



IES INDOOR REPORT
PHOTOMETRIC FILENAME : SDL4-LED-60L-FL-40.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-9685
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]03/30/18
[TEST DATE]02/07/18
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMCAT]SDL4-LED-60L-FL-40
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER]TEST PROCEDURE: IESNA LM-79-08
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Indoor

CHARACTERISTICS

| | |
|---------------------------------|---------------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 6019 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 137 |
| Total Luminaire Watts | 43.9 |
| Ballast Factor | 1.00 |
| CIE Type | Semi-Direct |
| Spacing Criterion (0-180) | 1.32 |
| Spacing Criterion (90-270) | 1.38 |
| Spacing Criterion (Diagonal) | 1.48 |
| Basic Luminous Shape | Rectangular w/Sides |
| Luminous Length (0-180) | 4.00 ft |
| Luminous Width (90-270) | 0.25 ft |
| Luminous Height | 0.25 ft |

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 14843 | 9691 | 9072 |
| 55 | 13959 | 8429 | 8084 |
| 65 | 12543 | 7202 | 7162 |
| 75 | 10107 | 6073 | 6269 |
| 85 | 4822 | 5096 | 5618 |

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CANDELA TABULATION

| | <u>0.0</u> | <u>22.5</u> | <u>45.0</u> | <u>67.5</u> | <u>90.0</u> |
|-------|------------|-------------|-------------|-------------|-------------|
| 0.0 | 1473 | 1473 | 1473 | 1473 | 1473 |
| 2.5 | 1510 | 1486 | 1475 | 1462 | 1449 |
| 5.0 | 1510 | 1486 | 1475 | 1463 | 1450 |
| 7.5 | 1506 | 1482 | 1472 | 1462 | 1449 |
| 10.0 | 1499 | 1476 | 1467 | 1459 | 1448 |
| 12.5 | 1488 | 1466 | 1460 | 1454 | 1445 |
| 15.0 | 1474 | 1455 | 1451 | 1448 | 1439 |
| 17.5 | 1457 | 1439 | 1438 | 1439 | 1432 |
| 20.0 | 1437 | 1420 | 1423 | 1429 | 1422 |
| 22.5 | 1412 | 1399 | 1405 | 1415 | 1410 |
| 25.0 | 1384 | 1374 | 1385 | 1399 | 1397 |
| 27.5 | 1353 | 1346 | 1362 | 1380 | 1380 |
| 30.0 | 1317 | 1314 | 1335 | 1358 | 1360 |
| 32.5 | 1278 | 1278 | 1304 | 1335 | 1338 |
| 35.0 | 1236 | 1239 | 1271 | 1308 | 1313 |
| 37.5 | 1189 | 1197 | 1235 | 1279 | 1286 |
| 40.0 | 1141 | 1153 | 1198 | 1247 | 1257 |
| 42.5 | 1092 | 1105 | 1157 | 1214 | 1226 |
| 45.0 | 1037 | 1056 | 1116 | 1178 | 1193 |
| 47.5 | 983 | 1006 | 1071 | 1140 | 1159 |
| 50.0 | 927 | 954 | 1026 | 1101 | 1122 |
| 52.5 | 870 | 901 | 979 | 1061 | 1084 |
| 55.0 | 811 | 847 | 932 | 1018 | 1047 |
| 57.5 | 752 | 790 | 883 | 975 | 1008 |
| 60.0 | 687 | 734 | 834 | 932 | 967 |
| 62.5 | 625 | 674 | 786 | 889 | 926 |
| 65.0 | 559 | 617 | 739 | 847 | 885 |
| 67.5 | 494 | 560 | 692 | 802 | 842 |
| 70.0 | 429 | 505 | 645 | 760 | 798 |
| 72.5 | 364 | 450 | 599 | 715 | 754 |
| 75.0 | 300 | 399 | 556 | 672 | 714 |
| 77.5 | 237 | 349 | 511 | 633 | 676 |
| 80.0 | 174 | 301 | 471 | 595 | 638 |
| 82.5 | 118 | 258 | 432 | 558 | 602 |
| 85.0 | 67 | 220 | 396 | 521 | 566 |
| 87.5 | 29 | 187 | 362 | 486 | 528 |
| 90.0 | 8 | 157 | 330 | 450 | 494 |
| 92.5 | 3 | 132 | 298 | 416 | 460 |
| 95.0 | 2 | 109 | 269 | 384 | 425 |
| 97.5 | 2 | 91 | 241 | 353 | 393 |
| 100.0 | 2 | 75 | 217 | 324 | 363 |
| 102.5 | 2 | 62 | 194 | 297 | 335 |
| 105.0 | 2 | 52 | 173 | 271 | 307 |
| 107.5 | 2 | 44 | 154 | 247 | 280 |
| 110.0 | 2 | 37 | 137 | 224 | 255 |
| 112.5 | 2 | 31 | 121 | 202 | 233 |
| 115.0 | 2 | 26 | 106 | 181 | 210 |
| 117.5 | 2 | 21 | 93 | 163 | 190 |
| 120.0 | 2 | 18 | 82 | 145 | 171 |
| 122.5 | 2 | 15 | 71 | 129 | 153 |
| 125.0 | 2 | 12 | 61 | 114 | 136 |
| 127.5 | 2 | 10 | 53 | 100 | 119 |
| 130.0 | 1 | 8 | 45 | 87 | 104 |
| 132.5 | 2 | 7 | 38 | 75 | 91 |

