

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: P936313

Luminaire Tested: SQ4-FB-025U-075D-835-1D-UNV-STD-W-12

Issue Date: 12/17/2024

**Test Information**

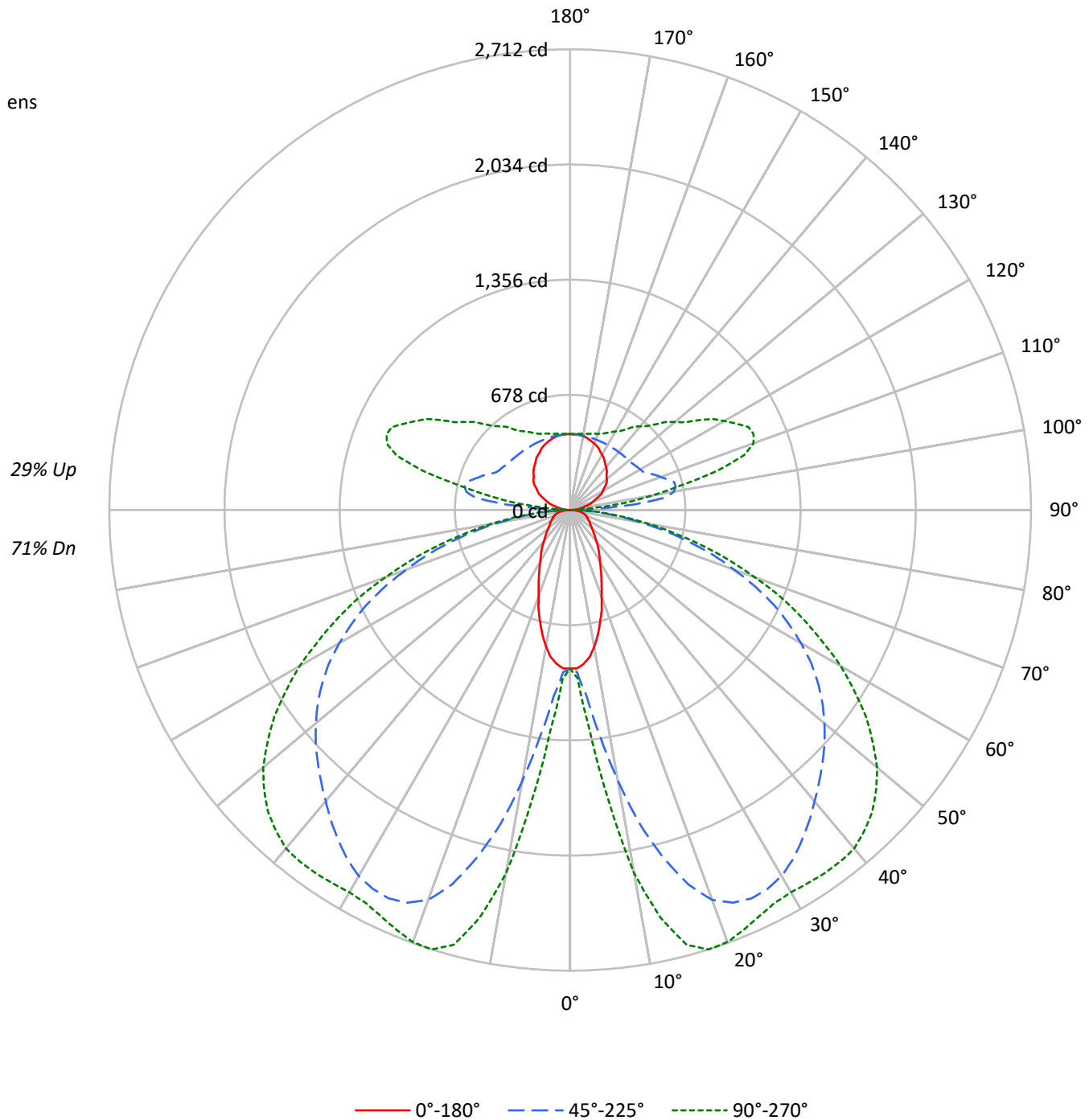
Test Method: LM-79-2019  
Report Number: P936313  
REPORT IS A COMBINATION OF REPORTS P933430 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FB-025U-075D-835-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10122.0 lumens  
Efficiency: N/A  
Efficacy: 112.5 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-Direct  
  
Input Watts (W): 90  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: P936313  
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### Luminous Intensity Polar Plot





TEST NUMBER: P936313

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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   | 112 | 112 | 112 | 112 | 106 | 106 | 106 | 106 | 95 | 95 | 95 | 85 | 85 | 85 | 76 | 76 | 76 | 76 | 76 | 76 | 71 |
| 1   | 102 | 97  | 93  | 89  | 96  | 92  | 88  | 85  | 82 | 79 | 77 | 74 | 71 | 69 | 66 | 64 | 62 | 66 | 64 | 62 | 58 |
| 2   | 92  | 84  | 77  | 71  | 87  | 79  | 73  | 68  | 71 | 66 | 62 | 64 | 60 | 57 | 57 | 54 | 51 | 57 | 54 | 51 | 48 |
| 3   | 83  | 73  | 65  | 58  | 79  | 69  | 62  | 56  | 62 | 56 | 51 | 56 | 51 | 47 | 50 | 46 | 43 | 50 | 46 | 43 | 39 |
| 4   | 76  | 64  | 55  | 49  | 71  | 61  | 53  | 47  | 55 | 48 | 43 | 49 | 44 | 39 | 44 | 40 | 36 | 44 | 40 | 36 | 33 |
| 5   | 69  | 57  | 48  | 41  | 65  | 54  | 46  | 40  | 49 | 42 | 37 | 44 | 38 | 34 | 39 | 34 | 31 | 39 | 34 | 31 | 28 |
| 6   | 64  | 51  | 42  | 35  | 60  | 48  | 40  | 34  | 43 | 37 | 32 | 39 | 33 | 29 | 35 | 30 | 27 | 35 | 30 | 27 | 24 |
| 7   | 59  | 45  | 37  | 31  | 55  | 43  | 35  | 30  | 39 | 32 | 27 | 35 | 30 | 25 | 32 | 27 | 23 | 32 | 27 | 23 | 21 |
| 8   | 54  | 41  | 33  | 27  | 51  | 39  | 31  | 26  | 36 | 29 | 24 | 32 | 26 | 22 | 29 | 24 | 21 | 29 | 24 | 21 | 18 |
| 9   | 51  | 37  | 29  | 24  | 48  | 36  | 28  | 23  | 32 | 26 | 21 | 29 | 24 | 20 | 26 | 22 | 18 | 26 | 22 | 18 | 16 |
| 10  | 47  | 34  | 26  | 21  | 45  | 33  | 25  | 21  | 30 | 23 | 19 | 27 | 22 | 18 | 24 | 20 | 16 | 24 | 20 | 16 | 14 |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 2886 | 2886 | 2886 |
