

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: io LED

Report Number: P182805

Luminaire Tested: **LDSQA4A18940D010TE LAR25NF 4LSQAL1H 30°**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P182805
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26803)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDSQA4A18940D010TE LAR25NF 4LSQAL1H 30°
Description: PORTFOLIO 4" SQUARE LENSED ADJUSTABLE, SELF-FLANGED, 25° NARROW FLOOD, 30° Tilt
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1755.1 lumens
Efficiency: N/A
Efficacy: 60.3 lumens/watt
Spacing Criteria (0/90/45): 2.36 / 0.61 / 1.19
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

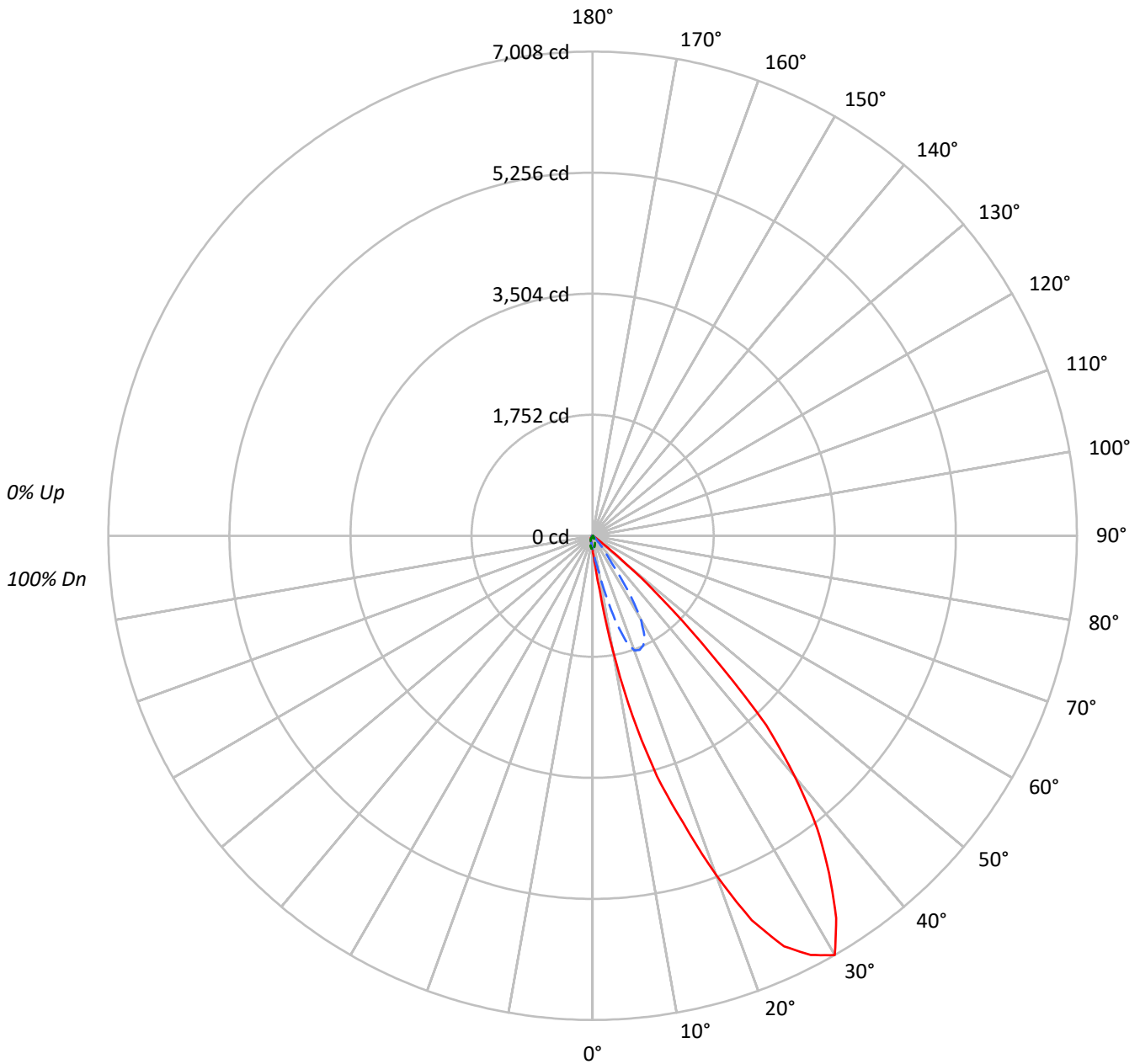
Input Watts (W): 29.12
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P182805

