

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: P938209

Luminaire Tested: SQ4-FB-150U-050D-830-1D-UNV-STD-W-12

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P938209
REPORT IS A COMBINATION OF REPORTS P933621 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FB-150U-050D-830-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

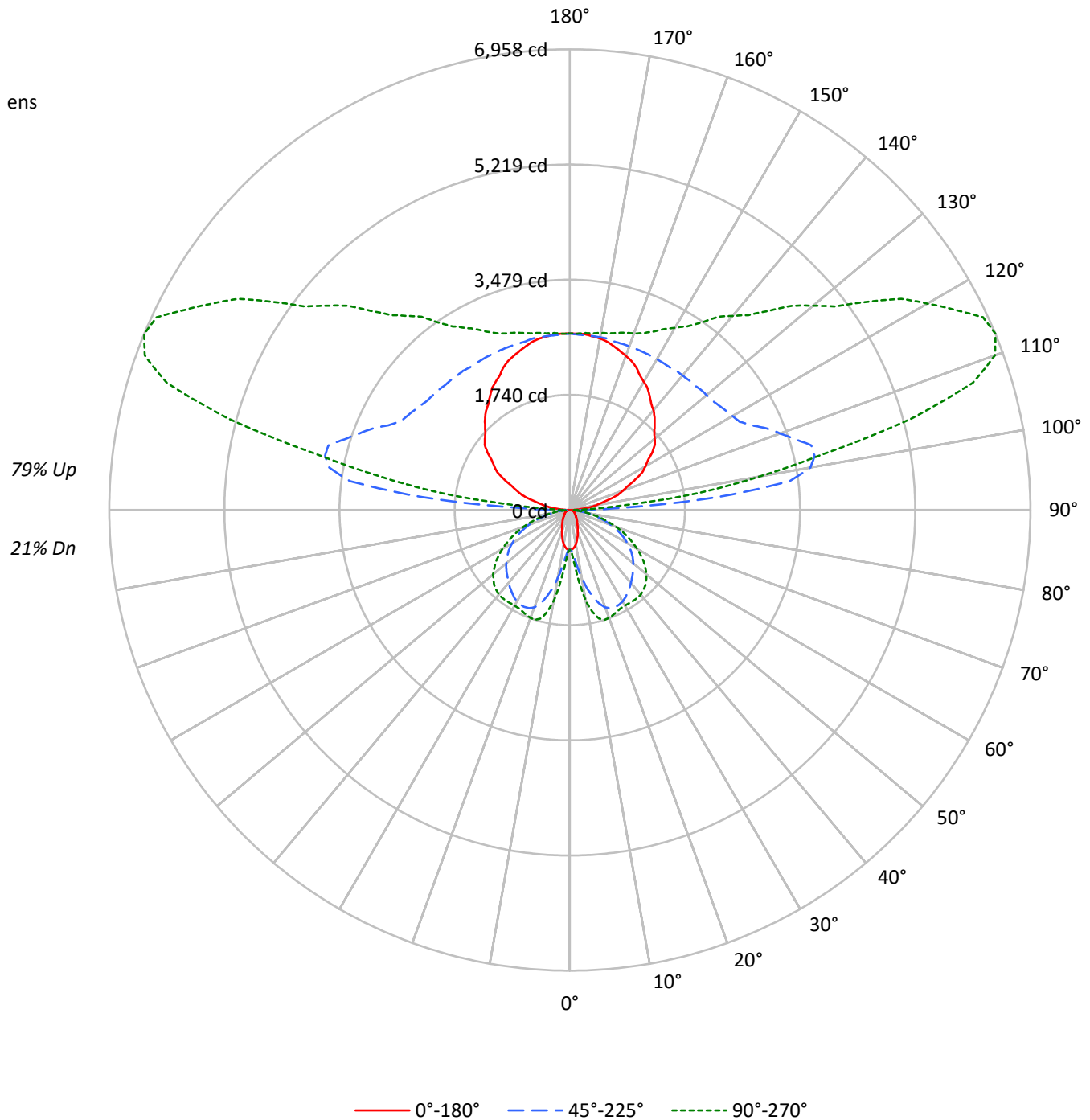
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21916.3 lumens
Efficiency: N/A
Efficacy: 131.4 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): 166.8
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: P938209
CATALOG NUMBER: SQ4-FB-150U-050D-830-1D-UNV-STD-W-12

