



IES INDOOR REPORT

PHOTOMETRIC FILENAME : SDLRK4-LED-40L-FL-40.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LED-9679

[TESTLAB] LSI INDUSTRIES, INC

[ISSUE DATE] 09/25/19

[TEST DATE] 02/07/18

[MANUFAC] LSI INDUSTRIES, INC

[LUMCAT] SDLRK4-LED-40L-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 | 4014 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 133 |
| Total Luminaire Watts | 30.1 |
| 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 | 9919 | 6461 | 6038 |
| 55 | 9329 | 5626 | 5397 |
| 65 | 8392 | 4795 | 4758 |
| 75 | 6705 | 4052 | 4188 |
| 85 | 3167 | 3410 | 3722 |

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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 | 984 | 984 | 984 | 984 | 984 |
| 2.5 | 1009 | 992 | 984 | 977 | 967 |
| 5.0 | 1009 | 992 | 984 | 977 | 968 |
| 7.5 | 1006 | 990 | 983 | 976 | 968 |
| 10.0 | 1001 | 986 | 980 | 974 | 966 |
| 12.5 | 994 | 979 | 975 | 971 | 964 |
| 15.0 | 985 | 972 | 968 | 966 | 960 |
| 17.5 | 974 | 961 | 959 | 960 | 955 |
| 20.0 | 960 | 948 | 949 | 952 | 948 |
| 22.5 | 943 | 934 | 938 | 943 | 941 |
| 25.0 | 924 | 918 | 923 | 933 | 931 |
| 27.5 | 903 | 898 | 908 | 921 | 920 |
| 30.0 | 878 | 876 | 890 | 906 | 908 |
| 32.5 | 852 | 852 | 870 | 890 | 892 |
| 35.0 | 823 | 826 | 848 | 873 | 876 |
| 37.5 | 794 | 799 | 825 | 854 | 858 |
| 40.0 | 762 | 769 | 799 | 832 | 838 |
| 42.5 | 728 | 739 | 772 | 809 | 817 |
| 45.0 | 693 | 706 | 744 | 784 | 794 |
| 47.5 | 657 | 673 | 714 | 760 | 771 |
| 50.0 | 621 | 637 | 684 | 734 | 748 |
| 52.5 | 580 | 602 | 653 | 707 | 724 |
| 55.0 | 542 | 563 | 622 | 680 | 699 |
| 57.5 | 501 | 525 | 589 | 652 | 673 |
| 60.0 | 458 | 488 | 557 | 623 | 646 |
| 62.5 | 416 | 450 | 524 | 593 | 618 |
| 65.0 | 374 | 412 | 492 | 564 | 588 |
| 67.5 | 331 | 375 | 461 | 534 | 560 |
| 70.0 | 287 | 337 | 430 | 505 | 532 |
| 72.5 | 242 | 301 | 400 | 477 | 504 |
| 75.0 | 199 | 265 | 371 | 450 | 477 |
| 77.5 | 156 | 231 | 341 | 422 | 451 |
| 80.0 | 115 | 201 | 314 | 397 | 425 |
| 82.5 | 77 | 173 | 288 | 372 | 399 |
| 85.0 | 44 | 148 | 265 | 346 | 375 |
| 87.5 | 19 | 125 | 242 | 323 | 353 |
| 90.0 | 5 | 106 | 219 | 300 | 329 |
| 92.5 | 1 | 87 | 198 | 278 | 306 |
| 95.0 | 1 | 72 | 179 | 256 | 284 |
| 97.5 | 1 | 60 | 161 | 235 | 263 |
| 100.0 | 2 | 50 | 145 | 216 | 242 |
| 102.5 | 2 | 42 | 130 | 197 | 222 |
| 105.0 | 1 | 35 | 116 | 180 | 203 |
| 107.5 | 1 | 29 | 103 | 164 | 187 |
| 110.0 | 1 | 24 | 91 | 149 | 171 |
| 112.5 | 1 | 20 | 81 | 135 | 155 |
| 115.0 | 1 | 17 | 71 | 122 | 141 |
| 117.5 | 1 | 14 | 62 | 109 | 127 |
| 120.0 | 1 | 12 | 55 | 97 | 114 |
| 122.5 | 1 | 10 | 47 | 86 | 102 |
| 125.0 | 1 | 8 | 41 | 76 | 90 |
| 127.5 | 1 | 6 | 35 | 66 | 80 |
| 130.0 | 1 | 5 | 30 | 57 | 70 |
| 132.5 | 1 | 4 | 26 | 50 | 61 |

