

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: P855050

Luminaire Tested: SQ2-FA-050U-050D-830-UNV-STD-W-4

Issue Date: 7/12/2024

Test Information

Test Method: LM-79-2019
Report Number: P855050
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-050D-830-UNV-STD-W-4
Description: CORELITE SQ2 SUSPENDED LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: -
Ballast/Driver: -

Summary

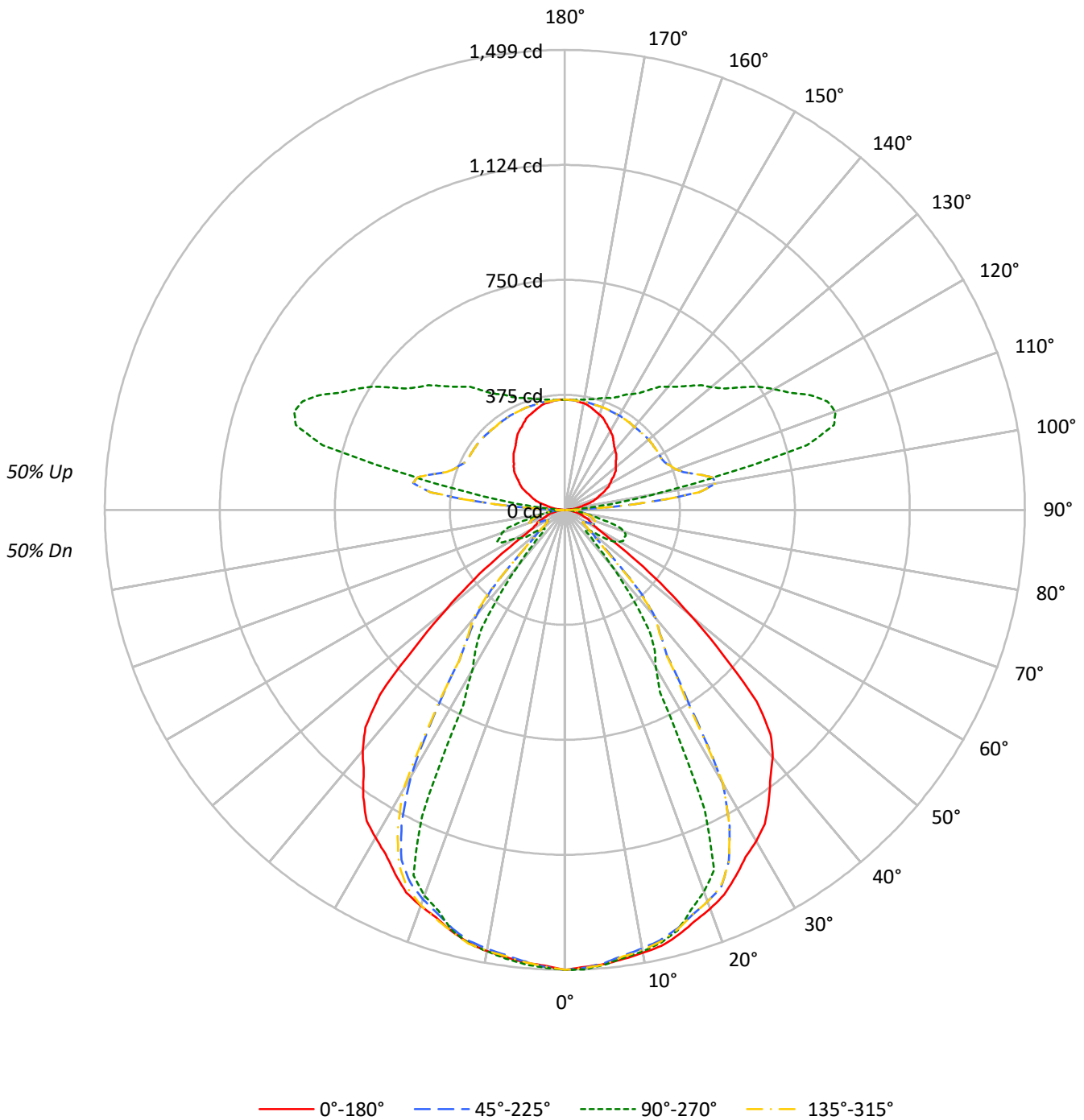
Lumens per Lamp: N/A
Luminaire Lumens: 4422.6 lumens
Efficiency: N/A
Efficacy: 135.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 0.95 / 0.95
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 32.6
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: P855050

