

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: P937323

Luminaire Tested: SQ4-FB-075U-125D-927-1D-UNV-STD-W-6

Issue Date: 12/17/2024

**Test Information**

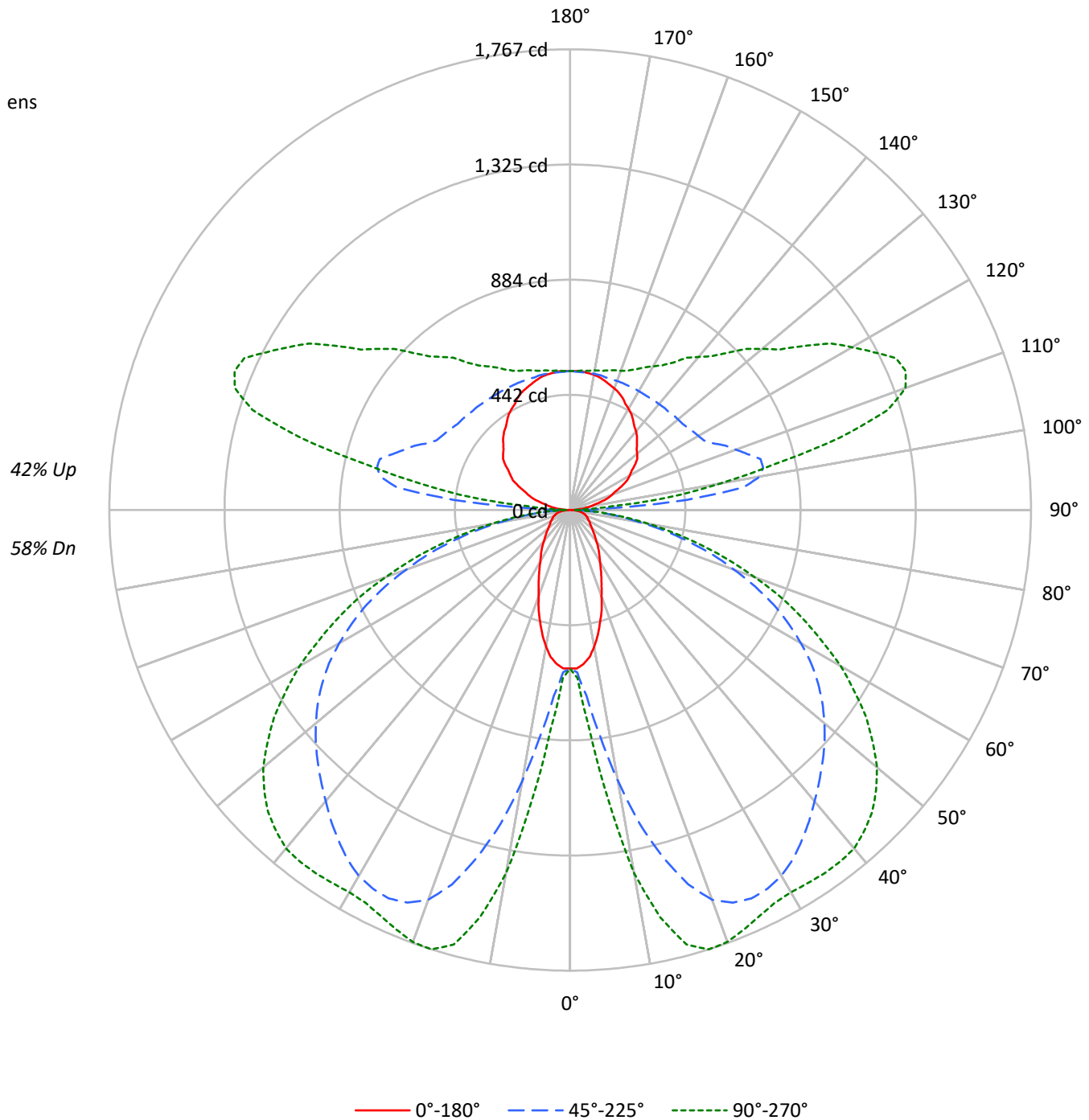
Test Method: LM-79-2019  
Report Number: P937323  
REPORT IS A COMBINATION OF REPORTS P933512 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FB-075U-125D-927-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8162.8 lumens  
Efficiency: N/A  
Efficacy: 87.8 lumens/watt  
Spacing Criteria (0/90/45): 0.71 / 2.69 / 2.33  
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')  
CIE Type: General Diffuse  
  