Luminous Intensity Polar Plot





TEST NUMBER: P938209

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| RF | 20 | | | | 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 | 100 | 100 | 100 | 100 | 89 | 89 | 89 | 89 | 67 | 67 | 67 | 48 | 48 | 48 | 30 | 30 | 30 | 30 | 30 | 30 | 21 |
| 1 | 91 | 87 | 83 | 80 | 80 | 77 | 74 | 71 | 58 | 56 | 54 | 41 | 40 | 39 | 26 | 25 | 24 | 24 | 24 | 24 | 17 |
| 2 | 83 | 75 | 70 | 65 | 73 | 67 | 62 | 58 | 51 | 48 | 45 | 36 | 34 | 32 | 22 | 21 | 20 | 20 | 20 | 20 | 14 |
| 3 | 75 | 66 | 59 | 53 | 66 | 59 | 53 | 48 | 45 | 40 | 37 | 32 | 29 | 27 | 20 | 18 | 17 | 17 | 17 | 17 | 12 |
| 4 | 69 | 58 | 50 | 45 | 60 | 52 | 45 | 40 | 39 | 35 | 31 | 28 | 25 | 23 | 17 | 16 | 14 | 14 | 14 | 14 | 10 |
| 5 | 63 | 51 | 44 | 38 | 55 | 46 | 39 | 34 | 35 | 30 | 27 | 25 | 22 | 19 | 15 | 14 | 12 | 12 | 12 | 12 | 8 |
| 6 | 57 | 46 | 38 | 32 | 51 | 41 | 34 | 29 | 31 | 26 | 23 | 22 | 19 | 17 | 14 | 12 | 11 | 11 | 11 | 11 | 7 |
| 7 | 53 | 41 | 33 | 28 | 47 | 37 | 30 | 25 | 28 | 23 | 20 | 20 | 17 | 14 | 12 | 11 | 9 | 9 | 9 | 9 | 6 |
| 8 | 49 | 37 | 30 | 24 | 43 | 33 | 27 | 22 | 25 | 21 | 17 | 18 | 15 | 13 | 11 | 9 | 8 | 8 | 8 | 8 | 5 |
| 9 | 45 | 34 | 26 | 21 | 40 | 30 | 24 | 19 | 23 | 18 | 15 | 16 | 13 | 11 | 10 | 9 | 7 | 7 | 7 | 7 | 5 |
| 10 | 42 | 31 | 24 | 19 | 37 | 27 | 21 | 17 | 21 | 17 | 14 | 15 | 12 | 10 | 10 | 8 | 6 | 6 | 6 | 6 | 4 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 1851 | 1851 | 1851 |
| 5° | 1809 | 2139 | 2487 |
| 10° | 1641 | 3119 | 4123 |
| 15° | 1395 | 4076 | 4979 |
| 20° | 1136 | 4725 | 5074 |
| 25° | 948 | 4945 | 4971 |
| 30° | 800 | 4978 | 4962 |
| 35° | 708 | 4896 | 5090 |
| 40° | 617 | 4791 | 5223 |
| 45° | 559 | 4713 | 5243 |
| 50° | 513 | 4644 | 5156 |
| 55° | 492 | 4542 | 4928 |
| 60° | 504 | 4345 | 4567 |
| 65° | 526 | 4044 | 4071 |
| 70° | 561 | 3529 | 3439 |
| 75° | 624 | 2879 | 2684 |