CATALOG NUMBER: SQ2-FA-050U-050D-830-UNV-STD-W-4

Luminous Intensity Polar Plot





TEST NUMBER: P855050

CATALOG NUMBER: SQ2-FA-050U-050D-830-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 | 107 | 107 | 107 | 107 | 99 | 99 | 99 | 99 | 83 | 83 | 83 | 69 | 69 | 69 | 56 | 56 | 56 | 50 | | | | |
| 1 | 99 | 95 | 91 | 88 | 91 | 88 | 85 | 82 | 74 | 72 | 70 | 62 | 61 | 59 | 51 | 50 | 49 | 44 | | | | |
| 2 | 91 | 84 | 79 | 74 | 84 | 78 | 73 | 69 | 67 | 63 | 60 | 56 | 54 | 52 | 46 | 45 | 43 | 39 | | | | |
| 3 | 84 | 75 | 69 | 63 | 77 | 70 | 64 | 60 | 60 | 56 | 52 | 51 | 48 | 45 | 42 | 40 | 39 | 35 | | | | |
| 4 | 78 | 68 | 61 | 55 | 72 | 63 | 57 | 52 | 55 | 50 | 46 | 46 | 43 | 40 | 39 | 37 | 35 | 31 | | | | |
| 5 | 72 | 61 | 54 | 48 | 66 | 57 | 51 | 46 | 50 | 45 | 41 | 43 | 39 | 36 | 36 | 33 | 31 | 28 | | | | |
| 6 | 67 | 56 | 48 | 43 | 62 | 52 | 46 | 41 | 46 | 40 | 37 | 39 | 35 | 33 | 33 | 31 | 28 | 26 | | | | |
| 7 | 62 | 51 | 44 | 39 | 58 | 48 | 41 | 37 | 42 | 37 | 33 | 36 | 32 | 30 | 31 | 28 | 26 | 24 | | | | |
| 8 | 58 | 47 | 40 | 35 | 54 | 44 | 38 | 33 | 39 | 34 | 30 | 34 | 30 | 27 | 29 | 26 | 24 | 22 | | | | |
| 9 | 54 | 43 | 36 | 31 | 51 | 41 | 34 | 30 | 36 | 31 | 27 | 31 | 28 | 25 | 27 | 24 | 22 | 20 | | | | |
| 10 | 51 | 40 | 33 | 29 | 48 | 38 | 32 | 28 | 33 | 29 | 25 | 29 | 25 | 23 | 25 | 23 | 21 | 19 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° | 270° |
|-----|-------|-------|-------|-------|
| 0° | 24206 | 24206 | 24206 | 24206 |
| 5° | 24080 | 24115 | 23987 | 24097 |
| 10° | 24042 | 23950 | 23950 | 23950 |
| 15° | 23965 | 23719 | 23774 | 23719 |
| 20° | 23778 | 22768 | 23603 | 22983 |
| 25° | 23466 | 19215 | 23306 | 19618 |
| 30° | 23250 | 11024 | 22997 | 11171 |
| 35° | 22842 | 9471 | 22553 | 9337 |
| 40° | 22211 | 4980 | 21591 | 4932 |
| 45° | 20190 | 2142 | 19466 | 2142 |
| 50° | 13320 | 2585 | 12637 | 2414 |
| 55° | 7448 | 4774 | 7066 | 4329 |
| 60° | 4017 | 6717 | 3943 | 6026 |
| 65° | 3542 | 8164 | 3713 | 9287 |
| 70° | 3309 | 9767 | 3149 | 10301 |
| 75° | 3100 | 8390 | 3175 | 8677 |
| 80° | 2631 | 5988 | 2631 | 6304 |
| 85° | 2297 | 3353 | 2093 | 3983 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 20190 cd/sqm



