

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: P936453

Luminaire Tested: SQ4-FB-025U-100D-93050-1D-UNV-STD-W-12-3000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P936453
REPORT IS A COMBINATION OF REPORTS P933431 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FB-025U-100D-93050-1D-UNV-STD-W-12-3000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

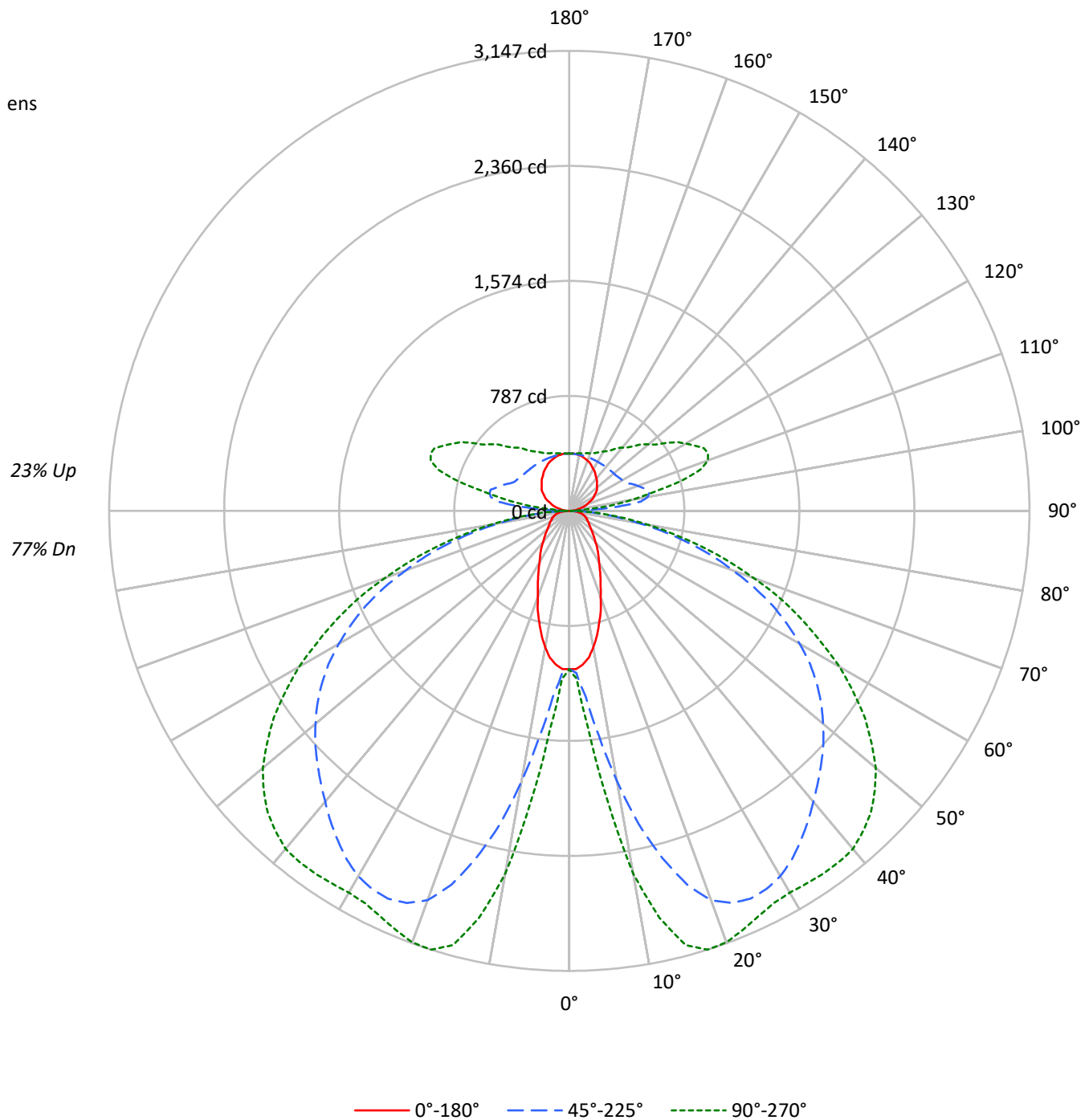
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10926.1 lumens
Efficiency: N/A
Efficacy: 93.9 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-Direct

