

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: P855443

Luminaire Tested: SQ2-FA-125U-100D-840-UNV-STD-W-4

Issue Date: 7/12/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P855443  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2104-222-13, G2-2308-131-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/12/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ2-FA-125U-100D-840-UNV-STD-W-4  
Description: CORELITE SQ2 SUSPENDED LED LUMINAIRE  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: -  
Ballast/Driver: -

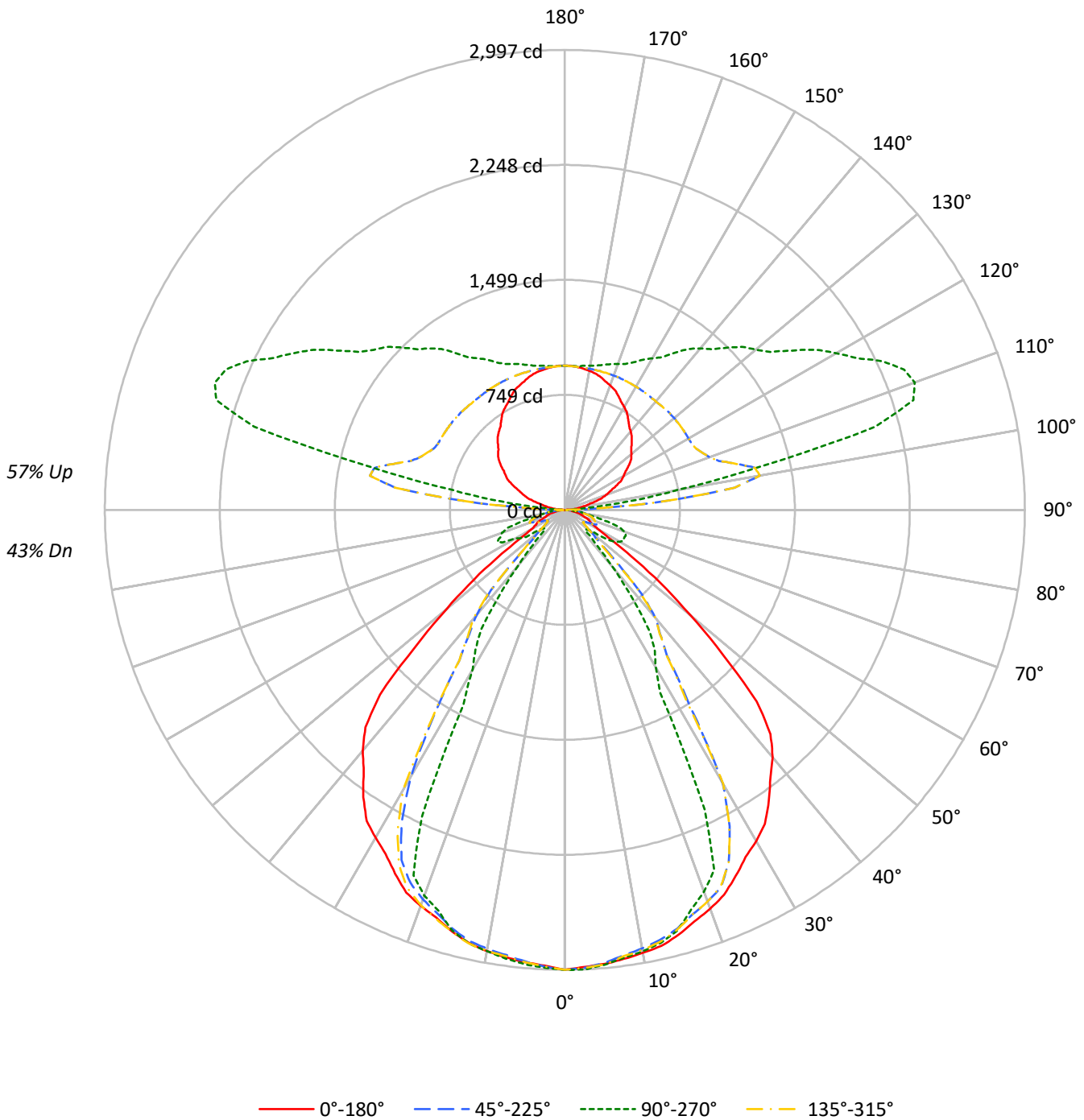
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10170.4 lumens  
Efficiency: N/A  
Efficacy: 124.8 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 0.95 / 0.95  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: General Diffuse  
  
Input Watts (W): 81.5  
Input Voltage (V): 120  
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: P855443