| 5°  | 2820 | 3336 | 3879 |
| 10° | 2559 | 4865 | 6431 |
| 15° | 2176 | 6357 | 7765 |
| 20° | 1772 | 7369 | 7914 |
| 25° | 1479 | 7713 | 7753 |
| 30° | 1248 | 7764 | 7739 |
| 35° | 1104 | 7637 | 7939 |
| 40° | 962  | 7471 | 8146 |
| 45° | 872  | 7351 | 8178 |
| 50° | 800  | 7243 | 8042 |
| 55° | 767  | 7084 | 7686 |
| 60° | 787  | 6776 | 7123 |
| 65° | 820  | 6306 | 6350 |
| 70° | 875  | 5503 | 5364 |
| 75° | 974  | 4491 | 4186 |
| 80° | 1072 | 3118 | 2820 |
| 85° | 972  | 1657 | 1444 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 8178 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 120.7   | 1.2       |
| 10°-20°   | 534.9   | 5.3       |
| 20°-30°   | 935.6   | 9.2       |
| 30°-40°   | 1204.5  | 11.9      |
| 40°-50°   | 1345.3  | 13.3      |
| 50°-60°   | 1288.5  | 12.7      |
| 60°-70°   | 1021.2  | 10.1      |
| 70°-80°   | 600.4   | 5.9       |
| 80°-90°   | 168.5   | 1.7       |
| 90°-100°  | 218.2   | 2.2       |
| 100°-110° | 573.7   | 5.7       |
| 110°-120° | 594.9   | 5.9       |
| 120°-130° | 477.2   | 4.7       |
| 130°-140° | 374.4   | 3.7       |
| 140°-150° | 287.4   | 2.8       |
| 150°-160° | 207.0   | 2.0       |
| 160°-170° | 126.6   | 1.3       |
| 170°-180° | 42.8    | 0.4       |
| 0°-30°    | 1591.3  | 15.7      |
| 0°-40°    | 2795.7  | 27.6      |
| 0°-60°    | 5429.6  | 53.6      |
| 0°-90°    | 7219.7  | 71.3      |
| 90°-120°  | 1386.9  | 13.7      |
| 90°-150°  | 2525.9  | 25.0      |
| 90°-180°  | 2902.0  | 28.7      |
| 0°-180°   | 10122.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|-----|-------|------|-------|------|------|
| 0°   | 933 | 933   | 933  | 933   | 933  |      |
| 5°   | 909 | 975   | 1098 | 1242  | 1287 | 84   |
| 15°  | 681 | 1257  | 2118 | 2568  | 2649 | 190  |
| 25°  | 435 | 1425  | 2523 | 2634  | 2637 | 200  |
| 35°  | 294 | 1362  | 2376 | 2511  | 2610 | 184  |
| 45°  | 201 | 1086  | 2100 | 2406  | 2514 | 155  |
| 55°  | 144 | 690   | 1782 | 2070  | 2127 | 131  |
| 65°  | 114 | 366   | 1323 | 1488  | 1509 | 113  |
| 75°  | 84  | 225   | 726  | 798   | 801  | 88   |
| 85°  | 30  | 69    | 180  | 198   | 201  | 32   |
| 90°  | 3   | 8     | 23   | 11    | 11   | 5    |
| 95°  | 29  | 113   | 376  | 194   | 132  | 32   |
