

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: PORTFOLIO

Report Number: P1324784

Luminaire Tested: LDSQA3D05R30W2N902765DE010 3LSQCA45R 1MW\_3000K

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1324784  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-76)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D05R30W2N902765DE010 3LSQCA45R 1MW\_3000K  
Description: 3in Adjustable Tunable White LED luminaire with, R30 optic, 3000K CCT AND, 90CRI ,  
3LSQCA45R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

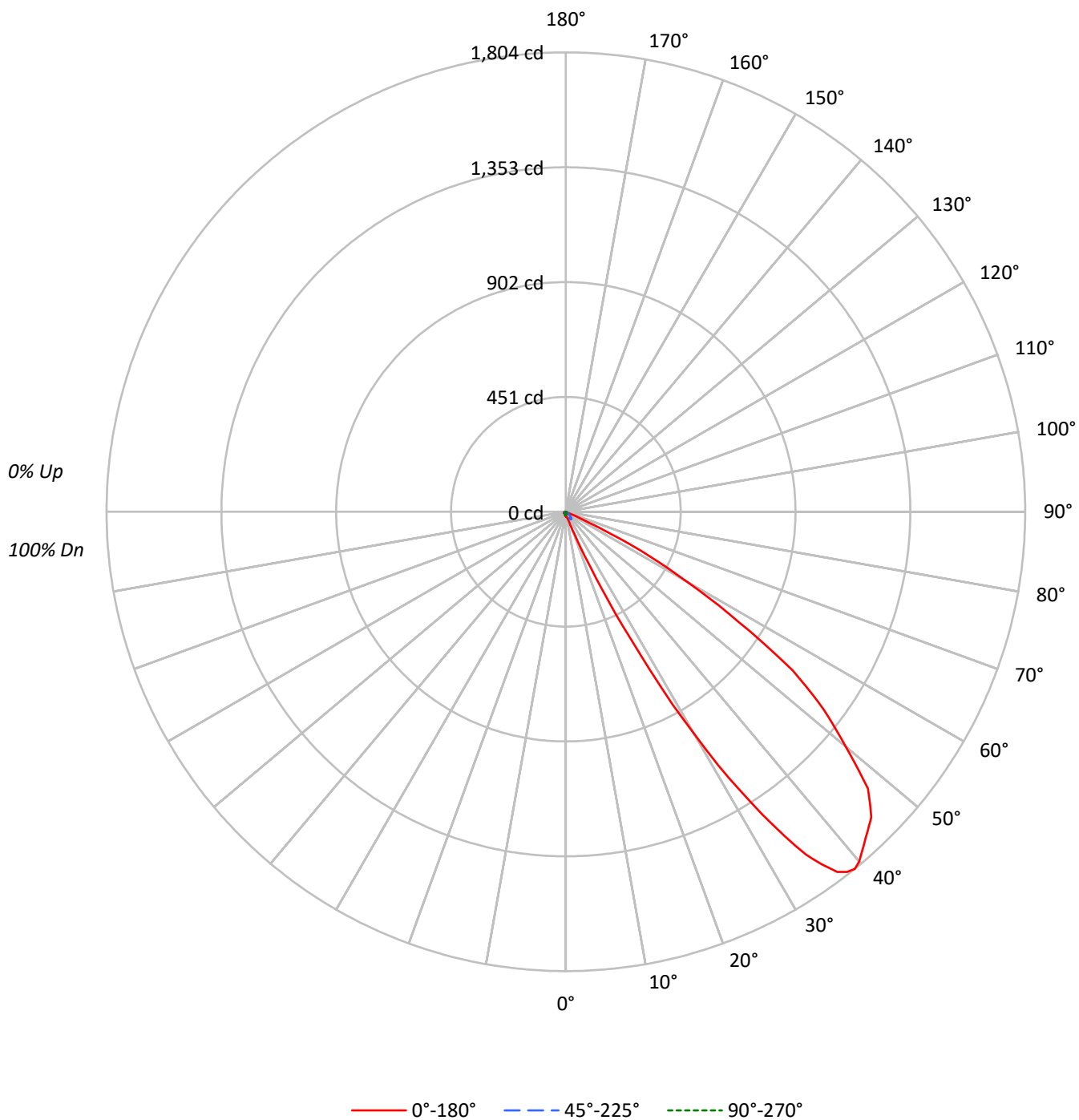
Lumens per Lamp: N/A  
Luminaire Lumens: 469.0 lumens  
Efficiency: N/A  
Efficacy: 79.5 lumens/watt  
Spacing Criteria (0/90/45): 4.07 / 0.66 / 1.44  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 5.9  
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: P1324784

