

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: P1313554

Luminaire Tested: LDSQA3D09R509727DE010 3LSQCA30R 1MMS

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1313554  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-53)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D09R509727DE010 3LSQCA30R 1MMS  
Description: 3in Adjustable LED luminaire with, R50 optic, 2700K CCT AND, 97CRI , 3LSQCA30R 1MMS TRII  
Light Source: -  
Ballast/Driver: -

**Summary**

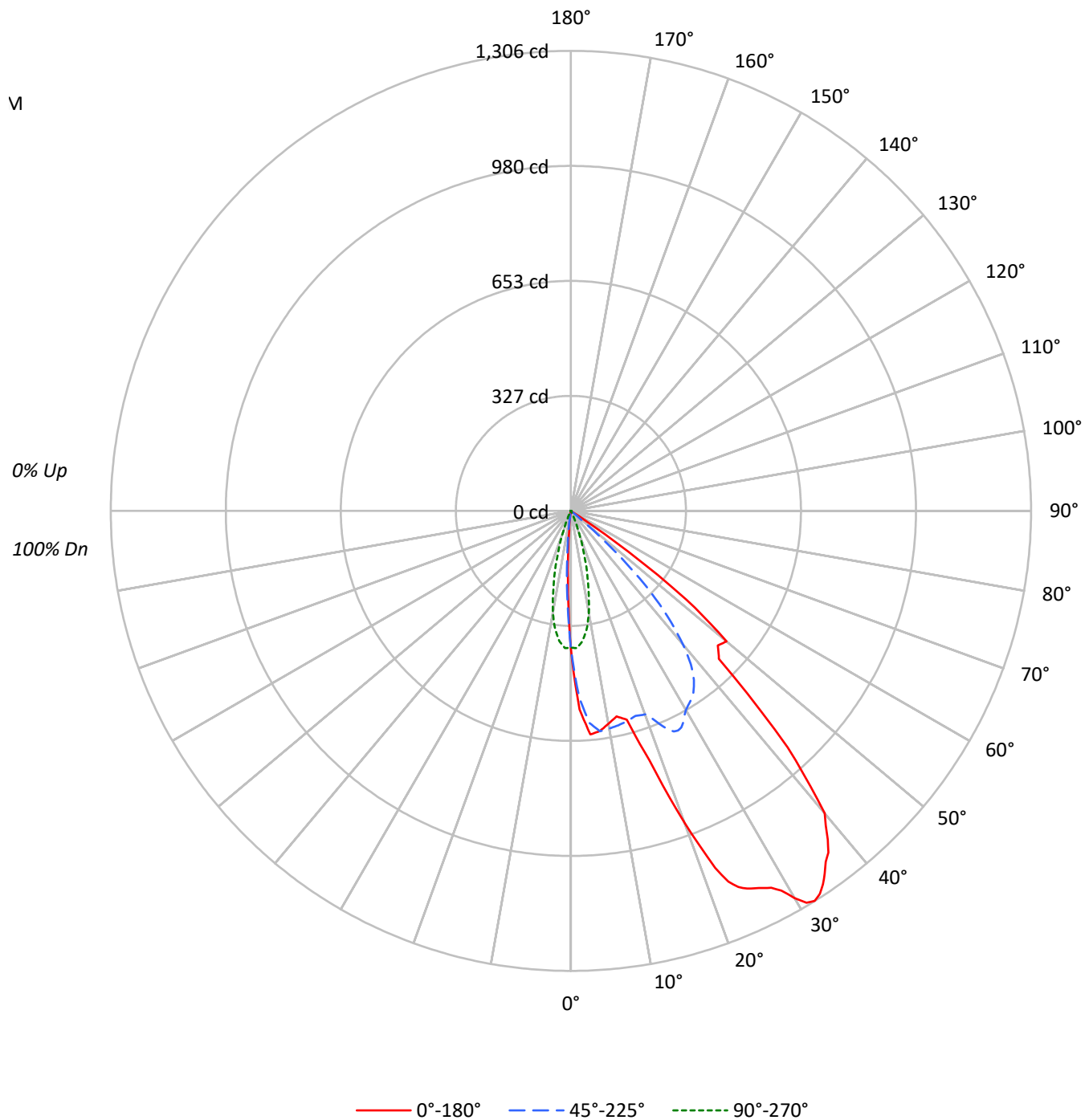
Lumens per Lamp: N/A  
Luminaire Lumens: 625.0 lumens  
Efficiency: N/A  
Efficacy: 56.3 lumens/watt  
Spacing Criteria (0/90/45): 1.8 / 0.48 / 1.24  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 11.1  
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