Input Watts (W): 93  
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

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### Luminous Intensity Polar Plot





TEST NUMBER: P937323

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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   | 109 | 109 | 109 | 109 | 101 | 101 | 101 | 101 | 88 | 88 | 88 | 75 | 75 | 75 | 63 | 63 | 63 | 58 |    |    | 58 |
| 1   | 99  | 94  | 90  | 86  | 92  | 88  | 84  | 81  | 76 | 73 | 71 | 65 | 63 | 61 | 55 | 53 | 52 | 47 |    |    | 47 |
| 2   | 89  | 82  | 75  | 69  | 83  | 76  | 70  | 65  | 66 | 61 | 57 | 56 | 53 | 50 | 47 | 45 | 43 | 38 |    |    | 38 |
| 3   | 81  | 71  | 63  | 57  | 75  | 66  | 59  | 54  | 57 | 52 | 47 | 49 | 45 | 41 | 41 | 38 | 36 | 32 |    |    | 32 |
| 4   | 74  | 62  | 54  | 48  | 68  | 58  | 51  | 45  | 50 | 45 | 40 | 43 | 39 | 35 | 36 | 33 | 30 | 27 |    |    | 27 |
| 5   | 68  | 55  | 47  | 40  | 63  | 52  | 44  | 38  | 45 | 39 | 34 | 38 | 34 | 30 | 33 | 29 | 26 | 23 |    |    | 23 |
| 6   | 62  | 49  | 41  | 35  | 57  | 46  | 38  | 33  | 40 | 34 | 29 | 34 | 29 | 26 | 29 | 25 | 22 | 19 |    |    | 19 |
| 7   | 57  | 44  | 36  | 30  | 53  | 41  | 34  | 28  | 36 | 30 | 25 | 31 | 26 | 22 | 26 | 22 | 19 | 17 |    |    | 17 |
| 8   | 53  | 40  | 32  | 26  | 49  | 37  | 30  | 25  | 33 | 27 | 22 | 28 | 23 | 20 | 24 | 20 | 17 | 15 |    |    | 15 |
| 9   | 49  | 36  | 28  | 23  | 46  | 34  | 27  | 22  | 30 | 24 | 20 | 26 | 21 | 17 | 22 | 18 | 15 | 13 |    |    | 13 |
| 10  | 46  | 33  | 26  | 21  | 43  | 31  | 24  | 20  | 27 | 22 | 18 | 24 | 19 | 16 | 20 | 16 | 14 | 12 |    |    | 12 |