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CANDELA TABULATION - (Cont.)

| | | | | | |
|-------|---|---|----|----|----|
| 135.0 | 1 | 5 | 32 | 64 | 78 |
| 137.5 | 2 | 4 | 27 | 54 | 67 |
| 140.0 | 1 | 3 | 22 | 46 | 56 |
| 142.5 | 2 | 2 | 18 | 38 | 47 |
| 145.0 | 2 | 2 | 15 | 31 | 38 |
| 147.5 | 1 | 1 | 11 | 24 | 30 |
| 150.0 | 2 | 2 | 9 | 19 | 24 |
| 152.5 | 2 | 2 | 6 | 15 | 19 |
| 155.0 | 1 | 2 | 4 | 11 | 13 |
| 157.5 | 2 | 2 | 3 | 8 | 10 |
| 160.0 | 2 | 2 | 2 | 4 | 6 |
| 162.5 | 2 | 2 | 2 | 2 | 3 |
| 165.0 | 2 | 2 | 2 | 1 | 1 |
| 167.5 | 2 | 2 | 2 | 1 | 1 |
| 170.0 | 2 | 2 | 2 | 1 | 1 |
| 172.5 | 1 | 1 | 1 | 1 | 1 |
| 175.0 | 2 | 1 | 2 | 1 | 1 |
| 177.5 | 2 | 1 | 1 | 1 | 1 |
| 180.0 | 1 | 1 | 1 | 1 | 1 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 551.15 | N.A. | 9.20 |
| 0-30 | 1190.91 | N.A. | 19.80 |
| 0-40 | 1987.72 | N.A. | 33.00 |
| 0-60 | 3682.52 | N.A. | 61.20 |
| 0-80 | 4971.81 | N.A. | 82.60 |
| 0-90 | 5370.91 | N.A. | 89.20 |
| 10-90 | 5230.27 | N.A. | 86.90 |
| 20-40 | 1436.58 | N.A. | 23.90 |
| 20-50 | 2298.22 | N.A. | 38.20 |
| 40-70 | 2419.18 | N.A. | 40.20 |
| 60-80 | 1289.29 | N.A. | 21.40 |
| 70-80 | 564.91 | N.A. | 9.40 |
| 80-90 | 399.10 | N.A. | 6.60 |
| 90-110 | 441.56 | N.A. | 7.30 |
| 90-120 | 546.87 | N.A. | 9.10 |
| 90-130 | 605.15 | N.A. | 10.10 |
| 90-150 | 644.01 | N.A. | 10.70 |
| 90-180 | 647.80 | N.A. | 10.80 |
| 110-180 | 206.24 | N.A. | 3.40 |
| 0-180 | 6018.71 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 140.64 |
| 10-20 | 410.51 |
| 20-30 | 639.77 |
| 30-40 | 796.81 |
| 40-50 | 861.64 |
| 50-60 | 833.15 |
| 60-70 | 724.38 |
| 70-80 | 564.91 |
| 80-90 | 399.10 |
| 90-100 | 268.03 |
| 100-110 | 173.53 |
| 110-120 | 105.31 |
| 120-130 | 58.28 |
| 130-140 | 27.96 |
| 140-150 | 10.91 |
| 150-160 | 3.11 |
| 160-170 | 0.56 |
| 170-180 | 0.12 |

