

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: P1327636

Luminaire Tested: LDSQA3D13R20W2N902765DE010 3LSQCA45R 1MW\_4000K

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1327636  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-74)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D13R20W2N902765DE010 3LSQCA45R 1MW\_4000K  
Description: 3in Adjustable Tunable White LED luminaire with, R20 optic, 4000K CCT AND, 90CRI ,  
3LSQCA45R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

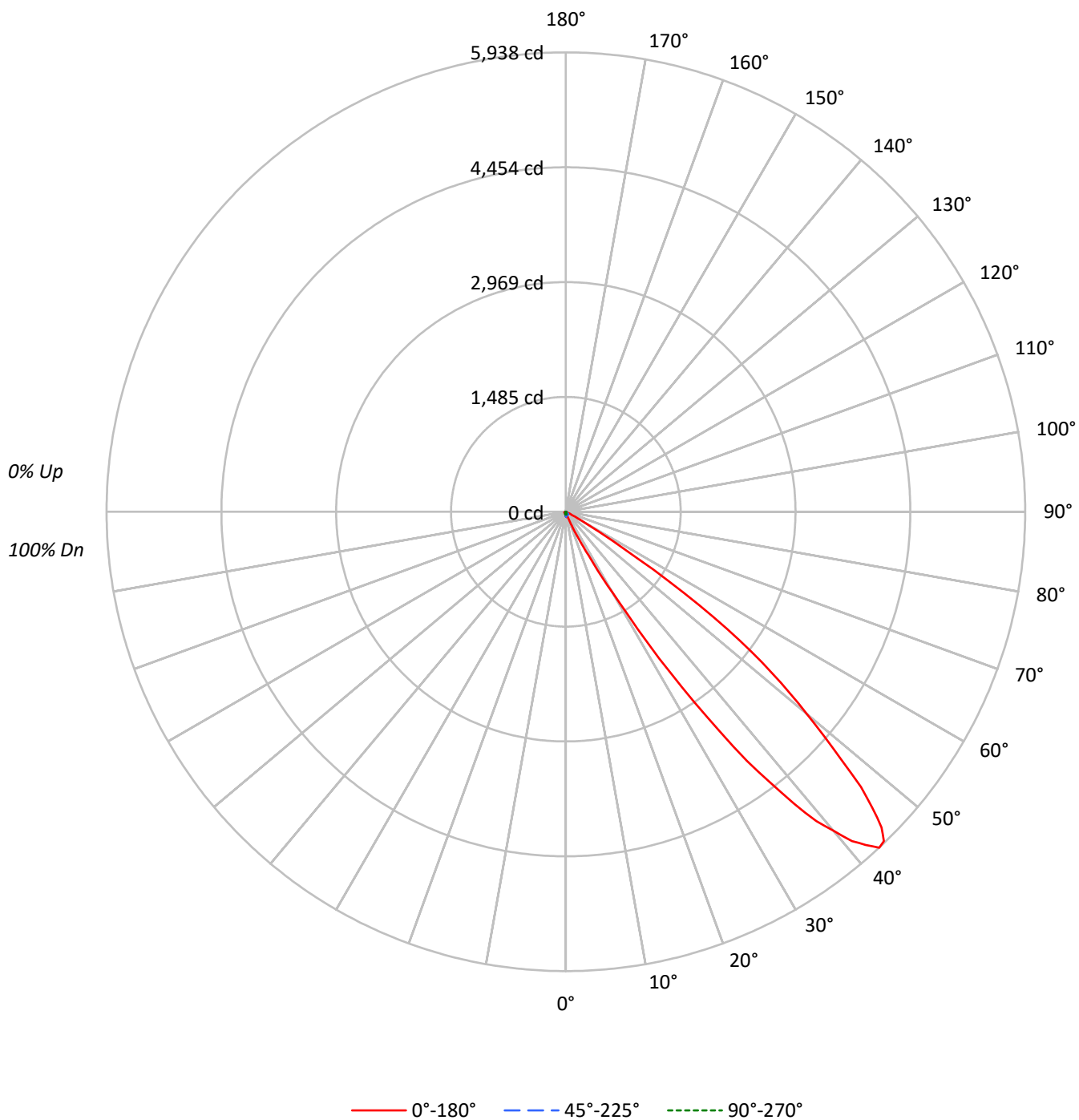
Lumens per Lamp: N/A  
Luminaire Lumens: 825.0 lumens  
Efficiency: N/A  
Efficacy: 67.1 lumens/watt  
Spacing Criteria (0/90/45): 3.39 / 0.51 / 1.13  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 12.3  
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: P1327636