| 105° | 103 | 156   | 634  | 963   | 898  | 110  |
| 115° | 184 | 223   | 508  | 1014  | 1157 | 181  |
| 125° | 255 | 286   | 462  | 781   | 921  | 227  |
| 135° | 304 | 335   | 448  | 630   | 715  | 236  |
| 145° | 353 | 376   | 442  | 538   | 580  | 221  |
| 155° | 399 | 410   | 442  | 485   | 499  | 183  |
| 165° | 431 | 436   | 442  | 459   | 465  | 122  |
| 175° | 448 | 448   | 445  | 451   | 451  | 42   |
| 180° | 448 | 448   | 448  | 448   | 448  |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 10°   | 20°    | 22.5°  | 30°    | 40°    | 45°    | 50°    | 60°    | 67.5°  | 70°    |
|--------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 933.0 | 933.0 | 933.0  | 933.0  | 933.0  | 933.0  | 933.0  | 933.0  | 933.0  | 933.0  | 933.0  |
| 2.5°   | 933.0 | 933.0 | 939.0  | 942.0  | 948.0  | 951.0  | 957.0  | 963.0  | 981.0  | 984.0  | 990.0  |
| 5°     | 909.0 | 921.0 | 960.0  | 975.0  | 1017.0 | 1074.0 | 1098.0 | 1137.1 | 1218.1 | 1242.1 | 1257.1 |
| 7.5°   | 873.0 | 900.0 | 996.0  | 1020.0 | 1125.0 | 1275.1 | 1338.1 | 1422.1 | 1551.1 | 1614.1 | 1665.1 |
| 10°    | 816.0 | 873.0 | 1044.0 | 1101.0 | 1272.1 | 1500.1 | 1617.1 | 1734.1 | 1929.1 | 2016.1 | 2049.1 |
| 12.5°  | 753.0 | 846.0 | 1095.0 | 1173.1 | 1419.1 | 1752.1 | 1893.1 | 2022.1 | 2244.1 | 2361.1 | 2379.1 |
| 15°    | 681.0 | 807.0 | 1143.1 | 1257.1 | 1575.1 | 1962.1 | 2118.1 | 2277.1 | 2484.1 | 2568.1 | 2589.1 |
| 17.5°  | 618.0 | 777.0 | 1188.1 | 1308.1 | 1695.1 | 2151.1 | 2310.1 | 2442.1 | 2610.1 | 2667.1 | 2682.1 |
| 20°    | 540.0 | 729.0 | 1218.1 | 1374.1 | 1821.1 | 2289.1 | 2442.1 | 2544.1 | 2658.1 | 2694.1 | 2700.1 |
| 22.5°  | 483.0 | 678.0 | 1236.1 | 1398.1 | 1905.1 | 2373.1 | 2502.1 | 2583.1 | 2661.1 | 2673.1 | 2676.1 |
| 25°    | 435.0 | 621.0 | 1233.1 | 1425.1 | 1977.1 | 2424.1 | 2523.1 | 2583.1 | 2628.1 | 2634.1 | 2634.1 |
| 27.5°  | 390.0 | 558.0 | 1221.1 | 1431.1 | 2031.1 | 2436.1 | 2514.1 | 2556.1 | 2577.1 | 2589.1 | 2589.1 |
| 30°    | 351.0 | 498.0 | 1191.1 | 1419.1 | 2055.1 | 2424.1 | 2487.1 | 2508.1 | 2529.1 | 2547.1 | 2556.1 |
| 32.5°  | 321.0 | 441.0 | 1146.1 | 1395.1 | 2058.1 | 2394.1 | 2439.1 | 2451.1 | 2481.1 | 2523.1 | 2538.1 |
| 35°    | 294.0 | 384.0 | 1095.0 | 1362.1 | 2040.1 | 2346.1 | 2376.1 | 2388.1 | 2448.1 | 2511.1 | 2532.1 |