CATALOG NUMBER: SQ2-FA-125U-100D-840-UNV-STD-W-4

### Luminous Intensity Polar Plot





TEST NUMBER: P855443

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**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   | 105 | 105 | 105 | 105 | 96 | 96 | 96 | 96 | 79 | 79 | 79 | 64 | 64 | 64 | 50 | 50 | 50 | 43 |    |    |    |   |
| 1   | 97  | 93  | 90  | 87  | 89 | 85 | 82 | 80 | 71 | 69 | 67 | 58 | 56 | 55 | 45 | 44 | 44 | 38 |    |    |    |   |
| 2   | 89  | 83  | 77  | 72  | 82 | 76 | 71 | 67 | 63 | 60 | 57 | 52 | 50 | 48 | 41 | 40 | 39 | 34 |    |    |    |   |
| 3   | 82  | 74  | 67  | 62  | 75 | 68 | 62 | 58 | 57 | 53 | 50 | 47 | 44 | 42 | 38 | 36 | 34 | 30 |    |    |    |   |
| 4   | 76  | 66  | 59  | 54  | 70 | 61 | 55 | 50 | 52 | 47 | 44 | 43 | 40 | 37 | 35 | 33 | 31 | 27 |    |    |    |   |
| 5   | 70  | 60  | 52  | 47  | 64 | 55 | 49 | 44 | 47 | 42 | 39 | 39 | 36 | 33 | 32 | 30 | 28 | 25 |    |    |    |   |
| 6   | 65  | 54  | 47  | 41  | 60 | 50 | 44 | 39 | 43 | 38 | 34 | 36 | 33 | 30 | 30 | 27 | 25 | 22 |    |    |    |   |
| 7   | 61  | 49  | 42  | 37  | 56 | 46 | 40 | 35 | 39 | 35 | 31 | 33 | 30 | 27 | 28 | 25 | 23 | 20 |    |    |    |   |
| 8   | 57  | 45  | 38  | 33  | 52 | 42 | 36 | 31 | 36 | 31 | 28 | 31 | 27 | 25 | 26 | 23 | 21 | 19 |    |    |    |   |
| 9   | 53  | 42  | 35  | 30  | 49 | 39 | 33 | 29 | 34 | 29 | 25 | 29 | 25 | 23 | 24 | 21 | 20 | 17 |    |    |    |   |
| 10  | 50  | 38  | 32  | 27  | 46 | 36 | 30 | 26 | 31 | 27 | 23 | 27 | 23 | 21 | 23 | 20 | 18 | 16 |    |    |    |   |

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

|     | 0°    | 90°   | 180°  | 270°  |
|-----|-------|-------|-------|-------|
| 0°  | 48394 | 48394 | 48394 | 48394 |
| 5°  | 48138 | 48212 | 47955 | 48175 |
| 10° | 48065 | 47880 | 47880 | 47880 |
| 15° | 47910 | 47418 | 47532 | 47418 |
| 20° | 47538 | 45519 | 47189 | 45945 |
| 25° | 46912 | 38414 | 46591 | 39221 |
| 30° | 46480 | 22040 | 45977 | 22335 |
| 35° | 45667 | 18934 | 45086 | 18668 |
| 40° | 44403 | 9959  | 43161 | 9862  |
| 45° | 40361 | 4284  | 38915 | 4284  |
| 50° | 26631 | 5167  | 25267 | 4828  |
| 55° | 14891 | 9543  | 14125 | 8653  |
| 60° | 8031  | 13430 | 7886  | 12042 |
| 65° | 7079  | 16321 | 7427  | 18567 |
| 70° | 6618  | 19525 | 6293  | 20592 |
| 75° | 6201  | 16781 | 6344  | 17349 |
| 80° | 5253  | 11985 | 5253  | 12617 |
| 85° | 4594  | 6688  | 4187  | 7966  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 40361 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 282.1   | 2.8       |
| 10°-20°   | 800.2   | 7.9       |
| 20°-30°   | 1091.1  | 10.7      |
| 30°-40°   | 916.9   | 9.0       |
| 40°-50°   | 520.8   | 5.1       |
| 50°-60°   | 276.3   | 2.7       |
| 60°-70°   | 254.4   | 2.5       |
| 70°-80°   | 186.8   | 1.8       |
| 80°-90°   | 49.8    | 0.5       |
| 90°-100°  | 359.1   | 3.5       |
| 100°-110° | 1169.2  | 11.5      |
| 110°-120° | 1156.5  | 11.4      |
| 120°-130° | 945.1   | 9.3       |
| 130°-140° | 772.4   | 7.6       |
| 140°-150° | 601.7   | 5.9       |
| 150°-160° | 433.7   | 4.3       |
| 160°-170° | 265.1   | 2.6       |
| 170°-180° | 89.4    | 0.9       |
| 0°-30°    | 2173.3  | 21.4      |
| 0°-40°    | 3090.2  | 30.4      |
| 0°-60°    | 3887.3  | 38.2      |
| 0°-90°    | 4378.3  | 43.0      |
| 90°-120°  | 2684.8  | 26.4      |
| 90°-150°  | 5004.0  | 49.2      |
| 90°-180°  | 5792.0  | 56.9      |
| 0°-180°   | 10170.4 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 90°  | 180° | 270° | 360° | Flux |
|------|------|------|------|------|------|------|
| 0°   | 2997 | 2997 | 2997 | 2997 | 2997 |      |
| 5°   | 2970 | 2975 | 2959 | 2972 | 2970 | 282  |
| 15°  | 2866 | 2837 | 2844 | 2837 | 2866 | 808  |
| 25°  | 2633 | 2156 | 2615 | 2202 | 2633 | 1214 |
| 35°  | 2317 | 961  | 2287 | 947  | 2317 | 1446 |
| 45°  | 1768 | 188  | 1704 | 188  | 1768 | 1292 |
| 55°  | 529  | 339  | 502  | 307  | 529  | 509  |
| 65°  | 185  | 427  | 194  | 486  | 185  | 186  |
| 75°  | 99   | 269  | 102  | 278  | 99   | 103  |
| 85°  | 25   | 36   | 23   | 43   | 25   | 28   |
| 90°  | 0    | 7    | 0    | 7    | 0    | 4    |
| 95°  | 48   | 144  | 48   | 144  | 48   | 56   |
| 105° | 199  | 2095 | 199  | 2095 | 199  | 212  |
| 115° | 367  | 2288 | 367  | 2288 | 367  | 363  |
| 125° | 510  | 1810 | 510  | 1810 | 510  | 454  |
| 135° | 617  | 1494 | 617  | 1494 | 617  | 476  |
| 145° | 721  | 1249 | 721  | 1249 | 721  | 451  |
| 155° | 822  | 1060 | 822  | 1060 | 822  | 379  |
| 165° | 897  | 978  | 897  | 978  | 897  | 253  |
| 175° | 935  | 940  | 935  | 940  | 935  | 89   |
| 180° | 939  | 939  | 939  | 939  | 939  |      |



