

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: P853755

Luminaire Tested: SQ2-FA-050U-075D-930-UNV-STD-W-4

Issue Date: 7/12/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P853755  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2104-222-10, G2-2308-131-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/12/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ2-FA-050U-075D-930-UNV-STD-W-4  
Description: CORELITE SQ2 SUSPENDED LED LUMINAIRE  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: -  
Ballast/Driver: -

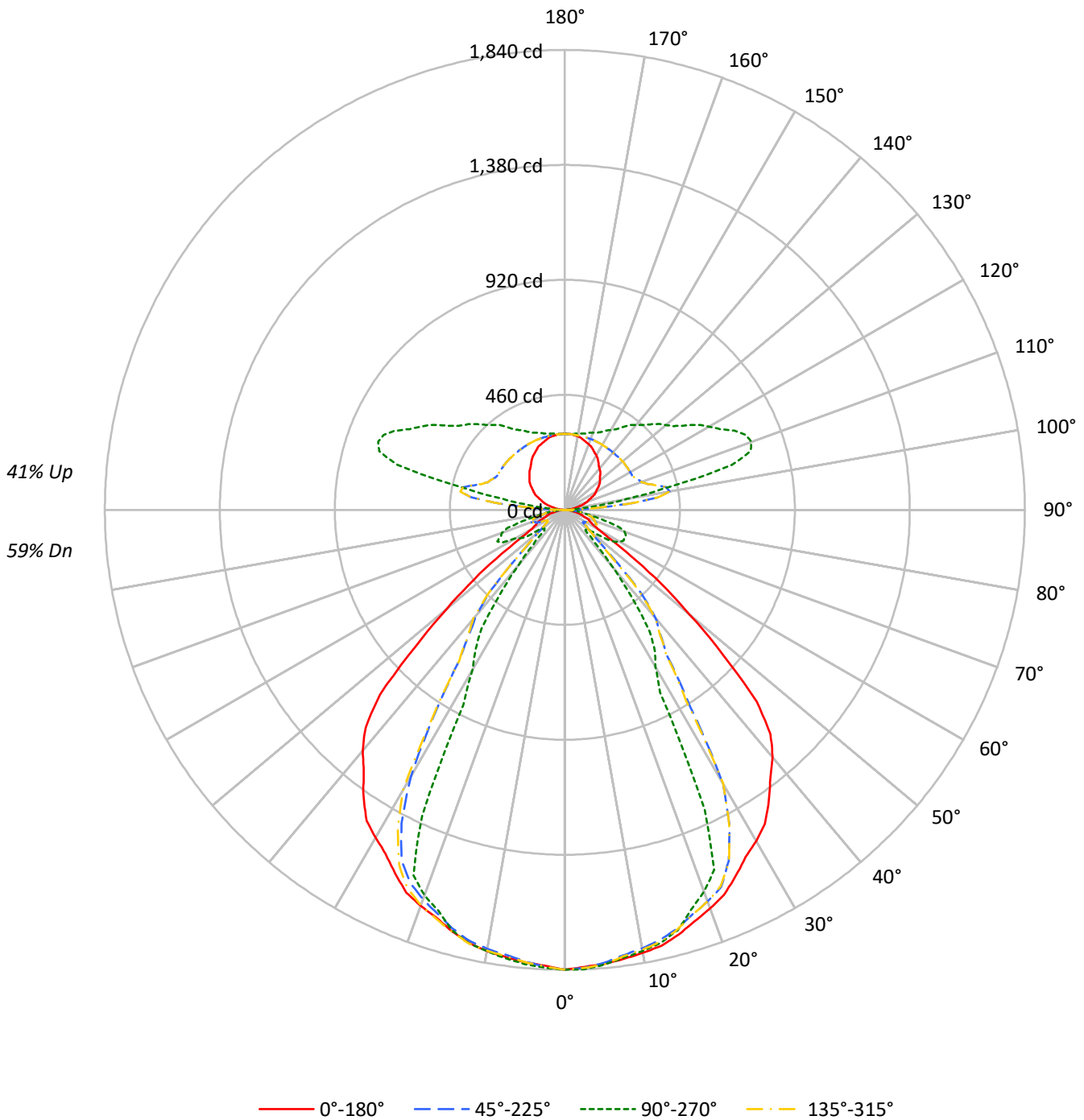
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4577.7 lumens  
Efficiency: N/A  
Efficacy: 110.3 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): 41.5  
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: P853755