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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 | 10 |    |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |    |    |
| 1   | 112 | 109 | 106 | 104 | 110 | 107 | 104 | 102 | 103 | 101 | 99  | 99  | 97  | 96  | 96  | 94  | 93  | 91  |    |    |    |
| 2   | 105 | 100 | 95  | 91  | 103 | 98  | 93  | 90  | 94  | 91  | 88  | 91  | 88  | 86  | 89  | 86  | 84  | 82  |    |    |    |
| 3   | 98  | 91  | 85  | 80  | 96  | 89  | 84  | 79  | 86  | 82  | 78  | 84  | 80  | 77  | 82  | 78  | 75  | 74  |    |    |    |
| 4   | 92  | 83  | 76  | 71  | 90  | 81  | 75  | 70  | 79  | 74  | 70  | 77  | 72  | 69  | 75  | 71  | 68  | 66  |    |    |    |
| 5   | 86  | 76  | 68  | 63  | 84  | 75  | 68  | 63  | 73  | 67  | 62  | 71  | 66  | 62  | 69  | 65  | 61  | 59  |    |    |    |
| 6   | 80  | 69  | 62  | 57  | 78  | 68  | 62  | 57  | 67  | 61  | 56  | 65  | 60  | 56  | 64  | 59  | 55  | 54  |    |    |    |
| 7   | 75  | 64  | 56  | 51  | 73  | 63  | 56  | 51  | 61  | 55  | 51  | 60  | 55  | 50  | 59  | 54  | 50  | 48  |    |    |    |
| 8   | 70  | 59  | 51  | 46  | 69  | 58  | 51  | 46  | 57  | 50  | 46  | 56  | 50  | 46  | 55  | 49  | 46  | 44  |    |    |    |
| 9   | 66  | 54  | 47  | 42  | 64  | 54  | 47  | 42  | 53  | 46  | 42  | 52  | 46  | 42  | 51  | 45  | 42  | 40  |    |    |    |
| 10  | 62  | 50  | 43  | 39  | 61  | 50  | 43  | 39  | 49  | 43  | 38  | 48  | 42  | 38  | 47  | 42  | 38  | 37  |    |    |    |

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

|     | 0°     | 45°    | 90°   | 135°  | 180°  |
|-----|--------|--------|-------|-------|-------|
| 0°  | 66840  | 66840  | 66840 | 66840 | 66840 |
| 5°  | 110108 | 104506 | 64225 | 19069 | 9543  |
| 10° | 107306 | 109667 | 51467 | 962   | 1294  |
| 15° | 109404 | 110063 | 30828 | 981   | 321   |
| 20° | 172462 | 112696 | 12701 | 0     | 0     |
| 25° | 224840 | 131289 | 3021  | 0     | 0     |
| 30° | 252360 | 129839 | 119   | 0     | 0     |
| 35° | 264089 | 127850 | 0     | 0     | 0     |
| 40° | 251934 | 111084 | 0     | 0     | 0     |
| 45° | 144674 | 73311  | 0     | 0     | 0     |
| 50° | 154409 | 8386   | 0     | 0     | 0     |
| 55° | 43988  | 0      | 0     | 0     | 0     |
| 60° | 0      | 0      | 207   | 0     | 0     |
| 65° | 0      | 245    | 245   | 0     | 0     |
| 70° | 0      | 302    | 302   | 0     | 0     |
| 75° | 0      | 399    | 399   | 0     | 0     |
| 80° | 0      | 595    | 1190  | 595   | 0     |
| 85° | 0      | 1186   | 2371  | 1186  | 0     |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle:  $15^\circ$