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CATALOG NUMBER: SQ2-FA-125U-100D-840-UNV-STD-W-4

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    | 112.5° | 135°   | 157.5° | 180°   | 202.5° | 225°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 2997.3 | 2997.3 | 2997.3 | 2997.3 | 2997.3 | 2997.3 | 2997.3 | 2997.3 | 2997.3 | 2997.3 | 2997.3 |
| 2.5°   | 2981.0 | 3025.1 | 2986.5 | 2981.3 | 2997.3 | 2993.7 | 2988.2 | 3009.1 | 2973.8 | 3009.1 | 2981.0 |
| 5°     | 2970.1 | 3021.0 | 2963.4 | 2948.1 | 2974.7 | 2957.0 | 2972.4 | 3003.0 | 2958.8 | 2998.6 | 2954.3 |
| 7.5°   | 2951.6 | 2996.7 | 2927.6 | 2917.8 | 2943.9 | 2928.4 | 2934.8 | 2977.4 | 2940.3 | 2966.4 | 2926.3 |
| 10°    | 2931.7 | 2971.4 | 2902.3 | 2896.1 | 2920.4 | 2904.9 | 2911.4 | 2955.8 | 2920.4 | 2944.7 | 2904.5 |
| 12.5°  | 2910.0 | 2940.9 | 2871.5 | 2868.9 | 2889.6 | 2879.5 | 2882.4 | 2919.8 | 2891.5 | 2915.8 | 2877.5 |
| 15°    | 2866.2 | 2894.9 | 2825.5 | 2814.7 | 2836.8 | 2828.0 | 2832.3 | 2865.6 | 2843.6 | 2859.0 | 2825.5 |
| 17.5°  | 2811.9 | 2834.8 | 2765.7 | 2733.2 | 2734.1 | 2745.2 | 2765.7 | 2806.1 | 2786.1 | 2806.5 | 2759.0 |
| 20°    | 2766.7 | 2793.2 | 2717.0 | 2653.6 | 2649.2 | 2660.3 | 2717.0 | 2757.5 | 2746.4 | 2768.4 | 2701.2 |
| 22.5°  | 2714.2 | 2731.9 | 2662.7 | 2555.7 | 2540.7 | 2551.8 | 2655.5 | 2703.3 | 2699.3 | 2714.3 | 2630.7 |
| 25°    | 2633.3 | 2651.1 | 2524.8 | 2370.8 | 2156.3 | 2357.5 | 2529.4 | 2615.3 | 2615.3 | 2628.6 | 2518.1 |
| 27.5°  | 2551.1 | 2551.5 | 2323.2 | 1522.6 | 1343.1 | 1467.7 | 2320.1 | 2506.3 | 2527.5 | 2520.9 | 2303.8 |
| 30°    | 2493.1 | 2477.8 | 2059.1 | 1230.8 | 1182.2 | 1213.1 | 2061.5 | 2430.7 | 2466.1 | 2441.7 | 2007.2 |
| 32.5°  | 2426.2 | 2382.5 | 1520.4 | 1131.5 | 1091.7 | 1119.1 | 1470.2 | 2340.9 | 2402.8 | 2350.1 | 1578.7 |
| 35°    | 2316.9 | 2201.9 | 1159.6 | 1000.5 | 960.6  | 996.1  | 1150.5 | 2163.7 | 2287.4 | 2146.1 | 1198.0 |
| 37.5°  | 2198.9 | 1750.2 | 1020.8 | 796.9  | 711.1  | 779.7  | 1015.8 | 1731.4 | 2151.0 | 1691.2 | 1019.8 |
| 40°    | 2106.7 | 1375.1 | 917.8  | 582.9  | 472.5  | 549.7  | 910.9  | 1311.9 | 2047.8 | 1411.4 | 895.1  |
| 42.5°  | 1983.7 | 1207.9 | 736.9  | 370.2  | 289.8  | 338.9  | 706.6  | 1180.1 | 1921.3 | 1222.9 | 712.5  |
| 45°    | 1767.6 | 1038.3 | 436.2  | 203.1  | 187.6  | 196.5  | 402.3  | 1019.1 | 1704.3 | 997.1  | 445.3  |
| 47.5°  | 1400.1 | 791.9  | 280.3  | 172.6  | 189.4  | 172.6  | 271.7  | 766.7  | 1322.3 | 765.3  | 279.8  |
| 50°    | 1060.2 | 618.1  | 217.0  | 174.7  | 205.7  | 174.7  | 210.2  | 597.0  | 1005.9 | 652.3  | 214.8  |
| 52.5°  | 785.2  | 516.5  | 177.3  | 191.6  | 247.3  | 195.1  | 172.2  | 502.8  | 745.5  | 526.2  | 167.7  |
| 55°    | 529.0  | 405.2  | 142.4  | 252.9  | 339.0  | 259.5  | 142.4  | 393.6  | 501.8  | 389.1  | 137.9  |
