

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: P1326849

Luminaire Tested: LDSQA3D09R50W2N902750DE010 3LSQCA30R 1MB_4000K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1326849
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: LDSQA3D09R50W2N902750DE010 3LSQCA30R 1MB_4000K
Description: 3in Adjustable Tunable White LED luminaire with, R50 optic, 4000K CCT AND, 90CRI ,
3LSQCA30R 1MB TRIM
Light Source: -
Ballast/Driver: -

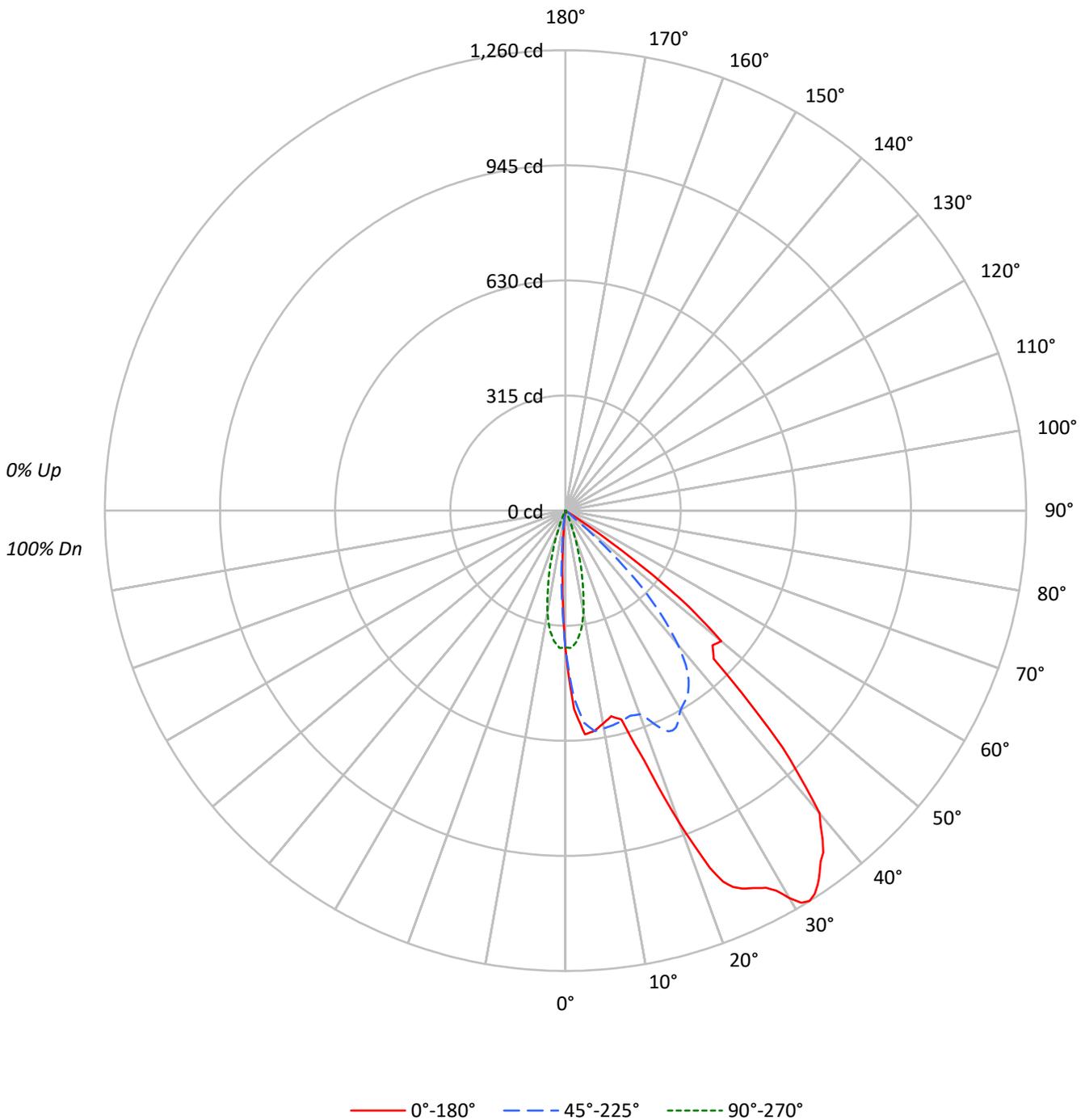
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 603.0 lumens
Efficiency: N/A
Efficacy: 67.0 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): 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: P1326849
CATALOG NUMBER: LDSQA3D09R50W2N902750DE010 3LSQCA30R 1MB_4000K