Vertical Angle:  $45^\circ$

Luminance: 159751 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 32.6   | 5.2       |
| 10°-20°   | 82.1   | 13.1      |
| 20°-30°   | 157.7  | 25.2      |
| 30°-40°   | 183.6  | 29.4      |
| 40°-50°   | 131.4  | 21.0      |
| 50°-60°   | 36.6   | 5.9       |
| 60°-70°   | 0.2    | 0.0       |
| 70°-80°   | 0.4    | 0.1       |
| 80°-90°   | 0.4    | 0.1       |
| 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       |
| <hr/>     |        |           |
| 0°-30°    | 272.4  | 43.6      |
| 0°-40°    | 456.0  | 73.0      |
| 0°-60°    | 623.9  | 99.8      |
| 0°-90°    | 625.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 625.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 388  | 388 | 388 | 388  | 388  |      |
| 5°  | 637  | 604 | 372 | 110  | 55   | 58   |
| 15° | 614  | 617 | 173 | 6    | 2    | 198  |
| 25° | 1183 | 691 | 16  | 0    | 0    | 538  |
| 35° | 1256 | 608 | 0   | 0    | 0    | 777  |
| 45° | 594  | 301 | 0   | 0    | 0    | 559  |
| 55° | 146  | 0   | 0   | 0    | 0    | 184  |
| 65° | 0    | 1   | 1   | 0    | 0    | 0    |
| 75° | 0    | 1   | 1   | 0    | 0    | 0    |
| 85° | 0    | 1   | 1   | 1    | 0    | 0    |
| 90° | 0    | 0   | 0   | 0    | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°   | 45°   | 67.5° | 90°   |
|-------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|
| 0°    | 388.1  | 388.1  | 388.1  | 388.1  | 388.1  | 388.1  | 388.1  | 388.1 | 388.1 | 388.1 | 388.1 |
| 2.5°  | 564.0  | 567.1  | 567.7  | 560.3  | 561.5  | 551.1  | 551.7  | 544.4 | 526.6 | 464.7 | 389.9 |
| 5°    | 636.9  | 635.1  | 636.9  | 634.5  | 636.9  | 630.8  | 627.1  | 624.1 | 604.5 | 516.8 | 371.5 |
| 7.5°  | 630.2  | 627.7  | 631.4  | 632.7  | 636.9  | 635.1  | 635.7  | 637.6 | 630.8 | 545.0 | 340.2 |
| 10°   | 613.6  | 613.0  | 614.9  | 614.9  | 619.8  | 620.4  | 622.8  | 626.5 | 627.1 | 554.8 | 294.3 |
| 12.5° | 597.7  | 595.9  | 595.9  | 595.3  | 597.7  | 597.1  | 603.2  | 611.8 | 623.5 | 548.7 | 231.1 |
| 15°   | 613.6  | 611.8  | 609.4  | 602.6  | 597.7  | 592.2  | 592.8  | 598.3 | 617.3 | 532.7 | 172.9 |
| 17.5° | 742.4  | 732.6  | 720.3  | 698.9  | 676.2  | 636.9  | 613.6  | 598.9 | 610.0 | 508.2 | 115.3 |
| 20°   | 941.0  | 936.7  | 917.1  | 882.2  | 845.4  | 787.8  | 716.0  | 658.4 | 614.9 | 477.6 | 69.3  |
| 21°   | 1016.4 | 1014.0 | 993.1  | 960.6  | 918.9  | 849.1  | 775.5  | 706.2 | 624.7 | 464.7 | 54.6  |
| 22°   | 1093.7 | 1084.5 | 1067.9 | 1031.7 | 988.2  | 918.3  | 836.2  | 759.6 | 644.3 | 448.1 | 41.7  |
| 23°   | 1143.3 | 1137.8 | 1120.0 | 1091.2 | 1049.5 | 981.5  | 897.5  | 814.1 | 663.3 | 429.7 | 31.3  |
| 24°   | 1169.1 | 1167.2 | 1153.1 | 1132.9 | 1097.3 | 1028.1 | 948.4  | 862.5 | 679.2 | 408.3 | 22.7  |
| 25°   | 1183.2 | 1177.0 | 1168.4 | 1153.7 | 1126.8 | 1066.7 | 995.6  | 904.8 | 690.9 | 386.8 | 15.9  |
| 26°   | 1191.7 | 1188.1 | 1174.6 | 1161.7 | 1136.0 | 1086.9 | 1026.2 | 930.6 | 694.0 | 360.5 | 11.0  |
| 27°   | 1201.5 | 1193.0 | 1180.1 | 1164.8 | 1136.0 | 1093.0 | 1037.9 | 941.6 | 690.3 | 333.5 | 7.4   |
| 28°   | 1212.0 | 1205.8 | 1188.1 | 1168.4 | 1134.1 | 1093.0 | 1033.6 | 926.9 | 679.2 | 307.7 | 4.3   |