| 57.5°  | 335.4  | 301.4  | 144.2  | 325.1  | 387.0  | 331.3  | 146.5  | 290.5  | 321.9  | 291.8  | 126.6  |
| 60°    | 248.7  | 237.6  | 160.5  | 345.2  | 415.9  | 349.6  | 162.7  | 228.7  | 244.2  | 226.4  | 135.7  |
| 62.5°  | 205.2  | 187.2  | 193.0  | 373.9  | 432.1  | 364.1  | 197.1  | 178.4  | 213.4  | 171.0  | 150.1  |
| 65°    | 185.3  | 121.2  | 228.3  | 378.6  | 427.2  | 378.6  | 230.5  | 114.8  | 194.4  | 123.6  | 203.5  |
| 67.5°  | 167.2  | 90.0   | 220.6  | 376.0  | 429.9  | 376.9  | 215.1  | 85.8   | 160.5  | 83.6   | 207.9  |
| 70°    | 140.2  | 80.4   | 207.9  | 382.7  | 413.6  | 369.4  | 207.9  | 78.1   | 133.3  | 75.9   | 244.2  |
| 72.5°  | 116.7  | 76.5   | 193.5  | 353.3  | 366.6  | 340.1  | 195.3  | 76.0   | 117.1  | 68.4   | 229.7  |
| 75°    | 99.4   | 75.2   | 185.3  | 282.3  | 269.0  | 269.0  | 180.9  | 73.0   | 101.7  | 68.5   | 178.5  |
| 77.5°  | 74.6   | 66.7   | 153.7  | 184.2  | 174.0  | 174.0  | 151.0  | 64.3   | 71.0   | 60.4   | 145.1  |
| 80°    | 56.5   | 61.0   | 126.6  | 135.4  | 128.9  | 128.9  | 122.0  | 58.7   | 56.5   | 56.5   | 119.8  |
| 82.5°  | 43.8   | 51.9   | 97.7   | 99.3   | 94.5   | 92.8   | 95.0   | 51.4   | 43.8   | 47.4   | 92.6   |
| 85°    | 24.8   | 35.9   | 52.0   | 42.8   | 36.1   | 33.9   | 49.8   | 33.7   | 22.6   | 33.7   | 49.8   |
| 87.5°  | 9.1    | 16.8   | 8.9    | 8.6    | 8.6    | 8.6    | 8.9    | 16.8   | 9.1    | 15.0   | 10.6   |
| 90°    | 0.0    | 3.4    | 8.0    | 6.9    | 6.9    | 6.9    | 8.0    | 3.4    | 0.0    | 3.4    | 8.0    |
| 92.5°  | 16.7   | 59.8   | 191.0  | 62.9   | 48.5   | 62.9   | 191.0  | 59.8   | 16.7   | 59.8   | 191.0  |
| 95°    | 48.5   | 147.9  | 658.2  | 234.7  | 144.4  | 234.7  | 658.2  | 147.9  | 48.5   | 147.9  | 658.2  |
| 97.5°  | 91.3   | 192.4  | 1117.0 | 680.4  | 415.2  | 680.4  | 1117.0 | 192.4  | 91.3   | 192.4  | 1117.0 |
| 100°   | 119.0  | 218.3  | 1289.9 | 1150.1 | 746.0  | 1150.1 | 1289.9 | 218.3  | 119.0  | 218.3  | 1289.9 |
| 102.5° | 150.3  | 246.1  | 1268.5 | 1701.6 | 1293.7 | 1701.6 | 1268.5 | 246.1  | 150.3  | 246.1  | 1268.5 |
| 105°   | 198.6  | 286.7  | 1158.2 | 2212.2 | 2094.7 | 2212.2 | 1158.2 | 286.7  | 198.6  | 286.7  | 1158.2 |
| 107.5° | 250.8  | 333.7  | 1053.4 | 2256.4 | 2380.8 | 2256.4 | 1053.4 | 333.7  | 250.8  | 333.7  | 1053.4 |
| 110°   | 288.7  | 364.3  | 1003.4 | 2201.4 | 2426.1 | 2201.4 | 1003.4 | 364.3  | 288.7  | 364.3  | 1003.4 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5°  | 90°    | 112.5° | 135°  | 157.5° | 180°  | 202.5° | 225°  |
|--------|-------|-------|-------|--------|--------|--------|-------|--------|-------|--------|-------|
| 112.5° | 320.1 | 394.8 | 972.1 | 2102.2 | 2391.9 | 2102.2 | 972.1 | 394.8  | 320.1 | 394.8  | 972.1 |