Input Watts (W): 116.4
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: P936453
CATALOG NUMBER: SQ4-FB-025U-100D-93050-1D-UNV-STD-W-12-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P936453

CATALOG NUMBER: SQ4-FB-025U-100D-93050-1D-UNV-STD-W-12-3000K

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 | 113 | 113 | 113 | 113 | 108 | 108 | 108 | 108 | 98 | 98 | 98 | 89 | 89 | 89 | 81 | 81 | 81 | 77 | | | 77 |
| 1 | 103 | 98 | 94 | 90 | 98 | 94 | 90 | 86 | 85 | 82 | 79 | 77 | 75 | 73 | 70 | 68 | 66 | 63 | | | 63 |
| 2 | 93 | 85 | 78 | 72 | 88 | 81 | 75 | 69 | 73 | 68 | 64 | 67 | 63 | 59 | 61 | 57 | 55 | 51 | | | 51 |
| 3 | 84 | 74 | 65 | 59 | 80 | 70 | 63 | 57 | 64 | 58 | 53 | 58 | 53 | 49 | 53 | 49 | 45 | 42 | | | 42 |
| 4 | 77 | 65 | 56 | 49 | 73 | 62 | 54 | 47 | 56 | 50 | 44 | 51 | 46 | 41 | 47 | 42 | 38 | 35 | | | 35 |
| 5 | 70 | 57 | 48 | 42 | 66 | 55 | 46 | 40 | 50 | 43 | 38 | 46 | 40 | 35 | 41 | 37 | 33 | 30 | | | 30 |
| 6 | 64 | 51 | 42 | 36 | 61 | 49 | 41 | 35 | 45 | 38 | 32 | 41 | 35 | 30 | 37 | 32 | 28 | 26 | | | 26 |
| 7 | 59 | 46 | 37 | 31 | 56 | 44 | 36 | 30 | 40 | 33 | 28 | 37 | 31 | 27 | 34 | 29 | 25 | 22 | | | 22 |
| 8 | 55 | 42 | 33 | 27 | 52 | 40 | 32 | 26 | 37 | 30 | 25 | 34 | 28 | 23 | 31 | 26 | 22 | 20 | | | 20 |
| 9 | 51 | 38 | 30 | 24 | 49 | 36 | 29 | 23 | 33 | 27 | 22 | 31 | 25 | 21 | 28 | 23 | 19 | 17 | | | 17 |
| 10 | 48 | 35 | 27 | 21 | 45 | 33 | 26 | 21 | 31 | 24 | 20 | 28 | 23 | 19 | 26 | 21 | 17 | 16 | | | 16 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 3349 | 3349 | 3349 |
| 5° | 3273 | 3872 | 4501 |
| 10° | 2970 | 5645 | 7462 |
| 15° | 2525 | 7376 | 9011 |
| 20° | 2056 | 8551 | 9183 |
| 25° | 1716 | 8950 | 8997 |
| 30° | 1448 | 9008 | 8980 |
| 35° | 1281 | 8862 | 9212 |
| 40° | 1117 | 8669 | 9452 |
| 45° | 1012 | 8529 | 9489 |
| 50° | 929 | 8404 | 9332 |
| 55° | 891 | 8220 | 8918 |
| 60° | 913 | 7862 | 8265 |
| 65° | 951 | 7317 | 7368 |
| 70° | 1016 | 6386 | 6224 |
| 75° | 1130 | 5212 | 4857 |
| 80° | 1243 | 3619 | 3273 |
| 85° | 1128 | 1923 | 1676 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 9489 cd/sqm