| 29°   | 1232.2 | 1224.2 | 1202.2 | 1173.3 | 1134.7 | 1091.8 | 1017.0 | 896.3 | 664.5 | 278.9 | 2.5   |
| 30°   | 1269.0 | 1252.4 | 1225.5 | 1185.0 | 1139.0 | 1089.4 | 989.4  | 850.3 | 652.9 | 246.4 | 0.6   |
| 31°   | 1297.8 | 1288.6 | 1257.3 | 1206.5 | 1151.3 | 1082.6 | 956.9  | 804.9 | 644.9 | 218.2 | 0.0   |
| 32°   | 1305.8 | 1299.0 | 1276.3 | 1228.5 | 1172.1 | 1077.1 | 920.2  | 760.8 | 638.8 | 187.0 | 0.0   |
| 33°   | 1296.6 | 1292.3 | 1268.4 | 1224.8 | 1177.6 | 1069.7 | 877.9  | 717.3 | 632.0 | 158.8 | 0.0   |
| 34°   | 1279.4 | 1273.9 | 1253.0 | 1208.9 | 1163.5 | 1037.9 | 837.4  | 684.1 | 622.2 | 132.4 | 0.0   |
| 35°   | 1256.1 | 1251.8 | 1230.4 | 1186.8 | 1137.8 | 988.2  | 796.9  | 662.1 | 608.1 | 106.1 | 0.0   |
| 36°   | 1231.0 | 1229.7 | 1202.2 | 1159.2 | 1104.7 | 940.4  | 747.9  | 645.5 | 594.0 | 84.0  | 0.0   |
| 37°   | 1214.4 | 1208.3 | 1178.3 | 1136.0 | 1065.5 | 884.6  | 708.7  | 640.0 | 574.4 | 65.0  | 0.0   |
| 38°   | 1184.4 | 1185.6 | 1151.3 | 1112.7 | 1025.6 | 836.2  | 676.8  | 635.7 | 552.3 | 47.2  | 0.0   |
| 39°   | 1148.8 | 1149.4 | 1113.9 | 1080.8 | 978.4  | 785.3  | 650.4  | 631.4 | 524.8 | 30.0  | 0.0   |
| 40°   | 1120.6 | 1120.0 | 1079.6 | 1044.0 | 927.5  | 737.5  | 636.3  | 625.3 | 494.1 | 17.2  | 0.0   |
| 42.5° | 911.0  | 914.6  | 919.6  | 934.3  | 808.0  | 653.5  | 622.8  | 591.0 | 407.1 | 0.0   | 0.0   |
| 45°   | 594.0  | 608.1  | 611.8  | 655.9  | 655.3  | 619.2  | 591.0  | 529.7 | 301.0 | 0.0   | 0.0   |
| 47.5° | 565.2  | 569.5  | 577.5  | 594.6  | 603.8  | 586.1  | 528.4  | 442.6 | 164.3 | 0.0   | 0.0   |
| 50°   | 576.3  | 575.6  | 577.5  | 577.5  | 560.9  | 514.9  | 433.4  | 326.7 | 31.3  | 0.0   | 0.0   |
| 52.5° | 413.8  | 429.1  | 445.7  | 453.0  | 431.6  | 383.1  | 316.3  | 191.9 | 0.0   | 0.0   | 0.0   |
| 55°   | 146.5  | 141.6  | 137.9  | 150.8  | 147.7  | 166.1  | 137.3  | 44.8  | 0.0   | 0.0   | 0.0   |
| 57.5° | 0.0    | 0.0    | 0.0    | 0.6    | 2.5    | 5.5    | 7.4    | 0.0   | 0.0   | 0.0   | 0.0   |
| 60°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.6   | 0.6   |
| 62.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.6   | 0.6   |
| 65°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.6   | 0.6   | 0.6   |
| 67.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.6   | 0.6   | 0.6   | 0.6   |
| 70°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.6   | 0.6   | 0.6   | 0.6   |
| 72.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.6   | 0.6   | 0.6   | 0.6   |
| 75°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.6   | 0.6   | 0.6   | 0.6   |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.6    | 0.6   | 0.6   | 0.6   | 1.2   |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.6    | 0.6   | 0.6   | 0.6   | 1.2   |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 5°  | 10° | 15° | 20° | 25° | 30° | 35° | 45° | 67.5° | 90° |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 0.6 | 0.6   | 1.2 |
| 85°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 0.6 | 0.6 | 0.6   | 1.2 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 0.6 | 0.6   | 1.2 |
| 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: P1313554