TEST NUMBER: P855050

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 141.1 | 3.2 |
| 10°-20° | 400.3 | 9.1 |
| 20°-30° | 545.8 | 12.3 |
| 30°-40° | 458.6 | 10.4 |
| 40°-50° | 260.5 | 5.9 |
| 50°-60° | 138.2 | 3.1 |
| 60°-70° | 127.3 | 2.9 |
| 70°-80° | 93.4 | 2.1 |
| 80°-90° | 24.9 | 0.6 |
| 90°-100° | 143.2 | 3.2 |
| 100°-110° | 454.2 | 10.3 |
| 110°-120° | 445.4 | 10.1 |
| 120°-130° | 362.4 | 8.2 |
| 130°-140° | 295.5 | 6.7 |
| 140°-150° | 230.4 | 5.2 |
| 150°-160° | 166.0 | 3.8 |
| 160°-170° | 101.4 | 2.3 |
| 170°-180° | 34.2 | 0.8 |
| 0°-30° | 1087.1 | 24.6 |
| 0°-40° | 1545.7 | 35.0 |
| 0°-60° | 1944.4 | 44.0 |
| 0°-90° | 2189.9 | 49.5 |
| 90°-120° | 1042.7 | 23.6 |
| 90°-150° | 1931.0 | 43.7 |
| 90°-180° | 2233.0 | 50.5 |
| 0°-180° | 4422.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 90° | 180° | 270° | 360° | Flux |
|------|------|------|------|------|------|------|
| 0° | 1499 | 1499 | 1499 | 1499 | 1499 | |
| 5° | 1486 | 1488 | 1480 | 1487 | 1486 | 141 |
| 15° | 1434 | 1419 | 1422 | 1419 | 1434 | 404 |
| 25° | 1317 | 1079 | 1308 | 1101 | 1317 | 607 |
| 35° | 1159 | 480 | 1144 | 474 | 1159 | 723 |
| 45° | 884 | 94 | 852 | 94 | 884 | 646 |
| 55° | 265 | 170 | 251 | 154 | 265 | 255 |
| 65° | 93 | 214 | 97 | 243 | 93 | 93 |
| 75° | 50 | 134 | 51 | 139 | 50 | 51 |
| 85° | 12 | 18 | 11 | 22 | 12 | 14 |
| 90° | 0 | 3 | 0 | 3 | 0 | 1 |
| 95° | 19 | 62 | 19 | 62 | 19 | 22 |
| 105° | 79 | 817 | 79 | 817 | 79 | 83 |
| 115° | 141 | 884 | 141 | 884 | 141 | 139 |
| 125° | 196 | 694 | 196 | 694 | 196 | 174 |
| 135° | 236 | 571 | 236 | 571 | 236 | 182 |
| 145° | 276 | 476 | 276 | 476 | 276 | 173 |
| 155° | 314 | 406 | 314 | 406 | 314 | 145 |
| 165° | 343 | 373 | 343 | 373 | 343 | 97 |
| 175° | 358 | 360 | 358 | 360 | 358 | 34 |
| 180° | 360 | 360 | 360 | 360 | 360 | |