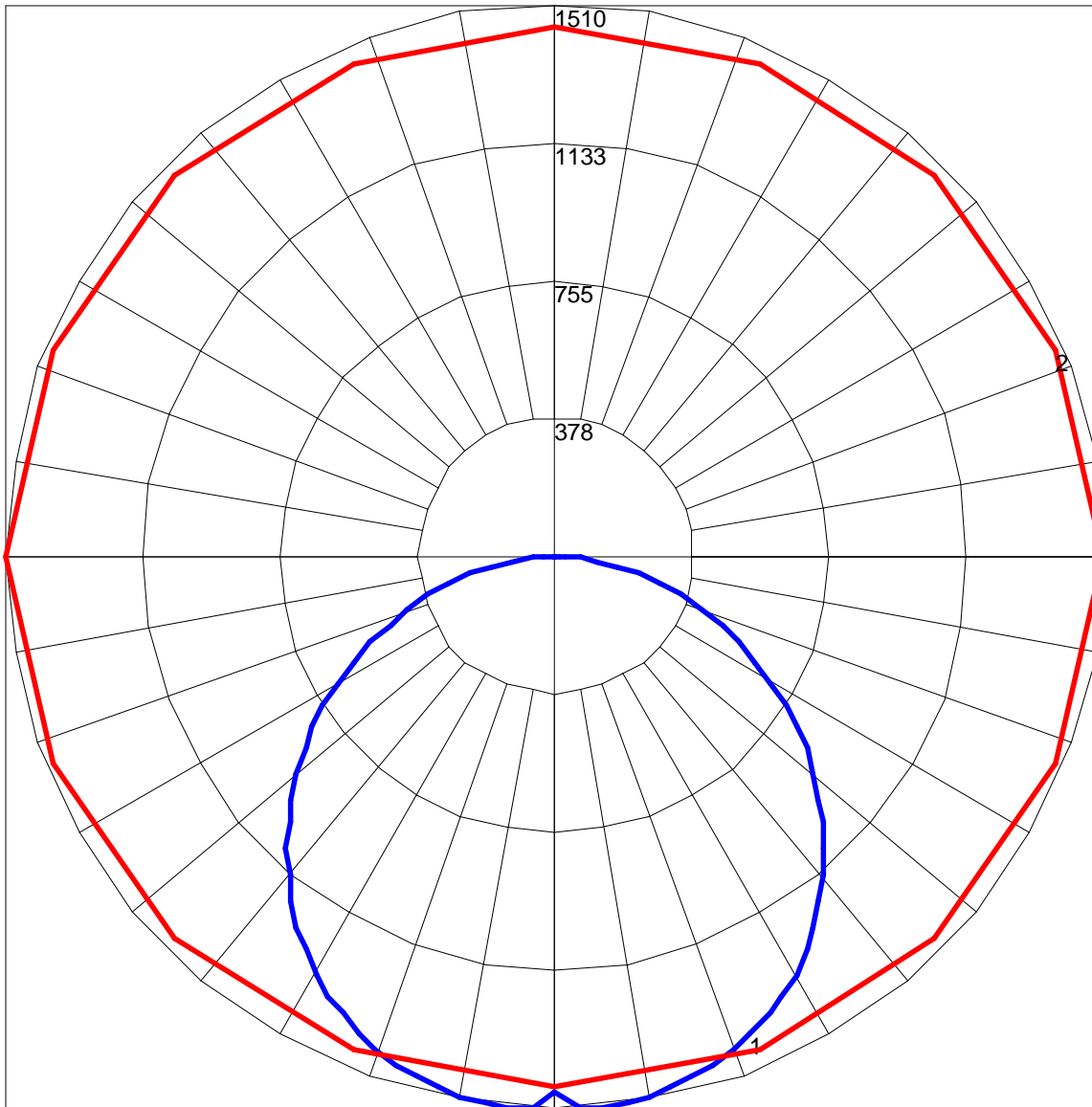
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

| 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 | 0 |
| 0 | 116 | 116 | 116 | 116 | 113 | 113 | 113 | 113 | 105 | 105 | 105 | 98 | 98 | 98 | 92 | 92 | 92 | 89 |
| 1 | 104 | 98 | 93 | 88 | 100 | 94 | 90 | 85 | 88 | 84 | 81 | 82 | 79 | 76 | 77 | 75 | 72 | 69 |
| 2 | 93 | 84 | 76 | 70 | 90 | 81 | 74 | 68 | 76 | 70 | 65 | 71 | 66 | 62 | 66 | 62 | 59 | 56 |
| 3 | 85 | 73 | 64 | 57 | 81 | 70 | 62 | 56 | 66 | 59 | 53 | 62 | 56 | 51 | 58 | 53 | 49 | 46 |
| 4 | 77 | 64 | 55 | 47 | 74 | 62 | 53 | 47 | 58 | 51 | 45 | 54 | 48 | 43 | 51 | 46 | 41 | 39 |
| 5 | 71 | 57 | 47 | 40 | 68 | 55 | 46 | 40 | 52 | 44 | 38 | 49 | 42 | 37 | 46 | 40 | 35 | 33 |
| 6 | 65 | 51 | 42 | 35 | 62 | 49 | 41 | 34 | 47 | 39 | 33 | 44 | 37 | 32 | 41 | 35 | 31 | 29 |
| 7 | 60 | 46 | 37 | 31 | 58 | 45 | 36 | 30 | 42 | 35 | 29 | 40 | 33 | 28 | 38 | 32 | 27 | 25 |
| 8 | 56 | 42 | 33 | 27 | 54 | 41 | 32 | 27 | 39 | 31 | 26 | 36 | 30 | 25 | 34 | 29 | 24 | 22 |
| 9 | 52 | 38 | 30 | 24 | 50 | 37 | 29 | 24 | 35 | 28 | 23 | 33 | 27 | 22 | 32 | 26 | 22 | 20 |
| 10 | 49 | 35 | 27 | 22 | 47 | 34 | 27 | 22 | 33 | 26 | 21 | 31 | 25 | 20 | 29 | 24 | 20 | 18 |

POLAR GRAPH



Maximum Candela = 1510 Located At Horizontal Angle = 0, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)