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### Luminous Intensity Polar Plot



TEST NUMBER: P1327636

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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 |    |
| 1   | 110 | 106 | 102 | 99  | 108 | 104 | 101 | 97  | 100 | 97  | 94  | 96  | 94  | 92  | 92  | 91  | 89  | 87  |    |
| 2   | 101 | 93  | 87  | 82  | 98  | 91  | 86  | 81  | 88  | 83  | 79  | 85  | 81  | 77  | 82  | 78  | 75  | 73  |    |
| 3   | 92  | 81  | 74  | 67  | 89  | 80  | 73  | 67  | 77  | 71  | 66  | 74  | 69  | 65  | 72  | 67  | 63  | 61  |    |
| 4   | 83  | 71  | 62  | 56  | 81  | 70  | 62  | 55  | 67  | 60  | 55  | 65  | 59  | 54  | 63  | 58  | 53  | 51  |    |
| 5   | 75  | 62  | 53  | 46  | 73  | 61  | 53  | 46  | 59  | 51  | 46  | 57  | 50  | 45  | 55  | 49  | 45  | 42  |    |
| 6   | 68  | 55  | 45  | 39  | 66  | 54  | 45  | 38  | 52  | 44  | 38  | 50  | 43  | 38  | 48  | 42  | 37  | 35  |    |
| 7   | 62  | 48  | 39  | 32  | 60  | 47  | 38  | 32  | 46  | 38  | 32  | 44  | 37  | 32  | 43  | 36  | 31  | 29  |    |
| 8   | 57  | 42  | 33  | 27  | 55  | 42  | 33  | 27  | 40  | 33  | 27  | 39  | 32  | 27  | 38  | 31  | 27  | 25  |    |
| 9   | 52  | 38  | 29  | 23  | 51  | 37  | 29  | 23  | 36  | 28  | 23  | 35  | 28  | 23  | 34  | 27  | 23  | 21  |    |
| 10  | 48  | 34  | 25  | 20  | 47  | 33  | 25  | 20  | 32  | 25  | 19  | 31  | 24  | 19  | 30  | 24  | 19  | 17  |    |

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

|     | 0°      | 45°   | 90°  | 135° | 180°  |
|-----|---------|-------|------|------|-------|
| 0°  | 9886    | 9886  | 9886 | 9886 | 9886  |
| 5°  | 11531   | 10719 | 9249 | 8039 | 7780  |
| 10° | 11385   | 9758  | 7327 | 6243 | 6103  |
| 15° | 9949    | 7471  | 5385 | 4975 | 5260  |
| 20° | 14772   | 6250  | 3977 | 4270 | 4692  |
| 25° | 63640   | 6480  | 3097 | 3839 | 4561  |
| 30° | 240687  | 7855  | 2625 | 3699 | 4474  |
| 35° | 729613  | 9461  | 2439 | 3742 | 4731  |
| 40° | 1209850 | 9420  | 2091 | 4002 | 5058  |
| 45° | 1406240 | 6430  | 1900 | 4165 | 5480  |
| 50° | 1091604 | 3537  | 1876 | 4367 | 6243  |
| 55° | 631809  | 2342  | 1862 | 4894 | 6756  |
| 60° | 106812  | 551   | 1619 | 5063 | 7474  |
| 65° | 8232    | 0     | 1915 | 5705 | 8517  |
| 70° | 1158    | 0     | 2367 | 6244 | 9769  |
| 75° | 1065    | 532   | 2595 | 7253 | 11379 |
| 80° | 793     | 793   | 3868 | 7736 | 13092 |
| 85° | 1581    | 1581  | 6126 | 7707 | 13832 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1406240 cd/sqm