TEST NUMBER: P855050

CATALOG NUMBER: SQ2-FA-050U-050D-830-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1499.2 | 1499.2 | 1499.2 | 1499.2 | 1499.2 | 1499.2 | 1499.2 | 1499.2 | 1499.2 | 1499.2 | 1499.2 |
| 2.5° | 1491.1 | 1513.3 | 1493.8 | 1491.3 | 1499.2 | 1497.4 | 1494.7 | 1505.2 | 1487.5 | 1505.2 | 1491.1 |
| 5° | 1485.7 | 1511.1 | 1482.3 | 1474.7 | 1487.9 | 1479.1 | 1486.8 | 1502.2 | 1480.0 | 1499.9 | 1477.8 |
| 7.5° | 1476.4 | 1499.0 | 1464.4 | 1459.5 | 1472.5 | 1464.9 | 1468.0 | 1489.3 | 1470.7 | 1483.7 | 1463.7 |
| 10° | 1466.4 | 1486.3 | 1451.7 | 1448.7 | 1460.8 | 1453.1 | 1456.3 | 1478.5 | 1460.8 | 1473.0 | 1452.9 |
| 12.5° | 1455.6 | 1471.1 | 1436.4 | 1435.0 | 1445.4 | 1440.3 | 1441.8 | 1460.5 | 1446.3 | 1458.5 | 1439.3 |
| 15° | 1433.7 | 1448.0 | 1413.3 | 1407.9 | 1419.0 | 1414.5 | 1416.7 | 1433.4 | 1422.3 | 1430.2 | 1413.3 |
| 17.5° | 1406.5 | 1418.1 | 1383.5 | 1367.2 | 1367.6 | 1373.2 | 1383.5 | 1403.6 | 1393.6 | 1403.8 | 1380.1 |
| 20° | 1383.9 | 1397.1 | 1359.0 | 1327.4 | 1325.1 | 1330.7 | 1359.0 | 1379.3 | 1373.7 | 1384.8 | 1351.1 |
| 22.5° | 1357.7 | 1366.5 | 1331.9 | 1278.4 | 1270.8 | 1276.4 | 1328.3 | 1352.2 | 1350.2 | 1357.8 | 1315.8 |
| 25° | 1317.2 | 1326.0 | 1262.9 | 1185.9 | 1078.6 | 1179.3 | 1265.2 | 1308.2 | 1308.2 | 1314.8 | 1259.5 |
| 27.5° | 1276.0 | 1276.3 | 1162.1 | 761.6 | 671.8 | 734.2 | 1160.5 | 1253.7 | 1264.3 | 1261.0 | 1152.4 |
| 30° | 1247.1 | 1239.4 | 1030.0 | 615.6 | 591.3 | 606.8 | 1031.1 | 1215.9 | 1233.5 | 1221.4 | 1004.0 |
| 32.5° | 1213.6 | 1191.7 | 760.5 | 566.0 | 546.1 | 559.8 | 735.4 | 1170.9 | 1201.9 | 1175.5 | 789.6 |
| 35° | 1158.9 | 1101.5 | 580.0 | 500.4 | 480.5 | 498.2 | 575.5 | 1082.4 | 1144.2 | 1073.4 | 599.2 |
| 37.5° | 1099.9 | 875.5 | 510.6 | 398.6 | 355.7 | 390.0 | 508.1 | 866.1 | 1075.9 | 845.9 | 510.1 |
| 40° | 1053.8 | 687.9 | 459.0 | 291.6 | 236.3 | 275.0 | 455.6 | 656.2 | 1024.4 | 706.0 | 447.7 |
| 42.5° | 992.3 | 604.2 | 368.6 | 185.2 | 144.9 | 169.5 | 353.4 | 590.3 | 961.0 | 611.7 | 356.4 |
| 45° | 884.2 | 519.3 | 218.2 | 101.5 | 93.8 | 98.3 | 201.3 | 509.8 | 852.5 | 498.7 | 222.7 |
| 47.5° | 700.3 | 396.1 | 140.2 | 86.4 | 94.7 | 86.4 | 135.9 | 383.5 | 661.4 | 382.8 | 140.0 |
| 50° | 530.3 | 309.1 | 108.5 | 87.4 | 102.9 | 87.4 | 105.1 | 298.6 | 503.1 | 326.3 | 107.4 |
