

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: P1325117

Luminaire Tested: LDSQA3D05R40W2N902765DE010 3LSQCA45R 1MW_2700K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1325117
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-78)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D05R40W2N902765DE010 3LSQCA45R 1MW_2700K
Description: 3in Adjustable Tunable White LED luminaire with, R40 optic, 2700K CCT AND, 90CRI ,
3LSQCA45R 1MW TRIM
Light Source: -
Ballast/Driver: -

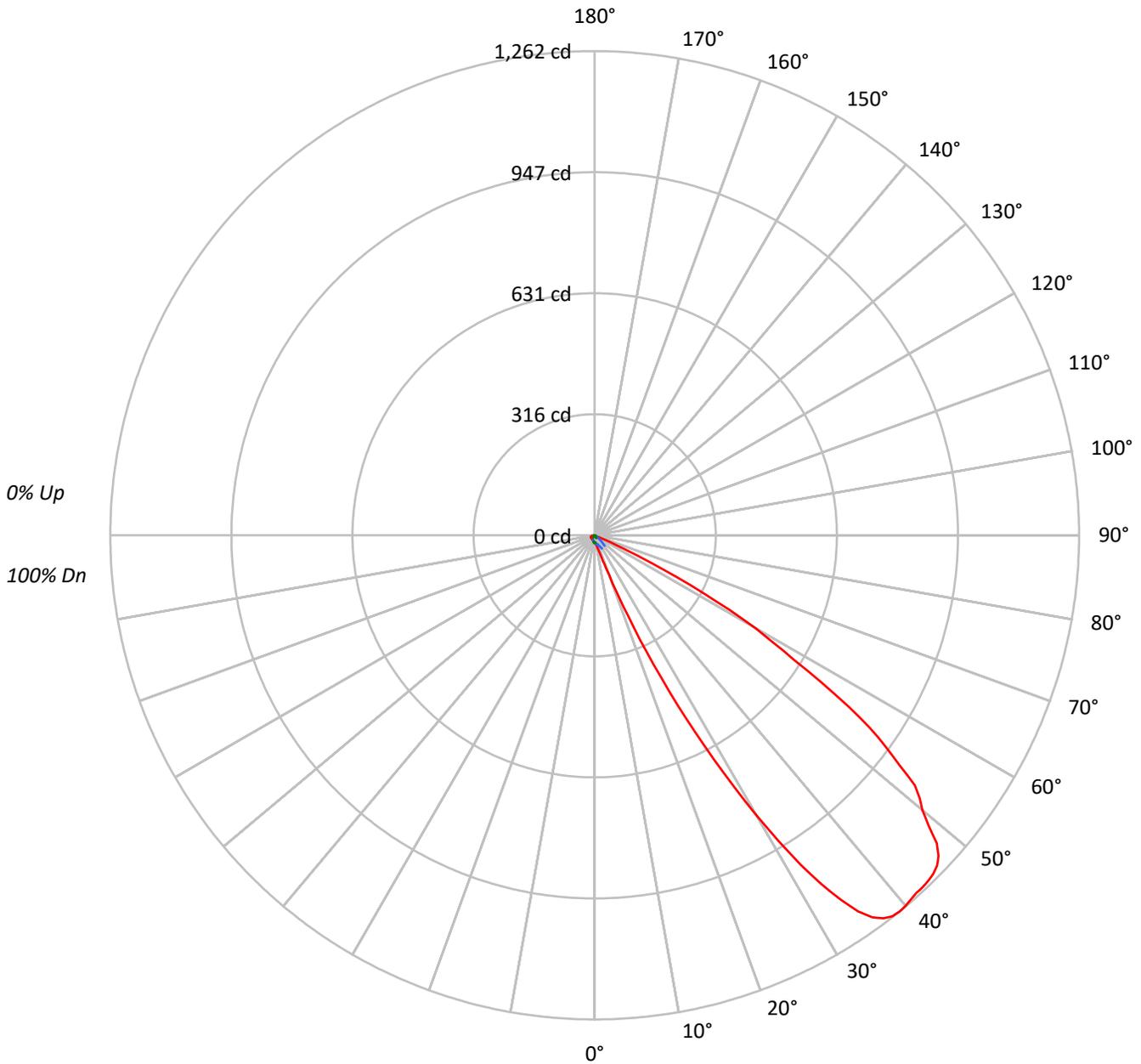
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 390.0 lumens
Efficiency: N/A
Efficacy: 66.1 lumens/watt
Spacing Criteria (0/90/45): 3.99 / 0.73 / 1.54
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: P1325117
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Luminous Intensity Polar Plot