CATALOG NUMBER: SQ2-FA-050U-075D-930-UNV-STD-W-4

### Luminous Intensity Polar Plot





TEST NUMBER: P853755

CATALOG NUMBER: SQ2-FA-050U-075D-930-UNV-STD-W-4

**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 | 102 | 102 | 102 | 102 | 88 | 88 | 88 | 76 | 76 | 76 | 64 | 64 | 64 | 59 |    |    |    |   |
| 1   | 101 | 97  | 94  | 90  | 94  | 91  | 88  | 85  | 79 | 77 | 75 | 68 | 67 | 65 | 59 | 58 | 57 | 52 |    |    |    |   |
| 2   | 93  | 87  | 81  | 76  | 87  | 81  | 76  | 72  | 71 | 68 | 65 | 62 | 59 | 57 | 53 | 52 | 50 | 46 |    |    |    |   |
| 3   | 86  | 78  | 71  | 66  | 80  | 73  | 67  | 63  | 64 | 60 | 56 | 56 | 53 | 50 | 49 | 47 | 45 | 41 |    |    |    |   |
| 4   | 80  | 70  | 63  | 57  | 75  | 66  | 60  | 55  | 59 | 54 | 50 | 52 | 48 | 45 | 45 | 42 | 40 | 37 |    |    |    |   |
| 5   | 74  | 64  | 56  | 51  | 69  | 60  | 53  | 49  | 54 | 48 | 44 | 47 | 43 | 40 | 42 | 39 | 36 | 33 |    |    |    |   |
| 6   | 69  | 58  | 51  | 45  | 65  | 55  | 48  | 43  | 49 | 44 | 40 | 44 | 40 | 36 | 39 | 36 | 33 | 30 |    |    |    |   |
| 7   | 64  | 53  | 46  | 41  | 60  | 50  | 44  | 39  | 45 | 40 | 36 | 40 | 36 | 33 | 36 | 33 | 30 | 28 |    |    |    |   |
| 8   | 60  | 49  | 42  | 37  | 57  | 47  | 40  | 36  | 42 | 37 | 33 | 38 | 33 | 30 | 34 | 30 | 28 | 26 |    |    |    |   |
| 9   | 57  | 45  | 38  | 34  | 53  | 43  | 37  | 32  | 39 | 34 | 30 | 35 | 31 | 28 | 31 | 28 | 26 | 24 |    |    |    |   |
| 10  | 53  | 42  | 35  | 31  | 50  | 40  | 34  | 30  | 36 | 31 | 28 | 33 | 29 | 26 | 30 | 26 | 24 | 22 |    |    |    |   |

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

|     | 0°    | 90°   | 180°  | 270°  |
|-----|-------|-------|-------|-------|
| 0°  | 29705 | 29705 | 29705 | 29705 |
| 5°  | 29548 | 29593 | 29436 | 29571 |
| 10° | 29503 | 29390 | 29390 | 29390 |
| 15° | 29407 | 29107 | 29175 | 29107 |
| 20° | 29180 | 27940 | 28965 | 28203 |
| 25° | 28796 | 23580 | 28598 | 24075 |
| 30° | 28532 | 13528 | 28221 | 13711 |
| 35° | 28032 | 11623 | 27675 | 11458 |
| 40° | 27255 | 6112  | 26494 | 6053  |
| 45° | 24775 | 2630  | 23889 | 2630  |
| 50° | 16345 | 3172  | 15508 | 2961  |
| 55° | 9140  | 5858  | 8670  | 5312  |
| 60° | 4928  | 8244  | 4837  | 7392  |
| 65° | 4348  | 10017 | 4558  | 11396 |
| 70° | 4060  | 11986 | 3866  | 12642 |
| 75° | 3805  | 10299 | 3893  | 10649 |
| 80° | 3226  | 7355  | 3226  | 7736  |
| 85° | 2834  | 4113  | 2575  | 4891  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 24775 cd/sqm