| 52.5° | 392.8 | 258.4 | 88.6 | 95.9 | 123.7 | 97.6 | 86.2 | 251.5 | 372.9 | 263.2 | 83.9 |
| 55° | 264.6 | 202.6 | 71.2 | 126.5 | 169.6 | 129.8 | 71.2 | 196.8 | 251.0 | 194.6 | 69.0 |
| 57.5° | 167.8 | 150.7 | 72.1 | 162.6 | 193.6 | 165.8 | 73.3 | 145.3 | 161.0 | 146.0 | 63.3 |
| 60° | 124.4 | 118.8 | 80.3 | 172.6 | 208.0 | 174.9 | 81.4 | 114.4 | 122.1 | 113.3 | 67.8 |
| 62.5° | 102.7 | 93.6 | 96.6 | 187.0 | 216.2 | 182.1 | 98.6 | 89.3 | 106.7 | 85.5 | 75.1 |
| 65° | 92.7 | 60.6 | 114.2 | 189.4 | 213.7 | 189.4 | 115.3 | 57.4 | 97.2 | 61.8 | 101.8 |
| 67.5° | 83.7 | 45.0 | 110.4 | 188.0 | 215.0 | 188.5 | 107.6 | 43.0 | 80.3 | 41.8 | 104.0 |
| 70° | 70.1 | 40.3 | 104.0 | 191.4 | 206.9 | 184.7 | 104.0 | 39.1 | 66.7 | 38.0 | 122.1 |
| 72.5° | 58.3 | 38.2 | 96.8 | 176.7 | 183.4 | 170.2 | 97.7 | 38.0 | 58.6 | 34.3 | 114.9 |
| 75° | 49.7 | 37.5 | 92.7 | 141.2 | 134.5 | 134.5 | 90.5 | 36.5 | 50.9 | 34.3 | 89.3 |
| 77.5° | 37.3 | 33.4 | 76.9 | 92.1 | 87.1 | 87.1 | 75.5 | 32.2 | 35.5 | 30.2 | 72.6 |
| 80° | 28.3 | 30.5 | 63.3 | 67.7 | 64.4 | 64.4 | 61.1 | 29.4 | 28.3 | 28.3 | 59.9 |
| 82.5° | 21.9 | 25.9 | 48.8 | 49.7 | 47.3 | 46.4 | 47.5 | 25.7 | 21.9 | 23.7 | 46.4 |
| 85° | 12.4 | 18.0 | 26.0 | 21.4 | 18.1 | 17.0 | 24.9 | 16.8 | 11.3 | 16.8 | 24.9 |
| 87.5° | 4.5 | 8.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 8.3 | 4.5 | 7.3 | 5.2 |
| 90° | 0.0 | 1.1 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 1.1 | 0.0 | 1.1 | 3.4 |
| 92.5° | 6.3 | 25.1 | 80.3 | 26.7 | 18.8 | 26.7 | 80.3 | 25.1 | 6.3 | 25.1 | 80.3 |
| 95° | 19.2 | 57.9 | 260.0 | 96.4 | 62.2 | 96.4 | 260.0 | 57.9 | 19.2 | 57.9 | 260.0 |
| 97.5° | 35.7 | 75.1 | 440.5 | 275.2 | 168.9 | 275.2 | 440.5 | 75.1 | 35.7 | 75.1 | 440.5 |
| 100° | 47.5 | 85.0 | 502.0 | 457.6 | 297.4 | 457.6 | 502.0 | 85.0 | 47.5 | 85.0 | 502.0 |
| 102.5° | 60.2 | 96.0 | 491.2 | 672.1 | 514.4 | 672.1 | 491.2 | 96.0 | 60.2 | 96.0 | 491.2 |
| 105° | 79.1 | 111.1 | 447.7 | 852.7 | 817.3 | 852.7 | 447.7 | 111.1 | 79.1 | 111.1 | 447.7 |
| 107.5° | 98.1 | 127.8 | 406.4 | 871.6 | 919.3 | 871.6 | 406.4 | 127.8 | 98.1 | 127.8 | 406.4 |
| 110° | 110.8 | 139.5 | 385.5 | 849.9 | 938.3 | 849.9 | 385.5 | 139.5 | 110.8 | 139.5 | 385.5 |