| 115°   | 367.2 | 438.3 | 943.4 | 1944.2 | 2287.6 | 1944.2 | 943.4 | 438.3  | 367.2 | 438.3  | 943.4 |
| 117.5° | 415.7 | 479.8 | 932.3 | 1799.7 | 2141.3 | 1799.7 | 932.3 | 479.8  | 415.7 | 479.8  | 932.3 |
| 120°   | 443.4 | 506.6 | 929.5 | 1710.8 | 2041.5 | 1710.8 | 929.5 | 506.6  | 443.4 | 506.6  | 929.5 |
| 122.5° | 470.2 | 532.6 | 930.5 | 1633.5 | 1941.8 | 1633.5 | 930.5 | 532.6  | 470.2 | 532.6  | 930.5 |
| 125°   | 510.4 | 569.1 | 930.7 | 1535.1 | 1809.5 | 1535.1 | 930.7 | 569.1  | 510.4 | 569.1  | 930.7 |
| 127.5° | 544.8 | 604.8 | 930.5 | 1461.3 | 1690.1 | 1461.3 | 930.5 | 604.8  | 544.8 | 604.8  | 930.5 |
| 130°   | 567.0 | 627.9 | 929.5 | 1419.2 | 1623.5 | 1419.2 | 929.5 | 627.9  | 567.0 | 627.9  | 929.5 |
| 132.5° | 586.4 | 650.1 | 928.6 | 1380.1 | 1571.8 | 1380.1 | 928.6 | 650.1  | 586.4 | 650.1  | 928.6 |
| 135°   | 616.6 | 680.9 | 926.1 | 1324.8 | 1494.3 | 1324.8 | 926.1 | 680.9  | 616.6 | 680.9  | 926.1 |
| 137.5° | 646.2 | 711.0 | 923.6 | 1268.8 | 1419.2 | 1268.8 | 923.6 | 711.0  | 646.2 | 711.0  | 923.6 |
| 140°   | 667.4 | 729.5 | 922.6 | 1230.7 | 1373.0 | 1230.7 | 922.6 | 729.5  | 667.4 | 729.5  | 922.6 |
| 142.5° | 687.7 | 747.1 | 922.6 | 1194.3 | 1321.2 | 1194.3 | 922.6 | 747.1  | 687.7 | 747.1  | 922.6 |
| 145°   | 720.6 | 773.6 | 923.8 | 1141.0 | 1249.4 | 1141.0 | 923.8 | 773.6  | 720.6 | 773.6  | 923.8 |
| 147.5° | 752.4 | 798.5 | 925.4 | 1095.7 | 1179.5 | 1095.7 | 925.4 | 798.5  | 752.4 | 798.5  | 925.4 |
| 150°   | 773.7 | 814.3 | 927.3 | 1068.6 | 1139.8 | 1068.6 | 927.3 | 814.3  | 773.7 | 814.3  | 927.3 |
| 152.5° | 794.9 | 828.4 | 928.1 | 1047.9 | 1104.6 | 1047.9 | 928.1 | 828.4  | 794.9 | 828.4  | 928.1 |
| 155°   | 822.2 | 849.2 | 929.5 | 1021.7 | 1060.0 | 1021.7 | 929.5 | 849.2  | 822.2 | 849.2  | 929.5 |
| 157.5° | 848.1 | 867.4 | 930.9 | 1002.2 | 1029.0 | 1002.2 | 930.9 | 867.4  | 848.1 | 867.4  | 930.9 |
| 160°   | 863.8 | 879.5 | 931.9 | 990.1  | 1011.6 | 990.1  | 931.9 | 879.5  | 863.8 | 879.5  | 931.9 |
| 162.5° | 877.5 | 889.8 | 931.9 | 979.8  | 995.8  | 979.8  | 931.9 | 889.8  | 877.5 | 889.8  | 931.9 |
| 165°   | 897.2 | 905.2 | 931.9 | 966.8  | 978.0  | 966.8  | 931.9 | 905.2  | 897.2 | 905.2  | 931.9 |
| 167.5° | 911.1 | 916.0 | 932.1 | 956.9  | 962.9  | 956.9  | 932.1 | 916.0  | 911.1 | 916.0  | 932.1 |
| 170°   | 920.3 | 922.5 | 933.0 | 950.4  | 952.6  | 950.4  | 933.0 | 922.5  | 920.3 | 922.5  | 933.0 |
| 172.5° | 926.8 | 928.1 | 934.9 | 946.7  | 946.2  | 946.7  | 934.9 | 928.1  | 926.8 | 928.1  | 934.9 |
| 175°   | 935.4 | 935.4 | 935.4 | 942.2  | 939.9  | 942.2  | 935.4 | 935.4  | 935.4 | 935.4  | 935.4 |
| 177.5° | 938.8 | 937.9 | 937.0 | 941.5  | 937.9  | 941.5  | 937.0 | 937.9  | 938.8 | 937.9  | 937.0 |
| 180°   | 938.8 | 938.8 | 938.8 | 938.8  | 938.8  | 938.8  | 938.8 | 938.8  | 938.8 | 938.8  | 938.8 |