| 80° | 687 | 1999 | 1809 |
| 85° | 622 | 1063 | 926 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 90°
 Luminance: 6644 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 77.4 | 0.4 |
| 10°-20° | 343.0 | 1.6 |
| 20°-30° | 599.9 | 2.7 |
| 30°-40° | 772.3 | 3.5 |
| 40°-50° | 862.6 | 3.9 |
| 50°-60° | 826.2 | 3.8 |
| 60°-70° | 654.7 | 3.0 |
| 70°-80° | 385.0 | 1.8 |
| 80°-90° | 117.1 | 0.5 |
| 90°-100° | 1299.2 | 5.9 |
| 100°-110° | 3415.7 | 15.6 |
| 110°-120° | 3541.7 | 16.2 |
| 120°-130° | 2840.9 | 13.0 |
| 130°-140° | 2229.1 | 10.2 |
| 140°-150° | 1710.9 | 7.8 |
| 150°-160° | 1232.1 | 5.6 |
| 160°-170° | 753.9 | 3.4 |
| 170°-180° | 254.7 | 1.2 |
| 0°-30° | 1020.3 | 4.7 |
| 0°-40° | 1792.5 | 8.2 |
| 0°-60° | 3481.3 | 15.9 |
| 0°-90° | 4638.2 | 21.2 |
| 90°-120° | 8256.6 | 37.7 |
| 90°-150° | 15037.4 | 68.6 |
| 90°-180° | 17278.0 | 78.8 |
| 0°-180° | 21916.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 598 | 598 | 598 | 598 | 598 | |
| 5° | 583 | 625 | 704 | 796 | 825 | 54 |
| 15° | 437 | 806 | 1358 | 1647 | 1698 | 122 |
| 25° | 279 | 914 | 1618 | 1689 | 1691 | 128 |
| 35° | 188 | 873 | 1524 | 1610 | 1674 | 118 |
| 45° | 129 | 696 | 1346 | 1543 | 1612 | 100 |
| 55° | 92 | 442 | 1143 | 1327 | 1364 | 84 |
| 65° | 73 | 235 | 848 | 954 | 968 | 72 |
| 75° | 54 | 144 | 466 | 512 | 514 | 56 |
| 85° | 19 | 44 | 115 | 127 | 129 | 20 |
| 90° | 18 | 50 | 136 | 68 | 68 | 16 |
| 95° | 172 | 672 | 2238 | 1154 | 785 | 191 |
| 105° | 615 | 932 | 3776 | 5733 | 5348 | 652 |
| 115° | 1093 | 1327 | 3025 | 6034 | 6887 | 1080 |
| 125° | 1520 | 1705 | 2751 | 4649 | 5484 | 1350 |
| 135° | 1812 | 1994 | 2665 | 3753 | 4256 | 1402 |
| 145° | 2102 | 2236 | 2631 | 3202 | 3452 | 1317 |
| 155° | 2376 | 2442 | 2631 | 2889 | 2973 | 1092 |
| 165° | 2563 | 2597 | 2631 | 2735 | 2769 | 723 |
| 175° | 2665 | 2665 | 2649 | 2683 | 2683 | 253 |
| 180° | 2665 | 2665 | 2665 | 2665 | 2665 | |