TEST NUMBER: P853755

CATALOG NUMBER: SQ2-FA-050U-075D-930-UNV-STD-W-4

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 173.1  | 3.8       |
| 10°-20°   | 491.2  | 10.7      |
| 20°-30°   | 669.7  | 14.6      |
| 30°-40°   | 562.8  | 12.3      |
| 40°-50°   | 319.7  | 7.0       |
| 50°-60°   | 169.6  | 3.7       |
| 60°-70°   | 156.2  | 3.4       |
| 70°-80°   | 114.6  | 2.5       |
| 80°-90°   | 30.3   | 0.7       |
| 90°-100°  | 121.3  | 2.6       |
| 100°-110° | 384.6  | 8.4       |
| 110°-120° | 377.1  | 8.2       |
| 120°-130° | 306.9  | 6.7       |
| 130°-140° | 250.2  | 5.5       |
| 140°-150° | 195.1  | 4.3       |
| 150°-160° | 140.6  | 3.1       |
| 160°-170° | 85.9   | 1.9       |
| 170°-180° | 29.0   | 0.6       |
| 0°-30°    | 1334.0 | 29.1      |
| 0°-40°    | 1896.8 | 41.4      |
| 0°-60°    | 2386.1 | 52.1      |
| 0°-90°    | 2687.2 | 58.7      |
| 90°-120°  | 883.0  | 19.3      |
| 90°-150°  | 1635.1 | 35.7      |
| 90°-180°  | 1891.0 | 41.3      |
| 0°-180°   | 4577.7 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 90°  | 180° | 270° | 360° | Flux |
|------|------|------|------|------|------|------|
| 0°   | 1840 | 1840 | 1840 | 1840 | 1840 |      |
| 5°   | 1823 | 1826 | 1816 | 1824 | 1823 | 173  |
| 15°  | 1759 | 1741 | 1745 | 1741 | 1759 | 496  |
| 25°  | 1616 | 1324 | 1605 | 1351 | 1616 | 745  |
| 35°  | 1422 | 590  | 1404 | 581  | 1422 | 888  |
| 45°  | 1085 | 115  | 1046 | 115  | 1085 | 793  |
| 55°  | 325  | 208  | 308  | 189  | 325  | 313  |
| 65°  | 114  | 262  | 119  | 298  | 114  | 114  |
| 75°  | 61   | 165  | 62   | 171  | 61   | 63   |
| 85°  | 15   | 22   | 14   | 26   | 15   | 17   |
| 90°  | 0    | 3    | 0    | 3    | 0    | 1    |
| 95°  | 16   | 53   | 16   | 53   | 16   | 19   |
| 105° | 67   | 692  | 67   | 692  | 67   | 71   |
| 115° | 120  | 749  | 120  | 749  | 120  | 118  |
| 125° | 166  | 588  | 166  | 588  | 166  | 147  |
| 135° | 200  | 483  | 200  | 483  | 200  | 154  |
| 145° | 234  | 403  | 234  | 403  | 234  | 146  |
| 155° | 266  | 344  | 266  | 344  | 266  | 123  |
| 165° | 290  | 316  | 290  | 316  | 290  | 82   |
| 175° | 304  | 304  | 304  | 304  | 304  | 29   |
| 180° | 304  | 304  | 304  | 304  | 304  |      |