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

|     | 0°   | 45°   | 90°   |
|-----|------|-------|-------|
| 0°  | 3760 | 3760  | 3760  |
| 5°  | 3672 | 4345  | 5054  |
| 10° | 3330 | 6332  | 8380  |
| 15° | 2829 | 8271  | 10118 |
| 20° | 2302 | 9582  | 10312 |
| 25° | 1919 | 10025 | 10102 |
| 30° | 1618 | 10086 | 10083 |
| 35° | 1430 | 9916  | 10344 |
| 40° | 1246 | 9695  | 10613 |
| 45° | 1127 | 9532  | 10655 |
| 50° | 1032 | 9386  | 10478 |
| 55° | 988  | 9173  | 10014 |
| 60° | 1010 | 8767  | 9280  |
| 65° | 1050 | 8149  | 8273  |
| 70° | 1116 | 7102  | 6989  |
| 75° | 1231 | 5786  | 5454  |
| 80° | 1334 | 4008  | 3675  |
| 85° | 1169 | 2123  | 1882  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 10655 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 78.6   | 1.0       |
| 10°-20°   | 348.5  | 4.3       |
| 20°-30°   | 609.6  | 7.5       |
| 30°-40°   | 784.7  | 9.6       |
| 40°-50°   | 876.5  | 10.7      |
| 50°-60°   | 839.4  | 10.3      |
| 60°-70°   | 665.3  | 8.1       |
| 70°-80°   | 391.2  | 4.8       |
| 80°-90°   | 110.7  | 1.4       |
| 90°-100°  | 260.0  | 3.2       |
| 100°-110° | 683.7  | 8.4       |
| 110°-120° | 708.9  | 8.7       |
| 120°-130° | 568.6  | 7.0       |
| 130°-140° | 446.2  | 5.5       |
| 140°-150° | 342.4  | 4.2       |
| 150°-160° | 246.6  | 3.0       |
| 160°-170° | 150.9  | 1.8       |
| 170°-180° | 51.0   | 0.6       |
| 0°-30°    | 1036.7 | 12.7      |
| 0°-40°    | 1821.4 | 22.3      |
| 0°-60°    | 3537.3 | 43.3      |
| 0°-90°    | 4704.4 | 57.6      |
| 90°-120°  | 1652.6 | 20.2      |
| 90°-150°  | 3009.8 | 36.9      |
| 90°-180°  | 3458.0 | 42.4      |
| 0°-180°   | 8162.8 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|-----|-------|------|-------|------|------|
| 0°   | 608 | 608   | 608  | 608   | 608  |      |
| 5°   | 592 | 635   | 715  | 809   | 838  | 55   |
| 15°  | 444 | 819   | 1380 | 1673  | 1726 | 123  |
| 25°  | 283 | 928   | 1644 | 1716  | 1718 | 131  |
| 35°  | 192 | 887   | 1548 | 1636  | 1700 | 120  |
| 45°  | 131 | 708   | 1368 | 1568  | 1638 | 101  |
| 55°  | 94  | 450   | 1161 | 1349  | 1386 | 85   |
| 65°  | 74  | 238   | 862  | 969   | 983  | 74   |
| 75°  | 55  | 147   | 473  | 520   | 522  | 57   |
| 85°  | 20  | 45    | 117  | 129   | 131  | 21   |
| 90°  | 4   | 10    | 27   | 14    | 14   | 4    |
| 95°  | 34  | 135   | 448  | 231   | 157  | 38   |
| 105° | 123 | 187   | 756  | 1148  | 1070 | 131  |
| 115° | 219 | 266   | 606  | 1208  | 1378 | 216  |
| 125° | 304 | 341   | 551  | 930   | 1098 | 270  |
| 135° | 363 | 399   | 534  | 751   | 852  | 281  |
| 145° | 421 | 448   | 527  | 641   | 691  | 264  |
| 155° | 476 | 489   | 527  | 578   | 595  | 218  |
