

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: P1324695

Luminaire Tested: LDSQA3D05R30W2N902750DE010 3LSQCA45R 1MW\_3500K

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1324695  
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: LDSQA3D05R30W2N902750DE010 3LSQCA45R 1MW\_3500K  
Description: 3in Adjustable Tunable White LED luminaire with, R30 optic, 3500K CCT AND, 90CRI ,  
3LSQCA45R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

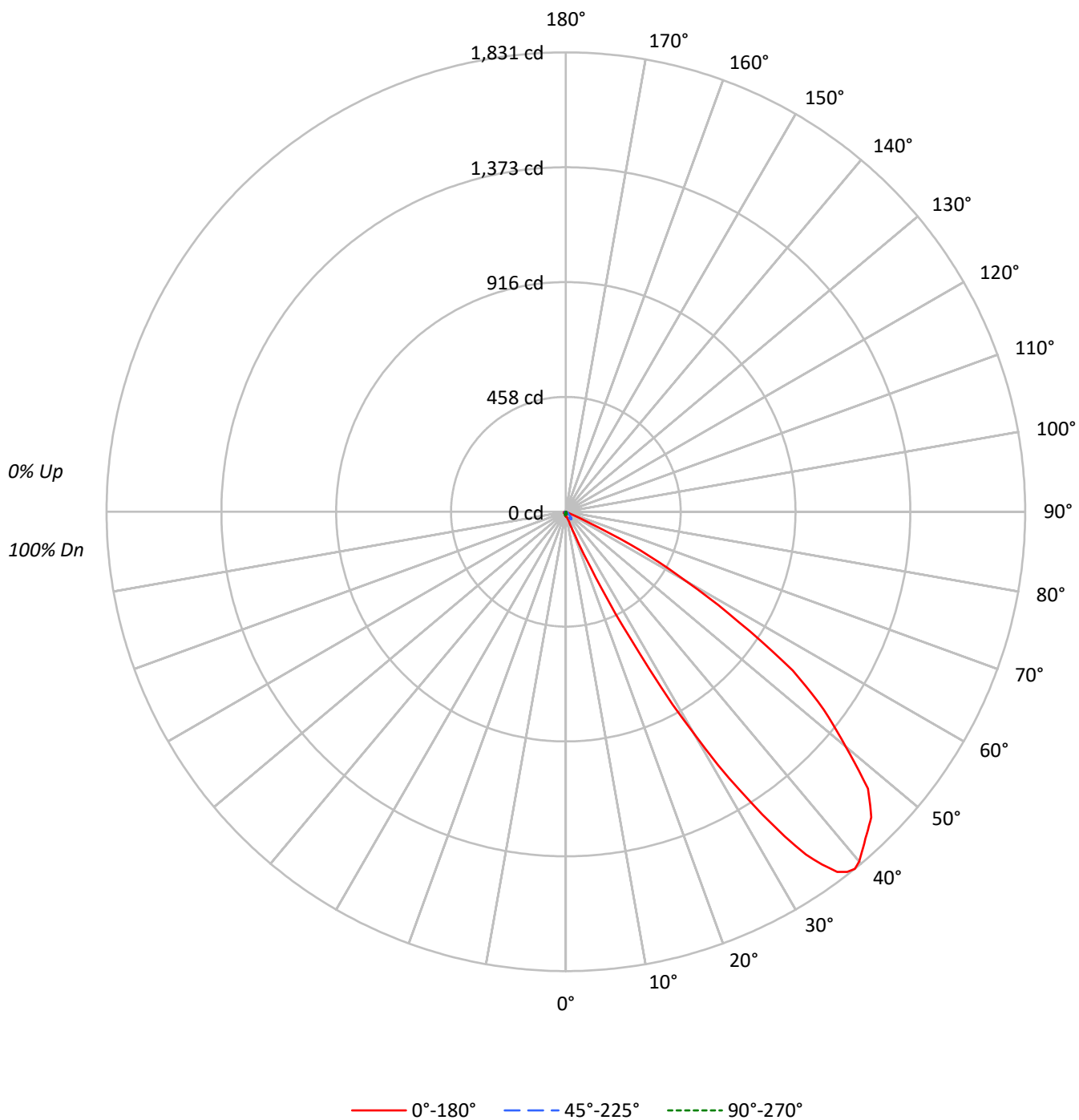
Lumens per Lamp: N/A  
Luminaire Lumens: 475.9 lumens  
Efficiency: N/A  
Efficacy: 80.7 lumens/watt  
Spacing Criteria (0/90/45): 4.07 / 0.66 / 1.44  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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