| 37.5°  | 267.0 | 342.0 | 1029.0 | 1305.1 | 2013.1 | 2289.1 | 2310.1 | 2331.1 | 2424.1 | 2499.1 | 2523.1 |
| 40°    | 240.0 | 306.0 | 951.0  | 1242.1 | 1971.1 | 2220.1 | 2238.1 | 2271.1 | 2394.1 | 2481.1 | 2505.1 |
| 42.5°  | 219.0 | 276.0 | 867.0  | 1176.1 | 1917.1 | 2142.1 | 2169.1 | 2217.1 | 2358.1 | 2451.1 | 2478.1 |
| 45°    | 201.0 | 246.0 | 777.0  | 1086.0 | 1848.1 | 2061.1 | 2100.1 | 2166.1 | 2316.1 | 2406.1 | 2430.1 |
| 47.5°  | 183.0 | 225.0 | 684.0  | 993.0  | 1773.1 | 1980.1 | 2031.1 | 2106.1 | 2259.1 | 2346.1 | 2367.1 |
| 50°    | 168.0 | 204.0 | 591.0  | 894.0  | 1692.1 | 1893.1 | 1953.1 | 2031.1 | 2187.1 | 2268.1 | 2295.1 |
| 52.5°  | 156.0 | 186.0 | 504.0  | 795.0  | 1599.1 | 1803.1 | 1872.1 | 1953.1 | 2100.1 | 2178.1 | 2196.1 |
| 55°    | 144.0 | 171.0 | 429.0  | 690.0  | 1503.1 | 1707.1 | 1782.1 | 1860.1 | 2004.1 | 2070.1 | 2082.1 |
| 57.5°  | 138.0 | 159.0 | 366.0  | 591.0  | 1401.1 | 1599.1 | 1683.1 | 1755.1 | 1890.1 | 1941.1 | 1953.1 |
| 60°    | 129.0 | 150.0 | 318.0  | 507.0  | 1290.1 | 1497.1 | 1569.1 | 1641.1 | 1755.1 | 1797.1 | 1806.1 |
| 62.5°  | 120.0 | 144.0 | 282.0  | 426.0  | 1176.1 | 1377.1 | 1449.1 | 1515.1 | 1611.1 | 1641.1 | 1653.1 |
| 65°    | 114.0 | 138.0 | 255.0  | 366.0  | 1059.0 | 1251.1 | 1323.1 | 1380.1 | 1458.1 | 1488.1 | 1494.1 |
| 67.5°  | 108.0 | 132.0 | 234.0  | 315.0  | 942.0  | 1125.0 | 1179.1 | 1233.1 | 1293.1 | 1323.1 | 1326.1 |
| 70°    | 99.0  | 126.0 | 216.0  | 279.0  | 822.0  | 981.0  | 1026.0 | 1083.0 | 1131.0 | 1146.1 | 1155.1 |
| 72.5°  | 93.0  | 117.0 | 204.0  | 252.0  | 699.0  | 843.0  | 885.0  | 918.0  | 960.0  | 975.0  | 975.0  |
| 75°    | 84.0  | 105.0 | 192.0  | 225.0  | 573.0  | 690.0  | 726.0  | 759.0  | 792.0  | 798.0  | 789.0  |
| 77.5°  | 75.0  | 93.0  | 165.0  | 189.0  | 447.0  | 546.0  | 576.0  | 594.0  | 621.0  | 627.0  | 630.0  |
| 80°    | 63.0  | 81.0  | 129.0  | 147.0  | 324.0  | 402.0  | 423.0  | 438.0  | 462.0  | 462.0  | 468.0  |
| 82.5°  | 48.0  | 63.0  | 93.0   | 105.0  | 219.0  | 276.0  | 294.0  | 303.0  | 318.0  | 318.0  | 318.0  |
| 85°    | 30.0  | 39.0  | 60.0   | 69.0   | 132.0  | 168.0  | 180.0  | 183.0  | 195.0  | 198.0  | 198.0  |
| 87.5°  | 15.0  | 21.0  | 39.0   | 42.0   | 69.0   | 87.0   | 87.0   | 93.0   | 93.0   | 90.0   | 87.0   |