TEST NUMBER: P853755

CATALOG NUMBER: SQ2-FA-050U-075D-930-UNV-STD-W-4

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    | 112.5° | 135°   | 157.5° | 180°   | 202.5° | 225°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1839.8 | 1839.8 | 1839.8 | 1839.8 | 1839.8 | 1839.8 | 1839.8 | 1839.8 | 1839.8 | 1839.8 | 1839.8 |
| 2.5°   | 1829.8 | 1856.9 | 1833.1 | 1830.0 | 1839.8 | 1837.6 | 1834.2 | 1847.1 | 1825.4 | 1847.1 | 1829.8 |
| 5°     | 1823.1 | 1854.3 | 1819.0 | 1809.6 | 1825.9 | 1815.1 | 1824.5 | 1843.3 | 1816.2 | 1840.6 | 1813.4 |
| 7.5°   | 1811.8 | 1839.4 | 1797.0 | 1791.0 | 1807.0 | 1797.5 | 1801.5 | 1827.6 | 1804.8 | 1820.8 | 1796.2 |
| 10°    | 1799.5 | 1824.0 | 1781.5 | 1777.7 | 1792.6 | 1783.1 | 1787.1 | 1814.3 | 1792.6 | 1807.5 | 1782.9 |
| 12.5°  | 1786.2 | 1805.2 | 1762.6 | 1761.0 | 1773.7 | 1767.5 | 1769.3 | 1792.2 | 1774.8 | 1789.8 | 1766.2 |
| 15°    | 1759.3 | 1776.9 | 1734.3 | 1727.7 | 1741.3 | 1735.8 | 1738.5 | 1759.0 | 1745.4 | 1754.9 | 1734.3 |
| 17.5°  | 1726.0 | 1740.1 | 1697.7 | 1677.7 | 1678.3 | 1685.1 | 1697.7 | 1722.4 | 1710.2 | 1722.7 | 1693.5 |
| 20°    | 1698.3 | 1714.5 | 1667.7 | 1628.8 | 1626.1 | 1632.9 | 1667.7 | 1692.6 | 1685.8 | 1699.3 | 1658.0 |
| 22.5°  | 1666.1 | 1676.9 | 1634.4 | 1568.7 | 1559.5 | 1566.3 | 1630.0 | 1659.4 | 1656.9 | 1666.1 | 1614.7 |
| 25°    | 1616.4 | 1627.3 | 1549.8 | 1455.2 | 1323.6 | 1447.1 | 1552.6 | 1605.3 | 1605.3 | 1613.4 | 1545.6 |
| 27.5°  | 1565.9 | 1566.2 | 1426.0 | 934.6  | 824.4  | 900.9  | 1424.1 | 1538.4 | 1551.5 | 1547.4 | 1414.1 |
| 30°    | 1530.4 | 1520.9 | 1264.0 | 755.5  | 725.6  | 744.6  | 1265.4 | 1492.0 | 1513.7 | 1498.8 | 1232.1 |
| 32.5°  | 1489.3 | 1462.4 | 933.2  | 694.6  | 670.1  | 687.0  | 902.4  | 1436.9 | 1474.9 | 1442.6 | 969.0  |
| 35°    | 1422.2 | 1351.6 | 711.8  | 614.1  | 589.7  | 611.4  | 706.2  | 1328.1 | 1404.1 | 1317.3 | 735.4  |
| 37.5°  | 1349.7 | 1074.3 | 626.6  | 489.1  | 436.5  | 478.6  | 623.5  | 1062.8 | 1320.3 | 1038.1 | 626.0  |
| 40°    | 1293.1 | 844.1  | 563.3  | 357.8  | 290.0  | 337.5  | 559.1  | 805.3  | 1257.0 | 866.3  | 549.4  |
| 42.5°  | 1217.6 | 741.5  | 452.3  | 227.3  | 177.9  | 208.0  | 433.7  | 724.3  | 1179.3 | 750.7  | 437.3  |
| 45°    | 1085.0 | 637.3  | 267.8  | 124.7  | 115.2  | 120.6  | 247.0  | 625.6  | 1046.2 | 612.0  | 273.3  |
| 47.5°  | 859.4  | 486.1  | 172.0  | 106.0  | 116.3  | 106.0  | 166.8  | 470.6  | 811.7  | 469.8  | 171.8  |
| 50°    | 650.7  | 379.4  | 133.2  | 107.3  | 126.3  | 107.3  | 129.0  | 366.4  | 617.4  | 400.4  | 131.8  |
| 52.5°  | 482.0  | 317.0  | 108.8  | 117.6  | 151.8  | 119.8  | 105.7  | 308.6  | 457.6  | 323.0  | 103.0  |