TEST NUMBER: P1327636

CATALOG NUMBER: LDSQA3D13R20W2N902765DE010 3LSQCA45R 1MW\_4000K

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 4.9    | 0.6       |
| 10°-20°   | 10.3   | 1.3       |
| 20°-30°   | 32.9   | 4.0       |
| 30°-40°   | 210.4  | 25.5      |
| 40°-50°   | 385.1  | 46.7      |
| 50°-60°   | 158.2  | 19.2      |
| 60°-70°   | 13.4   | 1.6       |
| 70°-80°   | 6.7    | 0.8       |
| 80°-90°   | 3.1    | 0.4       |
| 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°    | 48.2   | 5.8       |
| 0°-40°    | 258.6  | 31.3      |
| 0°-60°    | 801.9  | 97.2      |
| 0°-90°    | 825.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 825.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 57   | 57  | 57  | 57   | 57   |      |
| 5°  | 67   | 62  | 54  | 46   | 45   | 6    |
| 15° | 56   | 42  | 30  | 28   | 30   | 18   |
| 25° | 335  | 34  | 16  | 20   | 24   | 220  |
| 35° | 3470 | 45  | 12  | 18   | 22   | 2196 |
| 45° | 5774 | 26  | 8   | 17   | 22   | 4146 |
| 55° | 2104 | 8   | 6   | 16   | 22   | 1839 |
| 65° | 20   | 0   | 5   | 14   | 21   | 66   |
| 75° | 2    | 1   | 4   | 11   | 17   | 2    |
| 85° | 1    | 1   | 3   | 4    | 7    | 1    |
| 90° | 0    | 0   | 0   | 0    | 0    |      |

