.7       |
| 0°-40°    | 1505.7  | 13.6      |
| 0°-60°    | 2924.1  | 26.3      |
| 0°-90°    | 3891.6  | 35.0      |
| 90°-120°  | 3446.9  | 31.0      |
| 90°-150°  | 6277.7  | 56.5      |
| 90°-180°  | 7213.0  | 65.0      |
| 0°-180°   | 11104.7 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 502  | 502   | 502  | 502   | 502  |      |
| 5°   | 490  | 525   | 591  | 669   | 693  | 45   |
| 15°  | 367  | 677   | 1141 | 1383  | 1427 | 102  |
| 25°  | 234  | 768   | 1359 | 1419  | 1420 | 108  |
| 35°  | 158  | 734   | 1280 | 1352  | 1406 | 99   |
| 45°  | 108  | 585   | 1131 | 1296  | 1354 | 84   |
| 55°  | 78   | 372   | 960  | 1115  | 1146 | 71   |
| 65°  | 61   | 197   | 713  | 801   | 813  | 61   |
| 75°  | 45   | 121   | 391  | 430   | 431  | 47   |
| 85°  | 16   | 37    | 97   | 107   | 108  | 17   |
| 90°  | 8    | 21    | 57   | 28    | 28   | 7    |
| 95°  | 72   | 281   | 934  | 482   | 328  | 80   |
| 105° | 257  | 389   | 1576 | 2393  | 2233 | 272  |
| 115° | 456  | 554   | 1263 | 2519  | 2875 | 451  |
| 125° | 635  | 712   | 1148 | 1941  | 2290 | 564  |
| 135° | 756  | 833   | 1113 | 1567  | 1777 | 585  |
| 145° | 877  | 934   | 1098 | 1337  | 1441 | 550  |
| 155° | 992  | 1019  | 1098 | 1206  | 1241 | 456  |
| 165° | 1070 | 1084  | 1098 | 1142  | 1156 | 302  |
| 175° | 1113 | 1113  | 1106 | 1120  | 1120 | 106  |
| 180° | 1113 | 1113  | 1113 | 1113  | 1113 |      |

TEST NUMBER: P937049

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 10°   | 20°   | 22.5° | 30°    | 40°    | 45°    | 50°    | 60°    | 67.5°  | 70°    |
|--------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 502.5 | 502.5 | 502.5 | 502.5 | 502.5  | 502.5  | 502.5  | 502.5  | 502.5  | 502.5  | 502.5  |
| 2.5°   | 502.5 | 502.5 | 505.7 | 507.3 | 510.5  | 512.2  | 515.4  | 518.7  | 528.4  | 530.0  | 533.2  |
| 5°     | 489.6 | 496.0 | 517.1 | 525.1 | 547.7  | 578.4  | 591.3  | 612.4  | 656.0  | 668.9  | 677.0  |
| 7.5°   | 470.2 | 484.7 | 536.4 | 549.3 | 605.9  | 686.7  | 720.6  | 765.9  | 835.4  | 869.2  | 896.7  |
| 10°    | 439.5 | 470.2 | 562.3 | 593.0 | 685.0  | 807.9  | 870.9  | 933.9  | 1038.9 | 1085.8 | 1103.6 |
| 12.5°  | 405.5 | 455.6 | 589.7 | 631.7 | 764.2  | 943.6  | 1019.6 | 1089.0 | 1208.6 | 1271.6 | 1281.3 |
| 15°    | 366.8 | 434.7 | 615.6 | 677.0 | 848.3  | 1056.7 | 1140.7 | 1226.3 | 1337.9 | 1383.1 | 1394.4 |
| 17.5°  | 332.8 | 418.4 | 639.8 | 704.5 | 912.9  | 1158.5 | 1244.1 | 1315.2 | 1405.7 | 1436.4 | 1444.5 |