CATALOG NUMBER: LDSQA3D09R509727DE010 3LSQCA30R 1MMS

**CANDELA DISTRIBUTION (continued):**

|       | 112.5° | 135°  | 157.5° | 180°  |
|-------|--------|-------|--------|-------|
| 0°    | 388.1  | 388.1 | 388.1  | 388.1 |
| 2.5°  | 310.8  | 238.5 | 193.1  | 196.2 |
| 5°    | 218.2  | 110.3 | 68.0   | 55.2  |
| 7.5°  | 130.6  | 33.7  | 6.7    | 5.5   |
| 10°   | 61.3   | 5.5   | 6.1    | 7.4   |
| 12.5° | 18.4   | 4.9   | 6.7    | 6.1   |
| 15°   | 4.9    | 5.5   | 3.1    | 1.8   |
| 17.5° | 1.8    | 2.5   | 0.0    | 0.0   |
| 20°   | 1.2    | 0.0   | 0.0    | 0.0   |
| 21°   | 1.2    | 0.0   | 0.0    | 0.0   |
| 22°   | 0.6    | 0.0   | 0.0    | 0.0   |
| 23°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 24°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 25°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 26°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 27°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 28°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 29°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 30°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 31°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 32°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 33°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 34°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 35°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 36°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 37°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 38°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 39°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 40°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 42.5° | 0.0    | 0.0   | 0.0    | 0.0   |
| 45°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 47.5° | 0.0    | 0.0   | 0.0    | 0.0   |
| 50°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 52.5° | 0.0    | 0.0   | 0.0    | 0.0   |
| 55°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 57.5° | 0.0    | 0.0   | 0.0    | 0.0   |
| 60°   | 0.0    | 0.0   | 0.0    | 0.0   |
| 62.5° | 0.0    | 0.0   | 0.0    | 0.0   |
| 65°   | 0.6    | 0.0   | 0.0    | 0.0   |
| 67.5° | 0.6    | 0.0   | 0.0    | 0.0   |
| 70°   | 0.6    | 0.0   | 0.0    | 0.0   |
| 72.5° | 0.6    | 0.0   | 0.0    | 0.0   |
| 75°   | 0.6    | 0.0   | 0.0    | 0.0   |
| 77.5° | 0.6    | 0.0   | 0.0    | 0.0   |
| 80°   | 0.6    | 0.6   | 0.0    | 0.0   |

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CATALOG NUMBER: LDSQA3D09R509727DE010 3LSQCA30R 1MMS

**CANDELA DISTRIBUTION (continued):**

|       | 112.5° | 135° | 157.5° | 180° |
|-------|--------|------|--------|------|
| 82.5° | 0.6    | 0.6  | 0.0    | 0.0  |
| 85°   | 0.6    | 0.6  | 0.0    | 0.0  |
| 87.5° | 0.6    | 0.6  | 0.0    | 0.0  |
| 90°   | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)