TEST NUMBER: P938209

CATALOG NUMBER: SQ4-FB-150U-050D-830-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (FULL):

| | 0° | 10° | 20° | 22.5° | 30° | 40° | 45° | 50° | 60° | 67.5° | 70° |
|--------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 598.3 | 598.3 | 598.3 | 598.3 | 598.3 | 598.3 | 598.3 | 598.3 | 598.3 | 598.3 | 598.3 |
| 2.5° | 598.3 | 598.3 | 602.1 | 604.0 | 607.8 | 609.7 | 613.7 | 617.5 | 629.0 | 631.0 | 634.8 |
| 5° | 582.9 | 590.5 | 615.6 | 625.1 | 652.1 | 688.6 | 704.0 | 729.0 | 781.0 | 796.3 | 806.0 |
| 7.5° | 559.7 | 577.0 | 638.6 | 654.0 | 721.4 | 817.6 | 857.9 | 911.8 | 994.5 | 1034.9 | 1067.6 |
| 10° | 523.2 | 559.7 | 669.4 | 706.0 | 815.6 | 961.8 | 1036.8 | 1111.8 | 1236.9 | 1292.7 | 1313.8 |
| 12.5° | 482.8 | 542.4 | 702.1 | 752.1 | 909.8 | 1123.4 | 1213.8 | 1296.5 | 1438.9 | 1513.9 | 1525.4 |
| 15° | 436.7 | 517.5 | 732.9 | 806.0 | 1009.9 | 1258.0 | 1358.1 | 1460.0 | 1592.8 | 1646.6 | 1660.1 |
| 17.5° | 396.3 | 498.2 | 761.7 | 838.7 | 1086.9 | 1379.2 | 1481.1 | 1565.8 | 1673.6 | 1710.1 | 1719.7 |
| 20° | 346.3 | 467.5 | 781.0 | 881.0 | 1167.7 | 1467.7 | 1565.8 | 1631.2 | 1704.4 | 1727.4 | 1731.2 |
| 22.5° | 309.7 | 434.7 | 792.5 | 896.4 | 1221.5 | 1521.6 | 1604.3 | 1656.3 | 1706.3 | 1713.9 | 1715.8 |
| 25° | 279.0 | 398.2 | 790.6 | 913.7 | 1267.7 | 1554.3 | 1617.7 | 1656.3 | 1685.0 | 1689.0 | 1689.0 |
| 27.5° | 250.1 | 357.8 | 782.9 | 917.6 | 1302.3 | 1562.0 | 1612.0 | 1638.9 | 1652.4 | 1660.1 | 1660.1 |
| 30° | 225.0 | 319.3 | 763.7 | 909.8 | 1317.7 | 1554.3 | 1594.7 | 1608.2 | 1621.6 | 1633.1 | 1638.9 |
| 32.5° | 205.8 | 282.8 | 734.8 | 894.4 | 1319.6 | 1535.0 | 1563.9 | 1571.6 | 1590.8 | 1617.7 | 1627.4 |
| 35° | 188.5 | 246.3 | 702.1 | 873.3 | 1308.1 | 1504.3 | 1523.5 | 1531.2 | 1569.7 | 1610.1 | 1623.5 |
| 37.5° | 171.2 | 219.3 | 659.8 | 836.8 | 1290.7 | 1467.7 | 1481.1 | 1494.6 | 1554.3 | 1602.4 | 1617.7 |
| 40° | 153.9 | 196.2 | 609.7 | 796.3 | 1263.8 | 1423.5 | 1435.1 | 1456.2 | 1535.0 | 1590.8 | 1606.2 |
| 42.5° | 140.4 | 177.0 | 555.9 | 754.1 | 1229.2 | 1373.5 | 1390.8 | 1421.6 | 1511.9 | 1571.6 | 1588.9 |
| 45° | 128.9 | 157.7 | 498.2 | 696.4 | 1185.0 | 1321.5 | 1346.5 | 1388.9 | 1485.1 | 1542.7 | 1558.1 |
| 47.5° | 117.3 | 144.3 | 438.6 | 636.7 | 1136.9 | 1269.6 | 1302.3 | 1350.4 | 1448.4 | 1504.3 | 1517.7 |
| 50° | 107.7 | 130.8 | 379.0 | 573.2 | 1084.9 | 1213.8 | 1252.3 | 1302.3 | 1402.4 | 1454.3 | 1471.6 |