CATALOG NUMBER: LDSQA4A18940D010TE LAR25NF 4LSQAL1H 30°

Luminous Intensity Polar Plot





TEST NUMBER: P182805

CATALOG NUMBER: LDSQA4A18940D010TE LAR25NF 4LSQAL1H 30°

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|---|--|--|--|--|--|--|----|--|--|--|--|--|--|--|--|---|
| RF | 20 | | | | | | | | | 20 | | | | | | | | | 20 | | | | | | | | | 20 | | | | | | | | | |
| RC | 80 | | | | | | | | | 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 | | | | | | | | | | | | | | | | | | | |
| 1 | 113 | 109 | 106 | 104 | 110 | 107 | 105 | 102 | 103 | 101 | 99 | 99 | 98 | 96 | 96 | 95 | 93 | 91 | | | | | | | | | | | | | | | | | | | |
| 2 | 106 | 100 | 95 | 91 | 103 | 98 | 94 | 90 | 95 | 91 | 88 | 92 | 89 | 86 | 89 | 87 | 85 | 83 | | | | | | | | | | | | | | | | | | | |
| 3 | 99 | 91 | 86 | 81 | 97 | 90 | 85 | 80 | 87 | 83 | 79 | 85 | 81 | 78 | 82 | 79 | 76 | 75 | | | | | | | | | | | | | | | | | | | |
| 4 | 93 | 84 | 77 | 72 | 91 | 83 | 76 | 72 | 80 | 75 | 71 | 78 | 74 | 70 | 76 | 72 | 69 | 67 | | | | | | | | | | | | | | | | | | | |
| 5 | 87 | 77 | 70 | 65 | 85 | 76 | 69 | 64 | 74 | 68 | 64 | 72 | 67 | 63 | 70 | 66 | 63 | 61 | | | | | | | | | | | | | | | | | | | |
| 6 | 81 | 70 | 63 | 58 | 79 | 69 | 63 | 58 | 68 | 62 | 57 | 66 | 61 | 57 | 65 | 60 | 57 | 55 | | | | | | | | | | | | | | | | | | | |
| 7 | 76 | 65 | 57 | 52 | 74 | 64 | 57 | 52 | 62 | 56 | 52 | 61 | 56 | 52 | 60 | 55 | 51 | 50 | | | | | | | | | | | | | | | | | | | |
| 8 | 71 | 59 | 52 | 47 | 69 | 59 | 52 | 47 | 58 | 51 | 47 | 57 | 51 | 47 | 55 | 50 | 47 | 45 | | | | | | | | | | | | | | | | | | | |
| 9 | 66 | 55 | 48 | 43 | 65 | 54 | 48 | 43 | 53 | 47 | 43 | 52 | 47 | 43 | 51 | 46 | 42 | 41 | | | | | | | | | | | | | | | | | | | |
| 10 | 62 | 51 | 44 | 39 | 61 | 50 | 44 | 39 | 49 | 43 | 39 | 48 | 43 | 39 | 48 | 42 | 39 | 37 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|--------|-------|-------|
| 0° | 18949 | 18949 | 18949 |
| 5° | 42418 | 17825 | 12768 |
| 10° | 166353 | 15601 | 10053 |
| 15° | 361124 | 12637 | 8746 |
| 20° | 538721 | 9361 | 7907 |
| 25° | 700708 | 6595 | 6873 |
| 30° | 783874 | 4441 | 6018 |
| 35° | 705439 | 2602 | 5109 |
| 40° | 575705 | 1783 | 4451 |
| 45° | 330560 | 1206 | 3617 |
| 50° | 96681 | 934 | 3059 |
| 55° | 11164 | 743 | 2533 |
| 60° | 2383 | 853 | 2054 |
| 65° | 802 | 802 | 1421 |
| 70° | 736 | 991 | 991 |
| 75° | 674 | 1310 | 973 |
| 80° | 0 | 1953 | 1004 |
| 85° | 0 | 3890 | 1000 |