TEST NUMBER: P1327636

CATALOG NUMBER: LDSQA3D13R20W2N902765DE010 3LSQCA45R 1MW\_4000K

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 2.5°   | 5°     | 7.5°   | 10°    | 12.5°  | 15°    | 17.5°  | 20°    | 22.5° | 45°  |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|------|
| 0°    | 57.4   | 57.4   | 57.4   | 57.4   | 57.4   | 57.4   | 57.4   | 57.4   | 57.4   | 57.4  | 57.4 |
| 2.5°  | 62.8   | 62.8   | 62.8   | 62.0   | 62.0   | 62.8   | 62.0   | 62.0   | 62.0   | 62.0  | 61.2 |
| 5°    | 66.7   | 66.7   | 66.7   | 66.7   | 66.7   | 66.7   | 66.7   | 65.9   | 65.9   | 65.1  | 62.0 |
| 7.5°  | 68.2   | 68.2   | 68.2   | 68.2   | 67.5   | 67.5   | 67.5   | 67.5   | 66.7   | 65.9  | 60.5 |
| 10°   | 65.1   | 65.1   | 65.1   | 64.4   | 64.4   | 64.4   | 63.6   | 63.6   | 62.8   | 62.0  | 55.8 |
| 12.5° | 58.9   | 58.9   | 58.9   | 58.9   | 58.1   | 58.1   | 57.4   | 57.4   | 56.6   | 55.8  | 48.8 |
| 15°   | 55.8   | 55.8   | 55.8   | 55.0   | 55.0   | 54.3   | 53.5   | 52.7   | 51.9   | 50.4  | 41.9 |
| 17.5° | 60.5   | 60.5   | 59.7   | 59.7   | 58.1   | 56.6   | 55.8   | 53.5   | 51.9   | 49.6  | 37.2 |
| 20°   | 80.6   | 81.4   | 78.3   | 76.0   | 74.4   | 69.8   | 67.5   | 63.6   | 60.5   | 56.6  | 34.1 |
| 22.5° | 162.8  | 159.7  | 154.3  | 145.8  | 135.7  | 127.2  | 111.6  | 99.2   | 90.7   | 79.1  | 33.3 |
| 25°   | 334.9  | 331.8  | 317.1  | 304.7  | 273.7  | 249.6  | 216.3  | 189.2  | 161.3  | 134.1 | 34.1 |
| 27.5° | 636.5  | 615.6  | 611.7  | 555.1  | 511.7  | 449.7  | 385.3  | 331.1  | 281.4  | 226.4 | 36.4 |
| 30°   | 1210.3 | 1186.2 | 1101.7 | 1016.4 | 899.4  | 766.8  | 640.4  | 522.6  | 424.1  | 334.9 | 39.5 |
| 31°   | 1535.9 | 1559.1 | 1459.9 | 1288.6 | 1115.7 | 945.9  | 773.0  | 623.3  | 496.2  | 385.3 | 41.1 |
| 32°   | 2018.9 | 1917.3 | 1812.7 | 1636.7 | 1385.5 | 1168.4 | 951.3  | 735.8  | 568.3  | 439.6 | 42.6 |
| 33°   | 2475.6 | 2415.9 | 2256.1 | 2036.7 | 1735.1 | 1430.4 | 1149.0 | 868.3  | 656.7  | 505.5 | 43.4 |