— 0°-180° - - - 45°-225° ····· 90°-270°



TEST NUMBER: P1325117

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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 | 100 | 100 | 100 | 100 |
| 1 | 110 | 106 | 102 | 99 | 107 | 104 | 100 | 97 | 99 | 97 | 94 | 96 | 93 | 91 | 92 | 90 | 88 | 86 | 86 | 86 | 86 |
| 2 | 100 | 93 | 86 | 81 | 98 | 91 | 85 | 80 | 87 | 82 | 78 | 84 | 80 | 76 | 81 | 78 | 75 | 72 | 72 | 72 | 72 |
| 3 | 91 | 81 | 73 | 66 | 89 | 79 | 72 | 66 | 76 | 70 | 65 | 73 | 68 | 64 | 71 | 66 | 62 | 60 | 60 | 60 | 60 |
| 4 | 82 | 70 | 62 | 55 | 80 | 69 | 61 | 54 | 67 | 59 | 54 | 64 | 58 | 53 | 62 | 57 | 52 | 50 | 50 | 50 | 50 |
| 5 | 75 | 62 | 52 | 46 | 73 | 60 | 52 | 45 | 58 | 51 | 45 | 56 | 50 | 44 | 54 | 49 | 44 | 42 | 42 | 42 | 42 |
| 6 | 68 | 54 | 45 | 38 | 66 | 53 | 44 | 38 | 51 | 43 | 38 | 50 | 43 | 37 | 48 | 42 | 37 | 35 | 35 | 35 | 35 |
| 7 | 62 | 48 | 39 | 32 | 60 | 47 | 38 | 32 | 45 | 37 | 32 | 44 | 37 | 31 | 42 | 36 | 31 | 29 | 29 | 29 | 29 |
| 8 | 57 | 42 | 33 | 27 | 55 | 42 | 33 | 27 | 40 | 32 | 27 | 39 | 32 | 27 | 38 | 31 | 26 | 24 | 24 | 24 | 24 |
| 9 | 52 | 38 | 29 | 23 | 51 | 37 | 29 | 23 | 36 | 28 | 23 | 35 | 28 | 23 | 34 | 27 | 23 | 21 | 21 | 21 | 21 |
| 10 | 48 | 34 | 25 | 20 | 47 | 33 | 25 | 20 | 32 | 25 | 20 | 31 | 24 | 20 | 30 | 24 | 19 | 18 | 18 | 18 | 18 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|--------|------|------|------|------|
| 0° | 3462 | 3462 | 3462 | 3462 | 3462 |
| 5° | 3838 | 3717 | 3406 | 3095 | 3025 |
| 10° | 4634 | 3952 | 3130 | 2816 | 2763 |
| 15° | 7595 | 4279 | 2674 | 2496 | 2550 |
| 20° | 20087 | 5058 | 2236 | 2236 | 2438 |
| 25° | 77455 | 6271 | 1767 | 2033 | 2375 |
| 30° | 167087 | 8332 | 1432 | 1989 | 2347 |
| 35° | 251516 | 9860 | 1198 | 1955 | 2418 |
| 40° | 283364 | 9915 | 1057 | 2023 | 2585 |
| 45° | 303841 | 7672 | 950 | 2095 | 2801 |
| 50° | 298636 | 4796 | 857 | 2197 | 3081 |
| 55° | 262728 | 2372 | 871 | 2462 | 3453 |
| 60° | 166298 | 482 | 999 | 2721 | 3823 |
| 65° | 34027 | 163 | 1019 | 2934 | 4238 |
| 70° | 705 | 201 | 1057 | 3223 | 4884 |