TEST NUMBER: P182805

CATALOG NUMBER: LDSQA4A18940D010TE LAR25NF 4LSQAL1H 30°

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 28.0 | 1.6 |
| 10°-20° | 240.3 | 13.7 |
| 20°-30° | 573.2 | 32.7 |
| 30°-40° | 604.9 | 34.5 |
| 40°-50° | 274.3 | 15.6 |
| 50°-60° | 24.1 | 1.4 |
| 60°-70° | 5.0 | 0.3 |
| 70°-80° | 3.3 | 0.2 |
| 80°-90° | 2.0 | 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° | 841.5 | 47.9 |
| 0°-40° | 1446.4 | 82.4 |
| 0°-60° | 1744.7 | 99.4 |
| 0°-90° | 1755.1 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1755.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0° | 196 | 196 | 196 | 196 | 196 | |
| 5° | 436 | 320 | 183 | 141 | 131 | 78 |
| 15° | 3601 | 1266 | 126 | 86 | 87 | 1048 |
| 25° | 6555 | 1743 | 62 | 53 | 64 | 2978 |
| 35° | 5965 | 481 | 22 | 30 | 43 | 3684 |
| 45° | 2413 | 68 | 9 | 17 | 26 | 1913 |
| 55° | 66 | 11 | 4 | 10 | 15 | 132 |
| 65° | 4 | 4 | 4 | 7 | 6 | 5 |
| 75° | 2 | 2 | 4 | 4 | 3 | 1 |
| 85° | 0 | 2 | 4 | 3 | 1 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P182805