| 165° | 513 | 520   | 527  | 548   | 554  | 145  |
| 175° | 534 | 534   | 530  | 537   | 537  | 51   |
| 180° | 534 | 534   | 534  | 534   | 534  |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 10°   | 20°   | 22.5° | 30°    | 40°    | 45°    | 50°    | 60°    | 67.5°  | 70°    |
|--------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 607.8 | 607.8 | 607.8 | 607.8 | 607.8  | 607.8  | 607.8  | 607.8  | 607.8  | 607.8  | 607.8  |
| 2.5°   | 607.8 | 607.8 | 611.8 | 613.7 | 617.6  | 619.6  | 623.5  | 627.4  | 639.1  | 641.1  | 645.0  |
| 5°     | 592.2 | 600.1 | 625.5 | 635.2 | 662.6  | 699.7  | 715.3  | 740.7  | 793.6  | 809.2  | 819.0  |
| 7.5°   | 568.8 | 586.4 | 648.9 | 664.5 | 733.0  | 830.7  | 871.7  | 926.5  | 1010.5 | 1051.5 | 1084.8 |
| 10°    | 531.6 | 568.8 | 680.1 | 717.3 | 828.8  | 977.3  | 1053.5 | 1129.7 | 1256.8 | 1313.5 | 1334.9 |
| 12.5°  | 490.6 | 551.2 | 713.4 | 764.2 | 924.5  | 1141.4 | 1233.3 | 1317.3 | 1462.0 | 1538.2 | 1549.9 |
| 15°    | 443.7 | 525.8 | 744.7 | 819.0 | 1026.1 | 1278.3 | 1379.9 | 1483.5 | 1618.4 | 1673.1 | 1686.8 |
| 17.5°  | 402.6 | 506.2 | 774.0 | 852.2 | 1104.3 | 1401.4 | 1505.0 | 1591.0 | 1700.5 | 1737.6 | 1747.4 |
| 20°    | 351.8 | 474.9 | 793.6 | 895.2 | 1186.4 | 1491.3 | 1591.0 | 1657.4 | 1731.7 | 1755.1 | 1759.1 |
| 22.5°  | 314.7 | 441.7 | 805.3 | 910.8 | 1241.2 | 1546.0 | 1630.1 | 1682.8 | 1733.7 | 1741.5 | 1743.4 |
| 25°    | 283.4 | 404.6 | 803.3 | 928.4 | 1288.1 | 1579.3 | 1643.8 | 1682.8 | 1712.2 | 1716.1 | 1716.1 |
| 27.5°  | 254.1 | 363.5 | 795.5 | 932.3 | 1323.2 | 1587.0 | 1637.9 | 1665.3 | 1678.9 | 1686.8 | 1686.8 |
| 30°    | 228.7 | 324.5 | 775.9 | 924.5 | 1338.9 | 1579.3 | 1620.3 | 1634.0 | 1647.6 | 1659.4 | 1665.3 |
| 32.5°  | 209.1 | 287.3 | 746.6 | 908.8 | 1340.8 | 1559.7 | 1589.0 | 1596.8 | 1616.4 | 1643.8 | 1653.5 |
| 35°    | 191.6 | 250.2 | 713.4 | 887.3 | 1329.1 | 1528.4 | 1548.0 | 1555.8 | 1594.9 | 1635.9 | 1649.6 |
| 37.5°  | 173.9 | 222.8 | 670.4 | 850.2 | 1311.5 | 1491.3 | 1505.0 | 1518.7 | 1579.3 | 1628.1 | 1643.8 |
| 40°    | 156.4 | 199.4 | 619.6 | 809.2 | 1284.1 | 1446.4 | 1458.1 | 1479.6 | 1559.7 | 1616.4 | 1632.0 |
| 42.5°  | 142.7 | 179.8 | 564.9 | 766.2 | 1248.9 | 1395.5 | 1413.1 | 1444.4 | 1536.2 | 1596.8 | 1614.5 |
| 45°    | 131.0 | 160.2 | 506.2 | 707.6 | 1204.0 | 1342.7 | 1368.1 | 1411.2 | 1508.9 | 1567.6 | 1583.2 |
| 47.5°  | 119.2 | 146.6 | 445.6 | 647.0 | 1155.2 | 1290.0 | 1323.2 | 1372.1 | 1471.8 | 1528.4 | 1542.2 |
| 50°    | 109.4 | 132.9 | 385.1 | 582.4 | 1102.3 | 1233.3 | 1272.4 | 1323.2 | 1424.9 | 1477.6 | 1495.2 |
| 52.5°  | 101.6 | 121.2 | 328.3 | 518.0 | 1041.7 | 1174.6 | 1219.6 | 1272.4 | 1368.1 | 1419.0 | 1430.7 |
| 55°    | 93.8  | 111.4 | 279.5 | 449.5 | 979.2  | 1112.1 | 1161.0 | 1211.8 | 1305.6 | 1348.7 | 1356.4 |