| 90°    | 3.0   | 5.4   | 7.8    | 8.4    | 13.2   | 19.6   | 22.8   | 20.3   | 15.2   | 11.4   | 11.4   |
| 92.5°  | 12.0  | 32.4  | 52.9   | 58.0   | 81.5   | 112.9  | 128.6  | 112.7  | 80.9   | 57.1   | 54.8   |
| 95°    | 28.8  | 66.2  | 103.6  | 113.0  | 200.6  | 317.5  | 375.9  | 335.4  | 254.5  | 193.8  | 186.9  |
| 97.5°  | 49.9  | 82.9  | 115.9  | 124.1  | 270.2  | 465.1  | 562.5  | 536.9  | 485.8  | 447.4  | 434.3  |
| 100°   | 66.1  | 96.0  | 125.9  | 133.4  | 295.6  | 511.8  | 619.9  | 621.8  | 625.5  | 628.3  | 612.7  |
| 102.5° | 79.9  | 107.8 | 135.7  | 142.7  | 307.2  | 526.5  | 636.1  | 668.7  | 733.8  | 782.7  | 769.3  |
| 105°   | 103.4 | 127.0 | 150.6  | 156.5  | 315.8  | 528.1  | 634.3  | 707.3  | 853.4  | 963.0  | 955.8  |
| 107.5° | 127.4 | 149.4 | 171.5  | 177.0  | 317.4  | 504.6  | 598.2  | 700.1  | 903.9  | 1056.8 | 1058.5 |
| 110°   | 143.6 | 163.5 | 183.4  | 188.4  | 315.0  | 483.8  | 568.2  | 682.1  | 909.9  | 1080.8 | 1088.3 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 10°   | 20°   | 22.5° | 30°   | 40°   | 45°   | 50°   | 60°   | 67.5°  | 70°    |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|
| 112.5° | 159.6 | 178.5 | 197.5 | 202.2 | 315.1 | 465.6 | 540.9 | 657.5 | 890.6 | 1065.5 | 1077.0 |
| 115°   | 183.6 | 201.1 | 218.6 | 223.0 | 318.0 | 444.7 | 508.1 | 620.4 | 845.0 | 1013.5 | 1029.4 |
| 117.5° | 207.3 | 223.2 | 239.1 | 243.1 | 323.9 | 431.7 | 485.6 | 587.0 | 789.7 | 941.7  | 959.4  |
| 120°   | 221.1 | 236.1 | 251.1 | 254.8 | 328.7 | 427.2 | 476.5 | 569.1 | 754.4 | 893.3  | 910.5  |
| 122.5° | 234.7 | 249.8 | 264.8 | 268.6 | 335.6 | 424.9 | 469.6 | 553.0 | 719.8 | 844.9  | 861.8  |
| 125°   | 255.4 | 269.2 | 283.0 | 286.4 | 345.0 | 423.1 | 462.1 | 532.9 | 674.6 | 780.9  | 796.5  |
| 127.5° | 272.2 | 286.1 | 300.0 | 303.5 | 354.3 | 422.0 | 455.8 | 516.6 | 638.3 | 729.5  | 742.7  |
| 130°   | 281.2 | 296.2 | 311.2 | 314.9 | 361.1 | 422.6 | 453.4 | 507.6 | 615.9 | 697.1  | 709.3  |
| 132.5° | 290.6 | 305.5 | 320.5 | 324.2 | 366.6 | 423.1 | 451.3 | 499.8 | 596.8 | 669.5  | 680.4  |
| 135°   | 304.4 | 318.0 | 331.6 | 335.0 | 372.6 | 422.7 | 447.7 | 488.3 | 569.5 | 630.4  | 639.8  |