| 55°    | 324.7  | 248.7  | 87.4   | 155.2  | 208.1  | 159.3  | 87.4   | 241.5  | 308.0  | 238.8  | 84.6   |
| 57.5°  | 205.9  | 185.0  | 88.5   | 199.5  | 237.5  | 203.3  | 89.9   | 178.3  | 197.6  | 179.1  | 77.7   |
| 60°    | 152.6  | 145.8  | 98.5   | 211.9  | 255.3  | 214.6  | 99.9   | 140.4  | 149.8  | 139.0  | 83.2   |
| 62.5°  | 126.0  | 114.9  | 118.5  | 229.5  | 265.3  | 223.5  | 121.0  | 109.5  | 131.0  | 104.9  | 92.1   |
| 65°    | 113.8  | 74.4   | 140.1  | 232.4  | 262.2  | 232.4  | 141.5  | 70.5   | 119.3  | 75.9   | 124.9  |
| 67.5°  | 102.7  | 55.2   | 135.4  | 230.8  | 263.9  | 231.3  | 132.1  | 52.7   | 98.5   | 51.3   | 127.6  |
| 70°    | 86.0   | 49.4   | 127.6  | 234.9  | 253.9  | 226.8  | 127.6  | 47.9   | 81.9   | 46.6   | 149.8  |
| 72.5°  | 71.6   | 46.9   | 118.8  | 216.9  | 225.0  | 208.8  | 119.9  | 46.6   | 71.9   | 42.0   | 141.0  |
| 75°    | 61.0   | 46.1   | 113.8  | 173.2  | 165.1  | 165.1  | 111.0  | 44.8   | 62.4   | 42.1   | 109.6  |
| 77.5°  | 45.8   | 40.9   | 94.3   | 113.1  | 106.8  | 106.8  | 92.7   | 39.5   | 43.6   | 37.1   | 89.1   |
| 80°    | 34.7   | 37.4   | 77.7   | 83.2   | 79.1   | 79.1   | 74.9   | 36.0   | 34.7   | 34.7   | 73.5   |
| 82.5°  | 26.9   | 31.8   | 59.9   | 61.0   | 58.0   | 56.9   | 58.3   | 31.5   | 26.9   | 29.1   | 56.9   |
| 85°    | 15.3   | 22.0   | 31.9   | 26.3   | 22.2   | 20.8   | 30.5   | 20.7   | 13.9   | 20.7   | 30.5   |
| 87.5°  | 5.5    | 10.1   | 5.0    | 5.0    | 5.0    | 5.0    | 5.0    | 10.1   | 5.5    | 9.0    | 6.1    |
| 90°    | 0.0    | 0.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 0.9    | 0.0    | 0.9    | 2.9    |
| 92.5°  | 5.4    | 21.3   | 68.0   | 22.6   | 15.9   | 22.6   | 68.0   | 21.3   | 5.4    | 21.3   | 68.0   |
| 95°    | 16.3   | 49.0   | 220.2  | 81.7   | 52.7   | 81.7   | 220.2  | 49.0   | 16.3   | 49.0   | 220.2  |
| 97.5°  | 30.3   | 63.6   | 373.0  | 233.1  | 143.0  | 233.1  | 373.0  | 63.6   | 30.3   | 63.6   | 373.0  |
| 100°   | 40.2   | 72.0   | 425.1  | 387.5  | 251.8  | 387.5  | 425.1  | 72.0   | 40.2   | 72.0   | 425.1  |
| 102.5° | 50.9   | 81.3   | 415.9  | 569.1  | 435.6  | 569.1  | 415.9  | 81.3   | 50.9   | 81.3   | 415.9  |
| 105°   | 67.0   | 94.2   | 379.1  | 722.1  | 692.1  | 722.1  | 379.1  | 94.2   | 67.0   | 94.2   | 379.1  |
| 107.5° | 83.1   | 108.2  | 344.1  | 738.1  | 778.5  | 738.1  | 344.1  | 108.2  | 83.1   | 108.2  | 344.1  |
| 110°   | 93.8   | 118.2  | 326.4  | 719.7  | 794.6  | 719.7  | 326.4  | 118.2  | 93.8   | 118.2  | 326.4  |