TEST NUMBER: P936453

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 140.0 | 1.3 |
| 10°-20° | 620.7 | 5.7 |
| 20°-30° | 1085.7 | 9.9 |
| 30°-40° | 1397.6 | 12.8 |
| 40°-50° | 1561.1 | 14.3 |
| 50°-60° | 1495.1 | 13.7 |
| 60°-70° | 1184.9 | 10.8 |
| 70°-80° | 696.8 | 6.4 |
| 80°-90° | 195.1 | 1.8 |
| 90°-100° | 191.7 | 1.8 |
| 100°-110° | 503.9 | 4.6 |
| 110°-120° | 522.5 | 4.8 |
| 120°-130° | 419.1 | 3.8 |
| 130°-140° | 328.9 | 3.0 |
| 140°-150° | 252.4 | 2.3 |
| 150°-160° | 181.8 | 1.7 |
| 160°-170° | 111.2 | 1.0 |
| 170°-180° | 37.6 | 0.3 |
| 0°-30° | 1846.4 | 16.9 |
| 0°-40° | 3244.0 | 29.7 |
| 0°-60° | 6300.2 | 57.7 |
| 0°-90° | 8377.0 | 76.7 |
| 90°-120° | 1218.1 | 11.1 |
| 90°-150° | 2218.5 | 20.3 |
| 90°-180° | 2549.0 | 23.3 |
| 0°-180° | 10926.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1083 | 1083 | 1083 | 1083 | 1083 | |
| 5° | 1055 | 1131 | 1274 | 1441 | 1494 | 97 |
| 15° | 790 | 1459 | 2458 | 2980 | 3074 | 220 |
| 25° | 505 | 1654 | 2928 | 3056 | 3060 | 233 |
| 35° | 341 | 1580 | 2757 | 2914 | 3029 | 213 |
| 45° | 233 | 1260 | 2437 | 2792 | 2917 | 180 |
| 55° | 167 | 801 | 2068 | 2402 | 2468 | 152 |
| 65° | 132 | 425 | 1535 | 1727 | 1751 | 131 |
| 75° | 98 | 261 | 842 | 926 | 930 | 102 |
| 85° | 35 | 80 | 209 | 230 | 233 | 37 |
| 90° | 3 | 7 | 20 | 10 | 10 | 5 |
| 95° | 25 | 99 | 330 | 170 | 116 | 28 |
| 105° | 91 | 138 | 557 | 846 | 789 | 96 |
| 115° | 161 | 196 | 446 | 890 | 1016 | 159 |
| 125° | 224 | 252 | 406 | 686 | 809 | 199 |
| 135° | 267 | 294 | 393 | 554 | 628 | 207 |
| 145° | 310 | 330 | 388 | 472 | 509 | 194 |
| 155° | 350 | 360 | 388 | 426 | 439 | 161 |
| 165° | 378 | 383 | 388 | 404 | 408 | 107 |
| 175° | 393 | 393 | 391 | 396 | 396 | 37 |
| 180° | 393 | 393 | 393 | 393 | 393 | |



TEST NUMBER: P936453
 CATALOG NUMBER: SQ4-FB-025U-100D-93050-1D-UNV-STD-W-12-3000K

CANDELA DISTRIBUTION (FULL):