CATALOG NUMBER: LDSQA4A18940D010TE LAR25NF 4LSQAL1H 30°

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 25° | 30° | 35° | 40° | 45° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 195.6 | 195.6 | 195.6 | 195.6 | 195.6 | 195.6 | 195.6 | 195.6 | 195.6 | 195.6 | 195.6 |
| 2.5° | 290.8 | 292.6 | 284.6 | 285.5 | 277.6 | 281.1 | 278.5 | 271.4 | 266.1 | 257.3 | 253.8 |
| 5° | 436.2 | 438.8 | 421.2 | 415.9 | 397.4 | 397.4 | 389.5 | 371.0 | 354.3 | 334.0 | 319.9 |
| 7.5° | 797.5 | 808.1 | 755.2 | 715.6 | 657.4 | 643.3 | 616.0 | 552.5 | 500.5 | 447.7 | 408.0 |
| 10° | 1691.1 | 1671.7 | 1562.4 | 1472.5 | 1322.7 | 1267.2 | 1193.2 | 1010.8 | 843.3 | 676.8 | 546.4 |
| 12.5° | 2666.6 | 2729.1 | 2518.5 | 2445.4 | 2208.3 | 2158.1 | 2000.4 | 1702.5 | 1419.6 | 1125.3 | 864.5 |
| 15° | 3600.7 | 3619.2 | 3435.0 | 3316.0 | 3027.0 | 2961.8 | 2767.9 | 2418.1 | 2037.4 | 1626.7 | 1266.3 |
| 17.5° | 4350.6 | 4424.6 | 4154.1 | 4026.3 | 3650.9 | 3546.0 | 3317.8 | 2892.2 | 2468.3 | 2019.8 | 1592.4 |
| 20° | 5225.6 | 5245.0 | 4924.3 | 4678.4 | 4187.6 | 4028.1 | 3754.9 | 3227.0 | 2722.1 | 2210.1 | 1768.6 |
| 22.5° | 6021.4 | 6017.0 | 5604.6 | 5257.4 | 4636.1 | 4445.8 | 4108.2 | 3482.6 | 2895.7 | 2294.7 | 1785.4 |
| 25° | 6555.4 | 6569.5 | 6128.0 | 5717.4 | 4955.1 | 4697.8 | 4317.1 | 3615.6 | 2954.7 | 2292.1 | 1743.1 |
| 27.5° | 6840.0 | 6825.9 | 6352.7 | 5913.9 | 5072.3 | 4784.1 | 4370.8 | 3620.0 | 2901.0 | 2202.2 | 1616.2 |
| 30° | 7007.5 | 6818.9 | 6313.9 | 5858.3 | 4993.0 | 4696.9 | 4276.6 | 3480.8 | 2722.1 | 2001.2 | 1389.7 |
| 32.5° | 6559.8 | 6486.7 | 6046.9 | 5563.1 | 4719.8 | 4426.4 | 4011.3 | 3184.7 | 2438.3 | 1693.7 | 995.8 |
| 35° | 5965.0 | 5967.6 | 5538.5 | 5086.4 | 4291.5 | 4036.0 | 3607.7 | 2824.3 | 2092.0 | 1177.3 | 481.1 |
| 37.5° | 5341.1 | 5349.9 | 4941.9 | 4521.5 | 3813.9 | 3545.1 | 3144.2 | 2413.7 | 1505.1 | 599.2 | 289.9 |