| 75° | 732 | 466 | 1198 | 3593 | 5456 |
| 80° | 694 | 397 | 1389 | 3868 | 6347 |
| 85° | 790 | 790 | 2766 | 4150 | 7114 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 47°
 Luminance: 309320 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------------|--------------|--------------|
| 0°-10° | 1.9 | 0.5 |
| 10°-20° | 6.2 | 1.6 |
| 20°-30° | 30.3 | 7.8 |
| 30°-40° | 98.5 | 25.3 |
| 40°-50° | 135.8 | 34.8 |
| 50°-60° | 94.6 | 24.3 |
| 60°-70° | 17.9 | 4.6 |
| 70°-80° | 3.3 | 0.8 |
| 80°-90° | 1.5 | 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° | 38.3 | 9.8 |
| 0°-40° | 136.9 | 35.1 |
| 0°-60° | 367.3 | 94.2 |
| 0°-90° | 390.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 390.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0° | 20 | 20 | 20 | 20 | 20 | |
| 5° | 22 | 22 | 20 | 18 | 18 | 2 |
| 15° | 43 | 24 | 15 | 14 | 14 | 15 |
| 25° | 408 | 33 | 9 | 11 | 12 | 210 |
| 35° | 1196 | 47 | 6 | 9 | 12 | 723 |
| 45° | 1248 | 32 | 4 | 9 | 12 | 949 |
| 55° | 875 | 8 | 3 | 8 | 12 | 748 |
| 65° | 84 | 0 | 2 | 7 | 10 | 148 |
| 75° | 1 | 1 | 2 | 5 | 8 | 1 |
| 85° | 0 | 0 | 1 | 2 | 4 | 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° | 20.1 | 20.1 | 20.1 | 20.1 | 20.1 | 20.1 | 20.1 | 20.1 | 20.1 | 20.1 | 20.1 |
| 2.5° | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.4 | 20.1 |
| 5° | 22.2 | 22.2 | 22.2 | 22.2 | 21.8 | 21.8 | 21.8 | 21.5 | 21.5 | 20.8 | 19.7 |
| 7.5° | 23.6 | 23.6 | 23.6 | 23.6 | 23.3 | 22.9 | 22.6 | 22.6 | 22.2 | 20.4 | 19.0 |
| 10° | 26.5 | 26.5 | 26.1 | 25.8 | 25.4 | 24.7 | 24.4 | 23.6 | 22.6 | 20.1 | 17.9 |
| 12.5° | 32.2 | 31.5 | 31.2 | 30.4 | 29.4 | 27.9 | 26.5 | 25.4 | 22.9 | 19.3 | 16.8 |
| 15° | 42.6 | 41.9 | 40.5 | 38.3 | 36.2 | 33.3 | 30.8 | 28.3 | 24.0 | 18.3 | 15.0 |
| 17.5° | 60.9 | 58.7 | 56.6 | 53.0 | 47.6 | 42.6 | 37.2 | 32.6 | 25.4 | 17.2 | 13.6 |
| 20° | 109.6 | 108.2 | 95.3 | 85.2 | 69.1 | 57.7 | 46.9 | 39.0 | 27.6 | 16.1 | 12.2 |
| 22.5° | 226.0 | 211.0 | 189.8 | 155.4 | 121.1 | 89.2 | 64.8 | 49.1 | 29.7 | 14.7 | 10.7 |