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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| RF  | 20  |     |     |     | 20  |     |     |     |     | 20  |     |     |     |     | 20  |     |     |     | 20  |
| RC  | 80  |     |     |     | 70  |     |     |     |     | 50  |     |     |     |     | 30  |     |     |     | 10  |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | 100 |
| 1   | 110 | 106 | 102 | 99  | 108 | 104 | 100 | 97  | 100 | 97  | 94  | 96  | 93  | 91  | 92  | 90  | 89  | 87  | 87  |
| 2   | 100 | 93  | 86  | 81  | 98  | 91  | 85  | 80  | 87  | 83  | 78  | 84  | 80  | 77  | 81  | 78  | 75  | 73  | 73  |
| 3   | 91  | 81  | 73  | 67  | 89  | 79  | 72  | 66  | 76  | 70  | 65  | 74  | 68  | 64  | 71  | 67  | 63  | 61  | 61  |
| 4   | 83  | 71  | 62  | 55  | 80  | 69  | 61  | 55  | 67  | 60  | 54  | 64  | 58  | 53  | 62  | 57  | 52  | 50  | 50  |
| 5   | 75  | 62  | 52  | 46  | 73  | 60  | 52  | 45  | 58  | 51  | 45  | 56  | 50  | 44  | 54  | 49  | 44  | 42  | 42  |
| 6   | 68  | 54  | 45  | 38  | 66  | 53  | 44  | 38  | 51  | 43  | 37  | 49  | 42  | 37  | 48  | 42  | 37  | 35  | 35  |
| 7   | 62  | 48  | 38  | 32  | 60  | 47  | 38  | 32  | 45  | 37  | 31  | 44  | 36  | 31  | 42  | 36  | 31  | 29  | 29  |
| 8   | 56  | 42  | 33  | 27  | 55  | 41  | 33  | 27  | 40  | 32  | 26  | 39  | 32  | 26  | 37  | 31  | 26  | 24  | 24  |
| 9   | 52  | 37  | 29  | 23  | 50  | 37  | 28  | 23  | 36  | 28  | 22  | 34  | 27  | 22  | 33  | 27  | 22  | 20  | 20  |
| 10  | 48  | 33  | 25  | 19  | 46  | 33  | 25  | 19  | 32  | 24  | 19  | 31  | 24  | 19  | 30  | 24  | 19  | 17  | 17  |