| 40° | 4552.4 | 4570.9 | 4219.3 | 3881.8 | 3228.8 | 2969.7 | 2611.9 | 1826.8 | 841.6 | 334.9 | 196.5 |
| 42.5° | 3719.6 | 3742.5 | 3430.6 | 3131.0 | 2575.8 | 2362.5 | 2045.3 | 1131.5 | 417.7 | 216.8 | 115.4 |
| 45° | 2412.8 | 2478.9 | 2247.1 | 2121.1 | 1799.5 | 1672.6 | 1335.0 | 577.2 | 252.0 | 126.9 | 67.9 |
| 47.5° | 1380.9 | 1381.8 | 1186.1 | 950.0 | 779.0 | 677.7 | 529.6 | 262.6 | 147.2 | 71.4 | 41.4 |
| 50° | 641.5 | 657.4 | 520.8 | 433.6 | 310.2 | 262.6 | 215.9 | 141.9 | 77.5 | 41.4 | 25.6 |
| 52.5° | 186.8 | 197.4 | 178.9 | 162.1 | 137.5 | 122.5 | 104.9 | 69.6 | 40.5 | 24.7 | 15.9 |
| 55° | 66.1 | 70.5 | 66.1 | 61.7 | 55.5 | 50.2 | 44.9 | 33.5 | 22.9 | 15.0 | 10.6 |
| 57.5° | 27.3 | 28.2 | 27.3 | 26.4 | 24.7 | 24.7 | 22.0 | 18.5 | 14.1 | 9.7 | 7.0 |
| 60° | 12.3 | 13.2 | 12.3 | 13.2 | 12.3 | 12.3 | 12.3 | 13.2 | 8.8 | 6.2 | 5.3 |
| 62.5° | 5.3 | 6.2 | 6.2 | 6.2 | 6.2 | 7.0 | 7.0 | 6.2 | 5.3 | 4.4 | 3.5 |
| 65° | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 |
| 67.5° | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 |
| 70° | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 1.8 | 1.8 | 2.6 | 2.6 | 2.6 |
| 72.5° | 2.6 | 2.6 | 2.6 | 2.6 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 2.6 | 2.6 |
| 75° | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 |
| 77.5° | 0.0 | 0.0 | 0.0 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 1.8 | 1.8 | 1.8 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.9 | 0.9 | 0.9 | 0.9 | 1.8 | 1.8 | 1.8 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 1.8 | 1.8 | 1.8 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.9 | 0.9 | 0.9 | 0.9 | 1.8 | 1.8 | 1.8 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.9 | 0.9 | 0.9 | 0.9 | 1.8 | 1.8 | 1.8 |
| 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: P182805