TEST NUMBER: P855050

CATALOG NUMBER: SQ2-FA-050U-050D-830-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° | 123.5 | 150.4 | 373.8 | 812.5 | 924.8 | 812.5 | 373.8 | 150.4 | 123.5 | 150.4 | 373.8 |
| 115° | 141.3 | 167.9 | 361.8 | 751.4 | 884.0 | 751.4 | 361.8 | 167.9 | 141.3 | 167.9 | 361.8 |
| 117.5° | 158.7 | 184.0 | 357.1 | 692.6 | 826.4 | 692.6 | 357.1 | 184.0 | 158.7 | 184.0 | 357.1 |
| 120° | 169.6 | 193.9 | 356.2 | 656.3 | 785.7 | 656.3 | 356.2 | 193.9 | 169.6 | 193.9 | 356.2 |
| 122.5° | 180.5 | 203.9 | 356.2 | 627.3 | 747.7 | 627.3 | 356.2 | 203.9 | 180.5 | 203.9 | 356.2 |
| 125° | 195.6 | 218.8 | 356.2 | 589.2 | 694.1 | 589.2 | 356.2 | 218.8 | 195.6 | 218.8 | 356.2 |
| 127.5° | 208.9 | 231.2 | 356.2 | 559.7 | 649.1 | 559.7 | 356.2 | 231.2 | 208.9 | 231.2 | 356.2 |
| 130° | 217.1 | 240.3 | 356.2 | 542.3 | 622.9 | 542.3 | 356.2 | 240.3 | 217.1 | 240.3 | 356.2 |
| 132.5° | 225.2 | 248.4 | 355.2 | 528.5 | 601.3 | 528.5 | 355.2 | 248.4 | 225.2 | 248.4 | 355.2 |
| 135° | 236.3 | 259.5 | 353.9 | 506.8 | 571.0 | 506.8 | 353.9 | 259.5 | 236.3 | 259.5 | 353.9 |
| 137.5° | 247.2 | 271.5 | 353.7 | 486.1 | 543.4 | 486.1 | 353.7 | 271.5 | 247.2 | 271.5 | 353.7 |
| 140° | 254.4 | 278.7 | 352.8 | 471.5 | 523.5 | 471.5 | 352.8 | 278.7 | 254.4 | 278.7 | 352.8 |
| 142.5° | 263.4 | 286.8 | 353.7 | 456.9 | 505.4 | 456.9 | 353.7 | 286.8 | 263.4 | 286.8 | 353.7 |
| 145° | 275.9 | 296.9 | 353.9 | 437.2 | 476.0 | 437.2 | 353.9 | 296.9 | 275.9 | 296.9 | 353.9 |
| 147.5° | 288.3 | 306.2 | 354.1 | 419.9 | 451.6 | 419.9 | 354.1 | 306.2 | 288.3 | 306.2 | 354.1 |
| 150° | 297.4 | 311.7 | 355.0 | 409.9 | 435.3 | 409.9 | 355.0 | 311.7 | 297.4 | 311.7 | 355.0 |
| 152.5° | 304.6 | 317.1 | 355.0 | 401.6 | 422.6 | 401.6 | 355.0 | 317.1 | 304.6 | 317.1 | 355.0 |
| 155° | 314.3 | 325.4 | 355.0 | 390.4 | 405.9 | 390.4 | 355.0 | 325.4 | 314.3 | 325.4 | 355.0 |
| 157.5° | 324.7 | 332.2 | 356.2 | 383.5 | 394.1 | 383.5 | 356.2 | 332.2 | 324.7 | 332.2 | 356.2 |
| 160° | 330.1 | 336.7 | 356.2 | 378.9 | 387.8 | 378.9 | 356.2 | 336.7 | 330.1 | 336.7 | 356.2 |
| 162.5° | 335.6 | 340.4 | 356.2 | 375.3 | 381.5 | 375.3 | 356.2 | 340.4 | 335.6 | 340.4 | 356.2 |
| 165° | 342.6 | 345.9 | 356.2 | 369.7 | 373.1 | 369.7 | 356.2 | 345.9 | 342.6 | 345.9 | 356.2 |
| 167.5° | 349.1 | 350.0 | 357.3 | 365.9 | 368.8 | 365.9 | 357.3 | 350.0 | 349.1 | 350.0 | 357.3 |
| 170° | 352.8 | 352.8 | 357.3 | 364.1 | 365.2 | 364.1 | 357.3 | 352.8 | 352.8 | 352.8 | 357.3 |
| 172.5° | 354.6 | 355.5 | 357.3 | 362.3 | 362.5 | 362.3 | 357.3 | 355.5 | 354.6 | 355.5 | 357.3 |
| 175° | 358.4 | 357.3 | 358.4 | 360.6 | 359.5 | 360.6 | 358.4 | 357.3 | 358.4 | 357.3 | 358.4 |
| 177.5° | 359.5 | 358.6 | 358.6 | 360.3 | 358.6 | 360.3 | 358.6 | 358.6 | 359.5 | 358.6 | 358.6 |
| 180° | 359.5 | 359.5 | 359.5 | 359.5 | 359.5 | 359.5 | 359.5 | 359.5 | 359.5 | 359.5 | 359.5 |