| 20°    | 290.8 | 392.7 | 656.0 | 740.0 | 980.8  | 1232.8 | 1315.2 | 1370.2 | 1431.6 | 1450.9 | 1454.2 |
| 22.5°  | 260.2 | 365.1 | 665.7 | 753.0 | 1026.0 | 1278.1 | 1347.5 | 1391.2 | 1433.2 | 1439.6 | 1441.2 |
| 25°    | 234.3 | 334.4 | 664.1 | 767.5 | 1064.8 | 1305.5 | 1358.8 | 1391.2 | 1415.4 | 1418.7 | 1418.7 |
| 27.5°  | 210.1 | 300.6 | 657.6 | 770.7 | 1093.8 | 1312.0 | 1354.0 | 1376.6 | 1387.9 | 1394.4 | 1394.4 |
| 30°    | 189.0 | 268.2 | 641.4 | 764.2 | 1106.8 | 1305.5 | 1339.5 | 1350.8 | 1362.0 | 1371.8 | 1376.6 |
| 32.5°  | 172.9 | 237.5 | 617.2 | 751.3 | 1108.4 | 1289.4 | 1313.6 | 1320.1 | 1336.2 | 1358.8 | 1366.9 |
| 35°    | 158.4 | 206.9 | 589.7 | 733.5 | 1098.7 | 1263.5 | 1279.7 | 1286.2 | 1318.4 | 1352.4 | 1363.7 |
| 37.5°  | 143.8 | 184.2 | 554.2 | 702.9 | 1084.1 | 1232.8 | 1244.1 | 1255.4 | 1305.5 | 1345.9 | 1358.8 |
| 40°    | 129.3 | 164.8 | 512.2 | 668.9 | 1061.6 | 1195.7 | 1205.4 | 1223.1 | 1289.4 | 1336.2 | 1349.1 |
| 42.5°  | 118.0 | 148.6 | 466.9 | 633.4 | 1032.5 | 1153.7 | 1168.2 | 1194.1 | 1269.9 | 1320.1 | 1334.6 |
| 45°    | 108.2 | 132.5 | 418.4 | 584.9 | 995.3  | 1110.0 | 1131.0 | 1166.6 | 1247.4 | 1295.8 | 1308.7 |
| 47.5°  | 98.5  | 121.2 | 368.4 | 534.8 | 954.9  | 1066.4 | 1093.8 | 1134.2 | 1216.6 | 1263.5 | 1274.8 |
| 50°    | 90.5  | 109.9 | 318.3 | 481.5 | 911.2  | 1019.6 | 1051.8 | 1093.8 | 1177.9 | 1221.5 | 1236.1 |
| 52.5°  | 84.0  | 100.2 | 271.4 | 428.2 | 861.2  | 971.1  | 1008.2 | 1051.8 | 1131.0 | 1173.0 | 1182.7 |
| 55°    | 77.6  | 92.1  | 231.0 | 371.6 | 809.5  | 919.4  | 959.7  | 1001.7 | 1079.3 | 1114.9 | 1121.3 |
| 57.5°  | 74.4  | 85.6  | 197.1 | 318.3 | 754.6  | 861.2  | 906.4  | 945.2  | 1017.9 | 1045.4 | 1051.8 |
| 60°    | 69.5  | 80.8  | 171.3 | 273.1 | 694.8  | 806.3  | 845.1  | 883.8  | 945.2  | 967.9  | 972.7  |
| 62.5°  | 64.6  | 77.6  | 151.8 | 229.4 | 633.4  | 741.7  | 780.4  | 815.9  | 867.6  | 883.8  | 890.3  |
| 65°    | 61.4  | 74.4  | 137.3 | 197.1 | 570.4  | 673.8  | 712.6  | 743.3  | 785.3  | 801.4  | 804.6  |
| 67.5°  | 58.1  | 71.1  | 126.0 | 169.7 | 507.3  | 605.9  | 635.0  | 664.1  | 696.4  | 712.6  | 714.2  |
| 70°    | 53.3  | 67.9  | 116.4 | 150.2 | 442.7  | 528.4  | 552.6  | 583.3  | 609.2  | 617.2  | 622.1  |
| 72.5°  | 50.1  | 63.0  | 109.9 | 135.7 | 376.4  | 454.0  | 476.7  | 494.4  | 517.1  | 525.1  | 525.1  |
| 75°    | 45.2  | 56.5  | 103.4 | 121.2 | 308.6  | 371.6  | 391.0  | 408.8  | 426.6  | 429.8  | 424.9  |