TEST NUMBER: P1324695

CATALOG NUMBER: LDSQA3D05R30W2N902750DE010 3LSQCA45R 1MW\_3500K

### Luminous Intensity Polar Plot



TEST NUMBER: P1324695

CATALOG NUMBER: LDSQA3D05R30W2N902750DE010 3LSQCA45R 1MW\_3500K

**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°  | 3169   | 3169 | 3169 | 3169 | 3169 |
| 5°  | 3388   | 3319 | 3112 | 2835 | 2766 |
| 10° | 3725   | 3288 | 2728 | 2448 | 2378 |
| 15° | 5438   | 3281 | 2282 | 2068 | 2140 |
| 20° | 13672  | 3592 | 1759 | 1759 | 1979 |
| 25° | 63469  | 4504 | 1368 | 1596 | 1824 |
| 30° | 202047 | 6224 | 1034 | 1511 | 1830 |
| 35° | 350605 | 7590 | 841  | 1430 | 1850 |
| 40° | 408904 | 7576 | 629  | 1439 | 1888 |
| 45° | 419337 | 5383 | 682  | 1559 | 2046 |
| 50° | 389973 | 3001 | 536  | 1608 | 2358 |
| 55° | 331428 | 1561 | 601  | 1802 | 2642 |
| 60° | 191408 | 413  | 689  | 1929 | 2893 |
| 65° | 39040  | 0    | 815  | 2282 | 3260 |
| 70° | 604    | 201  | 1007 | 2618 | 3827 |
| 75° | 532    | 266  | 1065 | 2662 | 4525 |
| 80° | 397    | 397  | 1587 | 3174 | 5157 |
| 85° | 0      | 790  | 3162 | 3162 | 6323 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 419337 cd/sqm

TEST NUMBER: P1324695

CATALOG NUMBER: LDSQA3D05R30W2N902750DE010 3LSQCA45R 1MW\_3500K

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1.7    | 0.3       |
| 10°-20°   | 4.8    | 1.0       |
| 20°-30°   | 27.4   | 5.8       |
| 30°-40°   | 128.2  | 26.9      |
| 40°-50°   | 181.3  | 38.1      |
| 50°-60°   | 111.5  | 23.4      |
| 60°-70°   | 17.0   | 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°    | 33.9   | 7.1       |
| 0°-40°    | 162.1  | 34.1      |
| 0°-60°    | 454.9  | 95.6      |
| 0°-90°    | 475.9  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 475.9  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 18   | 18  | 18  | 18   | 18   |      |
| 5°  | 20   | 19  | 18  | 16   | 16   | 2    |
| 15° | 30   | 18  | 13  | 12   | 12   | 11   |
| 25° | 334  | 24  | 7   | 8    | 10   | 206  |
| 35° | 1668 | 36  | 4   | 7    | 9    | 1001 |
| 45° | 1722 | 22  | 3   | 6    | 8    | 1305 |
| 55° | 1104 | 5   | 2   | 6    | 9    | 939  |
| 65° | 96   | 0   | 2   | 6    | 8    | 173  |
| 75° | 1    | 0   | 2   | 4    | 7    | 1    |
| 85° | 0    | 0   | 2   | 2    | 3    | 0    |
| 90° | 0    | 0   | 0   | 0    | 0    |      |