| 25° | 407.6 | 383.9 | 338.5 | 272.2 | 200.9 | 142.2 | 93.8 | 64.1 | 33.0 | 13.3 | 9.3 |
| 27.5° | 617.1 | 593.1 | 522.6 | 431.2 | 314.8 | 214.5 | 134.0 | 84.9 | 37.2 | 11.8 | 8.2 |
| 30° | 840.2 | 819.8 | 730.3 | 603.9 | 443.8 | 300.5 | 179.4 | 106.0 | 41.9 | 10.4 | 7.2 |
| 31° | 930.1 | 904.0 | 807.3 | 672.6 | 504.3 | 336.0 | 197.7 | 115.0 | 43.7 | 10.0 | 6.8 |
| 32° | 1012.9 | 983.2 | 882.9 | 738.5 | 553.4 | 374.3 | 217.8 | 122.8 | 45.1 | 9.3 | 6.4 |
| 33° | 1084.2 | 1049.4 | 952.7 | 800.8 | 607.4 | 410.1 | 238.5 | 130.4 | 46.2 | 8.6 | 6.1 |
| 34° | 1144.7 | 1114.6 | 1010.7 | 863.5 | 655.4 | 444.5 | 259.0 | 137.9 | 46.9 | 8.2 | 5.7 |
| 35° | 1196.3 | 1169.0 | 1066.2 | 911.2 | 702.4 | 477.8 | 277.6 | 145.1 | 46.9 | 7.5 | 5.7 |
| 36° | 1231.0 | 1207.4 | 1114.2 | 959.9 | 741.8 | 506.1 | 293.3 | 151.5 | 46.9 | 6.8 | 5.4 |
| 37° | 1250.0 | 1227.1 | 1145.8 | 1000.0 | 780.4 | 534.0 | 307.7 | 156.5 | 46.6 | 6.4 | 5.0 |
| 38° | 1259.7 | 1239.6 | 1169.0 | 1032.6 | 807.3 | 554.1 | 320.2 | 160.5 | 46.2 | 5.7 | 5.0 |
| 39° | 1262.2 | 1245.3 | 1183.7 | 1056.2 | 833.4 | 574.1 | 329.1 | 162.6 | 45.1 | 5.4 | 4.7 |
| 40° | 1260.4 | 1245.7 | 1191.6 | 1077.3 | 853.5 | 589.9 | 335.6 | 163.3 | 44.1 | 4.7 | 4.7 |
| 41° | 1256.8 | 1245.3 | 1197.3 | 1092.0 | 869.6 | 599.9 | 338.1 | 161.9 | 42.6 | 3.9 | 4.3 |
| 42° | 1253.6 | 1241.0 | 1199.8 | 1102.1 | 880.7 | 604.9 | 337.7 | 159.0 | 40.5 | 3.6 | 4.3 |
| 43° | 1253.6 | 1239.2 | 1200.2 | 1108.5 | 886.1 | 605.3 | 333.4 | 153.7 | 37.6 | 3.2 | 3.9 |
| 44° | 1251.4 | 1238.2 | 1202.0 | 1112.8 | 887.5 | 602.1 | 326.6 | 147.9 | 34.4 | 2.9 | 3.9 |
| 45° | 1247.5 | 1233.5 | 1201.6 | 1113.2 | 885.0 | 594.2 | 315.5 | 140.4 | 31.5 | 2.1 | 3.9 |
| 46° | 1240.0 | 1227.4 | 1198.4 | 1110.7 | 877.5 | 582.7 | 302.3 | 132.9 | 28.3 | 1.8 | 3.6 |
| 47° | 1224.9 | 1215.2 | 1189.8 | 1102.1 | 866.0 | 565.9 | 286.5 | 124.3 | 25.8 | 1.4 | 3.6 |
| 48° | 1199.1 | 1192.3 | 1175.1 | 1083.1 | 844.2 | 545.1 | 269.7 | 115.0 | 23.3 | 1.4 | 3.6 |
| 49° | 1151.8 | 1146.5 | 1136.4 | 1052.6 | 816.2 | 519.7 | 251.4 | 104.6 | 20.8 | 1.1 | 3.6 |