| 77.5°  | 40.4  | 50.1  | 88.9  | 101.8 | 240.7  | 294.1  | 310.2  | 319.9  | 334.4  | 337.7  | 339.3  |
| 80°    | 34.0  | 43.6  | 69.5  | 79.2  | 174.5  | 216.5  | 227.8  | 235.9  | 248.8  | 248.8  | 252.1  |
| 82.5°  | 25.9  | 34.0  | 50.1  | 56.5  | 118.0  | 148.6  | 158.4  | 163.2  | 171.3  | 171.3  | 171.3  |
| 85°    | 16.1  | 21.0  | 32.3  | 37.2  | 71.1   | 90.5   | 96.9   | 98.5   | 105.0  | 106.6  | 106.6  |
| 87.5°  | 8.1   | 11.3  | 21.0  | 22.6  | 37.2   | 46.9   | 46.9   | 50.1   | 50.1   | 48.5   | 46.9   |
| 90°    | 7.5   | 13.4  | 19.4  | 20.9  | 32.8   | 48.8   | 56.8   | 50.4   | 37.8   | 28.3   | 28.3   |
| 92.5°  | 29.9  | 80.6  | 131.5 | 144.1 | 202.6  | 280.6  | 319.6  | 280.1  | 201.2  | 141.9  | 136.3  |
| 95°    | 71.7  | 164.6 | 257.6 | 280.8 | 498.6  | 789.0  | 934.2  | 833.7  | 632.5  | 481.6  | 464.5  |
| 97.5°  | 124.0 | 206.0 | 288.0 | 308.4 | 671.6  | 1155.8 | 1397.9 | 1334.3 | 1207.2 | 1111.9 | 1079.4 |
| 100°   | 164.3 | 238.7 | 313.0 | 331.6 | 734.6  | 1271.9 | 1540.6 | 1545.2 | 1554.5 | 1561.5 | 1522.7 |
| 102.5° | 198.7 | 268.0 | 337.3 | 354.7 | 763.4  | 1308.4 | 1580.9 | 1661.9 | 1823.9 | 1945.3 | 1912.2 |
| 105°   | 256.9 | 315.7 | 374.4 | 389.1 | 784.9  | 1312.6 | 1576.4 | 1758.0 | 2121.1 | 2393.4 | 2375.6 |
| 107.5° | 316.6 | 371.4 | 426.2 | 439.9 | 788.9  | 1254.2 | 1486.8 | 1740.1 | 2246.6 | 2626.4 | 2630.7 |
| 110°   | 356.9 | 406.4 | 455.9 | 468.2 | 782.8  | 1202.4 | 1412.2 | 1695.3 | 2261.5 | 2686.1 | 2704.7 |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 10°    | 20°    | 22.5°  | 30°    | 40°    | 45°    | 50°    | 60°    | 67.5°  | 70°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 396.5  | 443.7  | 490.8  | 502.6  | 783.2  | 1157.2 | 1344.2 | 1633.9 | 2213.5 | 2648.1 | 2676.6 |
| 115°   | 456.3  | 499.7  | 543.2  | 554.1  | 790.3  | 1105.3 | 1262.8 | 1541.9 | 2100.2 | 2518.9 | 2558.4 |
| 117.5° | 515.3  | 554.8  | 594.2  | 604.1  | 805.0  | 1072.8 | 1206.7 | 1458.6 | 1962.5 | 2340.3 | 2384.3 |
| 120°   | 549.7  | 586.8  | 623.9  | 633.2  | 817.0  | 1061.9 | 1184.3 | 1414.5 | 1874.8 | 2220.1 | 2262.8 |
| 122.5° | 583.2  | 620.7  | 658.2  | 667.6  | 834.2  | 1056.2 | 1167.2 | 1374.4 | 1789.0 | 2099.9 | 2142.0 |
| 125°   | 634.8  | 669.0  | 703.2  | 711.7  | 857.3  | 1051.4 | 1148.5 | 1324.6 | 1676.7 | 1940.9 | 1979.6 |
| 127.5° | 676.6  | 711.1  | 745.7  | 754.3  | 880.5  | 1048.7 | 1132.9 | 1284.1 | 1586.4 | 1813.2 | 1845.9 |