| | 0° | 10° | 20° | 22.5° | 30° | 40° | 45° | 50° | 60° | 67.5° | 70° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1082.7 | 1082.7 | 1082.7 | 1082.7 | 1082.7 | 1082.7 | 1082.7 | 1082.7 | 1082.7 | 1082.7 | 1082.7 |
| 2.5° | 1082.7 | 1082.7 | 1089.6 | 1093.1 | 1100.1 | 1103.6 | 1110.5 | 1117.5 | 1138.4 | 1141.9 | 1148.8 |
| 5° | 1054.8 | 1068.7 | 1114.0 | 1131.4 | 1180.2 | 1246.3 | 1274.2 | 1319.4 | 1413.4 | 1441.2 | 1458.6 |
| 7.5° | 1013.0 | 1044.4 | 1155.8 | 1183.6 | 1305.4 | 1479.5 | 1552.7 | 1650.1 | 1799.8 | 1872.9 | 1932.1 |
| 10° | 946.9 | 1013.0 | 1211.4 | 1277.6 | 1476.1 | 1740.6 | 1876.4 | 2012.2 | 2238.4 | 2339.4 | 2377.6 |
| 12.5° | 873.8 | 981.7 | 1270.6 | 1361.2 | 1646.6 | 2033.0 | 2196.6 | 2346.4 | 2604.0 | 2739.8 | 2760.6 |
| 15° | 790.2 | 936.4 | 1326.3 | 1458.6 | 1827.7 | 2276.7 | 2457.7 | 2642.3 | 2882.5 | 2979.9 | 3004.3 |
| 17.5° | 717.1 | 901.7 | 1378.6 | 1517.8 | 1966.9 | 2496.0 | 2680.6 | 2833.8 | 3028.6 | 3094.8 | 3112.3 |
| 20° | 626.6 | 846.0 | 1413.4 | 1594.4 | 2113.1 | 2656.2 | 2833.8 | 2952.1 | 3084.3 | 3126.1 | 3133.1 |
| 22.5° | 560.4 | 786.8 | 1434.3 | 1622.2 | 2210.6 | 2753.6 | 2903.3 | 2997.4 | 3087.8 | 3101.8 | 3105.2 |
| 25° | 504.8 | 720.6 | 1430.8 | 1653.6 | 2294.1 | 2812.8 | 2927.7 | 2997.4 | 3049.5 | 3056.5 | 3056.5 |
| 27.5° | 452.6 | 647.5 | 1416.9 | 1660.5 | 2356.8 | 2826.7 | 2917.3 | 2966.0 | 2990.4 | 3004.3 | 3004.3 |
| 30° | 407.3 | 577.9 | 1382.0 | 1646.6 | 2384.7 | 2812.8 | 2885.9 | 2910.3 | 2934.7 | 2955.6 | 2966.0 |
| 32.5° | 372.5 | 511.7 | 1329.8 | 1618.8 | 2388.1 | 2778.1 | 2830.2 | 2844.2 | 2879.0 | 2927.7 | 2945.1 |
| 35° | 341.1 | 445.6 | 1270.6 | 1580.5 | 2367.2 | 2722.3 | 2757.2 | 2771.0 | 2840.7 | 2913.8 | 2938.2 |
| 37.5° | 309.9 | 396.9 | 1194.1 | 1514.4 | 2335.9 | 2656.2 | 2680.6 | 2704.9 | 2812.8 | 2899.9 | 2927.7 |
| 40° | 278.5 | 355.1 | 1103.6 | 1441.2 | 2287.2 | 2576.1 | 2597.0 | 2635.3 | 2778.1 | 2879.0 | 2906.8 |
| 42.5° | 254.1 | 320.3 | 1006.1 | 1364.6 | 2224.5 | 2485.6 | 2516.9 | 2572.6 | 2736.3 | 2844.2 | 2875.5 |
| 45° | 233.3 | 285.4 | 901.7 | 1260.2 | 2144.5 | 2391.6 | 2436.8 | 2513.4 | 2687.5 | 2791.9 | 2819.8 |
| 47.5° | 212.4 | 261.1 | 793.7 | 1152.3 | 2057.4 | 2297.6 | 2356.8 | 2443.8 | 2621.4 | 2722.3 | 2746.7 |
| 50° | 195.0 | 236.7 | 685.8 | 1037.4 | 1963.4 | 2196.6 | 2266.3 | 2356.8 | 2537.9 | 2631.8 | 2663.2 |