| 52.5° | 100.0 | 119.3 | 323.1 | 509.7 | 1025.3 | 1156.1 | 1200.4 | 1252.3 | 1346.5 | 1396.5 | 1408.1 |
| 55° | 92.3 | 109.7 | 275.0 | 442.4 | 963.7 | 1094.5 | 1142.6 | 1192.6 | 1285.0 | 1327.3 | 1335.0 |
| 57.5° | 88.5 | 101.9 | 234.7 | 379.0 | 898.4 | 1025.3 | 1079.1 | 1125.3 | 1211.8 | 1244.6 | 1252.3 |
| 60° | 82.7 | 96.2 | 203.9 | 325.1 | 827.1 | 959.9 | 1006.1 | 1052.2 | 1125.3 | 1152.3 | 1158.0 |
| 62.5° | 77.0 | 92.3 | 180.8 | 273.1 | 754.1 | 883.0 | 929.1 | 971.4 | 1033.0 | 1052.2 | 1059.9 |
| 65° | 73.1 | 88.5 | 163.5 | 234.7 | 679.0 | 802.2 | 848.4 | 884.9 | 934.9 | 954.1 | 957.9 |
| 67.5° | 69.2 | 84.6 | 150.0 | 202.0 | 604.0 | 721.4 | 756.0 | 790.6 | 829.0 | 848.4 | 850.3 |
| 70° | 63.5 | 80.8 | 138.5 | 178.9 | 527.0 | 629.0 | 657.9 | 694.4 | 725.2 | 734.8 | 740.6 |
| 72.5° | 59.7 | 75.0 | 130.8 | 161.6 | 448.2 | 540.5 | 567.5 | 588.6 | 615.6 | 625.1 | 625.1 |
| 75° | 53.8 | 67.3 | 123.1 | 144.3 | 367.4 | 442.4 | 465.5 | 486.7 | 507.8 | 511.7 | 505.9 |
| 77.5° | 48.1 | 59.7 | 105.8 | 121.2 | 286.6 | 350.1 | 369.3 | 380.9 | 398.2 | 402.0 | 403.9 |
| 80° | 40.4 | 51.9 | 82.7 | 94.3 | 207.7 | 257.7 | 271.2 | 280.9 | 296.3 | 296.3 | 300.1 |
| 82.5° | 30.8 | 40.4 | 59.7 | 67.3 | 140.4 | 177.0 | 188.5 | 194.3 | 203.9 | 203.9 | 203.9 |
| 85° | 19.2 | 25.0 | 38.4 | 44.3 | 84.6 | 107.7 | 115.4 | 117.3 | 125.0 | 127.0 | 127.0 |
| 87.5° | 9.7 | 13.5 | 25.0 | 27.0 | 44.3 | 55.8 | 55.8 | 59.7 | 59.7 | 57.7 | 55.8 |
| 90° | 17.9 | 32.2 | 46.6 | 50.1 | 78.7 | 116.8 | 135.9 | 120.8 | 90.6 | 68.0 | 68.0 |
| 92.5° | 71.5 | 193.1 | 314.8 | 345.2 | 485.4 | 672.2 | 765.6 | 670.9 | 481.7 | 339.9 | 326.4 |
| 95° | 171.7 | 394.3 | 616.9 | 672.5 | 1194.3 | 1890.0 | 2237.8 | 1996.9 | 1515.2 | 1153.8 | 1112.9 |
| 97.5° | 296.9 | 493.3 | 689.7 | 738.8 | 1608.8 | 2768.7 | 3348.6 | 3196.4 | 2891.9 | 2663.5 | 2585.6 |
| 100° | 393.5 | 571.6 | 749.7 | 794.2 | 1759.6 | 3046.7 | 3690.3 | 3701.3 | 3723.6 | 3740.4 | 3647.5 |
| 102.5° | 475.8 | 642.0 | 808.1 | 849.7 | 1828.7 | 3134.2 | 3786.9 | 3980.9 | 4368.8 | 4659.8 | 4580.3 |
| 105° | 615.4 | 756.1 | 896.8 | 932.0 | 1880.1 | 3144.1 | 3776.1 | 4211.0 | 5080.8 | 5733.0 | 5690.3 |
| 107.5° | 758.5 | 889.7 | 1020.8 | 1053.6 | 1889.5 | 3004.1 | 3561.5 | 4168.1 | 5381.2 | 6291.1 | 6301.5 |
| 110° | 855.0 | 973.5 | 1091.9 | 1121.6 | 1875.3 | 2880.1 | 3382.6 | 4060.8 | 5417.1 | 6434.3 | 6478.8 |