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CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° | 95° |
|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 195.6 | 195.6 | 195.6 | 195.6 | 195.6 | 195.6 | 195.6 | 195.6 | 195.6 | 195.6 | 195.6 |
| 2.5° | 249.4 | 241.5 | 229.1 | 221.2 | 217.7 | 212.4 | 208.8 | 200.0 | 196.5 | 189.5 | 186.8 |
| 5° | 306.7 | 290.8 | 272.3 | 257.3 | 247.6 | 237.0 | 221.2 | 203.6 | 194.7 | 183.3 | 177.1 |
| 7.5° | 371.9 | 337.5 | 304.9 | 278.5 | 266.1 | 252.0 | 231.8 | 204.4 | 187.7 | 172.7 | 163.9 |
| 10° | 454.7 | 384.2 | 333.1 | 290.8 | 272.3 | 253.8 | 229.1 | 197.4 | 176.2 | 158.6 | 148.9 |
| 12.5° | 648.6 | 463.5 | 358.7 | 297.9 | 274.1 | 251.1 | 220.3 | 187.7 | 163.0 | 142.8 | 132.2 |
| 15° | 933.2 | 647.7 | 427.4 | 304.0 | 267.9 | 239.7 | 204.4 | 171.8 | 146.3 | 126.0 | 115.4 |
| 17.5° | 1185.2 | 825.7 | 522.6 | 326.9 | 266.1 | 226.5 | 185.1 | 151.6 | 126.9 | 107.5 | 98.7 |
| 20° | 1322.7 | 919.1 | 586.0 | 341.0 | 258.2 | 206.2 | 163.0 | 131.3 | 107.5 | 90.8 | 82.8 |
| 22.5° | 1325.4 | 913.8 | 563.1 | 310.2 | 227.4 | 178.9 | 141.0 | 111.0 | 89.9 | 74.9 | 68.7 |
| 25° | 1246.0 | 815.1 | 469.7 | 244.1 | 185.9 | 151.6 | 118.1 | 92.5 | 73.1 | 61.7 | 56.4 |
| 27.5° | 1098.0 | 662.7 | 345.4 | 176.2 | 145.4 | 122.5 | 95.2 | 74.0 | 57.3 | 50.2 | 45.8 |
| 30° | 863.6 | 431.8 | 201.8 | 131.3 | 112.8 | 94.3 | 72.3 | 52.0 | 44.9 | 39.7 | 36.1 |
| 32.5° | 463.5 | 209.7 | 141.0 | 96.9 | 80.2 | 66.1 | 47.6 | 37.9 | 32.6 | 29.1 | 28.2 |
| 35° | 242.3 | 153.3 | 94.3 | 61.7 | 51.1 | 43.2 | 32.6 | 26.4 | 23.8 | 22.0 | 22.0 |
| 37.5° | 173.6 | 96.1 | 59.9 | 39.7 | 33.5 | 27.3 | 22.9 | 19.4 | 17.6 | 17.6 | 17.6 |
| 40° | 103.1 | 59.0 | 36.1 | 25.6 | 22.0 | 19.4 | 16.7 | 14.1 | 14.1 | 14.1 | 14.1 |
| 42.5° | 62.6 | 37.0 | 25.6 | 17.6 | 15.9 | 14.1 | 12.3 | 11.5 | 10.6 | 10.6 | 11.5 |
| 45° | 38.8 | 25.6 | 16.7 | 13.2 | 12.3 | 10.6 | 9.7 | 8.8 | 8.8 | 8.8 | 9.7 |
| 47.5° | 24.7 | 18.5 | 12.3 | 8.8 | 7.9 | 7.0 | 6.2 | 6.2 | 7.0 | 7.0 | 7.9 |
| 50° | 18.5 | 11.5 | 7.9 | 6.2 | 5.3 | 5.3 | 4.4 | 5.3 | 5.3 | 6.2 | 7.0 |
| 52.5° | 10.6 | 7.0 | 5.3 | 4.4 | 4.4 | 3.5 | 3.5 | 4.4 | 4.4 | 5.3 | 6.2 |
| 55° | 7.0 | 5.3 | 4.4 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 4.4 | 4.4 | 5.3 |
| 57.5° | 5.3 | 4.4 | 3.5 | 3.5 | 3.5 | 2.6 | 3.5 | 3.5 | 3.5 | 4.4 | 5.3 |
| 60° | 4.4 | 3.5 | 3.5 | 3.5 | 3.5 | 2.6 | 2.6 | 3.5 | 3.5 | 4.4 | 4.4 |
| 62.5° | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 2.6 | 3.5 | 3.5 | 3.5 | 3.5 | 4.4 |
| 65° | 2.6 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 4.4 |
| 67.5° | 2.6 | 2.6 | 3.5 | 3.5 | 3.5 | 2.6 | 3.5 | 3.5 | 3.5 | 3.5 | 4.4 |
| 70° | 2.6 | 2.6 | 2.6 | 3.5 | 3.5 | 2.6 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 |
| 72.5° | 2.6 | 2.6 | 2.6 | 3.5 | 3.5 | 2.6 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 |
| 75° | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 3.5 | 3.5 | 3.5 |
| 77.5° | 2.6 | 2.6 | 2.6 | 2.6 | 3.5 | 2.6 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 |
| 80° | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 |
| 82.5° | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 3.5 | 3.5 | 3.5 | 3.5 |
| 85° | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 3.5 | 3.5 | 3.5 | 3.5 |
| 87.5° | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 3.5 | 3.5 | 3.5 |
| 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: P182805