| 52.5° | 181.0 | 215.8 | 584.9 | 922.6 | 1855.5 | 2092.2 | 2172.3 | 2266.3 | 2436.8 | 2527.4 | 2548.3 |
| 55° | 167.1 | 198.4 | 497.8 | 800.7 | 1744.1 | 1980.8 | 2067.9 | 2158.3 | 2325.5 | 2402.1 | 2415.9 |
| 57.5° | 160.1 | 184.5 | 424.7 | 685.8 | 1625.7 | 1855.5 | 1953.0 | 2036.5 | 2193.2 | 2252.3 | 2266.3 |
| 60° | 149.7 | 174.1 | 369.0 | 588.3 | 1496.9 | 1737.1 | 1820.7 | 1904.2 | 2036.5 | 2085.3 | 2095.7 |
| 62.5° | 139.2 | 167.1 | 327.3 | 494.3 | 1364.6 | 1597.9 | 1681.4 | 1758.0 | 1869.5 | 1904.2 | 1918.1 |
| 65° | 132.3 | 160.1 | 295.9 | 424.7 | 1228.9 | 1451.7 | 1535.2 | 1601.4 | 1691.9 | 1726.7 | 1733.7 |
| 67.5° | 125.3 | 153.2 | 271.6 | 365.5 | 1093.1 | 1305.4 | 1368.1 | 1430.8 | 1500.4 | 1535.2 | 1538.7 |
| 70° | 114.9 | 146.2 | 250.7 | 323.7 | 953.8 | 1138.4 | 1190.6 | 1256.8 | 1312.4 | 1329.8 | 1340.3 |
| 72.5° | 107.9 | 135.8 | 236.7 | 292.4 | 811.1 | 978.3 | 1027.0 | 1065.3 | 1114.0 | 1131.4 | 1131.4 |
| 75° | 97.5 | 121.8 | 222.8 | 261.1 | 664.9 | 800.7 | 842.5 | 880.8 | 919.1 | 926.0 | 915.5 |
| 77.5° | 87.0 | 107.9 | 191.5 | 219.3 | 518.7 | 633.6 | 668.4 | 689.3 | 720.6 | 727.6 | 731.1 |
| 80° | 73.1 | 94.0 | 149.7 | 170.6 | 376.0 | 466.5 | 490.9 | 508.3 | 536.1 | 536.1 | 543.1 |
| 82.5° | 55.7 | 73.1 | 107.9 | 121.8 | 254.1 | 320.3 | 341.1 | 351.6 | 369.0 | 369.0 | 369.0 |
| 85° | 34.8 | 45.2 | 69.6 | 80.1 | 153.2 | 195.0 | 208.9 | 212.4 | 226.3 | 229.8 | 229.8 |
| 87.5° | 17.4 | 24.3 | 45.2 | 48.7 | 80.1 | 100.9 | 100.9 | 107.9 | 107.9 | 104.4 | 100.9 |
| 90° | 2.6 | 4.7 | 6.9 | 7.4 | 11.6 | 17.2 | 20.0 | 17.8 | 13.4 | 10.0 | 10.0 |
| 92.5° | 10.5 | 28.5 | 46.5 | 50.9 | 71.6 | 99.2 | 112.9 | 99.0 | 71.1 | 50.2 | 48.1 |
| 95° | 25.3 | 58.1 | 91.0 | 99.2 | 176.2 | 278.9 | 330.2 | 294.6 | 223.5 | 170.2 | 164.2 |
| 97.5° | 43.8 | 72.8 | 101.8 | 109.0 | 237.3 | 408.5 | 494.0 | 471.6 | 426.7 | 393.0 | 381.4 |
| 100° | 58.1 | 84.3 | 110.6 | 117.2 | 259.6 | 449.5 | 544.5 | 546.1 | 549.4 | 551.8 | 538.1 |
| 102.5° | 70.2 | 94.7 | 119.2 | 125.3 | 269.8 | 462.4 | 558.7 | 587.3 | 644.5 | 687.4 | 675.7 |
| 105° | 90.8 | 111.5 | 132.3 | 137.5 | 277.4 | 463.8 | 557.1 | 621.2 | 749.5 | 845.8 | 839.5 |
| 107.5° | 111.9 | 131.2 | 150.6 | 155.5 | 278.8 | 443.2 | 525.4 | 614.9 | 793.9 | 928.2 | 929.7 |
| 110° | 126.1 | 143.6 | 161.1 | 165.5 | 276.7 | 424.9 | 499.1 | 599.1 | 799.2 | 949.3 | 955.9 |