| 57.5°  | 89.9  | 103.6 | 238.5 | 385.1 | 912.8  | 1041.7 | 1096.5 | 1143.4 | 1231.4 | 1264.6 | 1272.4 |
| 60°    | 84.0  | 97.7  | 207.2 | 330.3 | 840.5  | 975.3  | 1022.3 | 1069.1 | 1143.4 | 1170.8 | 1176.6 |
| 62.5°  | 78.2  | 93.8  | 183.7 | 277.5 | 766.2  | 897.1  | 944.0  | 987.1  | 1049.6 | 1069.1 | 1076.9 |
| 65°    | 74.3  | 89.9  | 166.2 | 238.5 | 689.9  | 815.0  | 861.9  | 899.1  | 949.9  | 969.4  | 973.4  |
| 67.5°  | 70.4  | 86.0  | 152.5 | 205.2 | 613.7  | 733.0  | 768.2  | 803.3  | 842.4  | 861.9  | 863.9  |
| 70°    | 64.5  | 82.1  | 140.8 | 181.8 | 535.5  | 639.1  | 668.4  | 705.6  | 736.9  | 746.6  | 752.5  |
| 72.5°  | 60.6  | 76.2  | 132.9 | 164.2 | 455.4  | 549.2  | 576.6  | 598.1  | 625.5  | 635.2  | 635.2  |
| 75°    | 54.7  | 68.4  | 125.1 | 146.6 | 373.3  | 449.5  | 473.0  | 494.5  | 516.0  | 519.9  | 514.1  |
| 77.5°  | 48.9  | 60.6  | 107.5 | 123.1 | 291.2  | 355.7  | 375.3  | 387.0  | 404.6  | 408.5  | 410.5  |
| 80°    | 41.0  | 52.7  | 84.0  | 95.8  | 211.1  | 261.9  | 275.6  | 285.4  | 301.0  | 301.0  | 304.9  |
| 82.5°  | 31.3  | 41.0  | 60.6  | 68.4  | 142.7  | 179.8  | 191.6  | 197.4  | 207.2  | 207.2  | 207.2  |
| 85°    | 19.6  | 25.4  | 39.1  | 45.0  | 86.0   | 109.4  | 117.3  | 119.2  | 127.0  | 129.0  | 129.0  |
| 87.5°  | 9.8   | 13.7  | 25.4  | 27.3  | 45.0   | 56.7   | 56.7   | 60.6   | 60.6   | 58.7   | 56.7   |
| 90°    | 3.5   | 6.4   | 9.3   | 10.0  | 15.7   | 23.3   | 27.2   | 24.2   | 18.2   | 13.6   | 13.6   |
| 92.5°  | 14.3  | 38.7  | 63.0  | 69.1  | 97.1   | 134.5  | 153.2  | 134.3  | 96.4   | 68.0   | 65.3   |
| 95°    | 34.3  | 78.9  | 123.4 | 134.6 | 239.0  | 378.3  | 447.9  | 399.7  | 303.2  | 230.9  | 222.8  |
| 97.5°  | 59.4  | 98.7  | 138.0 | 147.8 | 322.0  | 554.2  | 670.3  | 639.8  | 578.9  | 533.1  | 517.5  |
| 100°   | 78.8  | 114.4 | 150.1 | 159.0 | 352.2  | 609.8  | 738.7  | 740.9  | 745.4  | 748.7  | 730.1  |
| 102.5° | 95.2  | 128.5 | 161.8 | 170.1 | 366.1  | 627.3  | 758.0  | 796.8  | 874.5  | 932.7  | 916.8  |
| 105°   | 123.2 | 151.4 | 179.6 | 186.6 | 376.3  | 629.3  | 755.8  | 842.8  | 1016.9 | 1147.5 | 1139.0 |
| 107.5° | 151.8 | 178.1 | 204.4 | 210.9 | 378.2  | 601.3  | 712.9  | 834.3  | 1077.2 | 1259.3 | 1261.3 |
| 110°   | 171.2 | 194.9 | 218.5 | 224.5 | 375.3  | 576.5  | 677.1  | 812.8  | 1084.3 | 1287.9 | 1296.8 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 10°   | 20°   | 22.5° | 30°   | 40°   | 45°   | 50°   | 60°    | 67.5°  | 70°    |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|
| 112.5° | 190.1 | 212.7 | 235.3 | 240.9 | 375.5 | 554.8 | 644.5 | 783.4 | 1061.2 | 1269.6 | 1283.3 |