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

|     | 0°     | 45°  | 90°  | 135° | 180° |
|-----|--------|------|------|------|------|
| 0°  | 3134   | 3134 | 3134 | 3134 | 3134 |
| 5°  | 3354   | 3285 | 3077 | 2801 | 2732 |
| 10° | 3655   | 3253 | 2693 | 2413 | 2343 |
| 15° | 5349   | 3245 | 2247 | 2050 | 2122 |
| 20° | 13471  | 3556 | 1741 | 1741 | 1961 |
| 25° | 62538  | 4428 | 1349 | 1577 | 1805 |
| 30° | 199084 | 6125 | 1014 | 1491 | 1810 |
| 35° | 345454 | 7485 | 841  | 1409 | 1829 |
| 40° | 402879 | 7464 | 629  | 1416 | 1866 |
| 45° | 413174 | 5285 | 682  | 1534 | 2022 |
| 50° | 384240 | 2974 | 536  | 1581 | 2331 |
| 55° | 326564 | 1531 | 601  | 1772 | 2612 |
| 60° | 188618 | 413  | 689  | 1894 | 2859 |
| 65° | 38469  | 0    | 815  | 2241 | 3219 |
| 70° | 604    | 201  | 1007 | 2568 | 3777 |
| 75° | 532    | 266  | 1065 | 2662 | 4458 |
| 80° | 397    | 397  | 1587 | 3174 | 5058 |
| 85° | 0      | 790  | 3162 | 3162 | 6323 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 413174 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1.6    | 0.4       |
| 10°-20°   | 4.7    | 1.0       |
| 20°-30°   | 27.0   | 5.8       |
| 30°-40°   | 126.3  | 26.9      |
| 40°-50°   | 178.6  | 38.1      |
| 50°-60°   | 109.9  | 23.4      |
| 60°-70°   | 16.7   | 3.6       |
| 70°-80°   | 2.7    | 0.6       |
| 80°-90°   | 1.3    | 0.3       |
| 90°-100°  | 0.0    | 0.0       |
| 100°-110° | 0.0    | 0.0       |
| 110°-120° | 0.0    | 0.0       |
| 120°-130° | 0.0    | 0.0       |
| 130°-140° | 0.0    | 0.0       |
| 140°-150° | 0.0    | 0.0       |
| 150°-160° | 0.0    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-30°    | 33.4   | 7.1       |
| 0°-40°    | 159.7  | 34.1      |
| 0°-60°    | 448.3  | 95.6      |
| 0°-90°    | 469.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 469.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 18   | 18  | 18  | 18   | 18   |      |
| 5°  | 19   | 19  | 18  | 16   | 16   | 2    |
| 15° | 30   | 18  | 13  | 12   | 12   | 11   |
| 25° | 329  | 23  | 7   | 8    | 10   | 203  |
| 35° | 1643 | 36  | 4   | 7    | 9    | 986  |
| 45° | 1696 | 22  | 3   | 6    | 8    | 1286 |
| 55° | 1088 | 5   | 2   | 6    | 9    | 925  |
| 65° | 94   | 0   | 2   | 6    | 8    | 171  |
| 75° | 1    | 0   | 2   | 4    | 7    | 1    |
| 85° | 0    | 0   | 2   | 2    | 3    | 0    |
| 90° | 0    | 0   | 0   | 0    | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 22.5° | 45°  | 67.5° | 90°  | 112.5° | 135° |
|-------|--------|--------|--------|--------|--------|-------|------|-------|------|--------|------|
| 0°    | 18.2   | 18.2   | 18.2   | 18.2   | 18.2   | 18.2  | 18.2 | 18.2  | 18.2 | 18.2   | 18.2 |
| 2.5°  | 18.6   | 18.6   | 19.0   | 19.0   | 18.6   | 19.0  | 19.0 | 19.0  | 18.2 | 17.8   | 17.0 |
| 5°    | 19.4   | 19.4   | 19.4   | 19.8   | 19.4   | 19.4  | 19.0 | 18.6  | 17.8 | 16.6   | 16.2 |
| 7.5°  | 20.1   | 20.1   | 19.8   | 20.1   | 19.8   | 19.8  | 19.0 | 18.2  | 17.0 | 15.8   | 15.0 |
| 10°   | 20.9   | 20.9   | 20.5   | 20.5   | 20.1   | 20.1  | 18.6 | 17.4  | 15.4 | 14.2   | 13.8 |
| 12.5° | 23.3   | 23.3   | 22.9   | 22.5   | 21.7   | 21.3  | 18.2 | 16.2  | 13.8 | 12.6   | 12.2 |
| 15°   | 30.0   | 29.6   | 28.8   | 27.7   | 25.7   | 25.3  | 18.2 | 15.0  | 12.6 | 11.5   | 11.5 |
| 17.5° | 41.1   | 40.7   | 39.5   | 36.3   | 32.8   | 31.6  | 18.2 | 13.4  | 11.1 | 10.3   | 10.3 |
| 20°   | 73.5   | 70.3   | 64.4   | 56.5   | 48.2   | 43.9  | 19.4 | 11.9  | 9.5  | 9.1    | 9.5  |
| 21°   | 96.0   | 92.8   | 85.3   | 72.3   | 57.7   | 52.9  | 20.1 | 11.5  | 9.1  | 8.7    | 9.5  |
| 22°   | 130.8  | 127.2  | 111.8  | 94.0   | 73.1   | 64.8  | 20.5 | 10.7  | 8.3  | 8.3    | 9.1  |
| 23°   | 182.5  | 176.6  | 150.5  | 122.1  | 91.3   | 79.4  | 21.3 | 10.3  | 7.9  | 8.3    | 8.7  |