| 130°   | 699.0  | 736.2  | 773.3  | 782.6  | 897.4  | 1050.3 | 1126.8 | 1261.4 | 1530.6 | 1732.5 | 1762.7 |
| 132.5° | 722.1  | 759.3  | 796.4  | 805.7  | 911.0  | 1051.4 | 1121.6 | 1242.1 | 1483.1 | 1663.8 | 1690.9 |
| 135°   | 756.5  | 790.3  | 824.2  | 832.6  | 926.0  | 1050.5 | 1112.7 | 1213.6 | 1415.4 | 1566.7 | 1590.0 |
| 137.5° | 791.6  | 825.1  | 858.6  | 867.0  | 948.4  | 1056.9 | 1111.2 | 1196.5 | 1367.1 | 1495.0 | 1514.1 |
| 140°   | 820.7  | 851.5  | 882.4  | 890.1  | 962.1  | 1058.0 | 1106.0 | 1179.7 | 1327.0 | 1437.5 | 1455.4 |
| 142.5° | 843.1  | 871.7  | 900.2  | 907.3  | 973.6  | 1061.8 | 1106.0 | 1170.7 | 1300.1 | 1397.2 | 1412.6 |
| 145°   | 877.4  | 902.3  | 927.2  | 933.5  | 988.5  | 1061.8 | 1098.5 | 1151.4 | 1257.3 | 1336.8 | 1348.4 |
| 147.5° | 911.8  | 936.1  | 960.3  | 966.3  | 1010.4 | 1069.1 | 1098.5 | 1140.2 | 1223.5 | 1285.9 | 1295.6 |
| 150°   | 934.2  | 956.1  | 978.1  | 983.5  | 1021.8 | 1073.0 | 1098.5 | 1133.7 | 1204.0 | 1256.8 | 1264.6 |
| 152.5° | 957.3  | 974.0  | 990.5  | 994.7  | 1029.3 | 1075.5 | 1098.5 | 1128.5 | 1188.6 | 1233.6 | 1239.5 |
| 155°   | 991.7  | 1004.0 | 1016.3 | 1019.3 | 1045.7 | 1080.9 | 1098.5 | 1122.4 | 1170.2 | 1206.0 | 1210.0 |
| 157.5° | 1017.1 | 1029.0 | 1041.0 | 1044.0 | 1062.1 | 1086.4 | 1098.5 | 1117.1 | 1154.2 | 1182.1 | 1184.8 |
| 160°   | 1034.3 | 1043.6 | 1052.9 | 1055.2 | 1069.7 | 1088.9 | 1098.5 | 1114.4 | 1146.3 | 1170.2 | 1171.8 |
| 162.5° | 1051.4 | 1058.4 | 1065.3 | 1067.1 | 1077.5 | 1091.5 | 1098.5 | 1111.9 | 1138.8 | 1159.0 | 1160.5 |
| 165°   | 1070.2 | 1076.4 | 1082.7 | 1084.3 | 1089.0 | 1095.4 | 1098.5 | 1108.1 | 1127.3 | 1141.8 | 1143.4 |
| 167.5° | 1087.3 | 1090.2 | 1093.3 | 1094.0 | 1098.0 | 1103.3 | 1106.0 | 1112.2 | 1124.8 | 1134.3 | 1135.0 |
| 170°   | 1098.5 | 1101.5 | 1104.5 | 1105.2 | 1105.5 | 1105.8 | 1106.0 | 1112.2 | 1124.8 | 1134.3 | 1134.3 |
| 172.5° | 1104.4 | 1105.1 | 1105.8 | 1106.0 | 1106.0 | 1106.0 | 1106.0 | 1111.0 | 1120.9 | 1128.4 | 1127.8 |
| 175°   | 1112.7 | 1112.7 | 1112.7 | 1112.7 | 1110.5 | 1107.5 | 1106.0 | 1109.1 | 1115.4 | 1120.2 | 1120.2 |
| 177.5° | 1112.7 | 1112.7 | 1112.7 | 1112.7 | 1111.0 | 1108.6 | 1107.5 | 1110.0 | 1115.0 | 1118.7 | 1118.0 |
| 180°   | 1112.7 | 1112.7 | 1112.7 | 1112.7 | 1112.7 | 1112.7 | 1112.7 | 1112.7 | 1112.7 | 1112.7 | 1112.7 |

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**CANDELA DISTRIBUTION (continued):**