TEST NUMBER: P853755

CATALOG NUMBER: SQ2-FA-050U-075D-930-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   | 112.5° | 135°  | 157.5° | 180°  | 202.5° | 225°  |
|--------|-------|-------|-------|-------|-------|--------|-------|--------|-------|--------|-------|
| 112.5° | 104.5 | 127.4 | 316.5 | 688.0 | 783.1 | 688.0  | 316.5 | 127.4  | 104.5 | 127.4  | 316.5 |
| 115°   | 119.7 | 142.1 | 306.3 | 636.3 | 748.6 | 636.3  | 306.3 | 142.1  | 119.7 | 142.1  | 306.3 |
| 117.5° | 134.4 | 155.8 | 302.3 | 586.5 | 699.8 | 586.5  | 302.3 | 155.8  | 134.4 | 155.8  | 302.3 |
| 120°   | 143.6 | 164.2 | 301.6 | 555.8 | 665.3 | 555.8  | 301.6 | 164.2  | 143.6 | 164.2  | 301.6 |
| 122.5° | 152.8 | 172.6 | 301.6 | 531.1 | 633.2 | 531.1  | 301.6 | 172.6  | 152.8 | 172.6  | 301.6 |
| 125°   | 165.6 | 185.3 | 301.6 | 498.9 | 587.8 | 498.9  | 301.6 | 185.3  | 165.6 | 185.3  | 301.6 |
| 127.5° | 176.9 | 195.8 | 301.6 | 473.9 | 549.7 | 473.9  | 301.6 | 195.8  | 176.9 | 195.8  | 301.6 |
| 130°   | 183.8 | 203.5 | 301.6 | 459.2 | 527.5 | 459.2  | 301.6 | 203.5  | 183.8 | 203.5  | 301.6 |
| 132.5° | 190.7 | 210.4 | 300.8 | 447.5 | 509.1 | 447.5  | 300.8 | 210.4  | 190.7 | 210.4  | 300.8 |
| 135°   | 200.1 | 219.7 | 299.6 | 429.2 | 483.4 | 429.2  | 299.6 | 219.7  | 200.1 | 219.7  | 299.6 |
| 137.5° | 209.3 | 229.9 | 299.5 | 411.6 | 460.1 | 411.6  | 299.5 | 229.9  | 209.3 | 229.9  | 299.5 |
| 140°   | 215.4 | 236.0 | 298.7 | 399.2 | 443.2 | 399.2  | 298.7 | 236.0  | 215.4 | 236.0  | 298.7 |
| 142.5° | 223.1 | 242.9 | 299.5 | 386.9 | 427.9 | 386.9  | 299.5 | 242.9  | 223.1 | 242.9  | 299.5 |
| 145°   | 233.6 | 251.4 | 299.6 | 370.3 | 403.0 | 370.3  | 299.6 | 251.4  | 233.6 | 251.4  | 299.6 |
| 147.5° | 244.1 | 259.3 | 299.8 | 355.6 | 382.4 | 355.6  | 299.8 | 259.3  | 244.1 | 259.3  | 299.8 |
| 150°   | 251.8 | 263.9 | 300.6 | 347.0 | 368.6 | 347.0  | 300.6 | 263.9  | 251.8 | 263.9  | 300.6 |
| 152.5° | 257.9 | 268.6 | 300.6 | 340.1 | 357.8 | 340.1  | 300.6 | 268.6  | 257.9 | 268.6  | 300.6 |
| 155°   | 266.1 | 275.5 | 300.6 | 330.6 | 343.7 | 330.6  | 300.6 | 275.5  | 266.1 | 275.5  | 300.6 |
| 157.5° | 274.9 | 281.3 | 301.6 | 324.7 | 333.7 | 324.7  | 301.6 | 281.3  | 274.9 | 281.3  | 301.6 |
| 160°   | 279.5 | 285.2 | 301.6 | 320.9 | 328.4 | 320.9  | 301.6 | 285.2  | 279.5 | 285.2  | 301.6 |
| 162.5° | 284.1 | 288.3 | 301.6 | 317.8 | 323.0 | 317.8  | 301.6 | 288.3  | 284.1 | 288.3  | 301.6 |
| 165°   | 290.1 | 292.9 | 301.6 | 313.1 | 315.9 | 313.1  | 301.6 | 292.9  | 290.1 | 292.9  | 301.6 |
| 167.5° | 295.6 | 296.4 | 302.5 | 309.8 | 312.3 | 309.8  | 302.5 | 296.4  | 295.6 | 296.4  | 302.5 |
| 170°   | 298.7 | 298.7 | 302.5 | 308.3 | 309.2 | 308.3  | 302.5 | 298.7  | 298.7 | 298.7  | 302.5 |
| 172.5° | 300.2 | 301.0 | 302.5 | 306.7 | 306.9 | 306.7  | 302.5 | 301.0  | 300.2 | 301.0  | 302.5 |
| 175°   | 303.5 | 302.5 | 303.5 | 305.4 | 304.4 | 305.4  | 303.5 | 302.5  | 303.5 | 302.5  | 303.5 |
| 177.5° | 304.4 | 303.7 | 303.7 | 305.2 | 303.7 | 305.2  | 303.7 | 303.7  | 304.4 | 303.7  | 303.7 |
| 180°   | 304.4 | 304.4 | 304.4 | 304.4 | 304.4 | 304.4  | 304.4 | 304.4  | 304.4 | 304.4  | 304.4 |