TEST NUMBER: P938209

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CANDELA DISTRIBUTION (continued):

| | 0° | 10° | 20° | 22.5° | 30° | 40° | 45° | 50° | 60° | 67.5° | 70° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 949.9 | 1062.8 | 1175.7 | 1203.9 | 1875.9 | 2771.8 | 3219.8 | 3913.9 | 5302.0 | 6343.1 | 6411.4 |
| 115° | 1093.0 | 1197.1 | 1301.3 | 1327.3 | 1893.2 | 2647.6 | 3024.9 | 3693.5 | 5030.7 | 6033.6 | 6128.4 |
| 117.5° | 1234.3 | 1328.8 | 1423.5 | 1447.1 | 1928.3 | 2569.8 | 2890.7 | 3494.1 | 4700.9 | 5606.1 | 5711.2 |
| 120° | 1316.5 | 1405.6 | 1494.6 | 1516.9 | 1956.9 | 2543.6 | 2837.0 | 3388.4 | 4491.0 | 5318.0 | 5420.2 |
| 122.5° | 1397.0 | 1486.9 | 1576.7 | 1599.2 | 1998.1 | 2530.0 | 2795.9 | 3292.4 | 4285.4 | 5030.1 | 5130.9 |
| 125° | 1520.5 | 1602.4 | 1684.3 | 1704.7 | 2053.6 | 2518.7 | 2751.2 | 3173.0 | 4016.4 | 4649.0 | 4741.9 |
| 127.5° | 1620.6 | 1703.3 | 1786.0 | 1806.6 | 2108.9 | 2512.1 | 2713.6 | 3075.7 | 3800.0 | 4343.2 | 4421.5 |
| 130° | 1674.3 | 1763.3 | 1852.3 | 1874.6 | 2149.5 | 2516.0 | 2699.3 | 3021.6 | 3666.5 | 4150.0 | 4222.4 |
| 132.5° | 1729.8 | 1818.8 | 1907.8 | 1930.1 | 2182.3 | 2518.6 | 2686.7 | 2975.4 | 3552.6 | 3985.5 | 4050.3 |
| 135° | 1812.0 | 1893.1 | 1974.2 | 1994.5 | 2218.1 | 2516.3 | 2665.3 | 2907.0 | 3390.4 | 3752.9 | 3808.7 |
| 137.5° | 1896.1 | 1976.4 | 2056.7 | 2076.8 | 2271.7 | 2531.7 | 2661.7 | 2866.0 | 3274.7 | 3581.2 | 3626.9 |
| 140° | 1965.9 | 2039.8 | 2113.8 | 2132.3 | 2304.5 | 2534.3 | 2649.2 | 2825.6 | 3178.7 | 3443.4 | 3486.1 |
| 142.5° | 2019.6 | 2087.9 | 2156.3 | 2173.4 | 2332.0 | 2543.4 | 2649.2 | 2804.2 | 3114.3 | 3346.9 | 3383.7 |
| 145° | 2101.9 | 2161.5 | 2221.1 | 2236.0 | 2367.7 | 2543.4 | 2631.3 | 2758.1 | 3011.7 | 3201.9 | 3229.8 |
| 147.5° | 2184.1 | 2242.1 | 2300.1 | 2314.7 | 2420.2 | 2560.9 | 2631.3 | 2731.1 | 2930.6 | 3080.3 | 3103.4 |
| 150° | 2237.8 | 2290.3 | 2342.8 | 2355.9 | 2447.6 | 2570.1 | 2631.3 | 2715.6 | 2884.2 | 3010.5 | 3029.2 |
| 152.5° | 2293.3 | 2333.0 | 2372.7 | 2382.6 | 2465.5 | 2576.0 | 2631.3 | 2703.3 | 2847.2 | 2955.1 | 2969.2 |
| 155° | 2375.6 | 2405.0 | 2434.4 | 2441.7 | 2504.9 | 2589.1 | 2631.3 | 2688.6 | 2803.1 | 2888.9 | 2898.3 |
| 157.5° | 2436.4 | 2465.0 | 2493.5 | 2500.7 | 2544.2 | 2602.2 | 2631.3 | 2675.8 | 2764.8 | 2831.7 | 2838.3 |
| 160° | 2477.5 | 2499.7 | 2522.0 | 2527.6 | 2562.2 | 2608.3 | 2631.3 | 2669.4 | 2745.7 | 2803.0 | 2806.8 |
| 162.5° | 2518.6 | 2535.3 | 2551.9 | 2556.2 | 2581.2 | 2614.6 | 2631.3 | 2663.5 | 2727.9 | 2776.2 | 2779.8 |
| 165° | 2563.3 | 2578.4 | 2593.5 | 2597.4 | 2608.6 | 2623.7 | 2631.3 | 2654.3 | 2700.4 | 2735.0 | 2738.8 |
| 167.5° | 2604.5 | 2611.7 | 2618.8 | 2620.6 | 2630.1 | 2642.9 | 2649.2 | 2664.3 | 2694.5 | 2717.1 | 2718.8 |
| 170° | 2631.3 | 2638.5 | 2645.6 | 2647.5 | 2648.0 | 2648.8 | 2649.2 | 2664.3 | 2694.5 | 2717.1 | 2717.1 |
| 172.5° | 2645.6 | 2647.2 | 2648.8 | 2649.2 | 2649.2 | 2649.2 | 2649.2 | 2661.1 | 2685.0 | 2702.9 | 2701.5 |
| 175° | 2665.3 | 2665.3 | 2665.3 | 2665.3 | 2660.0 | 2652.8 | 2649.2 | 2656.7 | 2671.8 | 2683.2 | 2683.2 |
| 177.5° | 2665.3 | 2665.3 | 2665.3 | 2665.3 | 2661.1 | 2655.6 | 2652.8 | 2658.7 | 2670.7 | 2679.6 | 2677.9 |
| 180° | 2665.3 | 2665.3 | 2665.3 | 2665.3 | 2665.3 | 2665.3 | 2665.3 | 2665.3 | 2665.3 | 2665.3 | 2665.3 |