CATALOG NUMBER: LDSQA4A18940D010TE LAR25NF 4LSQAL1H 30°

CANDELA DISTRIBUTION (continued):

| | 100° | 105° | 110° | 112.5° | 115° | 120° | 125° | 130° | 135° | 140° | 145° |
|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 195.6 | 195.6 | 195.6 | 195.6 | 195.6 | 195.6 | 195.6 | 195.6 | 195.6 | 195.6 | 195.6 |
| 2.5° | 179.8 | 177.1 | 171.8 | 171.0 | 170.1 | 166.6 | 163.9 | 161.3 | 161.3 | 158.6 | 156.9 |
| 5° | 166.6 | 162.1 | 156.0 | 153.3 | 152.5 | 148.0 | 144.5 | 141.9 | 141.0 | 138.4 | 135.7 |
| 7.5° | 152.5 | 147.2 | 140.1 | 137.5 | 136.6 | 132.2 | 128.7 | 126.0 | 124.3 | 121.6 | 119.8 |
| 10° | 137.5 | 131.3 | 125.1 | 122.5 | 121.6 | 117.2 | 114.6 | 111.9 | 110.2 | 108.4 | 106.6 |
| 12.5° | 121.6 | 116.3 | 110.2 | 107.5 | 106.6 | 103.1 | 100.5 | 98.7 | 97.8 | 96.1 | 95.2 |
| 15° | 105.7 | 100.5 | 95.2 | 93.4 | 92.5 | 89.9 | 88.1 | 87.2 | 86.4 | 86.4 | 85.5 |
| 17.5° | 89.9 | 85.5 | 81.1 | 80.2 | 79.3 | 77.5 | 76.7 | 75.8 | 76.7 | 76.7 | 77.5 |
| 20° | 74.9 | 71.4 | 67.9 | 67.9 | 67.0 | 66.1 | 66.1 | 66.1 | 67.9 | 68.7 | 70.5 |
| 22.5° | 61.7 | 59.0 | 56.4 | 56.4 | 56.4 | 56.4 | 56.4 | 58.2 | 59.9 | 61.7 | 62.6 |
| 25° | 51.1 | 48.5 | 47.6 | 47.6 | 47.6 | 48.5 | 49.3 | 51.1 | 52.9 | 54.6 | 56.4 |
| 27.5° | 41.4 | 39.7 | 39.7 | 39.7 | 40.5 | 41.4 | 42.3 | 44.1 | 46.7 | 48.5 | 50.2 |
| 30° | 33.5 | 32.6 | 32.6 | 33.5 | 34.4 | 35.2 | 37.0 | 38.8 | 40.5 | 42.3 | 44.1 |
| 32.5° | 26.4 | 27.3 | 27.3 | 28.2 | 29.1 | 30.0 | 31.7 | 33.5 | 35.2 | 37.0 | 37.9 |
| 35° | 22.0 | 22.0 | 22.9 | 23.8 | 24.7 | 25.6 | 27.3 | 29.1 | 30.0 | 31.7 | 33.5 |
| 37.5° | 17.6 | 18.5 | 19.4 | 20.3 | 21.1 | 22.0 | 22.9 | 24.7 | 25.6 | 27.3 | 29.1 |
| 40° | 15.0 | 15.9 | 16.7 | 17.6 | 17.6 | 19.4 | 19.4 | 21.1 | 22.0 | 23.8 | 25.6 |
| 42.5° | 12.3 | 13.2 | 14.1 | 15.0 | 15.0 | 15.9 | 16.7 | 17.6 | 19.4 | 20.3 | 22.0 |
| 45° | 9.7 | 10.6 | 11.5 | 12.3 | 13.2 | 14.1 | 14.1 | 15.9 | 16.7 | 17.6 | 19.4 |
| 47.5° | 8.8 | 9.7 | 10.6 | 10.6 | 11.5 | 12.3 | 12.3 | 14.1 | 15.0 | 15.9 | 16.7 |
| 50° | 7.0 | 7.9 | 8.8 | 9.7 | 9.7 | 10.6 | 11.5 | 12.3 | 13.2 | 14.1 | 14.1 |
| 52.5° | 6.2 | 7.0 | 7.9 | 7.9 | 8.8 | 9.7 | 9.7 | 10.6 | 11.5 | 11.5 | 12.3 |
| 55° | 6.2 | 7.0 | 7.0 | 7.9 | 7.9 | 8.8 | 8.8 | 9.7 | 9.7 | 10.6 | 10.6 |
| 57.5° | 5.3 | 6.2 | 6.2 | 7.0 | 7.0 | 7.9 | 7.9 | 8.8 | 8.8 | 8.8 | 9.7 |
| 60° | 5.3 | 5.3 | 6.2 | 6.2 | 7.0 | 7.0 | 7.0 | 7.9 | 7.9 | 7.9 | 8.8 |
| 62.5° | 4.4 | 5.3 | 5.3 | 6.2 | 6.2 | 6.2 | 7.0 | 7.0 | 7.0 | 7.9 | 7.9 |
| 65° | 4.4 | 5.3 | 5.3 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 | 7.0 | 7.0 | 7.0 |
| 67.5° | 4.4 | 4.4 | 5.3 | 5.3 | 5.3 | 5.3 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 |
| 70° | 4.4 | 4.4 | 4.4 | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 |
| 72.5° | 3.5 | 4.4 | 4.4 | 4.4 | 4.4 | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 | 4.4 |
| 75° | 3.5 | 3.5 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 |
| 77.5° | 3.5 | 3.5 | 3.5 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 3.5 | 3.5 |
| 80° | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 2.6 |
| 82.5° | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 2.6 | 2.6 | 2.6 |
| 85° | 3.5 | 2.6 | 3.5 | 3.5 | 3.5 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 1.8 |
| 87.5° | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 1.8 | 1.8 |
| 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: P182805

CATALOG NUMBER: LDSQA4A18940D010TE LAR25NF 4LSQAL1H 30°

CANDELA DISTRIBUTION (continued):