|        | 80°    | 90°    |
|--------|--------|--------|
| 0°     | 502.5  | 502.5  |
| 2.5°   | 536.4  | 533.2  |
| 5°     | 689.9  | 693.1  |
| 7.5°   | 929.1  | 927.5  |
| 10°    | 1155.3 | 1169.8 |
| 12.5°  | 1320.1 | 1323.3 |
| 15°    | 1420.3 | 1426.7 |
| 17.5°  | 1459.1 | 1460.7 |
| 20°    | 1460.7 | 1457.4 |
| 22.5°  | 1442.8 | 1439.6 |
| 25°    | 1421.9 | 1420.3 |
| 27.5°  | 1402.4 | 1404.1 |
| 30°    | 1394.4 | 1399.2 |
| 32.5°  | 1394.4 | 1402.4 |
| 35°    | 1397.6 | 1405.7 |
| 37.5°  | 1396.0 | 1405.7 |
| 40°    | 1389.5 | 1400.8 |
| 42.5°  | 1371.8 | 1379.9 |
| 45°    | 1344.3 | 1354.0 |
| 47.5°  | 1308.7 | 1315.2 |
| 50°    | 1263.5 | 1269.9 |
| 52.5°  | 1207.0 | 1208.6 |
| 55°    | 1139.1 | 1145.6 |
| 57.5°  | 1066.4 | 1068.0 |
| 60°    | 985.6  | 990.4  |
| 62.5°  | 900.0  | 900.0  |
| 65°    | 809.5  | 812.7  |
| 67.5°  | 715.8  | 723.8  |
| 70°    | 620.5  | 622.1  |
| 72.5°  | 526.8  | 526.8  |
| 75°    | 429.8  | 431.4  |
| 77.5°  | 337.7  | 337.7  |
| 80°    | 250.5  | 252.1  |
| 82.5°  | 172.9  | 176.1  |
| 85°    | 108.2  | 108.2  |
| 87.5°  | 50.1   | 45.2   |
| 90°    | 28.3   | 28.3   |
| 92.5°  | 113.7  | 91.1   |
| 95°    | 396.2  | 327.9  |
| 97.5°  | 949.3  | 819.2  |
| 100°   | 1367.7 | 1212.8 |
| 102.5° | 1779.4 | 1646.6 |
| 105°   | 2304.2 | 2232.8 |
| 107.5° | 2648.0 | 2665.2 |
| 110°   | 2779.0 | 2853.4 |



TEST NUMBER: P937049

CATALOG NUMBER: SQ4-FB-075U-050D-930-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (continued):**

|        | 80°    | 90°    |
|--------|--------|--------|
| 112.5° | 2790.7 | 2904.9 |
| 115°   | 2716.7 | 2875.1 |
| 117.5° | 2559.8 | 2735.4 |
| 120°   | 2433.4 | 2604.0 |
| 122.5° | 2310.2 | 2478.5 |
| 125°   | 2134.6 | 2289.6 |
| 127.5° | 1976.7 | 2107.4 |
| 130°   | 1883.5 | 2004.4 |
| 132.5° | 1799.0 | 1907.3 |
| 135°   | 1683.3 | 1776.6 |
| 137.5° | 1590.4 | 1666.8 |
| 140°   | 1526.7 | 1598.1 |
| 142.5° | 1474.0 | 1535.3 |
| 145°   | 1394.8 | 1441.2 |
| 147.5° | 1334.0 | 1372.6 |
| 150°   | 1295.8 | 1327.0 |
| 152.5° | 1263.1 | 1286.6 |
| 155°   | 1225.5 | 1241.1 |
| 157.5° | 1195.8 | 1206.7 |
| 160°   | 1178.1 | 1184.3 |
| 162.5° | 1166.4 | 1172.5 |
| 165°   | 1149.7 | 1156.0 |
| 167.5° | 1137.7 | 1140.3 |
| 170°   | 1134.3 | 1134.3 |
| 172.5° | 1125.5 | 1123.2 |
| 175°   | 1120.2 | 1120.2 |
| 177.5° | 1115.4 | 1112.7 |
| 180°   | 1112.7 | 1112.7 |

TEST NUMBER: P937049

CATALOG NUMBER: SQ4-FB-075U-050D-930-1D-UNV-STD-W-12