| 24°   | 239.0  | 233.9  | 204.2  | 161.6  | 116.5  | 99.6  | 22.1 | 9.9   | 7.5  | 7.5    | 8.3  |
| 25°   | 329.1  | 323.2  | 270.6  | 203.9  | 147.8  | 119.7 | 23.3 | 9.1   | 7.1  | 7.1    | 8.3  |
| 26°   | 445.6  | 418.4  | 348.4  | 262.7  | 182.1  | 150.1 | 24.5 | 8.7   | 6.7  | 7.1    | 7.9  |
| 27°   | 556.3  | 533.7  | 455.1  | 337.0  | 225.2  | 184.5 | 26.1 | 8.3   | 6.3  | 6.7    | 7.9  |
| 28°   | 701.6  | 670.0  | 570.9  | 426.3  | 283.7  | 223.2 | 27.7 | 7.9   | 5.9  | 6.7    | 7.5  |
| 29°   | 864.4  | 820.2  | 700.5  | 526.6  | 349.6  | 266.7 | 29.2 | 7.5   | 5.5  | 6.3    | 7.5  |
| 30°   | 1001.1 | 959.6  | 839.9  | 645.5  | 425.5  | 324.0 | 30.8 | 7.1   | 5.1  | 6.3    | 7.5  |
| 31°   | 1161.5 | 1098.7 | 953.7  | 746.3  | 490.7  | 381.2 | 32.4 | 6.3   | 4.7  | 5.9    | 7.1  |
| 32°   | 1291.5 | 1247.6 | 1093.5 | 860.1  | 576.4  | 444.4 | 33.6 | 5.9   | 4.7  | 5.9    | 7.1  |
| 33°   | 1417.1 | 1358.2 | 1209.3 | 969.1  | 653.8  | 509.2 | 34.8 | 5.5   | 4.3  | 5.5    | 7.1  |
| 34°   | 1537.2 | 1483.1 | 1318.7 | 1057.2 | 726.9  | 570.9 | 35.6 | 4.7   | 4.3  | 5.5    | 6.7  |
| 35°   | 1643.1 | 1580.3 | 1415.1 | 1143.3 | 802.0  | 627.0 | 35.6 | 4.3   | 4.0  | 5.1    | 6.7  |
| 36°   | 1711.8 | 1666.8 | 1498.9 | 1228.3 | 869.9  | 680.3 | 35.6 | 4.0   | 3.6  | 5.1    | 6.3  |
| 37°   | 1770.7 | 1718.1 | 1566.0 | 1293.4 | 920.1  | 723.0 | 35.6 | 3.6   | 3.6  | 5.1    | 6.3  |
| 38°   | 1794.8 | 1749.7 | 1612.3 | 1351.1 | 967.1  | 766.4 | 35.2 | 3.2   | 3.2  | 4.7    | 6.3  |
| 39°   | 1804.3 | 1764.0 | 1647.0 | 1392.6 | 1001.9 | 795.7 | 34.4 | 2.8   | 3.2  | 4.7    | 6.3  |
| 40°   | 1792.0 | 1761.6 | 1664.8 | 1419.5 | 1029.5 | 817.0 | 33.2 | 2.4   | 2.8  | 4.7    | 6.3  |
| 42.5° | 1741.5 | 1721.3 | 1660.9 | 1446.3 | 1053.2 | 832.8 | 28.8 | 1.6   | 2.8  | 4.3    | 6.3  |
| 45°   | 1696.4 | 1674.3 | 1621.0 | 1418.3 | 1022.4 | 801.6 | 21.7 | 0.8   | 2.8  | 4.3    | 6.3  |
| 47.5° | 1609.1 | 1595.3 | 1553.4 | 1346.8 | 954.9  | 731.3 | 15.4 | 0.4   | 2.4  | 4.0    | 5.9  |
| 50°   | 1434.1 | 1421.1 | 1365.7 | 1169.4 | 821.3  | 618.3 | 11.1 | 0.4   | 2.0  | 4.0    | 5.9  |
| 52.5° | 1277.2 | 1263.4 | 1184.0 | 972.3  | 630.9  | 453.1 | 7.1  | 0.4   | 2.0  | 4.0    | 5.9  |
| 55°   | 1087.6 | 1063.5 | 959.2  | 738.0  | 447.2  | 303.8 | 5.1  | 0.4   | 2.0  | 3.6    | 5.9  |
| 57.5° | 805.1  | 770.0  | 676.7  | 503.3  | 257.6  | 164.7 | 2.8  | 0.4   | 2.0  | 3.6    | 5.9  |
| 60°   | 547.6  | 526.6  | 423.5  | 265.5  | 109.8  | 69.5  | 1.2  | 0.4   | 2.0  | 3.6    | 5.5  |
| 62.5° | 331.9  | 305.4  | 212.9  | 113.0  | 47.4   | 31.6  | 0.0  | 0.8   | 2.0  | 3.6    | 5.5  |
| 65°   | 94.4   | 83.8   | 55.7   | 25.7   | 13.4   | 10.3  | 0.0  | 0.8   | 2.0  | 3.6    | 5.5  |
| 67.5° | 3.2    | 3.2    | 3.2    | 2.8    | 2.0    | 2.0   | 0.4  | 0.8   | 2.0  | 3.6    | 5.1  |
| 70°   | 1.2    | 1.2    | 1.2    | 0.8    | 0.8    | 0.4   | 0.4  | 0.8   | 2.0  | 3.2    | 5.1  |
| 72.5° | 0.8    | 0.8    | 0.8    | 0.8    | 0.4    | 0.4   | 0.4  | 0.8   | 1.6  | 2.8    | 4.7  |
| 75°   | 0.8    | 0.8    | 0.8    | 0.4    | 0.4    | 0.4   | 0.4  | 1.2   | 1.6  | 2.8    | 4.0  |
| 77.5° | 0.8    | 0.8    | 0.8    | 0.4    | 0.4    | 0.4   | 0.4  | 1.2   | 1.6  | 2.4    | 4.0  |
| 80°   | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4   | 0.4  | 1.2   | 1.6  | 2.4    | 3.2  |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 5°  | 10° | 15° | 20° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° |
|-------|-----|-----|-----|-----|-----|-------|-----|-------|-----|--------|------|
| 82.5° | 0.4 | 0.4 | 0.4 | 0.0 | 0.0 | 0.0   | 0.4 | 1.2   | 1.6 | 1.6    | 2.4  |
| 85°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.4 | 1.2   | 1.6 | 1.2    | 1.6  |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.4 | 1.2   | 1.2 | 1.2    | 0.8  |
| 90°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    | 0.0  |