TEST NUMBER: P855443

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**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 270°   | 292.5° | 315°   | 337.5° | 360°   |
|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 2997.3 | 2997.3 | 2997.3 | 2997.3 | 2997.3 | 2997.3 |
| 2.5°   | 2974.0 | 2986.5 | 2986.5 | 2979.1 | 3014.5 | 2981.0 |
| 5°     | 2943.7 | 2972.4 | 2959.1 | 2958.8 | 3003.2 | 2970.1 |
| 7.5°   | 2922.4 | 2949.3 | 2936.9 | 2934.4 | 2978.1 | 2951.6 |
| 10°    | 2900.5 | 2920.4 | 2911.5 | 2918.2 | 2958.3 | 2931.7 |
| 12.5°  | 2869.8 | 2893.2 | 2884.5 | 2894.6 | 2931.2 | 2910.0 |
| 15°    | 2816.9 | 2836.8 | 2841.1 | 2845.8 | 2888.2 | 2866.2 |
| 17.5°  | 2729.4 | 2739.2 | 2761.2 | 2792.4 | 2836.7 | 2811.9 |
| 20°    | 2660.7 | 2674.0 | 2687.3 | 2741.8 | 2793.2 | 2766.7 |
| 22.5°  | 2582.6 | 2578.2 | 2609.1 | 2673.1 | 2737.3 | 2714.2 |
| 25°    | 2371.8 | 2201.6 | 2389.4 | 2554.2 | 2640.0 | 2633.3 |
| 27.5°  | 1651.5 | 1433.1 | 1626.2 | 2357.6 | 2537.8 | 2551.1 |
| 30°    | 1299.7 | 1198.0 | 1297.4 | 2104.4 | 2462.3 | 2493.1 |
| 32.5°  | 1153.9 | 1084.1 | 1144.7 | 1601.7 | 2367.0 | 2426.2 |
| 35°    | 995.7  | 947.1  | 995.7  | 1198.0 | 2179.9 | 2316.9 |
| 37.5°  | 797.0  | 697.5  | 795.3  | 1035.2 | 1762.2 | 2198.9 |
| 40°    | 593.9  | 467.9  | 576.2  | 926.7  | 1408.3 | 2106.7 |
| 42.5°  | 395.7  | 301.5  | 374.4  | 729.7  | 1218.1 | 1983.7 |
| 45°    | 214.1  | 187.6  | 205.3  | 440.8  | 994.1  | 1767.6 |
| 47.5°  | 167.9  | 177.6  | 167.9  | 278.1  | 760.4  | 1400.1 |
| 50°    | 161.2  | 192.2  | 161.2  | 214.8  | 629.1  | 1060.2 |
| 52.5°  | 175.7  | 208.4  | 173.9  | 169.6  | 513.4  | 785.2  |
| 55°    | 199.2  | 307.4  | 201.4  | 137.9  | 376.4  | 529.0  |
| 57.5°  | 283.5  | 345.9  | 286.6  | 130.6  | 290.0  | 335.4  |
| 60°    | 291.2  | 372.9  | 289.0  | 137.9  | 224.3  | 248.7  |
| 62.5°  | 344.4  | 461.6  | 344.0  | 157.8  | 166.8  | 205.2  |
| 65°    | 441.8  | 486.0  | 446.2  | 201.1  | 119.1  | 185.3  |
| 67.5°  | 419.3  | 450.7  | 414.9  | 215.6  | 81.9   | 167.2  |
| 70°    | 412.0  | 436.2  | 407.5  | 246.4  | 76.1   | 140.2  |
| 72.5°  | 384.3  | 387.4  | 376.4  | 228.3  | 68.4   | 116.7  |
| 75°    | 297.9  | 278.1  | 286.9  | 196.6  | 68.5   | 99.4   |
| 77.5°  | 185.2  | 177.3  | 178.5  | 150.1  | 60.5   | 74.6   |
| 80°    | 140.1  | 135.7  | 133.4  | 126.6  | 56.5   | 56.5   |
| 82.5°  | 103.8  | 99.4   | 97.2   | 97.7   | 47.4   | 43.8   |
| 85°    | 47.3   | 43.0   | 40.8   | 56.5   | 33.7   | 24.8   |
| 87.5°  | 10.4   | 10.4   | 8.6    | 10.6   | 13.3   | 9.1    |