| 115°   | 218.8 | 239.6 | 260.4 | 265.7 | 378.9 | 529.9 | 605.5 | 739.3 | 1006.9 | 1207.7 | 1226.6 |
| 117.5° | 247.0 | 266.0 | 284.9 | 289.7 | 386.0 | 514.4 | 578.6 | 699.4 | 940.9  | 1122.1 | 1143.1 |
| 120°   | 263.5 | 281.4 | 299.1 | 303.6 | 391.7 | 509.1 | 567.9 | 678.2 | 898.9  | 1064.4 | 1084.9 |
| 122.5° | 279.7 | 297.6 | 315.6 | 320.1 | 399.9 | 506.4 | 559.6 | 659.0 | 857.7  | 1006.8 | 1026.9 |
| 125°   | 304.3 | 320.7 | 337.1 | 341.2 | 411.0 | 504.1 | 550.7 | 635.1 | 804.0  | 930.5  | 949.1  |
| 127.5° | 324.4 | 341.0 | 357.4 | 361.6 | 422.1 | 502.8 | 543.2 | 615.6 | 760.6  | 869.3  | 885.0  |
| 130°   | 335.1 | 353.0 | 370.8 | 375.2 | 430.3 | 503.7 | 540.3 | 604.8 | 733.9  | 830.7  | 845.2  |
| 132.5° | 346.2 | 364.1 | 381.8 | 386.3 | 436.8 | 504.1 | 537.8 | 595.5 | 711.1  | 797.7  | 810.7  |
| 135°   | 362.7 | 378.9 | 395.2 | 399.2 | 444.0 | 503.7 | 533.5 | 581.8 | 678.6  | 751.1  | 762.3  |
| 137.5° | 379.5 | 395.5 | 411.6 | 415.6 | 454.7 | 506.7 | 532.8 | 573.6 | 655.4  | 716.8  | 726.0  |
| 140°   | 393.5 | 408.3 | 423.1 | 426.8 | 461.3 | 507.3 | 530.2 | 565.6 | 636.3  | 689.2  | 697.8  |
| 142.5° | 404.2 | 418.0 | 431.7 | 435.0 | 466.8 | 509.0 | 530.2 | 561.3 | 623.3  | 669.9  | 677.3  |
| 145°   | 420.7 | 432.7 | 444.5 | 447.5 | 473.9 | 509.1 | 526.7 | 552.1 | 602.8  | 640.9  | 646.4  |
| 147.5° | 437.1 | 448.8 | 460.4 | 463.3 | 484.4 | 512.6 | 526.7 | 546.6 | 586.6  | 616.5  | 621.2  |
| 150°   | 447.9 | 458.4 | 468.9 | 471.5 | 490.0 | 514.4 | 526.7 | 543.5 | 577.3  | 602.6  | 606.4  |
| 152.5° | 459.0 | 467.0 | 474.9 | 476.9 | 493.5 | 515.6 | 526.7 | 541.1 | 569.9  | 591.5  | 594.4  |
| 155°   | 475.5 | 481.3 | 487.3 | 488.7 | 501.3 | 518.2 | 526.7 | 538.2 | 561.1  | 578.3  | 580.1  |
| 157.5° | 487.6 | 493.4 | 499.1 | 500.6 | 509.3 | 520.9 | 526.7 | 535.6 | 553.4  | 566.8  | 568.1  |
| 160°   | 495.9 | 500.3 | 504.8 | 505.9 | 512.8 | 522.1 | 526.7 | 534.3 | 549.5  | 561.0  | 561.8  |
| 162.5° | 504.1 | 507.5 | 510.8 | 511.7 | 516.7 | 523.4 | 526.7 | 533.1 | 546.0  | 555.7  | 556.4  |
| 165°   | 513.1 | 516.1 | 519.1 | 519.9 | 522.1 | 525.1 | 526.7 | 531.3 | 540.5  | 547.5  | 548.2  |
| 167.5° | 521.3 | 522.8 | 524.1 | 524.5 | 526.4 | 529.0 | 530.2 | 533.2 | 539.3  | 543.9  | 544.2  |
| 170°   | 526.7 | 528.1 | 529.5 | 529.9 | 530.0 | 530.1 | 530.2 | 533.2 | 539.3  | 543.9  | 543.9  |
| 172.5° | 529.5 | 529.8 | 530.1 | 530.2 | 530.2 | 530.2 | 530.2 | 532.6 | 537.4  | 541.0  | 540.7  |
| 175°   | 533.5 | 533.5 | 533.5 | 533.5 | 532.4 | 530.9 | 530.2 | 531.8 | 534.8  | 537.1  | 537.1  |
| 177.5° | 533.5 | 533.5 | 533.5 | 533.5 | 532.6 | 531.5 | 531.0 | 532.2 | 534.6  | 536.4  | 536.1  |
| 180°   | 533.5 | 533.5 | 533.5 | 533.5 | 533.5 | 533.5 | 533.5 | 533.5 | 533.5  | 533.5  | 533.5  |