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CANDELA TABULATION - (Cont.)

| | | | | | |
|-------|---|---|----|----|----|
| 135.0 | 1 | 3 | 22 | 43 | 52 |
| 137.5 | 1 | 3 | 18 | 36 | 44 |
| 140.0 | 1 | 2 | 15 | 30 | 37 |
| 142.5 | 1 | 2 | 12 | 25 | 31 |
| 145.0 | 1 | 1 | 9 | 20 | 25 |
| 147.5 | 1 | 2 | 7 | 16 | 21 |
| 150.0 | 1 | 1 | 5 | 12 | 16 |
| 152.5 | 1 | 1 | 4 | 9 | 12 |
| 155.0 | 1 | 1 | 2 | 6 | 9 |
| 157.5 | 1 | 1 | 2 | 4 | 6 |
| 160.0 | 1 | 1 | 1 | 2 | 3 |
| 162.5 | 1 | 1 | 1 | 1 | 2 |
| 165.0 | 1 | 1 | 1 | 1 | 1 |
| 167.5 | 1 | 1 | 1 | 1 | 1 |
| 170.0 | 1 | 1 | 1 | 1 | 1 |
| 172.5 | 1 | 1 | 1 | 1 | 1 |
| 175.0 | 1 | 1 | 1 | 1 | 1 |
| 177.5 | 1 | 1 | 1 | 1 | 1 |
| 180.0 | 1 | 1 | 1 | 1 | 1 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 367.91 | N.A. | 9.20 |
| 0-30 | 794.71 | N.A. | 19.80 |
| 0-40 | 1326.27 | N.A. | 33.00 |
| 0-60 | 2456.9 | N.A. | 61.20 |
| 0-80 | 3316.58 | N.A. | 82.60 |
| 0-90 | 3582.57 | N.A. | 89.30 |
| 10-90 | 3488.66 | N.A. | 86.90 |
| 20-40 | 958.36 | N.A. | 23.90 |
| 20-50 | 1533.17 | N.A. | 38.20 |
| 40-70 | 1613.63 | N.A. | 40.20 |
| 60-80 | 859.68 | N.A. | 21.40 |
| 70-80 | 376.68 | N.A. | 9.40 |
| 80-90 | 265.99 | N.A. | 6.60 |
| 90-110 | 294.09 | N.A. | 7.30 |
| 90-120 | 364.39 | N.A. | 9.10 |
| 90-130 | 403.11 | N.A. | 10.00 |
| 90-150 | 428.95 | N.A. | 10.70 |
| 90-180 | 431.20 | N.A. | 10.70 |
| 110-180 | 137.10 | N.A. | 3.40 |
| 0-180 | 4013.77 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 93.91 |
| 10-20 | 274.00 |
| 20-30 | 426.80 |
| 30-40 | 531.56 |
| 40-50 | 574.81 |
| 50-60 | 555.81 |
| 60-70 | 483.00 |
| 70-80 | 376.68 |
| 80-90 | 265.99 |
| 90-100 | 178.51 |
| 100-110 | 115.59 |
| 110-120 | 70.29 |
| 120-130 | 38.72 |
| 130-140 | 18.64 |
| 140-150 | 7.20 |
| 150-160 | 1.84 |
| 160-170 | 0.32 |
| 170-180 | 0.10 |