| 137.5° | 318.5 | 332.0 | 345.4 | 348.8 | 381.6 | 425.3 | 447.1 | 481.4 | 550.0 | 601.5  | 609.2  |
| 140°   | 330.2 | 342.6 | 355.1 | 358.2 | 387.1 | 425.7 | 445.0 | 474.6 | 533.9 | 578.4  | 585.6  |
| 142.5° | 339.2 | 350.7 | 362.2 | 365.1 | 391.7 | 427.2 | 445.0 | 471.0 | 523.1 | 562.2  | 568.4  |
| 145°   | 353.1 | 363.1 | 373.1 | 375.6 | 397.7 | 427.2 | 442.0 | 463.3 | 505.9 | 537.8  | 542.5  |
| 147.5° | 366.9 | 376.6 | 386.4 | 388.8 | 406.5 | 430.2 | 442.0 | 458.8 | 492.3 | 517.4  | 521.3  |
| 150°   | 375.9 | 384.7 | 393.5 | 395.7 | 411.1 | 431.7 | 442.0 | 456.2 | 484.5 | 505.7  | 508.8  |
| 152.5° | 385.2 | 391.9 | 398.5 | 400.2 | 414.1 | 432.7 | 442.0 | 454.1 | 478.3 | 496.4  | 498.8  |
| 155°   | 399.0 | 403.9 | 408.9 | 410.1 | 420.7 | 434.9 | 442.0 | 451.6 | 470.9 | 485.3  | 486.9  |
| 157.5° | 409.2 | 414.0 | 418.9 | 420.1 | 427.4 | 437.1 | 442.0 | 449.5 | 464.4 | 475.6  | 476.7  |
| 160°   | 416.2 | 419.9 | 423.7 | 424.6 | 430.4 | 438.1 | 442.0 | 448.4 | 461.2 | 470.8  | 471.4  |
| 162.5° | 423.1 | 425.9 | 428.7 | 429.4 | 433.6 | 439.2 | 442.0 | 447.4 | 458.2 | 466.3  | 466.9  |
| 165°   | 430.6 | 433.1 | 435.7 | 436.3 | 438.2 | 440.7 | 442.0 | 445.9 | 453.6 | 459.4  | 460.0  |
| 167.5° | 437.5 | 438.7 | 439.9 | 440.2 | 441.8 | 443.9 | 445.0 | 447.5 | 452.6 | 456.4  | 456.7  |
| 170°   | 442.0 | 443.2 | 444.4 | 444.7 | 444.8 | 444.9 | 445.0 | 447.5 | 452.6 | 456.4  | 456.4  |
| 172.5° | 444.4 | 444.7 | 444.9 | 445.0 | 445.0 | 445.0 | 445.0 | 447.0 | 451.0 | 454.0  | 453.8  |
| 175°   | 447.7 | 447.7 | 447.7 | 447.7 | 446.8 | 445.6 | 445.0 | 446.3 | 448.8 | 450.7  | 450.7  |
| 177.5° | 447.7 | 447.7 | 447.7 | 447.7 | 447.0 | 446.1 | 445.6 | 446.6 | 448.6 | 450.1  | 449.8  |
| 180°   | 447.7 | 447.7 | 447.7 | 447.7 | 447.7 | 447.7 | 447.7 | 447.7 | 447.7 | 447.7  | 447.7  |



TEST NUMBER: P936313

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**CANDELA DISTRIBUTION (continued):**

|        | 80°    | 90°    |
|--------|--------|--------|
| 0°     | 933.0  | 933.0  |
| 2.5°   | 996.0  | 990.0  |
| 5°     | 1281.1 | 1287.1 |
| 7.5°   | 1725.1 | 1722.1 |
| 10°    | 2145.1 | 2172.1 |
| 12.5°  | 2451.1 | 2457.1 |
| 15°    | 2637.1 | 2649.1 |
| 17.5°  | 2709.1 | 2712.1 |
| 20°    | 2712.1 | 2706.1 |
| 22.5°  | 2679.1 | 2673.1 |