Luminous Intensity Polar Plot





TEST NUMBER: P1326849

CATALOG NUMBER: LDSQA3D09R50W2N902750DE010 3LSQCA30R 1MB_4000K

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

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|--------|--------|-------|-------|-------|
| 0° | 64480 | 64480 | 64480 | 64480 | 64480 |
| 5° | 106235 | 100824 | 61960 | 18412 | 9197 |
| 10° | 103529 | 105820 | 49648 | 927 | 1242 |
| 15° | 105552 | 106194 | 29740 | 945 | 321 |
| 20° | 166396 | 108719 | 12243 | 0 | 0 |
| 25° | 216915 | 126672 | 2926 | 0 | 0 |
| 30° | 243471 | 125265 | 119 | 0 | 0 |
| 35° | 254796 | 123351 | 0 | 0 | 0 |
| 40° | 243076 | 107172 | 0 | 0 | 0 |
| 45° | 139584 | 70730 | 0 | 0 | 0 |
| 50° | 148970 | 8092 | 0 | 0 | 0 |
| 55° | 42457 | 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°
 Vertical Angle: 45°
 Luminance: 154149 cd/sqm



TEST NUMBER: P1326849

CATALOG NUMBER: LDSQA3D09R50W2N902750DE010 3LSQCA30R 1MB_4000K

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 31.4 | 5.2 |
| 10°-20° | 79.2 | 13.1 |
| 20°-30° | 152.2 | 25.2 |
| 30°-40° | 177.1 | 29.4 |
| 40°-50° | 126.8 | 21.0 |
| 50°-60° | 35.3 | 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 |
| 0°-30° | 262.8 | 43.6 |
| 0°-40° | 439.9 | 73.0 |
| 0°-60° | 602.0 | 99.8 |
| 0°-90° | 603.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 603.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0° | 374 | 374 | 374 | 374 | 374 | |
| 5° | 614 | 583 | 358 | 106 | 53 | 56 |
| 15° | 592 | 596 | 167 | 5 | 2 | 191 |
| 25° | 1142 | 667 | 15 | 0 | 0 | 519 |
| 35° | 1212 | 587 | 0 | 0 | 0 | 750 |
| 45° | 573 | 290 | 0 | 0 | 0 | 539 |
| 55° | 141 | 0 | 0 | 0 | 0 | 178 |
| 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 | |