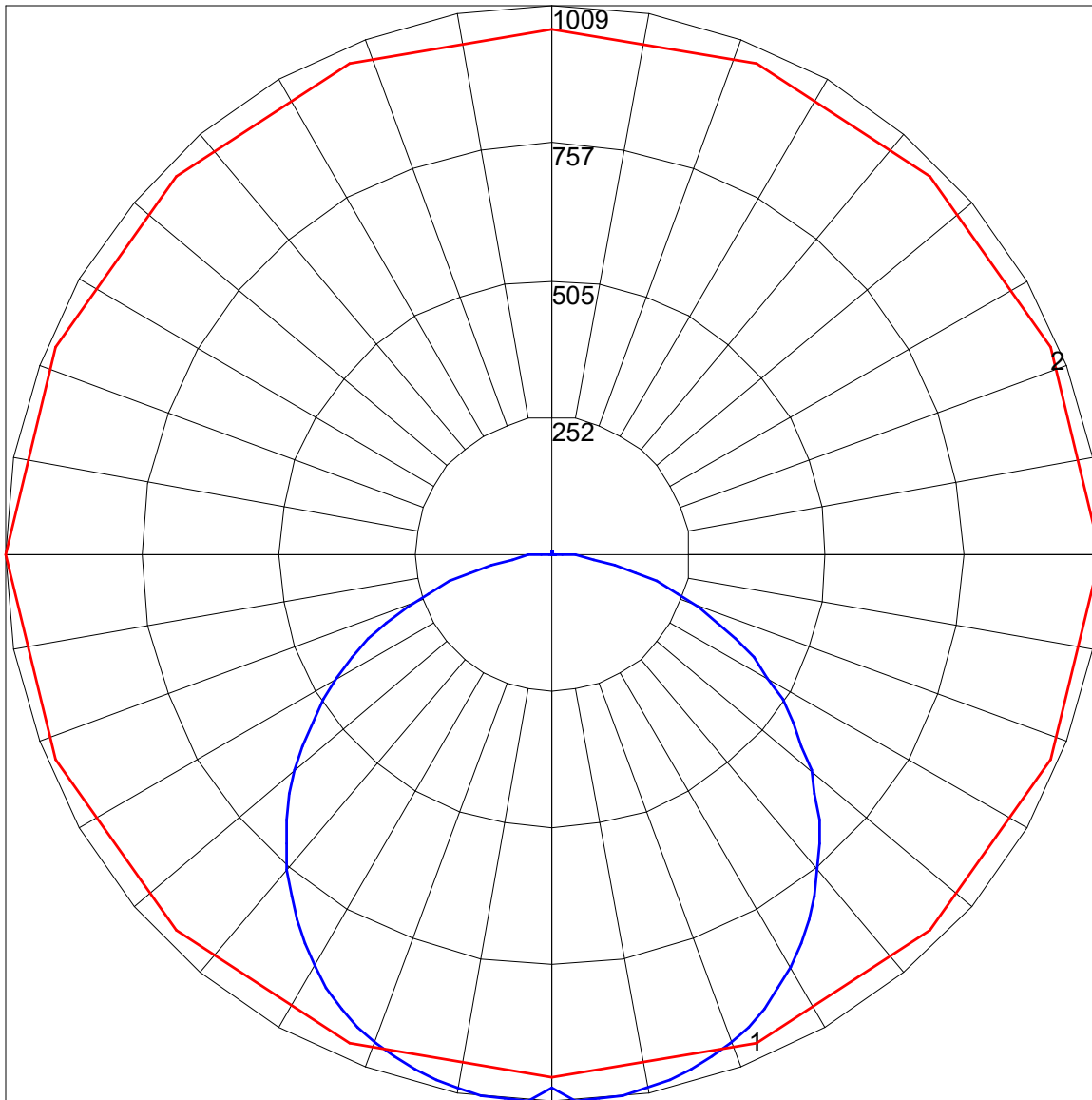
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 | 95 | 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 | 71 | 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 | 50 | 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 | 34 | 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 = 1009 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.)