TEST NUMBER: P936453

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CANDELA DISTRIBUTION (continued):

| | 0° | 10° | 20° | 22.5° | 30° | 40° | 45° | 50° | 60° | 67.5° | 70° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 140.2 | 156.8 | 173.5 | 177.6 | 276.8 | 408.9 | 475.1 | 577.5 | 782.2 | 935.8 | 945.9 |
| 115° | 161.3 | 176.6 | 192.0 | 195.9 | 279.3 | 390.6 | 446.3 | 544.9 | 742.2 | 890.2 | 904.1 |
| 117.5° | 182.1 | 196.0 | 210.0 | 213.5 | 284.5 | 379.2 | 426.5 | 515.6 | 693.6 | 827.1 | 842.6 |
| 120° | 194.2 | 207.4 | 220.5 | 223.8 | 288.7 | 375.2 | 418.5 | 499.8 | 662.6 | 784.6 | 799.7 |
| 122.5° | 206.1 | 219.4 | 232.6 | 235.9 | 294.8 | 373.2 | 412.5 | 485.7 | 632.2 | 742.1 | 756.9 |
| 125° | 224.3 | 236.4 | 248.6 | 251.5 | 303.0 | 371.6 | 405.9 | 468.0 | 592.5 | 685.9 | 699.6 |
| 127.5° | 239.1 | 251.3 | 263.5 | 266.6 | 311.2 | 370.6 | 400.3 | 453.7 | 560.6 | 640.7 | 652.3 |
| 130° | 247.0 | 260.2 | 273.3 | 276.6 | 317.2 | 371.2 | 398.2 | 445.8 | 540.9 | 612.3 | 623.0 |
| 132.5° | 255.2 | 268.3 | 281.5 | 284.7 | 322.0 | 371.6 | 396.4 | 439.0 | 524.2 | 588.0 | 597.6 |
| 135° | 267.4 | 279.3 | 291.2 | 294.2 | 327.3 | 371.3 | 393.2 | 428.9 | 500.2 | 553.7 | 561.9 |
| 137.5° | 279.7 | 291.6 | 303.4 | 306.4 | 335.2 | 373.5 | 392.7 | 422.8 | 483.1 | 528.3 | 535.1 |
| 140° | 290.0 | 300.9 | 311.9 | 314.6 | 340.0 | 373.9 | 390.8 | 416.8 | 468.9 | 508.0 | 514.3 |
| 142.5° | 297.9 | 308.0 | 318.1 | 320.7 | 344.0 | 375.2 | 390.8 | 413.7 | 459.4 | 493.8 | 499.2 |
| 145° | 310.1 | 318.9 | 327.7 | 329.9 | 349.3 | 375.2 | 388.2 | 406.9 | 444.3 | 472.4 | 476.5 |
| 147.5° | 322.2 | 330.8 | 339.4 | 341.5 | 357.0 | 377.8 | 388.2 | 403.0 | 432.4 | 454.4 | 457.9 |
| 150° | 330.2 | 337.9 | 345.6 | 347.5 | 361.1 | 379.2 | 388.2 | 400.7 | 425.5 | 444.2 | 446.9 |
| 152.5° | 338.3 | 344.2 | 350.0 | 351.5 | 363.7 | 380.0 | 388.2 | 398.8 | 420.1 | 436.0 | 438.1 |
| 155° | 350.4 | 354.7 | 359.1 | 360.2 | 369.5 | 382.0 | 388.2 | 396.6 | 413.6 | 426.2 | 427.6 |
| 157.5° | 359.4 | 363.6 | 367.9 | 369.0 | 375.4 | 383.9 | 388.2 | 394.8 | 407.9 | 417.7 | 418.7 |
| 160° | 365.5 | 368.8 | 372.1 | 372.9 | 378.0 | 384.8 | 388.2 | 393.8 | 405.1 | 413.5 | 414.0 |
| 162.5° | 371.6 | 374.1 | 376.5 | 377.1 | 380.8 | 385.7 | 388.2 | 393.0 | 402.4 | 409.6 | 410.1 |
| 165° | 378.2 | 380.4 | 382.7 | 383.2 | 384.9 | 387.1 | 388.2 | 391.6 | 398.4 | 403.5 | 404.0 |
| 167.5° | 384.3 | 385.3 | 386.4 | 386.6 | 388.0 | 389.9 | 390.8 | 393.0 | 397.5 | 400.9 | 401.1 |
| 170° | 388.2 | 389.3 | 390.3 | 390.6 | 390.7 | 390.8 | 390.8 | 393.0 | 397.5 | 400.9 | 400.9 |
| 172.5° | 390.3 | 390.6 | 390.8 | 390.8 | 390.8 | 390.8 | 390.8 | 392.6 | 396.1 | 398.7 | 398.6 |
| 175° | 393.2 | 393.2 | 393.2 | 393.2 | 392.4 | 391.4 | 390.8 | 392.0 | 394.2 | 395.9 | 395.9 |
| 177.5° | 393.2 | 393.2 | 393.2 | 393.2 | 392.6 | 391.8 | 391.4 | 392.2 | 394.0 | 395.3 | 395.1 |
| 180° | 393.2 | 393.2 | 393.2 | 393.2 | 393.2 | 393.2 | 393.2 | 393.2 | 393.2 | 393.2 | 393.2 |