TEST NUMBER: P1324695

CATALOG NUMBER: LDSQA3D05R30W2N902750DE010 3LSQCA45R 1MW\_3500K

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 22.5° | 45°  | 67.5° | 90°  | 112.5° | 135° |
|-------|--------|--------|--------|--------|--------|-------|------|-------|------|--------|------|
| 0°    | 18.4   | 18.4   | 18.4   | 18.4   | 18.4   | 18.4  | 18.4 | 18.4  | 18.4 | 18.4   | 18.4 |
| 2.5°  | 18.8   | 18.8   | 19.2   | 19.2   | 18.8   | 19.2  | 19.2 | 19.2  | 18.4 | 18.0   | 17.2 |
| 5°    | 19.6   | 19.6   | 19.6   | 20.0   | 19.6   | 19.6  | 19.2 | 18.8  | 18.0 | 16.8   | 16.4 |
| 7.5°  | 20.4   | 20.4   | 20.0   | 20.4   | 20.0   | 20.0  | 19.2 | 18.4  | 17.2 | 16.0   | 15.2 |
| 10°   | 21.3   | 21.3   | 20.9   | 20.9   | 20.4   | 20.4  | 18.8 | 17.6  | 15.6 | 14.4   | 14.0 |
| 12.5° | 23.7   | 23.7   | 23.3   | 22.9   | 22.1   | 21.7  | 18.4 | 16.4  | 14.0 | 12.8   | 12.4 |
| 15°   | 30.5   | 30.1   | 29.3   | 28.1   | 26.1   | 25.7  | 18.4 | 15.2  | 12.8 | 11.6   | 11.6 |
| 17.5° | 41.7   | 41.3   | 40.1   | 36.9   | 33.3   | 32.1  | 18.4 | 13.6  | 11.2 | 10.4   | 10.4 |
| 20°   | 74.6   | 71.4   | 65.4   | 57.3   | 48.9   | 44.5  | 19.6 | 12.0  | 9.6  | 9.2    | 9.6  |
| 21°   | 97.4   | 94.2   | 86.6   | 73.4   | 58.5   | 53.7  | 20.4 | 11.6  | 9.2  | 8.8    | 9.6  |
| 22°   | 132.7  | 129.1  | 113.5  | 95.4   | 74.2   | 65.8  | 20.9 | 10.8  | 8.4  | 8.4    | 9.2  |
| 23°   | 185.2  | 179.2  | 152.8  | 123.9  | 92.6   | 80.6  | 21.7 | 10.4  | 8.0  | 8.4    | 8.8  |
| 24°   | 242.6  | 237.4  | 207.3  | 164.0  | 118.3  | 101.0 | 22.5 | 10.0  | 7.6  | 7.6    | 8.4  |
| 25°   | 334.0  | 328.0  | 274.7  | 206.9  | 150.0  | 121.5 | 23.7 | 9.2   | 7.2  | 7.2    | 8.4  |
| 26°   | 452.3  | 424.6  | 353.6  | 266.6  | 184.8  | 152.4 | 24.9 | 8.8   | 6.8  | 7.2    | 8.0  |
| 27°   | 564.6  | 541.7  | 461.9  | 342.0  | 228.5  | 187.2 | 26.5 | 8.4   | 6.4  | 6.8    | 8.0  |
| 28°   | 712.1  | 680.0  | 579.4  | 432.6  | 287.9  | 226.5 | 28.1 | 8.0   | 6.0  | 6.8    | 7.6  |
| 29°   | 877.3  | 832.4  | 710.9  | 534.5  | 354.9  | 270.6 | 29.7 | 7.6   | 5.6  | 6.4    | 7.6  |
| 30°   | 1016.0 | 973.9  | 852.4  | 655.2  | 431.8  | 328.8 | 31.3 | 7.2   | 5.2  | 6.4    | 7.6  |
| 31°   | 1178.8 | 1115.1 | 967.9  | 757.4  | 498.0  | 386.9 | 32.9 | 6.4   | 4.8  | 6.0    | 7.2  |
| 32°   | 1310.7 | 1266.2 | 1109.9 | 872.9  | 585.0  | 451.1 | 34.1 | 6.0   | 4.8  | 6.0    | 7.2  |
| 33°   | 1438.3 | 1378.5 | 1227.3 | 983.6  | 663.6  | 516.8 | 35.3 | 5.6   | 4.4  | 5.6    | 7.2  |
| 34°   | 1560.1 | 1505.2 | 1338.4 | 1073.0 | 737.8  | 579.4 | 36.1 | 4.8   | 4.4  | 5.6    | 6.8  |
| 35°   | 1667.6 | 1603.8 | 1436.2 | 1160.4 | 814.0  | 636.3 | 36.1 | 4.4   | 4.0  | 5.2    | 6.8  |
| 36°   | 1737.4 | 1691.7 | 1521.3 | 1246.6 | 882.9  | 690.5 | 36.1 | 4.0   | 3.6  | 5.2    | 6.4  |
| 37°   | 1797.1 | 1743.8 | 1589.4 | 1312.8 | 933.8  | 733.8 | 36.1 | 3.6   | 3.6  | 5.2    | 6.4  |
| 38°   | 1821.6 | 1775.9 | 1636.3 | 1371.3 | 981.6  | 777.9 | 35.7 | 3.2   | 3.2  | 4.8    | 6.4  |
| 39°   | 1831.2 | 1790.3 | 1671.6 | 1413.4 | 1016.8 | 807.5 | 34.9 | 2.8   | 3.2  | 4.8    | 6.4  |
| 40°   | 1818.8 | 1787.9 | 1689.7 | 1440.7 | 1044.9 | 829.2 | 33.7 | 2.4   | 2.8  | 4.8    | 6.4  |
| 42.5° | 1767.4 | 1747.0 | 1685.6 | 1467.9 | 1069.0 | 845.2 | 29.3 | 1.6   | 2.8  | 4.4    | 6.4  |
| 45°   | 1721.7 | 1699.3 | 1645.1 | 1439.5 | 1037.7 | 813.6 | 22.1 | 0.8   | 2.8  | 4.4    | 6.4  |
| 47.5° | 1633.1 | 1619.1 | 1576.6 | 1366.9 | 969.1  | 742.2 | 15.6 | 0.4   | 2.4  | 4.0    | 6.0  |
| 50°   | 1455.5 | 1442.3 | 1386.1 | 1186.8 | 833.6  | 627.5 | 11.2 | 0.4   | 2.0  | 4.0    | 6.0  |
| 52.5° | 1296.3 | 1282.3 | 1201.7 | 986.8  | 640.3  | 459.9 | 7.2  | 0.4   | 2.0  | 4.0    | 6.0  |
| 55°   | 1103.8 | 1079.4 | 973.5  | 749.0  | 453.9  | 308.3 | 5.2  | 0.4   | 2.0  | 3.6    | 6.0  |
| 57.5° | 817.2  | 781.5  | 686.8  | 510.8  | 261.4  | 167.2 | 2.8  | 0.4   | 2.0  | 3.6    | 6.0  |
| 60°   | 555.7  | 534.5  | 429.8  | 269.4  | 111.5  | 70.6  | 1.2  | 0.4   | 2.0  | 3.6    | 5.6  |
| 62.5° | 336.8  | 309.9  | 216.1  | 114.7  | 48.1   | 32.1  | 0.0  | 0.8   | 2.0  | 3.6    | 5.6  |
| 65°   | 95.8   | 85.0   | 56.5   | 26.1   | 13.6   | 10.4  | 0.0  | 0.8   | 2.0  | 3.6    | 5.6  |
| 67.5° | 3.2    | 3.2    | 3.2    | 2.8    | 2.0    | 2.0   | 0.4  | 0.8   | 2.0  | 3.6    | 5.2  |
| 70°   | 1.2    | 1.2    | 1.2    | 0.8    | 0.8    | 0.4   | 0.4  | 0.8   | 2.0  | 3.2    | 5.2  |
| 72.5° | 0.8    | 0.8    | 0.8    | 0.8    | 0.4    | 0.4   | 0.4  | 0.8   | 1.6  | 2.8    | 4.8  |
| 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  |