| 25°    | 2640.1 | 2637.1 |
| 27.5°  | 2604.1 | 2607.1 |
| 30°    | 2589.1 | 2598.1 |
| 32.5°  | 2589.1 | 2604.1 |
| 35°    | 2595.1 | 2610.1 |
| 37.5°  | 2592.1 | 2610.1 |
| 40°    | 2580.1 | 2601.1 |
| 42.5°  | 2547.1 | 2562.1 |
| 45°    | 2496.1 | 2514.1 |
| 47.5°  | 2430.1 | 2442.1 |
| 50°    | 2346.1 | 2358.1 |
| 52.5°  | 2241.1 | 2244.1 |
| 55°    | 2115.1 | 2127.1 |
| 57.5°  | 1980.1 | 1983.1 |
| 60°    | 1830.1 | 1839.1 |
| 62.5°  | 1671.1 | 1671.1 |
| 65°    | 1503.1 | 1509.1 |
| 67.5°  | 1329.1 | 1344.1 |
| 70°    | 1152.1 | 1155.1 |
| 72.5°  | 978.0  | 978.0  |
| 75°    | 798.0  | 801.0  |
| 77.5°  | 627.0  | 627.0  |
| 80°    | 465.0  | 468.0  |
| 82.5°  | 321.0  | 327.0  |
| 85°    | 201.0  | 201.0  |
| 87.5°  | 93.0   | 84.0   |
| 90°    | 11.4   | 11.4   |
| 92.5°  | 45.8   | 36.7   |
| 95°    | 159.4  | 131.9  |
| 97.5°  | 382.0  | 329.6  |
| 100°   | 550.4  | 488.0  |
| 102.5° | 715.9  | 662.5  |
| 105°   | 927.1  | 898.4  |
| 107.5° | 1065.5 | 1072.4 |
| 110°   | 1118.2 | 1148.1 |





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**CANDELA DISTRIBUTION (continued):**

|        | 80°    | 90°    |
|--------|--------|--------|
| 112.5° | 1122.9 | 1168.8 |
| 115°   | 1093.1 | 1156.8 |
| 117.5° | 1030.0 | 1100.6 |
| 120°   | 979.1  | 1047.7 |
| 122.5° | 929.6  | 997.3  |
| 125°   | 858.8  | 921.2  |
| 127.5° | 795.3  | 847.9  |
| 130°   | 757.9  | 806.5  |
| 132.5° | 723.9  | 767.4  |
| 135°   | 677.3  | 714.8  |
| 137.5° | 639.9  | 670.7  |
| 140°   | 614.3  | 643.0  |
| 142.5° | 593.1  | 617.8  |
| 145°   | 561.2  | 579.9  |
| 147.5° | 536.8  | 552.3  |
| 150°   | 521.4  | 533.9  |
| 152.5° | 508.2  | 517.7  |
| 155°   | 493.1  | 499.4  |
| 157.5° | 481.2  | 485.6  |
| 160°   | 474.0  | 476.5  |
| 162.5° | 469.3  | 471.7  |
| 165°   | 462.6  | 465.1  |
| 167.5° | 457.7  | 458.8  |
| 170°   | 456.4  | 456.4  |
| 172.5° | 452.8  | 451.9  |
| 175°   | 450.7  | 450.7  |
| 177.5° | 448.8  | 447.7  |
| 180°   | 447.7  | 447.7  |



TEST NUMBER: P936313  
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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 | 6.43             | 7.59  | 7.17  | 8.36  | 9.28  | 19.63          | 20.78 | 20.37 | 21.55 | 22.48 |