| 34°   | 2962.4 | 2896.5 | 2767.1 | 2452.3 | 2121.2 | 1722.0 | 1346.7 | 1021.1 | 762.1  | 569.9 | 44.2 |
| 35°   | 3470.3 | 3442.4 | 3192.7 | 2919.8 | 2512.8 | 2031.3 | 1584.7 | 1188.5 | 865.2  | 628.8 | 45.0 |
| 36°   | 3981.2 | 3891.3 | 3695.9 | 3297.4 | 2872.5 | 2317.4 | 1834.4 | 1344.4 | 969.9  | 698.6 | 45.0 |
| 37°   | 4365.8 | 4345.6 | 4086.6 | 3698.2 | 3198.9 | 2622.9 | 2049.9 | 1517.3 | 1075.3 | 758.2 | 45.0 |
| 38°   | 4789.8 | 4710.0 | 4447.2 | 4051.8 | 3505.9 | 2902.7 | 2275.5 | 1667.7 | 1175.4 | 812.5 | 44.2 |
| 39°   | 5147.3 | 5028.6 | 4763.5 | 4372.7 | 3774.2 | 3115.2 | 2454.6 | 1813.4 | 1263.7 | 857.5 | 43.4 |
| 40°   | 5381.4 | 5299.2 | 5022.4 | 4582.8 | 4017.6 | 3316.0 | 2636.0 | 1933.6 | 1329.7 | 891.6 | 41.9 |
| 41°   | 5639.6 | 5503.1 | 5229.4 | 4787.5 | 4194.4 | 3492.8 | 2750.0 | 2012.7 | 1380.8 | 914.1 | 40.3 |
| 42°   | 5793.9 | 5682.2 | 5357.4 | 4924.7 | 4320.8 | 3593.5 | 2843.0 | 2073.2 | 1411.8 | 925.7 | 37.2 |
| 43°   | 5938.1 | 5786.1 | 5469.8 | 5004.6 | 4404.5 | 3664.9 | 2885.7 | 2101.1 | 1418.8 | 925.7 | 33.3 |
| 44°   | 5918.7 | 5774.5 | 5446.5 | 5015.5 | 4423.1 | 3685.8 | 2903.5 | 2101.9 | 1408.0 | 914.1 | 29.5 |
| 45°   | 5773.7 | 5630.3 | 5334.9 | 4920.9 | 4356.4 | 3644.7 | 2867.9 | 2070.8 | 1377.7 | 893.9 | 26.4 |
| 46°   | 5507.8 | 5365.1 | 5138.7 | 4762.7 | 4232.4 | 3551.7 | 2784.9 | 2003.4 | 1327.3 | 861.4 | 23.3 |
| 47°   | 5218.6 | 5079.8 | 4848.0 | 4507.6 | 4020.7 | 3385.8 | 2664.7 | 1908.8 | 1256.8 | 814.1 | 20.9 |
| 48°   | 4799.1 | 4712.3 | 4479.7 | 4189.0 | 3726.9 | 3126.0 | 2453.8 | 1754.5 | 1162.2 | 752.8 | 17.8 |
| 49°   | 4428.5 | 4337.1 | 4133.2 | 3820.7 | 3343.9 | 2823.7 | 2201.9 | 1566.9 | 1038.9 | 684.6 | 15.5 |
| 50°   | 4074.2 | 3994.4 | 3806.0 | 3453.2 | 2998.1 | 2458.5 | 1861.5 | 1330.4 | 883.8  | 600.1 | 13.2 |
| 51°   | 3727.7 | 3668.0 | 3475.7 | 3151.6 | 2689.5 | 2177.8 | 1612.6 | 1107.9 | 730.3  | 497.7 | 12.4 |
| 52°   | 3379.6 | 3372.6 | 3164.0 | 2836.1 | 2389.5 | 1897.9 | 1370.7 | 935.0  | 619.5  | 417.9 | 11.6 |