TEST NUMBER: P936453

CATALOG NUMBER: SQ4-FB-025U-100D-93050-1D-UNV-STD-W-12-3000K

CANDELA DISTRIBUTION (continued):

| | 80° | 90° |
|--------|--------|--------|
| 0° | 1082.7 | 1082.7 |
| 2.5° | 1155.8 | 1148.8 |
| 5° | 1486.5 | 1493.5 |
| 7.5° | 2001.7 | 1998.2 |
| 10° | 2489.1 | 2520.4 |
| 12.5° | 2844.2 | 2851.1 |
| 15° | 3060.0 | 3074.0 |
| 17.5° | 3143.5 | 3147.0 |
| 20° | 3147.0 | 3140.1 |
| 22.5° | 3108.7 | 3101.8 |
| 25° | 3063.5 | 3060.0 |
| 27.5° | 3021.7 | 3025.2 |
| 30° | 3004.3 | 3014.8 |
| 32.5° | 3004.3 | 3021.7 |
| 35° | 3011.3 | 3028.6 |
| 37.5° | 3007.7 | 3028.6 |
| 40° | 2993.9 | 3018.2 |
| 42.5° | 2955.6 | 2973.0 |
| 45° | 2896.4 | 2917.3 |
| 47.5° | 2819.8 | 2833.8 |
| 50° | 2722.3 | 2736.3 |
| 52.5° | 2600.5 | 2604.0 |
| 55° | 2454.2 | 2468.2 |
| 57.5° | 2297.6 | 2301.1 |
| 60° | 2123.6 | 2134.0 |
| 62.5° | 1939.0 | 1939.0 |
| 65° | 1744.1 | 1751.1 |
| 67.5° | 1542.2 | 1559.6 |
| 70° | 1336.8 | 1340.3 |
| 72.5° | 1134.9 | 1134.9 |
| 75° | 926.0 | 929.5 |
| 77.5° | 727.6 | 727.6 |
| 80° | 539.6 | 543.1 |
| 82.5° | 372.5 | 379.4 |
| 85° | 233.3 | 233.3 |
| 87.5° | 107.9 | 97.5 |
| 90° | 10.0 | 10.0 |
| 92.5° | 40.2 | 32.2 |
| 95° | 140.0 | 115.8 |
| 97.5° | 335.5 | 289.5 |
| 100° | 483.4 | 428.6 |
| 102.5° | 628.8 | 581.9 |
| 105° | 814.3 | 789.1 |
| 107.5° | 935.8 | 941.9 |
| 110° | 982.1 | 1008.4 |



TEST NUMBER: P936453

CATALOG NUMBER: SQ4-FB-025U-100D-93050-1D-UNV-STD-W-12-3000K

CANDELA DISTRIBUTION (continued):