| 90°    | 6.9    | 6.9    | 6.9    | 8.0    | 3.4    | 0.0    |
| 92.5°  | 62.9   | 48.5   | 62.9   | 191.0  | 59.8   | 16.7   |
| 95°    | 234.7  | 144.4  | 234.7  | 658.2  | 147.9  | 48.5   |
| 97.5°  | 680.4  | 415.2  | 680.4  | 1117.0 | 192.4  | 91.3   |
| 100°   | 1150.1 | 746.0  | 1150.1 | 1289.9 | 218.3  | 119.0  |
| 102.5° | 1701.6 | 1293.7 | 1701.6 | 1268.5 | 246.1  | 150.3  |
| 105°   | 2212.2 | 2094.7 | 2212.2 | 1158.2 | 286.7  | 198.6  |
| 107.5° | 2256.4 | 2380.8 | 2256.4 | 1053.4 | 333.7  | 250.8  |
| 110°   | 2201.4 | 2426.1 | 2201.4 | 1003.4 | 364.3  | 288.7  |





TEST NUMBER: P855443

CATALOG NUMBER: SQ2-FA-125U-100D-840-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 270°   | 292.5° | 315°  | 337.5° | 360°  |
|--------|--------|--------|--------|-------|--------|-------|
| 112.5° | 2102.2 | 2391.9 | 2102.2 | 972.1 | 394.8  | 320.1 |
| 115°   | 1944.2 | 2287.6 | 1944.2 | 943.4 | 438.3  | 367.2 |
| 117.5° | 1799.7 | 2141.3 | 1799.7 | 932.3 | 479.8  | 415.7 |
| 120°   | 1710.8 | 2041.5 | 1710.8 | 929.5 | 506.6  | 443.4 |
| 122.5° | 1633.5 | 1941.8 | 1633.5 | 930.5 | 532.6  | 470.2 |
| 125°   | 1535.1 | 1809.5 | 1535.1 | 930.7 | 569.1  | 510.4 |
| 127.5° | 1461.3 | 1690.1 | 1461.3 | 930.5 | 604.8  | 544.8 |
| 130°   | 1419.2 | 1623.5 | 1419.2 | 929.5 | 627.9  | 567.0 |
| 132.5° | 1380.1 | 1571.8 | 1380.1 | 928.6 | 650.1  | 586.4 |
| 135°   | 1324.8 | 1494.3 | 1324.8 | 926.1 | 680.9  | 616.6 |
| 137.5° | 1268.8 | 1419.2 | 1268.8 | 923.6 | 711.0  | 646.2 |
| 140°   | 1230.7 | 1373.0 | 1230.7 | 922.6 | 729.5  | 667.4 |
| 142.5° | 1194.3 | 1321.2 | 1194.3 | 922.6 | 747.1  | 687.7 |
| 145°   | 1141.0 | 1249.4 | 1141.0 | 923.8 | 773.6  | 720.6 |
| 147.5° | 1095.7 | 1179.5 | 1095.7 | 925.4 | 798.5  | 752.4 |
| 150°   | 1068.6 | 1139.8 | 1068.6 | 927.3 | 814.3  | 773.7 |
| 152.5° | 1047.9 | 1104.6 | 1047.9 | 928.1 | 828.4  | 794.9 |
| 155°   | 1021.7 | 1060.0 | 1021.7 | 929.5 | 849.2  | 822.2 |
| 157.5° | 1002.2 | 1029.0 | 1002.2 | 930.9 | 867.4  | 848.1 |
| 160°   | 990.1  | 1011.6 | 990.1  | 931.9 | 879.5  | 863.8 |
| 162.5° | 979.8  | 995.8  | 979.8  | 931.9 | 889.8  | 877.5 |
| 165°   | 966.8  | 978.0  | 966.8  | 931.9 | 905.2  | 897.2 |
| 167.5° | 956.9  | 962.9  | 956.9  | 932.1 | 916.0  | 911.1 |
| 170°   | 950.4  | 952.6  | 950.4  | 933.0 | 922.5  | 920.3 |
| 172.5° | 946.7  | 946.2  | 946.7  | 934.9 | 928.1  | 926.8 |
| 175°   | 942.2  | 939.9  | 942.2  | 935.4 | 935.4  | 935.4 |
| 177.5° | 941.5  | 937.9  | 941.5  | 937.0 | 937.9  | 938.8 |
| 180°   | 938.8  | 938.8  | 938.8  | 938.8 | 938.8  | 938.8 |