| 53°   | 3005.1 | 2960.1 | 2777.9 | 2483.3 | 2054.6 | 1606.4 | 1162.2 | 788.5  | 533.4  | 355.9 | 10.1 |
| 54°   | 2578.7 | 2528.3 | 2332.9 | 2067.0 | 1678.5 | 1315.7 | 936.6  | 637.3  | 444.3  | 300.8 | 9.3  |
| 55°   | 2104.2 | 2018.1 | 1876.2 | 1603.3 | 1311.0 | 1004.0 | 723.4  | 504.7  | 355.1  | 250.4 | 7.8  |
| 56°   | 1596.4 | 1510.3 | 1430.4 | 1229.6 | 962.2  | 748.9  | 538.8  | 386.9  | 277.6  | 197.7 | 7.0  |
| 57°   | 1110.2 | 1105.6 | 974.6  | 820.3  | 643.5  | 510.2  | 369.0  | 272.9  | 196.2  | 153.5 | 5.4  |
| 58°   | 720.3  | 696.2  | 612.5  | 523.3  | 421.0  | 318.7  | 237.2  | 185.3  | 133.4  | 104.7 | 4.7  |
| 59°   | 504.7  | 456.7  | 411.7  | 348.9  | 265.2  | 200.8  | 152.7  | 118.6  | 92.3   | 72.9  | 3.1  |
| 60°   | 310.1  | 300.0  | 269.8  | 212.4  | 172.1  | 141.9  | 114.0  | 87.6   | 67.5   | 51.9  | 1.6  |
| 62.5° | 88.4   | 89.9   | 81.4   | 72.1   | 62.0   | 53.5   | 48.1   | 41.1   | 34.1   | 27.1  | 0.0  |
| 65°   | 20.2   | 19.4   | 20.9   | 19.4   | 17.8   | 17.8   | 15.5   | 14.0   | 12.4   | 11.6  | 0.0  |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 2.5° | 5°  | 7.5° | 10° | 12.5° | 15° | 17.5° | 20° | 22.5° | 45° |
|-------|-----|------|-----|------|-----|-------|-----|-------|-----|-------|-----|
| 67.5° | 6.2 | 6.2  | 5.4 | 5.4  | 5.4 | 4.7   | 4.7 | 3.9   | 3.9 | 3.1   | 0.0 |
| 70°   | 2.3 | 2.3  | 2.3 | 2.3  | 2.3 | 1.6   | 1.6 | 1.6   | 0.8 | 0.8   | 0.0 |
| 72.5° | 2.3 | 2.3  | 2.3 | 1.6  | 1.6 | 1.6   | 1.6 | 1.6   | 0.8 | 0.8   | 0.8 |
| 75°   | 1.6 | 1.6  | 1.6 | 1.6  | 1.6 | 1.6   | 1.6 | 0.8   | 0.8 | 0.8   | 0.8 |
| 77.5° | 1.6 | 1.6  | 1.6 | 1.6  | 1.6 | 0.8   | 1.6 | 0.8   | 0.8 | 0.8   | 0.8 |
| 80°   | 0.8 | 0.8  | 0.8 | 0.8  | 0.8 | 0.8   | 0.8 | 0.8   | 0.8 | 0.8   | 0.8 |
| 82.5° | 0.8 | 0.8  | 0.8 | 0.8  | 0.8 | 0.8   | 0.8 | 0.8   | 0.8 | 0.8   | 0.8 |
| 85°   | 0.8 | 0.8  | 0.8 | 0.8  | 0.0 | 0.0   | 0.8 | 0.8   | 0.8 | 0.0   | 0.8 |
| 87.5° | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 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):**