| 50° | 1114.6 | 1108.9 | 1088.5 | 1001.4 | 776.1 | 487.5 | 231.4 | 94.2 | 17.9 | 0.7 | 3.2 |
| 51° | 1089.9 | 1080.6 | 1048.3 | 942.0 | 717.8 | 444.5 | 209.5 | 83.8 | 15.0 | 0.7 | 3.2 |
| 52° | 1058.7 | 1044.8 | 1004.6 | 888.6 | 664.4 | 401.5 | 185.9 | 73.4 | 13.3 | 0.7 | 3.2 |
| 53° | 993.5 | 988.5 | 948.8 | 831.3 | 611.0 | 360.3 | 161.5 | 64.8 | 11.5 | 0.7 | 3.2 |
| 54° | 936.6 | 929.1 | 875.0 | 751.8 | 553.0 | 314.5 | 136.5 | 57.3 | 9.7 | 0.7 | 3.2 |
| 55° | 875.0 | 860.3 | 812.3 | 684.8 | 484.9 | 272.2 | 112.5 | 49.4 | 7.9 | 0.7 | 2.9 |
| 56° | 797.3 | 784.4 | 732.8 | 613.2 | 422.3 | 229.2 | 94.2 | 40.5 | 6.1 | 0.7 | 2.9 |
| 57° | 702.7 | 690.9 | 651.1 | 525.1 | 357.1 | 187.3 | 76.6 | 32.6 | 4.7 | 0.7 | 2.9 |
| 58° | 611.4 | 598.1 | 552.6 | 440.5 | 288.3 | 148.6 | 64.1 | 26.5 | 3.6 | 0.7 | 2.9 |
| 59° | 541.2 | 523.3 | 464.5 | 370.0 | 225.6 | 112.8 | 50.9 | 21.1 | 2.5 | 0.7 | 2.9 |
| 60° | 482.8 | 468.1 | 407.2 | 308.0 | 176.9 | 83.1 | 37.6 | 16.1 | 1.4 | 0.7 | 2.9 |
| 62.5° | 279.7 | 275.8 | 221.0 | 158.7 | 83.5 | 38.7 | 18.6 | 7.5 | 0.7 | 1.1 | 2.9 |
| 65° | 83.5 | 72.7 | 56.6 | 33.7 | 21.5 | 12.9 | 6.8 | 2.5 | 0.4 | 1.1 | 2.5 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 45° | 67.5° | 90° |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|
| 67.5° | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 1.4 | 0.7 | 0.4 | 1.1 | 2.5 |
| 70° | 1.4 | 1.1 | 1.1 | 1.1 | 1.1 | 0.7 | 0.7 | 0.4 | 0.4 | 1.1 | 2.1 |
| 72.5° | 1.1 | 1.1 | 1.1 | 1.1 | 0.7 | 0.7 | 0.7 | 0.4 | 0.7 | 1.1 | 1.8 |
| 75° | 1.1 | 0.7 | 0.7 | 0.7 | 0.7 | 0.4 | 0.4 | 0.4 | 0.7 | 1.1 | 1.8 |
| 77.5° | 0.7 | 0.7 | 0.7 | 0.7 | 0.4 | 0.4 | 0.4 | 0.4 | 0.7 | 1.1 | 1.8 |
| 80° | 0.7 | 0.7 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 1.1 | 1.4 |
| 82.5° | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 1.1 | 1.4 |
| 85° | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 1.1 | 1.4 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 0.4 | 1.1 | 1.1 |
| 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: P1325117