TEST NUMBER: P853755

CATALOG NUMBER: SQ2-FA-050U-075D-930-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 270°   | 292.5° | 315°   | 337.5° | 360°   |
|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1839.8 | 1839.8 | 1839.8 | 1839.8 | 1839.8 | 1839.8 |
| 2.5°   | 1825.5 | 1833.1 | 1833.1 | 1828.7 | 1850.4 | 1829.8 |
| 5°     | 1806.9 | 1824.5 | 1816.4 | 1816.2 | 1843.5 | 1823.1 |
| 7.5°   | 1793.8 | 1810.4 | 1802.8 | 1801.2 | 1828.0 | 1811.8 |
| 10°    | 1780.4 | 1792.6 | 1787.2 | 1791.2 | 1815.8 | 1799.5 |
| 12.5°  | 1761.6 | 1776.0 | 1770.5 | 1776.8 | 1799.3 | 1786.2 |
| 15°    | 1729.1 | 1741.3 | 1744.0 | 1746.8 | 1772.9 | 1759.3 |
| 17.5°  | 1675.4 | 1681.3 | 1694.9 | 1714.1 | 1741.2 | 1726.0 |
| 20°    | 1633.2 | 1641.4 | 1649.5 | 1683.0 | 1714.5 | 1698.3 |
| 22.5°  | 1585.3 | 1582.5 | 1601.5 | 1640.8 | 1680.2 | 1666.1 |
| 25°    | 1455.9 | 1351.4 | 1466.7 | 1567.8 | 1620.5 | 1616.4 |
| 27.5°  | 1013.7 | 879.7  | 998.2  | 1447.1 | 1557.8 | 1565.9 |
| 30°    | 797.8  | 735.4  | 796.4  | 1291.7 | 1511.4 | 1530.4 |
| 32.5°  | 708.3  | 665.4  | 702.6  | 983.2  | 1453.0 | 1489.3 |
| 35°    | 611.2  | 581.3  | 611.2  | 735.4  | 1338.0 | 1422.2 |
| 37.5°  | 489.2  | 428.2  | 488.1  | 635.5  | 1081.7 | 1349.7 |
| 40°    | 364.5  | 287.2  | 353.7  | 568.9  | 864.4  | 1293.1 |
| 42.5°  | 242.9  | 185.1  | 229.9  | 447.9  | 747.7  | 1217.6 |
| 45°    | 131.4  | 115.2  | 126.0  | 270.6  | 610.2  | 1085.0 |
| 47.5°  | 103.1  | 109.1  | 103.1  | 170.7  | 466.8  | 859.4  |
| 50°    | 98.9   | 117.9  | 98.9   | 131.8  | 386.2  | 650.7  |
| 52.5°  | 107.8  | 127.9  | 106.8  | 104.1  | 315.1  | 482.0  |
| 55°    | 122.2  | 188.7  | 123.6  | 84.6   | 231.1  | 324.7  |
| 57.5°  | 174.0  | 212.3  | 175.9  | 80.2   | 178.0  | 205.9  |
| 60°    | 178.7  | 228.9  | 177.4  | 84.6   | 137.7  | 152.6  |
| 62.5°  | 211.4  | 283.3  | 211.1  | 96.8   | 102.4  | 126.0  |
| 65°    | 271.2  | 298.3  | 273.9  | 123.5  | 73.1   | 113.8  |
| 67.5°  | 257.4  | 276.7  | 254.7  | 132.4  | 50.3   | 102.7  |
| 70°    | 252.9  | 267.8  | 250.1  | 151.2  | 46.7   | 86.0   |
| 72.5°  | 235.9  | 237.8  | 231.0  | 140.1  | 42.0   | 71.6   |
| 75°    | 182.9  | 170.7  | 176.1  | 120.7  | 42.1   | 61.0   |
| 77.5°  | 113.7  | 108.8  | 109.6  | 92.1   | 37.1   | 45.8   |
| 80°    | 86.0   | 83.2   | 81.9   | 77.7   | 34.7   | 34.7   |
| 82.5°  | 63.8   | 61.0   | 59.7   | 59.9   | 29.1   | 26.9   |
| 85°    | 29.1   | 26.4   | 25.0   | 34.7   | 20.7   | 15.3   |
| 87.5°  | 6.1    | 6.1    | 5.0    | 6.1    | 7.9    | 5.5    |
| 90°    | 2.9    | 2.9    | 2.9    | 2.9    | 0.9    | 0.0    |
| 92.5°  | 22.6   | 15.9   | 22.6   | 68.0   | 21.3   | 5.4    |
| 95°    | 81.7   | 52.7   | 81.7   | 220.2  | 49.0   | 16.3   |
| 97.5°  | 233.1  | 143.0  | 233.1  | 373.0  | 63.6   | 30.3   |
| 100°   | 387.5  | 251.8  | 387.5  | 425.1  | 72.0   | 40.2   |
| 102.5° | 569.1  | 435.6  | 569.1  | 415.9  | 81.3   | 50.9   |
| 105°   | 722.1  | 692.1  | 722.1  | 379.1  | 94.2   | 67.0   |
| 107.5° | 738.1  | 778.5  | 738.1  | 344.1  | 108.2  | 83.1   |
| 110°   | 719.7  | 794.6  | 719.7  | 326.4  | 118.2  | 93.8   |





TEST NUMBER: P853755

CATALOG NUMBER: SQ2-FA-050U-075D-930-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 270°  | 292.5° | 315°  | 337.5° | 360°  |
|--------|--------|-------|--------|-------|--------|-------|
| 112.5° | 688.0  | 783.1 | 688.0  | 316.5 | 127.4  | 104.5 |
| 115°   | 636.3  | 748.6 | 636.3  | 306.3 | 142.1  | 119.7 |
| 117.5° | 586.5  | 699.8 | 586.5  | 302.3 | 155.8  | 134.4 |
| 120°   | 555.8  | 665.3 | 555.8  | 301.6 | 164.2  | 143.6 |
| 122.5° | 531.1  | 633.2 | 531.1  | 301.6 | 172.6  | 152.8 |
| 125°   | 498.9  | 587.8 | 498.9  | 301.6 | 185.3  | 165.6 |
| 127.5° | 473.9  | 549.7 | 473.9  | 301.6 | 195.8  | 176.9 |
| 130°   | 459.2  | 527.5 | 459.2  | 301.6 | 203.5  | 183.8 |
| 132.5° | 447.5  | 509.1 | 447.5  | 300.8 | 210.4  | 190.7 |
| 135°   | 429.2  | 483.4 | 429.2  | 299.6 | 219.7  | 200.1 |
| 137.5° | 411.6  | 460.1 | 411.6  | 299.5 | 229.9  | 209.3 |
| 140°   | 399.2  | 443.2 | 399.2  | 298.7 | 236.0  | 215.4 |
| 142.5° | 386.9  | 427.9 | 386.9  | 299.5 | 242.9  | 223.1 |
| 145°   | 370.3  | 403.0 | 370.3  | 299.6 | 251.4  | 233.6 |
| 147.5° | 355.6  | 382.4 | 355.6  | 299.8 | 259.3  | 244.1 |
| 150°   | 347.0  | 368.6 | 347.0  | 300.6 | 263.9  | 251.8 |
| 152.5° | 340.1  | 357.8 | 340.1  | 300.6 | 268.6  | 257.9 |
| 155°   | 330.6  | 343.7 | 330.6  | 300.6 | 275.5  | 266.1 |
| 157.5° | 324.7  | 333.7 | 324.7  | 301.6 | 281.3  | 274.9 |
| 160°   | 320.9  | 328.4 | 320.9  | 301.6 | 285.2  | 279.5 |
| 162.5° | 317.8  | 323.0 | 317.8  | 301.6 | 288.3  | 284.1 |
| 165°   | 313.1  | 315.9 | 313.1  | 301.6 | 292.9  | 290.1 |
| 167.5° | 309.8  | 312.3 | 309.8  | 302.5 | 296.4  | 295.6 |
| 170°   | 308.3  | 309.2 | 308.3  | 302.5 | 298.7  | 298.7 |
| 172.5° | 306.7  | 306.9 | 306.7  | 302.5 | 301.0  | 300.2 |
| 175°   | 305.4  | 304.4 | 305.4  | 303.5 | 302.5  | 303.5 |
| 177.5° | 305.2  | 303.7 | 305.2  | 303.7 | 303.7  | 304.4 |
| 180°   | 304.4  | 304.4 | 304.4  | 304.4 | 304.4  | 304.4 |