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**CANDELA DISTRIBUTION (continued):**

|        | 80°    | 90°    |
|--------|--------|--------|
| 0°     | 607.8  | 607.8  |
| 2.5°   | 648.9  | 645.0  |
| 5°     | 834.6  | 838.5  |
| 7.5°   | 1123.9 | 1121.9 |
| 10°    | 1397.5 | 1415.1 |
| 12.5°  | 1596.8 | 1600.8 |
| 15°    | 1718.0 | 1725.9 |
| 17.5°  | 1764.9 | 1766.9 |
| 20°    | 1766.9 | 1763.0 |
| 22.5°  | 1745.4 | 1741.5 |
| 25°    | 1719.9 | 1718.0 |
| 27.5°  | 1696.5 | 1698.5 |
| 30°    | 1686.8 | 1692.6 |
| 32.5°  | 1686.8 | 1696.5 |
| 35°    | 1690.7 | 1700.5 |
| 37.5°  | 1688.7 | 1700.5 |
| 40°    | 1680.9 | 1694.5 |
| 42.5°  | 1659.4 | 1669.2 |
| 45°    | 1626.2 | 1637.9 |
| 47.5°  | 1583.2 | 1591.0 |
| 50°    | 1528.4 | 1536.2 |
| 52.5°  | 1460.0 | 1462.0 |
| 55°    | 1377.9 | 1385.8 |
| 57.5°  | 1290.0 | 1291.9 |
| 60°    | 1192.3 | 1198.1 |
| 62.5°  | 1088.7 | 1088.7 |
| 65°    | 979.2  | 983.1  |
| 67.5°  | 865.9  | 875.6  |
| 70°    | 750.5  | 752.5  |
| 72.5°  | 637.2  | 637.2  |
| 75°    | 519.9  | 521.8  |
| 77.5°  | 408.5  | 408.5  |
| 80°    | 302.9  | 304.9  |
| 82.5°  | 209.1  | 213.1  |
| 85°    | 131.0  | 131.0  |
| 87.5°  | 60.6   | 54.7   |
| 90°    | 13.6   | 13.6   |
| 92.5°  | 54.4   | 43.7   |
| 95°    | 190.0  | 157.2  |
| 97.5°  | 455.1  | 392.8  |
| 100°   | 655.7  | 581.4  |
| 102.5° | 853.2  | 789.5  |
| 105°   | 1104.7 | 1070.5 |
| 107.5° | 1269.6 | 1277.8 |
| 110°   | 1332.4 | 1368.1 |