CATALOG NUMBER: LDSQA3D05R40W2N902765DE010 3LSQCA45R 1MW_2700K

CANDELA DISTRIBUTION (continued):

| | 112.5° | 135° | 157.5° | 180° |
|-------|--------|------|--------|------|
| 0° | 20.1 | 20.1 | 20.1 | 20.1 |
| 2.5° | 19.3 | 19.0 | 18.6 | 18.6 |
| 5° | 18.6 | 17.9 | 17.9 | 17.5 |
| 7.5° | 17.5 | 16.8 | 16.8 | 16.8 |
| 10° | 16.5 | 16.1 | 16.1 | 15.8 |
| 12.5° | 15.0 | 15.0 | 15.0 | 15.0 |
| 15° | 14.0 | 14.0 | 14.3 | 14.3 |
| 17.5° | 12.5 | 12.9 | 13.6 | 14.0 |
| 20° | 11.5 | 12.2 | 12.9 | 13.3 |
| 22.5° | 10.7 | 11.5 | 12.5 | 12.9 |
| 25° | 9.7 | 10.7 | 12.2 | 12.5 |
| 27.5° | 9.0 | 10.4 | 11.5 | 12.2 |
| 30° | 8.2 | 10.0 | 11.1 | 11.8 |
| 31° | 8.2 | 9.7 | 11.1 | 11.8 |
| 32° | 7.9 | 9.3 | 11.1 | 11.5 |
| 33° | 7.9 | 9.3 | 11.1 | 11.5 |
| 34° | 7.5 | 9.3 | 10.7 | 11.5 |
| 35° | 7.5 | 9.3 | 10.7 | 11.5 |
| 36° | 7.2 | 9.0 | 10.7 | 11.5 |
| 37° | 7.2 | 9.0 | 10.7 | 11.5 |
| 38° | 6.8 | 9.0 | 10.7 | 11.5 |
| 39° | 6.8 | 9.0 | 10.7 | 11.5 |
| 40° | 6.8 | 9.0 | 10.7 | 11.5 |
| 41° | 6.4 | 9.0 | 10.7 | 11.5 |
| 42° | 6.4 | 9.0 | 10.7 | 11.5 |
| 43° | 6.4 | 8.6 | 10.7 | 11.5 |
| 44° | 6.4 | 8.6 | 10.7 | 11.5 |
| 45° | 6.1 | 8.6 | 10.7 | 11.5 |
| 46° | 6.1 | 8.6 | 10.7 | 11.5 |
| 47° | 6.1 | 8.6 | 10.7 | 11.5 |
| 48° | 6.1 | 8.6 | 10.7 | 11.5 |
| 49° | 6.1 | 8.6 | 10.7 | 11.5 |
| 50° | 5.7 | 8.2 | 10.7 | 11.5 |
| 51° | 5.7 | 8.2 | 10.7 | 11.5 |
| 52° | 5.7 | 8.2 | 10.7 | 11.5 |
| 53° | 5.7 | 8.2 | 10.7 | 11.5 |
| 54° | 5.4 | 8.2 | 10.7 | 11.5 |
| 55° | 5.4 | 8.2 | 10.7 | 11.5 |
| 56° | 5.4 | 8.2 | 10.7 | 11.1 |
| 57° | 5.4 | 8.2 | 10.4 | 11.1 |
| 58° | 5.4 | 7.9 | 10.4 | 11.1 |
| 59° | 5.4 | 7.9 | 10.4 | 11.1 |
| 60° | 5.4 | 7.9 | 10.4 | 11.1 |
| 62.5° | 5.0 | 7.9 | 10.0 | 10.7 |
| 65° | 4.7 | 7.2 | 10.0 | 10.4 |



TEST NUMBER: P1325117

CATALOG NUMBER: LDSQA3D05R40W2N902765DE010 3LSQCA45R 1MW_2700K

CANDELA DISTRIBUTION (continued):

| | 112.5° | 135° | 157.5° | 180° |
|-------|--------|------|--------|------|
| 67.5° | 4.7 | 6.8 | 9.3 | 10.0 |
| 70° | 4.3 | 6.4 | 9.0 | 9.7 |
| 72.5° | 3.6 | 6.1 | 8.2 | 9.0 |
| 75° | 3.2 | 5.4 | 7.5 | 8.2 |
| 77.5° | 2.9 | 4.7 | 6.8 | 7.2 |
| 80° | 2.5 | 3.9 | 5.7 | 6.4 |
| 82.5° | 1.8 | 2.9 | 4.7 | 5.0 |
| 85° | 1.4 | 2.1 | 3.2 | 3.6 |
| 87.5° | 1.1 | 1.1 | 1.8 | 1.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)