TEST NUMBER: P938209

CATALOG NUMBER: SQ4-FB-150U-050D-830-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

| | 80° | 90° |
|--------|--------|--------|
| 0° | 598.3 | 598.3 |
| 2.5° | 638.6 | 634.8 |
| 5° | 821.4 | 825.2 |
| 7.5° | 1106.1 | 1104.2 |
| 10° | 1375.4 | 1392.7 |
| 12.5° | 1571.6 | 1575.4 |
| 15° | 1690.9 | 1698.5 |
| 17.5° | 1737.1 | 1739.0 |
| 20° | 1739.0 | 1735.1 |
| 22.5° | 1717.7 | 1713.9 |
| 25° | 1692.8 | 1690.9 |
| 27.5° | 1669.7 | 1671.7 |
| 30° | 1660.1 | 1665.8 |
| 32.5° | 1660.1 | 1669.7 |
| 35° | 1663.9 | 1673.6 |
| 37.5° | 1662.0 | 1673.6 |
| 40° | 1654.3 | 1667.7 |
| 42.5° | 1633.1 | 1642.8 |
| 45° | 1600.4 | 1612.0 |
| 47.5° | 1558.1 | 1565.8 |
| 50° | 1504.3 | 1511.9 |
| 52.5° | 1437.0 | 1438.9 |
| 55° | 1356.2 | 1363.8 |
| 57.5° | 1269.6 | 1271.5 |
| 60° | 1173.4 | 1179.1 |
| 62.5° | 1071.5 | 1071.5 |
| 65° | 963.7 | 967.6 |
| 67.5° | 852.2 | 861.7 |
| 70° | 738.7 | 740.6 |
| 72.5° | 627.1 | 627.1 |
| 75° | 511.7 | 513.6 |
| 77.5° | 402.0 | 402.0 |
| 80° | 298.2 | 300.1 |
| 82.5° | 205.8 | 209.7 |
| 85° | 128.9 | 128.9 |
| 87.5° | 59.7 | 53.8 |
| 90° | 68.0 | 68.0 |
| 92.5° | 272.3 | 218.3 |
| 95° | 949.0 | 785.3 |
| 97.5° | 2273.9 | 1962.3 |
| 100° | 3276.3 | 2905.0 |
| 102.5° | 4262.3 | 3944.3 |
| 105° | 5519.5 | 5348.5 |
| 107.5° | 6342.9 | 6384.2 |
| 110° | 6656.9 | 6835.0 |



TEST NUMBER: P938209

CATALOG NUMBER: SQ4-FB-150U-050D-830-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