TEST NUMBER: P855443

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**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 | 12.69            | 13.41 | 13.73 | 14.44 | 15.82 | 11.55          | 12.27 | 12.59 | 13.30 | 14.67 |
|                 | 3H   | 13.39            | 14.03 | 14.43 | 15.07 | 16.46 | 17.70          | 18.34 | 18.74 | 19.38 | 20.77 |
|                 | 4H   | 13.79            | 14.40 | 14.85 | 15.44 | 16.85 | 18.97          | 19.58 | 20.03 | 20.62 | 22.02 |
|                 | 6H   | 14.15            | 14.71 | 15.21 | 15.75 | 17.16 | 19.57          | 20.13 | 20.64 | 21.17 | 22.59 |
|                 | 8H   | 14.26            | 14.79 | 15.33 | 15.85 | 17.26 | 19.69          | 20.22 | 20.76 | 21.28 | 22.69 |
|                 | 12H  | 14.33            | 14.83 | 15.40 | 15.88 | 17.31 | 19.73          | 20.24 | 20.80 | 21.29 | 22.72 |
| 4H              | 2H   | 13.08            | 13.69 | 14.14 | 14.73 | 16.13 | 12.07          | 12.68 | 13.14 | 13.72 | 15.12 |
|                 | 3H   | 14.07            | 14.58 | 15.14 | 15.64 | 17.06 | 18.39          | 18.90 | 19.46 | 19.97 | 21.38 |
|                 | 4H   | 14.63            | 15.09 | 15.70 | 16.15 | 17.59 | 19.84          | 20.31 | 20.91 | 21.36 | 22.80 |
|                 | 6H   | 15.10            | 15.50 | 16.18 | 16.58 | 18.01 | 20.57          | 20.97 | 21.65 | 22.05 | 23.48 |
|                 | 8H   | 15.27            | 15.64 | 16.35 | 16.71 | 18.16 | 20.74          | 21.11 | 21.82 | 22.18 | 23.63 |
|                 | 12H  | 15.38            | 15.71 | 16.48 | 16.80 | 18.25 | 20.80          | 21.13 | 21.89 | 22.22 | 23.67 |
| 8H              | 4H   | 15.72            | 16.09 | 16.80 | 17.17 | 18.61 | 19.96          | 20.33 | 21.04 | 21.40 | 22.85 |
|                 | 6H   | 16.33            | 16.63 | 17.43 | 17.75 | 19.19 | 20.83          | 21.14 | 21.94 | 22.26 | 23.70 |
|                 | 8H   | 16.56            | 16.83 | 17.67 | 17.93 | 19.39 | 21.09          | 21.35 | 22.19 | 22.45 | 23.91 |
|                 | 12H  | 16.73            | 16.96 | 17.84 | 18.06 | 19.56 | 21.20          | 21.44 | 22.31 | 22.53 | 24.03 |
| 12H             | 4H   | 15.86            | 16.20 | 16.96 | 17.29 | 18.73 | 19.91          | 20.25 | 21.01 | 21.34 | 22.79 |
|                 | 6H   | 16.60            | 16.87 | 17.71 | 17.97 | 19.43 | 20.84          | 21.11 | 21.95 | 22.21 | 23.67 |
|                 | 8H   | 16.90            | 17.13 | 18.01 | 18.23 | 19.73 | 21.12          | 21.35 | 22.23 | 22.45 | 23.95 |