TEST NUMBER: P855050

CATALOG NUMBER: SQ2-FA-050U-050D-830-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1499.2 | 1499.2 | 1499.2 | 1499.2 | 1499.2 | 1499.2 |
| 2.5° | 1487.6 | 1493.8 | 1493.8 | 1490.2 | 1507.9 | 1491.1 |
| 5° | 1472.4 | 1486.8 | 1480.1 | 1480.0 | 1502.3 | 1485.7 |
| 7.5° | 1461.8 | 1475.3 | 1469.0 | 1467.8 | 1489.6 | 1476.4 |
| 10° | 1450.8 | 1460.8 | 1456.4 | 1459.7 | 1479.7 | 1466.4 |
| 12.5° | 1435.5 | 1447.2 | 1442.8 | 1447.9 | 1466.2 | 1455.6 |
| 15° | 1409.0 | 1419.0 | 1421.2 | 1423.5 | 1444.7 | 1433.7 |
| 17.5° | 1365.3 | 1370.1 | 1381.2 | 1396.8 | 1419.0 | 1406.5 |
| 20° | 1330.9 | 1337.6 | 1344.2 | 1371.5 | 1397.1 | 1383.9 |
| 22.5° | 1291.9 | 1289.6 | 1305.1 | 1337.1 | 1369.2 | 1357.7 |
| 25° | 1186.4 | 1101.2 | 1195.2 | 1277.6 | 1320.5 | 1317.2 |
| 27.5° | 826.0 | 716.8 | 813.5 | 1179.3 | 1269.4 | 1276.0 |
| 30° | 650.1 | 599.2 | 649.0 | 1052.6 | 1231.6 | 1247.1 |
| 32.5° | 577.2 | 542.3 | 572.6 | 801.2 | 1184.0 | 1213.6 |
| 35° | 498.0 | 473.7 | 498.0 | 599.2 | 1090.4 | 1158.9 |
| 37.5° | 398.7 | 348.9 | 397.8 | 517.8 | 881.4 | 1099.9 |
| 40° | 297.0 | 234.0 | 288.2 | 463.6 | 704.4 | 1053.8 |
| 42.5° | 198.0 | 150.8 | 187.3 | 365.0 | 609.3 | 992.3 |
| 45° | 107.1 | 93.8 | 102.7 | 220.5 | 497.3 | 884.2 |
| 47.5° | 84.0 | 88.9 | 84.0 | 139.1 | 380.3 | 700.3 |
| 50° | 80.6 | 96.1 | 80.6 | 107.4 | 314.7 | 530.3 |
| 52.5° | 87.9 | 104.2 | 86.9 | 84.8 | 256.8 | 392.8 |
| 55° | 99.6 | 153.8 | 100.7 | 69.0 | 188.3 | 264.6 |
| 57.5° | 141.8 | 173.0 | 143.4 | 65.4 | 145.1 | 167.8 |
| 60° | 145.6 | 186.6 | 144.5 | 69.0 | 112.2 | 124.4 |
| 62.5° | 172.3 | 230.9 | 172.1 | 78.9 | 83.4 | 102.7 |
| 65° | 220.9 | 243.1 | 223.2 | 100.6 | 59.6 | 92.7 |
| 67.5° | 209.7 | 225.5 | 207.6 | 107.9 | 41.0 | 83.7 |
| 70° | 206.0 | 218.2 | 203.9 | 123.2 | 38.0 | 70.1 |
| 72.5° | 192.2 | 193.8 | 188.3 | 114.2 | 34.3 | 58.3 |
| 75° | 149.0 | 139.1 | 143.5 | 98.4 | 34.3 | 49.7 |
| 77.5° | 92.6 | 88.6 | 89.3 | 75.1 | 30.2 | 37.3 |
| 80° | 70.1 | 67.8 | 66.7 | 63.3 | 28.3 | 28.3 |
| 82.5° | 52.0 | 49.7 | 48.6 | 48.8 | 23.7 | 21.9 |
| 85° | 23.7 | 21.5 | 20.4 | 28.3 | 16.8 | 12.4 |
| 87.5° | 5.2 | 5.2 | 4.3 | 5.2 | 6.6 | 4.5 |
| 90° | 3.4 | 3.4 | 3.4 | 3.4 | 1.1 | 0.0 |
| 92.5° | 26.7 | 18.8 | 26.7 | 80.3 | 25.1 | 6.3 |
| 95° | 96.4 | 62.2 | 96.4 | 260.0 | 57.9 | 19.2 |
| 97.5° | 275.2 | 168.9 | 275.2 | 440.5 | 75.1 | 35.7 |
| 100° | 457.6 | 297.4 | 457.6 | 502.0 | 85.0 | 47.5 |
| 102.5° | 672.1 | 514.4 | 672.1 | 491.2 | 96.0 | 60.2 |
| 105° | 852.7 | 817.3 | 852.7 | 447.7 | 111.1 | 79.1 |
| 107.5° | 871.6 | 919.3 | 871.6 | 406.4 | 127.8 | 98.1 |
| 110° | 849.9 | 938.3 | 849.9 | 385.5 | 139.5 | 110.8 |



TEST NUMBER: P855050

CATALOG NUMBER: SQ2-FA-050U-050D-830-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|--------|--------|-------|--------|-------|--------|-------|
| 112.5° | 812.5 | 924.8 | 812.5 | 373.8 | 150.4 | 123.5 |
| 115° | 751.4 | 884.0 | 751.4 | 361.8 | 167.9 | 141.3 |
| 117.5° | 692.6 | 826.4 | 692.6 | 357.1 | 184.0 | 158.7 |
| 120° | 656.3 | 785.7 | 656.3 | 356.2 | 193.9 | 169.6 |
| 122.5° | 627.3 | 747.7 | 627.3 | 356.2 | 203.9 | 180.5 |
| 125° | 589.2 | 694.1 | 589.2 | 356.2 | 218.8 | 195.6 |
| 127.5° | 559.7 | 649.1 | 559.7 | 356.2 | 231.2 | 208.9 |
| 130° | 542.3 | 622.9 | 542.3 | 356.2 | 240.3 | 217.1 |
| 132.5° | 528.5 | 601.3 | 528.5 | 355.2 | 248.4 | 225.2 |
| 135° | 506.8 | 571.0 | 506.8 | 353.9 | 259.5 | 236.3 |
| 137.5° | 486.1 | 543.4 | 486.1 | 353.7 | 271.5 | 247.2 |
| 140° | 471.5 | 523.5 | 471.5 | 352.8 | 278.7 | 254.4 |
| 142.5° | 456.9 | 505.4 | 456.9 | 353.7 | 286.8 | 263.4 |
| 145° | 437.2 | 476.0 | 437.2 | 353.9 | 296.9 | 275.9 |
| 147.5° | 419.9 | 451.6 | 419.9 | 354.1 | 306.2 | 288.3 |
| 150° | 409.9 | 435.3 | 409.9 | 355.0 | 311.7 | 297.4 |
| 152.5° | 401.6 | 422.6 | 401.6 | 355.0 | 317.1 | 304.6 |
| 155° | 390.4 | 405.9 | 390.4 | 355.0 | 325.4 | 314.3 |
| 157.5° | 383.5 | 394.1 | 383.5 | 356.2 | 332.2 | 324.7 |
| 160° | 378.9 | 387.8 | 378.9 | 356.2 | 336.7 | 330.1 |
| 162.5° | 375.3 | 381.5 | 375.3 | 356.2 | 340.4 | 335.6 |
| 165° | 369.7 | 373.1 | 369.7 | 356.2 | 345.9 | 342.6 |
| 167.5° | 365.9 | 368.8 | 365.9 | 357.3 | 350.0 | 349.1 |
| 170° | 364.1 | 365.2 | 364.1 | 357.3 | 352.8 | 352.8 |
| 172.5° | 362.3 | 362.5 | 362.3 | 357.3 | 355.5 | 354.6 |
| 175° | 360.6 | 359.5 | 360.6 | 358.4 | 357.3 | 358.4 |
| 177.5° | 360.3 | 358.6 | 360.3 | 358.6 | 358.6 | 359.5 |
| 180° | 359.5 | 359.5 | 359.5 | 359.5 | 359.5 | 359.5 |