|       | 67.5° | 90°  | 112.5° | 135° | 157.5° | 180° |
|-------|-------|------|--------|------|--------|------|
| 0°    | 57.4  | 57.4 | 57.4   | 57.4 | 57.4   | 57.4 |
| 2.5°  | 59.7  | 56.6 | 54.3   | 51.9 | 51.2   | 51.2 |
| 5°    | 58.1  | 53.5 | 48.8   | 46.5 | 45.0   | 45.0 |
| 7.5°  | 53.5  | 48.1 | 43.4   | 41.1 | 40.3   | 40.3 |
| 10°   | 48.1  | 41.9 | 37.2   | 35.7 | 35.7   | 34.9 |
| 12.5° | 41.9  | 35.7 | 32.6   | 31.8 | 31.8   | 31.8 |
| 15°   | 34.9  | 30.2 | 27.9   | 27.9 | 28.7   | 29.5 |
| 17.5° | 29.5  | 24.8 | 24.0   | 25.6 | 27.1   | 27.1 |
| 20°   | 24.8  | 21.7 | 21.7   | 23.3 | 24.8   | 25.6 |
| 22.5° | 20.9  | 18.6 | 19.4   | 21.7 | 24.0   | 24.8 |
| 25°   | 18.6  | 16.3 | 17.8   | 20.2 | 22.5   | 24.0 |
| 27.5° | 15.5  | 14.7 | 16.3   | 19.4 | 22.5   | 23.3 |
| 30°   | 13.2  | 13.2 | 15.5   | 18.6 | 21.7   | 22.5 |
| 31°   | 12.4  | 12.4 | 15.5   | 18.6 | 21.7   | 22.5 |
| 32°   | 11.6  | 12.4 | 14.7   | 18.6 | 21.7   | 22.5 |
| 33°   | 10.9  | 11.6 | 14.7   | 17.8 | 21.7   | 22.5 |
| 34°   | 10.1  | 11.6 | 14.7   | 17.8 | 21.7   | 22.5 |
| 35°   | 9.3   | 11.6 | 14.7   | 17.8 | 21.7   | 22.5 |
| 36°   | 8.5   | 10.9 | 14.0   | 17.8 | 21.7   | 22.5 |
| 37°   | 7.8   | 10.9 | 14.0   | 17.8 | 21.7   | 22.5 |
| 38°   | 7.0   | 10.1 | 14.0   | 17.8 | 21.7   | 22.5 |
| 39°   | 7.0   | 10.1 | 13.2   | 17.8 | 20.9   | 22.5 |
| 40°   | 6.2   | 9.3  | 13.2   | 17.8 | 20.9   | 22.5 |
| 41°   | 5.4   | 9.3  | 13.2   | 17.1 | 20.9   | 22.5 |
| 42°   | 4.7   | 8.5  | 12.4   | 17.1 | 20.9   | 22.5 |
| 43°   | 3.9   | 8.5  | 12.4   | 17.1 | 20.9   | 22.5 |
| 44°   | 3.9   | 7.8  | 12.4   | 17.1 | 20.9   | 22.5 |
| 45°   | 3.1   | 7.8  | 12.4   | 17.1 | 20.9   | 22.5 |
| 46°   | 2.3   | 7.8  | 12.4   | 17.1 | 20.9   | 22.5 |
| 47°   | 2.3   | 7.0  | 11.6   | 17.1 | 20.9   | 22.5 |
| 48°   | 1.6   | 7.0  | 11.6   | 17.1 | 20.9   | 22.5 |
| 49°   | 1.6   | 7.0  | 11.6   | 17.1 | 20.9   | 23.3 |
| 50°   | 1.6   | 7.0  | 11.6   | 16.3 | 20.9   | 23.3 |
| 51°   | 0.8   | 7.0  | 11.6   | 16.3 | 20.9   | 23.3 |
| 52°   | 0.8   | 7.0  | 10.9   | 16.3 | 21.7   | 23.3 |
| 53°   | 0.8   | 6.2  | 10.9   | 16.3 | 21.7   | 23.3 |
| 54°   | 0.8   | 6.2  | 10.9   | 16.3 | 21.7   | 22.5 |
| 55°   | 0.8   | 6.2  | 10.9   | 16.3 | 20.9   | 22.5 |
| 56°   | 0.8   | 5.4  | 10.9   | 16.3 | 20.9   | 22.5 |
| 57°   | 0.8   | 5.4  | 10.1   | 15.5 | 20.9   | 21.7 |
| 58°   | 0.8   | 5.4  | 10.1   | 15.5 | 20.9   | 21.7 |
| 59°   | 0.8   | 5.4  | 10.1   | 15.5 | 20.2   | 21.7 |
| 60°   | 1.6   | 4.7  | 9.3    | 14.7 | 20.2   | 21.7 |
| 62.5° | 1.6   | 4.7  | 9.3    | 14.7 | 19.4   | 20.9 |
| 65°   | 1.6   | 4.7  | 8.5    | 14.0 | 19.4   | 20.9 |



TEST NUMBER: P1327636

CATALOG NUMBER: LDSQA3D13R20W2N902765DE010 3LSQCA45R 1MW\_4000K

**CANDELA DISTRIBUTION (continued):**

|       | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 67.5° | 1.6   | 3.9 | 7.8    | 13.2 | 18.6   | 20.2 |
| 70°   | 1.6   | 4.7 | 7.8    | 12.4 | 17.8   | 19.4 |
| 72.5° | 2.3   | 3.9 | 7.0    | 11.6 | 17.1   | 18.6 |
| 75°   | 2.3   | 3.9 | 7.0    | 10.9 | 16.3   | 17.1 |
| 77.5° | 3.1   | 3.9 | 6.2    | 9.3  | 14.7   | 15.5 |
| 80°   | 3.1   | 3.9 | 5.4    | 7.8  | 12.4   | 13.2 |
| 82.5° | 3.1   | 3.9 | 3.9    | 6.2  | 9.3    | 10.1 |
| 85°   | 2.3   | 3.1 | 3.1    | 3.9  | 6.2    | 7.0  |
| 87.5° | 2.3   | 3.1 | 2.3    | 1.6  | 3.1    | 3.1  |
| 90°   | 0.0   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)