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**CANDELA DISTRIBUTION (continued):**

|       | 157.5° | 180° |
|-------|--------|------|
| 0°    | 18.2   | 18.2 |
| 2.5°  | 17.0   | 17.0 |
| 5°    | 15.8   | 15.8 |
| 7.5°  | 14.6   | 14.6 |
| 10°   | 13.4   | 13.4 |
| 12.5° | 12.6   | 12.6 |
| 15°   | 11.5   | 11.9 |
| 17.5° | 10.7   | 11.1 |
| 20°   | 10.3   | 10.7 |
| 21°   | 10.3   | 10.7 |
| 22°   | 9.9    | 10.3 |
| 23°   | 9.9    | 10.3 |
| 24°   | 9.5    | 9.9  |
| 25°   | 9.1    | 9.5  |
| 26°   | 9.1    | 9.5  |
| 27°   | 9.1    | 9.5  |
| 28°   | 8.7    | 9.5  |
| 29°   | 8.7    | 9.1  |
| 30°   | 8.7    | 9.1  |
| 31°   | 8.3    | 9.1  |
| 32°   | 8.3    | 9.1  |
| 33°   | 8.3    | 8.7  |
| 34°   | 7.9    | 8.7  |
| 35°   | 7.9    | 8.7  |
| 36°   | 7.9    | 8.7  |
| 37°   | 7.9    | 8.3  |
| 38°   | 7.9    | 8.7  |
| 39°   | 7.9    | 8.3  |
| 40°   | 7.9    | 8.3  |
| 42.5° | 7.9    | 8.3  |
| 45°   | 7.9    | 8.3  |
| 47.5° | 7.9    | 8.7  |
| 50°   | 7.9    | 8.7  |
| 52.5° | 7.9    | 8.7  |
| 55°   | 7.9    | 8.7  |
| 57.5° | 7.9    | 8.3  |
| 60°   | 7.9    | 8.3  |
| 62.5° | 7.5    | 8.3  |
| 65°   | 7.5    | 7.9  |
| 67.5° | 7.5    | 7.9  |
| 70°   | 7.1    | 7.5  |
| 72.5° | 6.7    | 7.1  |
| 75°   | 5.9    | 6.7  |
| 77.5° | 5.5    | 5.9  |
| 80°   | 4.7    | 5.1  |

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CATALOG NUMBER: LDSQA3D05R30W2N902765DE010 3LSQCA45R 1MW\_3000K

**CANDELA DISTRIBUTION (continued):**

|       | 157.5° | 180° |
|-------|--------|------|
| 82.5° | 4.0    | 4.0  |
| 85°   | 2.8    | 3.2  |
| 87.5° | 1.6    | 1.6  |
| 90°   | 0.0    | 0.0  |

(END OF REPORT)