TEST NUMBER: P853755

CATALOG NUMBER: SQ2-FA-050U-075D-930-UNV-STD-W-4

**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 | 12.50            | 13.32 | 13.40 | 14.22 | 15.37 | 11.35          | 12.17 | 12.26 | 13.08 | 14.23 |
|                 | 3H   | 13.20            | 13.93 | 14.11 | 14.84 | 16.02 | 17.50          | 18.24 | 18.42 | 19.15 | 20.33 |
|                 | 4H   | 13.61            | 14.30 | 14.53 | 15.22 | 16.40 | 18.78          | 19.47 | 19.71 | 20.39 | 21.58 |
|                 | 6H   | 13.96            | 14.60 | 14.90 | 15.52 | 16.72 | 19.39          | 20.02 | 20.32 | 20.95 | 22.15 |
|                 | 8H   | 14.08            | 14.68 | 15.02 | 15.62 | 16.82 | 19.51          | 20.11 | 20.46 | 21.06 | 22.25 |
|                 | 12H  | 14.15            | 14.72 | 15.10 | 15.66 | 16.88 | 19.55          | 20.13 | 20.50 | 21.06 | 22.28 |
| 4H              | 2H   | 12.89            | 13.58 | 13.82 | 14.50 | 15.69 | 11.88          | 12.58 | 12.82 | 13.50 | 14.68 |
|                 | 3H   | 13.89            | 14.46 | 14.83 | 15.41 | 16.61 | 18.21          | 18.79 | 19.15 | 19.74 | 20.93 |
|                 | 4H   | 14.45            | 14.97 | 15.40 | 15.92 | 17.14 | 19.66          | 20.19 | 20.61 | 21.13 | 22.35 |
|                 | 6H   | 14.92            | 15.38 | 15.89 | 16.34 | 17.57 | 20.40          | 20.85 | 21.36 | 21.82 | 23.04 |
|                 | 8H   | 15.09            | 15.52 | 16.06 | 16.48 | 17.71 | 20.56          | 20.99 | 21.53 | 21.95 | 23.18 |
|                 | 12H  | 15.21            | 15.59 | 16.19 | 16.57 | 17.81 | 20.62          | 21.00 | 21.61 | 21.98 | 23.22 |
| 8H              | 4H   | 15.55            | 15.97 | 16.51 | 16.93 | 18.17 | 19.78          | 20.20 | 20.75 | 21.17 | 22.40 |
|                 | 6H   | 16.16            | 16.50 | 17.14 | 17.51 | 18.74 | 20.66          | 21.01 | 21.65 | 22.01 | 23.25 |
|                 | 8H   | 16.39            | 16.70 | 17.39 | 17.69 | 18.94 | 20.91          | 21.22 | 21.91 | 22.21 | 23.46 |
|                 | 12H  | 16.56            | 16.83 | 17.56 | 17.82 | 19.12 | 21.03          | 21.30 | 22.03 | 22.29 | 23.59 |
| 12H             | 4H   | 15.69            | 16.07 | 16.67 | 17.05 | 18.29 | 19.74          | 20.12 | 20.72 | 21.10 | 22.34 |
|                 | 6H   | 16.43            | 16.74 | 17.43 | 17.73 | 18.98 | 20.67          | 20.98 | 21.67 | 21.97 | 23.22 |
|                 | 8H   | 16.73            | 17.00 | 17.73 | 17.98 | 19.29 | 20.95          | 21.22 | 21.95 | 22.20 | 23.51 |