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**CANDELA DISTRIBUTION (continued):**

|        | 80°    | 90°    |
|--------|--------|--------|
| 112.5° | 1338.0 | 1392.8 |
| 115°   | 1302.5 | 1378.5 |
| 117.5° | 1227.3 | 1311.5 |
| 120°   | 1166.7 | 1248.5 |
| 122.5° | 1107.6 | 1188.3 |
| 125°   | 1023.5 | 1097.8 |
| 127.5° | 947.7  | 1010.4 |
| 130°   | 903.1  | 961.0  |
| 132.5° | 862.6  | 914.5  |
| 135°   | 807.0  | 851.8  |
| 137.5° | 762.5  | 799.2  |
| 140°   | 732.0  | 766.2  |
| 142.5° | 706.7  | 736.1  |
| 145°   | 668.7  | 691.0  |
| 147.5° | 639.6  | 658.0  |
| 150°   | 621.3  | 636.3  |
| 152.5° | 605.6  | 616.9  |
| 155°   | 587.6  | 595.1  |
| 157.5° | 573.3  | 578.6  |
| 160°   | 564.8  | 567.9  |
| 162.5° | 559.3  | 562.1  |
| 165°   | 551.2  | 554.2  |
| 167.5° | 545.5  | 546.7  |
| 170°   | 543.9  | 543.9  |
| 172.5° | 539.6  | 538.5  |
| 175°   | 537.1  | 537.1  |
| 177.5° | 534.8  | 533.5  |
| 180°   | 533.5  | 533.5  |



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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 | 6.27             | 7.25  | 7.15  | 8.16  | 9.31  | 19.43          | 20.41 | 20.31 | 21.32 | 22.48 |
|                 | 3H   | 6.98             | 7.87  | 7.88  | 8.78  | 9.96  | 21.28          | 22.16 | 22.17 | 23.08 | 24.26 |
|                 | 4H   | 7.29             | 8.12  | 8.20  | 9.05  | 10.23 | 21.92          | 22.76 | 22.83 | 23.68 | 24.87 |
|                 | 6H   | 7.55             | 8.32  | 8.46  | 9.24  | 10.45 | 22.36          | 23.13 | 23.28 | 24.06 | 25.26 |
|                 | 8H   | 7.62             | 8.35  | 8.54  | 9.30  | 10.50 | 22.48          | 23.22 | 23.41 | 24.16 | 25.36 |
|                 | 12H  | 7.64             | 8.34  | 8.57  | 9.28  | 10.51 | 22.55          | 23.25 | 23.48 | 24.19 | 25.42 |
| 4H              | 2H   | 13.49            | 14.33 | 14.40 | 15.25 | 16.44 | 19.72          | 20.56 | 20.64 | 21.48 | 22.67 |
|                 | 3H   | 15.07            | 15.77 | 15.99 | 16.72 | 17.93 | 21.77          | 22.48 | 22.70 | 23.43 | 24.63 |
|                 | 4H   | 15.17            | 15.81 | 16.10 | 16.76 | 17.99 | 22.54          | 23.18 | 23.48 | 24.13 | 25.36 |
|                 | 6H   | 15.19            | 15.74 | 16.14 | 16.71 | 17.94 | 23.09          | 23.64 | 24.03 | 24.61 | 25.84 |
|                 | 8H   | 15.17            | 15.69 | 16.12 | 16.65 | 17.89 | 23.25          | 23.77 | 24.20 | 24.73 | 25.98 |
|                 | 12H  | 15.13            | 15.60 | 16.10 | 16.58 | 17.83 | 23.35          | 23.81 | 24.32 | 24.80 | 26.05 |
| 8H              | 4H   | 16.62            | 17.14 | 17.57 | 18.10 | 19.35 | 22.61          | 23.13 | 23.57 | 24.10 | 25.34 |
|                 | 6H   | 16.87            | 17.30 | 17.85 | 18.31 | 19.55 | 23.25          | 23.68 | 24.22 | 24.68 | 25.92 |
|                 | 8H   | 16.89            | 17.27 | 17.88 | 18.26 | 19.52 | 23.46          | 23.84 | 24.45 | 24.84 | 26.10 |
|                 | 12H  | 16.86            | 17.20 | 17.85 | 18.19 | 19.49 | 23.61          | 23.95 | 24.60 | 24.94 | 26.24 |
| 12H             | 4H   | 16.77            | 17.24 | 17.74 | 18.22 | 19.47 | 22.57          | 23.04 | 23.54 | 24.02 | 25.27 |
|                 | 6H   | 17.13            | 17.51 | 18.11 | 18.50 | 19.76 | 23.23          | 23.61 | 24.22 | 24.61 | 25.87 |
|                 | 8H   | 17.20            | 17.54 | 18.19 | 18.53 | 19.83 | 23.46          | 23.80 | 24.45 | 24.79 | 26.09 |