TEST NUMBER: P855050

CATALOG NUMBER: SQ2-FA-050U-050D-830-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 | 10.94 | 11.70 | 11.93 | 12.68 | 13.97 | 9.80 | 10.55 | 10.78 | 11.54 | 12.82 |
| | 3H | 11.64 | 12.32 | 12.63 | 13.31 | 14.61 | 15.95 | 16.62 | 16.94 | 17.61 | 18.92 |
| | 4H | 12.04 | 12.68 | 13.05 | 13.68 | 15.00 | 17.22 | 17.86 | 18.23 | 18.85 | 20.17 |
| | 6H | 12.40 | 12.99 | 13.41 | 13.98 | 15.31 | 17.82 | 18.41 | 18.84 | 19.41 | 20.74 |
| | 8H | 12.51 | 13.07 | 13.53 | 14.08 | 15.41 | 17.94 | 18.50 | 18.97 | 19.52 | 20.84 |
| | 12H | 12.58 | 13.11 | 13.61 | 14.12 | 15.47 | 17.98 | 18.52 | 19.01 | 19.52 | 20.87 |
| 4H | 2H | 11.33 | 11.97 | 12.34 | 12.96 | 14.28 | 10.32 | 10.96 | 11.34 | 11.96 | 13.28 |
| | 3H | 12.32 | 12.86 | 13.34 | 13.88 | 15.21 | 16.64 | 17.18 | 17.66 | 18.20 | 19.53 |
| | 4H | 12.88 | 13.37 | 13.91 | 14.38 | 15.74 | 18.09 | 18.58 | 19.12 | 19.60 | 20.95 |
| | 6H | 13.35 | 13.77 | 14.39 | 14.81 | 16.16 | 18.83 | 19.25 | 19.86 | 20.28 | 21.63 |
| | 8H | 13.52 | 13.92 | 14.56 | 14.95 | 16.31 | 18.99 | 19.38 | 20.03 | 20.42 | 21.78 |
| | 12H | 13.64 | 13.99 | 14.69 | 15.03 | 16.40 | 19.05 | 19.40 | 20.10 | 20.45 | 21.82 |
| 8H | 4H | 13.98 | 14.37 | 15.01 | 15.40 | 16.76 | 18.21 | 18.60 | 19.25 | 19.63 | 21.00 |
| | 6H | 14.58 | 14.91 | 15.64 | 15.98 | 17.34 | 19.09 | 19.41 | 20.15 | 20.48 | 21.85 |
| | 8H | 14.82 | 15.10 | 15.89 | 16.16 | 17.54 | 19.34 | 19.62 | 20.41 | 20.68 | 22.06 |
| | 12H | 14.99 | 15.24 | 16.06 | 16.29 | 17.71 | 19.46 | 19.71 | 20.53 | 20.76 | 22.18 |
| 12H | 4H | 14.12 | 14.47 | 15.17 | 15.52 | 16.88 | 18.17 | 18.52 | 19.22 | 19.57 | 20.94 |
| | 6H | 14.86 | 15.14 | 15.93 | 16.20 | 17.58 | 19.10 | 19.38 | 20.17 | 20.44 | 21.82 |
| | 8H | 15.16 | 15.40 | 16.22 | 16.45 | 17.88 | 19.38 | 19.62 | 20.45 | 20.68 | 22.10 |