TEST NUMBER: P1324695

CATALOG NUMBER: LDSQA3D05R30W2N902750DE010 3LSQCA45R 1MW\_3500K

**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  |



TEST NUMBER: P1324695

CATALOG NUMBER: LDSQA3D05R30W2N902750DE010 3LSQCA45R 1MW\_3500K

**CANDELA DISTRIBUTION (continued):**

|       | 157.5° | 180° |
|-------|--------|------|
| 0°    | 18.4   | 18.4 |
| 2.5°  | 17.2   | 17.2 |
| 5°    | 16.0   | 16.0 |
| 7.5°  | 14.8   | 14.8 |
| 10°   | 13.6   | 13.6 |
| 12.5° | 12.8   | 12.8 |
| 15°   | 11.6   | 12.0 |
| 17.5° | 10.8   | 11.2 |
| 20°   | 10.4   | 10.8 |
| 21°   | 10.4   | 10.8 |
| 22°   | 10.0   | 10.4 |
| 23°   | 10.0   | 10.4 |
| 24°   | 9.6    | 10.0 |
| 25°   | 9.2    | 9.6  |
| 26°   | 9.2    | 9.6  |
| 27°   | 9.2    | 9.6  |
| 28°   | 8.8    | 9.6  |
| 29°   | 8.8    | 9.2  |
| 30°   | 8.8    | 9.2  |
| 31°   | 8.4    | 9.2  |
| 32°   | 8.4    | 9.2  |
| 33°   | 8.4    | 8.8  |
| 34°   | 8.0    | 8.8  |
| 35°   | 8.0    | 8.8  |
| 36°   | 8.0    | 8.8  |
| 37°   | 8.0    | 8.4  |
| 38°   | 8.0    | 8.8  |
| 39°   | 8.0    | 8.4  |
| 40°   | 8.0    | 8.4  |
| 42.5° | 8.0    | 8.4  |
| 45°   | 8.0    | 8.4  |
| 47.5° | 8.0    | 8.8  |
| 50°   | 8.0    | 8.8  |
| 52.5° | 8.0    | 8.8  |
| 55°   | 8.0    | 8.8  |
| 57.5° | 8.0    | 8.4  |
| 60°   | 8.0    | 8.4  |
| 62.5° | 7.6    | 8.4  |
| 65°   | 7.6    | 8.0  |
| 67.5° | 7.6    | 8.0  |
| 70°   | 7.2    | 7.6  |
| 72.5° | 6.8    | 7.2  |
| 75°   | 6.0    | 6.8  |
| 77.5° | 5.6    | 6.0  |
| 80°   | 4.8    | 5.2  |



TEST NUMBER: P1324695

CATALOG NUMBER: LDSQA3D05R30W2N902750DE010 3LSQCA45R 1MW\_3500K

**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)