|                 | 3H   | 7.16             | 8.20  | 7.91  | 8.98  | 9.94  | 21.49          | 22.53 | 22.24 | 23.31 | 24.27 |
|                 | 4H   | 7.47             | 8.45  | 8.24  | 9.24  | 10.21 | 22.15          | 23.14 | 22.92 | 23.93 | 24.89 |
|                 | 6H   | 7.74             | 8.65  | 8.52  | 9.44  | 10.43 | 22.60          | 23.51 | 23.39 | 24.31 | 25.29 |
|                 | 8H   | 7.81             | 8.68  | 8.61  | 9.50  | 10.48 | 22.73          | 23.60 | 23.53 | 24.42 | 25.40 |
|                 | 12H  | 7.84             | 8.67  | 8.64  | 9.48  | 10.49 | 22.82          | 23.65 | 23.62 | 24.46 | 25.47 |
| 4H              | 2H   | 13.69            | 14.68 | 14.47 | 15.46 | 16.43 | 19.93          | 20.92 | 20.71 | 21.71 | 22.67 |
|                 | 3H   | 15.28            | 16.11 | 16.07 | 16.93 | 17.92 | 22.01          | 22.84 | 22.80 | 23.66 | 24.65 |
|                 | 4H   | 15.39            | 16.14 | 16.19 | 16.97 | 17.98 | 22.79          | 23.55 | 23.60 | 24.37 | 25.38 |
|                 | 6H   | 15.42            | 16.07 | 16.24 | 16.92 | 17.94 | 23.35          | 24.01 | 24.17 | 24.86 | 25.87 |
|                 | 8H   | 15.40            | 16.02 | 16.23 | 16.86 | 17.89 | 23.53          | 24.14 | 24.35 | 24.98 | 26.01 |
|                 | 12H  | 15.38            | 15.93 | 16.22 | 16.79 | 17.83 | 23.64          | 24.19 | 24.48 | 25.05 | 26.09 |
| 8H              | 4H   | 16.86            | 17.48 | 17.69 | 18.32 | 19.35 | 22.88          | 23.49 | 23.70 | 24.33 | 25.37 |
|                 | 6H   | 17.12            | 17.63 | 17.97 | 18.51 | 19.55 | 23.53          | 24.04 | 24.38 | 24.92 | 25.95 |
|                 | 8H   | 17.14            | 17.60 | 18.01 | 18.47 | 19.52 | 23.75          | 24.21 | 24.62 | 25.08 | 26.13 |
|                 | 12H  | 17.13            | 17.52 | 17.99 | 18.40 | 19.50 | 23.92          | 24.31 | 24.78 | 25.19 | 26.29 |
| 12H             | 4H   | 17.02            | 17.58 | 17.87 | 18.44 | 19.48 | 22.85          | 23.40 | 23.69 | 24.26 | 25.30 |
|                 | 6H   | 17.38            | 17.84 | 18.25 | 18.72 | 19.77 | 23.51          | 23.97 | 24.38 | 24.85 | 25.89 |
|                 | 8H   | 17.47            | 17.87 | 18.34 | 18.74 | 19.84 | 23.76          | 24.16 | 24.63 | 25.03 | 26.13 |