| | 80° | 90° |
|--------|-------|--------|
| 112.5° | 986.2 | 1026.6 |
| 115° | 960.1 | 1016.0 |
| 117.5° | 904.7 | 966.7 |
| 120° | 859.9 | 920.2 |
| 122.5° | 816.5 | 875.9 |
| 125° | 754.3 | 809.1 |
| 127.5° | 698.5 | 744.7 |
| 130° | 665.7 | 708.3 |
| 132.5° | 635.8 | 674.0 |
| 135° | 594.9 | 627.8 |
| 137.5° | 562.0 | 589.1 |
| 140° | 539.5 | 564.7 |
| 142.5° | 520.9 | 542.6 |
| 145° | 492.9 | 509.3 |
| 147.5° | 471.5 | 485.1 |
| 150° | 457.9 | 468.9 |
| 152.5° | 446.4 | 454.7 |
| 155° | 433.1 | 438.6 |
| 157.5° | 422.6 | 426.5 |
| 160° | 416.3 | 418.5 |
| 162.5° | 412.2 | 414.3 |
| 165° | 406.3 | 408.5 |
| 167.5° | 402.0 | 403.0 |
| 170° | 400.9 | 400.9 |
| 172.5° | 397.7 | 396.9 |
| 175° | 395.9 | 395.9 |
| 177.5° | 394.2 | 393.2 |
| 180° | 393.2 | 393.2 |



TEST NUMBER: P936453
 CATALOG NUMBER: SQ4-FB-025U-100D-93050-1D-UNV-STD-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 | 7.34 | 8.57 | 8.02 | 9.28 | 10.11 | 20.53 | 21.77 | 21.21 | 22.47 | 23.30 |
| | 3H | 8.07 | 9.19 | 8.77 | 9.90 | 10.76 | 22.40 | 23.52 | 23.10 | 24.23 | 25.09 |
| | 4H | 8.39 | 9.44 | 9.10 | 10.17 | 11.04 | 23.07 | 24.12 | 23.78 | 24.85 | 25.72 |
| | 6H | 8.66 | 9.63 | 9.38 | 10.37 | 11.25 | 23.52 | 24.50 | 24.25 | 25.23 | 26.12 |
| | 8H | 8.73 | 9.67 | 9.47 | 10.42 | 11.31 | 23.66 | 24.59 | 24.39 | 25.34 | 26.23 |
| | 12H | 8.76 | 9.65 | 9.51 | 10.40 | 11.32 | 23.74 | 24.63 | 24.48 | 25.38 | 26.30 |
| 4H | 2H | 14.61 | 15.66 | 15.32 | 16.39 | 17.26 | 20.85 | 21.90 | 21.56 | 22.63 | 23.50 |
| | 3H | 16.21 | 17.09 | 16.94 | 17.85 | 18.75 | 22.93 | 23.82 | 23.66 | 24.58 | 25.47 |
| | 4H | 16.32 | 17.12 | 17.06 | 17.89 | 18.81 | 23.72 | 24.53 | 24.46 | 25.29 | 26.21 |
| | 6H | 16.35 | 17.05 | 17.11 | 17.84 | 18.77 | 24.29 | 24.99 | 25.05 | 25.78 | 26.70 |
| | 8H | 16.34 | 16.99 | 17.10 | 17.78 | 18.72 | 24.46 | 25.12 | 25.23 | 25.90 | 26.84 |
| | 12H | 16.31 | 16.90 | 17.10 | 17.71 | 18.66 | 24.58 | 25.17 | 25.36 | 25.97 | 26.92 |
| 8H | 4H | 17.80 | 18.45 | 18.57 | 19.24 | 20.18 | 23.81 | 24.47 | 24.58 | 25.25 | 26.19 |
| | 6H | 18.06 | 18.60 | 18.86 | 19.43 | 20.37 | 24.46 | 25.01 | 25.26 | 25.84 | 26.78 |
| | 8H | 18.08 | 18.57 | 18.89 | 19.39 | 20.35 | 24.69 | 25.18 | 25.50 | 26.00 | 26.96 |
| | 12H | 18.07 | 18.50 | 18.88 | 19.31 | 20.33 | 24.86 | 25.29 | 25.67 | 26.10 | 27.12 |
| 12H | 4H | 17.96 | 18.55 | 18.75 | 19.36 | 20.31 | 23.78 | 24.38 | 24.57 | 25.18 | 26.13 |
| | 6H | 18.32 | 18.81 | 19.13 | 19.63 | 20.59 | 24.45 | 24.94 | 25.26 | 25.76 | 26.72 |
| | 8H | 18.41 | 18.84 | 19.22 | 19.66 | 20.67 | 24.70 | 25.13 | 25.52 | 25.95 | 26.96 |