| | 80° | 90° |
|--------|--------|--------|
| 112.5° | 6684.9 | 6958.4 |
| 115° | 6507.6 | 6886.8 |
| 117.5° | 6131.8 | 6552.3 |
| 120° | 5828.8 | 6237.5 |
| 122.5° | 5534.0 | 5937.0 |
| 125° | 5113.2 | 5484.5 |
| 127.5° | 4734.8 | 5048.0 |
| 130° | 4511.7 | 4801.1 |
| 132.5° | 4309.4 | 4568.5 |
| 135° | 4032.1 | 4255.5 |
| 137.5° | 3809.8 | 3992.5 |
| 140° | 3657.1 | 3828.0 |
| 142.5° | 3530.7 | 3677.7 |
| 145° | 3341.1 | 3452.4 |
| 147.5° | 3195.6 | 3287.8 |
| 150° | 3103.9 | 3178.7 |
| 152.5° | 3025.6 | 3082.0 |
| 155° | 2935.6 | 2973.0 |
| 157.5° | 2864.5 | 2890.7 |
| 160° | 2821.9 | 2837.0 |
| 162.5° | 2794.1 | 2808.4 |
| 165° | 2753.9 | 2769.1 |
| 167.5° | 2725.1 | 2731.5 |
| 170° | 2717.1 | 2717.1 |
| 172.5° | 2695.9 | 2690.4 |
| 175° | 2683.2 | 2683.2 |
| 177.5° | 2671.6 | 2665.3 |
| 180° | 2665.3 | 2665.3 |



TEST NUMBER: P938209
 CATALOG NUMBER: SQ4-FB-150U-050D-830-1D-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 | 0.00 | 0.24 | 0.74 | 1.39 | 3.02 | 12.77 | 13.43 | 13.93 | 14.58 | 16.21 |
| | 3H | 0.26 | 0.86 | 1.44 | 2.02 | 3.66 | 14.59 | 15.19 | 15.77 | 16.35 | 18.00 |
| | 4H | 0.55 | 1.12 | 1.73 | 2.28 | 3.93 | 15.23 | 15.80 | 16.42 | 16.96 | 18.61 |
| | 6H | 0.79 | 1.31 | 1.98 | 2.48 | 4.14 | 15.66 | 16.18 | 16.85 | 17.34 | 19.00 |
| | 8H | 0.85 | 1.35 | 2.04 | 2.53 | 4.18 | 15.78 | 16.27 | 16.97 | 17.45 | 19.10 |
| | 12H | 0.86 | 1.33 | 2.06 | 2.51 | 4.18 | 15.84 | 16.31 | 17.03 | 17.48 | 19.16 |
| 4H | 2H | 6.77 | 7.34 | 7.96 | 8.50 | 10.15 | 13.01 | 13.58 | 14.20 | 14.74 | 16.39 |
| | 3H | 8.32 | 8.79 | 9.51 | 9.98 | 11.64 | 15.05 | 15.52 | 16.24 | 16.71 | 18.37 |
| | 4H | 8.41 | 8.84 | 9.60 | 10.02 | 11.70 | 15.81 | 16.24 | 17.00 | 17.42 | 19.10 |
| | 6H | 8.40 | 8.78 | 9.60 | 9.98 | 11.64 | 16.34 | 16.71 | 17.54 | 17.91 | 19.58 |
| | 8H | 8.38 | 8.72 | 9.57 | 9.91 | 11.60 | 16.50 | 16.85 | 17.70 | 18.04 | 19.72 |
| | 12H | 8.32 | 8.64 | 9.54 | 9.84 | 11.53 | 16.59 | 16.90 | 17.80 | 18.10 | 19.79 |
| 8H | 4H | 9.84 | 10.19 | 11.04 | 11.37 | 13.06 | 15.85 | 16.20 | 17.05 | 17.39 | 19.07 |
| | 6H | 10.07 | 10.36 | 11.29 | 11.59 | 13.27 | 16.48 | 16.76 | 17.69 | 17.99 | 19.67 |
| | 8H | 10.08 | 10.34 | 11.31 | 11.54 | 13.24 | 16.69 | 16.95 | 17.92 | 18.15 | 19.85 |
| | 12H | 10.04 | 10.26 | 11.27 | 11.47 | 13.20 | 16.83 | 17.05 | 18.06 | 18.26 | 19.99 |
| 12H | 4H | 9.97 | 10.29 | 11.19 | 11.49 | 13.18 | 15.79 | 16.11 | 17.01 | 17.31 | 19.00 |
| | 6H | 10.33 | 10.58 | 11.55 | 11.79 | 13.49 | 16.46 | 16.71 | 17.68 | 17.91 | 19.62 |
| | 8H | 10.39 | 10.61 | 11.61 | 11.81 | 13.54 | 16.68 | 16.90 | 17.90 | 18.10 | 19.84 |