TEST NUMBER: P1326849

CATALOG NUMBER: LDSQA3D09R50W2N902750DE010 3LSQCA30R 1MB_4000K

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|
| 0° | 374.4 | 374.4 | 374.4 | 374.4 | 374.4 | 374.4 | 374.4 | 374.4 | 374.4 | 374.4 | 374.4 |
| 2.5° | 544.1 | 547.1 | 547.7 | 540.6 | 541.8 | 531.7 | 532.3 | 525.2 | 508.1 | 448.3 | 376.2 |
| 5° | 614.5 | 612.7 | 614.5 | 612.2 | 614.5 | 608.6 | 605.1 | 602.1 | 583.2 | 498.6 | 358.4 |
| 7.5° | 608.0 | 605.7 | 609.2 | 610.4 | 614.5 | 612.7 | 613.3 | 615.1 | 608.6 | 525.8 | 328.3 |
| 10° | 592.0 | 591.5 | 593.2 | 593.2 | 598.0 | 598.6 | 600.9 | 604.5 | 605.1 | 535.3 | 283.9 |
| 12.5° | 576.7 | 574.9 | 574.9 | 574.3 | 576.7 | 576.1 | 582.0 | 590.3 | 601.5 | 529.4 | 223.0 |
| 15° | 592.0 | 590.3 | 587.9 | 581.4 | 576.7 | 571.3 | 571.9 | 577.3 | 595.6 | 514.0 | 166.8 |
| 17.5° | 716.3 | 706.8 | 695.0 | 674.3 | 652.4 | 614.5 | 592.0 | 577.9 | 588.5 | 490.3 | 111.2 |
| 20° | 907.9 | 903.7 | 884.8 | 851.1 | 815.6 | 760.0 | 690.8 | 635.2 | 593.2 | 460.7 | 66.8 |
| 21° | 980.6 | 978.3 | 958.2 | 926.8 | 886.6 | 819.2 | 748.2 | 681.4 | 602.7 | 448.3 | 52.6 |
| 22° | 1055.2 | 1046.3 | 1030.3 | 995.4 | 953.4 | 886.0 | 806.7 | 732.8 | 621.6 | 432.4 | 40.2 |
| 23° | 1103.1 | 1097.7 | 1080.6 | 1052.8 | 1012.6 | 946.9 | 865.9 | 785.5 | 640.0 | 414.6 | 30.2 |
| 24° | 1127.9 | 1126.1 | 1112.5 | 1093.0 | 1058.7 | 991.9 | 915.0 | 832.2 | 655.3 | 393.9 | 21.9 |
| 25° | 1141.5 | 1135.6 | 1127.3 | 1113.1 | 1087.1 | 1029.1 | 960.5 | 873.0 | 666.6 | 373.2 | 15.4 |
| 26° | 1149.8 | 1146.2 | 1133.2 | 1120.8 | 1096.0 | 1048.7 | 990.1 | 897.8 | 669.5 | 347.8 | 10.6 |
| 27° | 1159.3 | 1151.0 | 1138.6 | 1123.8 | 1096.0 | 1054.6 | 1001.3 | 908.5 | 666.0 | 321.8 | 7.1 |
| 28° | 1169.3 | 1163.4 | 1146.2 | 1127.3 | 1094.2 | 1054.6 | 997.2 | 894.3 | 655.3 | 296.9 | 4.1 |
| 29° | 1188.8 | 1181.1 | 1159.8 | 1132.0 | 1094.8 | 1053.4 | 981.2 | 864.7 | 641.1 | 269.1 | 2.4 |
| 30° | 1224.3 | 1208.3 | 1182.3 | 1143.3 | 1098.9 | 1051.0 | 954.6 | 820.4 | 629.9 | 237.8 | 0.6 |
| 31° | 1252.1 | 1243.2 | 1213.1 | 1164.0 | 1110.8 | 1044.5 | 923.3 | 776.6 | 622.2 | 210.6 | 0.0 |
| 32° | 1259.8 | 1253.3 | 1231.4 | 1185.3 | 1130.9 | 1039.2 | 887.8 | 734.0 | 616.3 | 180.4 | 0.0 |
| 33° | 1250.9 | 1246.8 | 1223.7 | 1181.7 | 1136.2 | 1032.1 | 847.0 | 692.0 | 609.8 | 153.2 | 0.0 |
| 34° | 1234.4 | 1229.0 | 1208.9 | 1166.4 | 1122.6 | 1001.3 | 807.9 | 660.1 | 600.3 | 127.8 | 0.0 |
| 35° | 1211.9 | 1207.8 | 1187.1 | 1145.1 | 1097.7 | 953.4 | 768.9 | 638.8 | 586.7 | 102.3 | 0.0 |
| 36° | 1187.6 | 1186.5 | 1159.8 | 1118.4 | 1065.8 | 907.3 | 721.6 | 622.8 | 573.1 | 81.0 | 0.0 |
| 37° | 1171.7 | 1165.8 | 1136.8 | 1096.0 | 1028.0 | 853.5 | 683.7 | 617.5 | 554.2 | 62.7 | 0.0 |
| 38° | 1142.7 | 1143.9 | 1110.8 | 1073.5 | 989.5 | 806.7 | 653.0 | 613.3 | 532.9 | 45.5 | 0.0 |
| 39° | 1108.4 | 1109.0 | 1074.7 | 1042.7 | 944.0 | 757.7 | 627.5 | 609.2 | 506.3 | 29.0 | 0.0 |
| 40° | 1081.2 | 1080.6 | 1041.6 | 1007.3 | 894.9 | 711.5 | 613.9 | 603.3 | 476.7 | 16.6 | 0.0 |
| 42.5° | 878.9 | 882.5 | 887.2 | 901.4 | 779.5 | 630.5 | 600.9 | 570.2 | 392.7 | 0.0 | 0.0 |
| 45° | 573.1 | 586.7 | 590.3 | 632.9 | 632.3 | 597.4 | 570.2 | 511.0 | 290.4 | 0.0 | 0.0 |
| 47.5° | 545.3 | 549.5 | 557.2 | 573.7 | 582.6 | 565.4 | 509.8 | 427.0 | 158.5 | 0.0 | 0.0 |
| 50° | 556.0 | 555.4 | 557.2 | 557.2 | 541.2 | 496.8 | 418.2 | 315.2 | 30.2 | 0.0 | 0.0 |
| 52.5° | 399.2 | 414.0 | 430.0 | 437.1 | 416.4 | 369.7 | 305.2 | 185.1 | 0.0 | 0.0 | 0.0 |
| 55° | 141.4 | 136.6 | 133.1 | 145.5 | 142.5 | 160.3 | 132.5 | 43.2 | 0.0 | 0.0 | 0.0 |
| 57.5° | 0.0 | 0.0 | 0.0 | 0.6 | 2.4 | 5.3 | 7.1 | 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 |



TEST NUMBER: P1326849

CATALOG NUMBER: LDSQA3D09R50W2N902750DE010 3LSQCA30R 1MB_4000K

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: P1326849

CATALOG NUMBER: LDSQA3D09R50W2N902750DE010 3LSQCA30R 1MB_4000K

CANDELA DISTRIBUTION (continued):

| | 112.5° | 135° | 157.5° | 180° |
|-------|--------|-------|--------|-------|
| 0° | 374.4 | 374.4 | 374.4 | 374.4 |
| 2.5° | 299.9 | 230.1 | 186.3 | 189.3 |
| 5° | 210.6 | 106.5 | 65.7 | 53.2 |
| 7.5° | 126.0 | 32.5 | 6.5 | 5.3 |
| 10° | 59.1 | 5.3 | 5.9 | 7.1 |
| 12.5° | 17.7 | 4.7 | 6.5 | 5.9 |
| 15° | 4.7 | 5.3 | 3.0 | 1.8 |
| 17.5° | 1.8 | 2.4 | 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 |



TEST NUMBER: P1326849

CATALOG NUMBER: LDSQA3D09R50W2N902750DE010 3LSQCA30R 1MB_4000K

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)