**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 | 0.99             | 1.76  | 2.06  | 2.83  | 4.30  | 14.18          | 14.95 | 15.25 | 16.02 | 17.49 |
|                 | 3H   | 1.69             | 2.38  | 2.77  | 3.46  | 4.95  | 16.02          | 16.71 | 17.10 | 17.79 | 19.28 |
|                 | 4H   | 1.98             | 2.64  | 3.07  | 3.72  | 5.21  | 16.67          | 17.32 | 17.76 | 18.40 | 19.89 |
|                 | 6H   | 2.23             | 2.83  | 3.33  | 3.92  | 5.42  | 17.10          | 17.70 | 18.19 | 18.79 | 20.29 |
|                 | 8H   | 2.29             | 2.87  | 3.40  | 3.97  | 5.47  | 17.22          | 17.79 | 18.32 | 18.89 | 20.39 |
|                 | 12H  | 2.31             | 2.85  | 3.42  | 3.95  | 5.47  | 17.28          | 17.83 | 18.39 | 18.93 | 20.45 |
| 4H              | 2H   | 8.20             | 8.86  | 9.30  | 9.94  | 11.43 | 14.45          | 15.10 | 15.54 | 16.18 | 17.67 |
|                 | 3H   | 9.76             | 10.31 | 10.87 | 11.42 | 12.92 | 16.49          | 17.03 | 17.59 | 18.15 | 19.65 |
|                 | 4H   | 9.85             | 10.35 | 10.96 | 11.46 | 12.98 | 17.25          | 17.76 | 18.36 | 18.86 | 20.38 |
|                 | 6H   | 9.86             | 10.29 | 10.97 | 11.41 | 12.93 | 17.79          | 18.22 | 18.91 | 19.35 | 20.87 |
|                 | 8H   | 9.83             | 10.23 | 10.95 | 11.35 | 12.88 | 17.95          | 18.36 | 19.07 | 19.47 | 21.01 |
|                 | 12H  | 9.78             | 10.15 | 10.92 | 11.28 | 12.82 | 18.05          | 18.41 | 19.18 | 19.54 | 21.08 |
| 8H              | 4H   | 11.29            | 11.69 | 12.41 | 12.81 | 14.35 | 17.31          | 17.71 | 18.42 | 18.83 | 20.36 |
|                 | 6H   | 11.53            | 11.86 | 12.67 | 13.02 | 14.55 | 17.93          | 18.27 | 19.07 | 19.43 | 20.96 |
|                 | 8H   | 11.55            | 11.84 | 12.69 | 12.98 | 14.53 | 18.16          | 18.45 | 19.30 | 19.59 | 21.14 |
|                 | 12H  | 11.51            | 11.77 | 12.66 | 12.90 | 14.49 | 18.30          | 18.56 | 19.45 | 19.69 | 21.28 |
| 12H             | 4H   | 11.43            | 11.80 | 12.57 | 12.93 | 14.47 | 17.25          | 17.62 | 18.39 | 18.75 | 20.29 |
|                 | 6H   | 11.79            | 12.08 | 12.93 | 13.22 | 14.77 | 17.92          | 18.21 | 19.06 | 19.35 | 20.90 |
|                 | 8H   | 11.85            | 12.11 | 13.00 | 13.25 | 14.83 | 18.14          | 18.40 | 19.29 | 19.54 | 21.12 |