| | 150° | 155° | 157.5° | 160° | 165° | 170° | 175° | 180° |
|-------|-------|-------|--------|-------|-------|-------|-------|-------|
| 0° | 195.6 | 195.6 | 195.6 | 195.6 | 195.6 | 195.6 | 195.6 | 195.6 |
| 2.5° | 155.1 | 153.3 | 154.2 | 154.2 | 152.5 | 151.6 | 151.6 | 152.5 |
| 5° | 133.9 | 132.2 | 133.1 | 133.1 | 131.3 | 130.4 | 130.4 | 131.3 |
| 7.5° | 118.1 | 116.3 | 117.2 | 117.2 | 115.4 | 115.4 | 115.4 | 115.4 |
| 10° | 105.7 | 104.9 | 104.9 | 104.9 | 103.1 | 104.0 | 103.1 | 102.2 |
| 12.5° | 94.3 | 94.3 | 94.3 | 94.3 | 93.4 | 94.3 | 93.4 | 93.4 |
| 15° | 85.5 | 85.5 | 86.4 | 86.4 | 86.4 | 87.2 | 87.2 | 87.2 |
| 17.5° | 78.4 | 79.3 | 80.2 | 81.1 | 81.1 | 82.0 | 82.0 | 82.0 |
| 20° | 71.4 | 73.1 | 74.0 | 74.9 | 74.9 | 76.7 | 75.8 | 76.7 |
| 22.5° | 64.3 | 66.1 | 67.0 | 67.9 | 68.7 | 69.6 | 69.6 | 70.5 |
| 25° | 58.2 | 59.9 | 60.8 | 61.7 | 62.6 | 64.3 | 64.3 | 64.3 |
| 27.5° | 52.0 | 53.8 | 54.6 | 56.4 | 57.3 | 59.0 | 59.0 | 59.0 |
| 30° | 45.8 | 47.6 | 48.5 | 49.3 | 51.1 | 52.9 | 52.9 | 53.8 |
| 32.5° | 39.7 | 42.3 | 43.2 | 44.1 | 45.8 | 47.6 | 48.5 | 48.5 |
| 35° | 35.2 | 37.0 | 37.9 | 39.7 | 40.5 | 43.2 | 43.2 | 43.2 |
| 37.5° | 30.8 | 32.6 | 34.4 | 35.2 | 36.1 | 37.9 | 38.8 | 39.7 |
| 40° | 27.3 | 29.1 | 30.0 | 30.8 | 32.6 | 34.4 | 35.2 | 35.2 |
| 42.5° | 23.8 | 25.6 | 26.4 | 27.3 | 28.2 | 30.0 | 30.0 | 30.0 |
| 45° | 21.1 | 22.0 | 22.9 | 23.8 | 24.7 | 25.6 | 26.4 | 26.4 |
| 47.5° | 17.6 | 19.4 | 19.4 | 20.3 | 21.1 | 22.9 | 22.9 | 23.8 |
| 50° | 15.0 | 16.7 | 16.7 | 17.6 | 18.5 | 19.4 | 20.3 | 20.3 |
| 52.5° | 13.2 | 14.1 | 15.0 | 15.0 | 15.9 | 16.7 | 17.6 | 17.6 |
| 55° | 11.5 | 12.3 | 12.3 | 13.2 | 13.2 | 14.1 | 15.0 | 15.0 |
| 57.5° | 9.7 | 10.6 | 11.5 | 11.5 | 11.5 | 12.3 | 12.3 | 13.2 |
| 60° | 8.8 | 9.7 | 9.7 | 9.7 | 9.7 | 10.6 | 10.6 | 10.6 |
| 62.5° | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 |
| 65° | 7.0 | 7.0 | 7.0 | 7.0 | 6.2 | 6.2 | 6.2 | 6.2 |
| 67.5° | 6.2 | 6.2 | 6.2 | 6.2 | 5.3 | 5.3 | 5.3 | 5.3 |
| 70° | 5.3 | 5.3 | 5.3 | 5.3 | 4.4 | 4.4 | 4.4 | 3.5 |
| 72.5° | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 3.5 | 3.5 | 3.5 |
| 75° | 4.4 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 2.6 | 2.6 |
| 77.5° | 3.5 | 3.5 | 3.5 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 |
| 80° | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 1.8 | 1.8 | 1.8 |
| 82.5° | 2.6 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 |
| 85° | 1.8 | 1.8 | 1.8 | 1.8 | 0.9 | 0.9 | 0.9 | 0.9 |
| 87.5° | 1.8 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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













(END OF REPORT)