



IES INDOOR REPORT
PHOTOMETRIC FILENAME : SDL4-LED-40L-FL-30.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-9918_scaled
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]6/12/2018
[TEST DATE]03/20/18
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMEN CATEGORY]SDL4-LED-40L-FL-30
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER]TEST PROCEDURE: IESNA LM-79-08
[OTHER]SCALED FROM ORIGINAL TEST DATA
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Indoor

CHARACTERISTICS

| | |
|---------------------------------|---------------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 3879 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 129 |
| 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 | 9564 | 6222 | 5830 |
| 55 | 8942 | 5415 | 5204 |
| 65 | 8103 | 4648 | 4594 |
| 75 | 6441 | 3902 | 4053 |
| 85 | 2919 | 3306 | 3604 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SDL4-LED-40L-FL-30.IES

CANDELA TABULATION

| | <u>0.0</u> | <u>22.5</u> | <u>45.0</u> | <u>67.5</u> | <u>90.0</u> |
|-------|------------|-------------|-------------|-------------|-------------|
| 0.0 | 946.288 | 946.288 | 946.288 | 946.288 | 946.288 |
| 2.5 | 969.462 | 955.944 | 948.219 | 940.494 | 932.770 |
| 5.0 | 969.462 | 954.013 | 948.219 | 940.494 | 932.770 |
| 7.5 | 967.531 | 952.082 | 946.288 | 938.563 | 932.770 |
| 10.0 | 963.669 | 948.219 | 944.357 | 938.563 | 930.838 |
| 12.5 | 955.944 | 942.426 | 938.563 | 934.701 | 928.907 |
| 15.0 | 948.219 | 936.632 | 932.770 | 930.838 | 925.045 |
| 17.5 | 936.632 | 925.045 | 925.045 | 925.045 | 919.251 |
| 20.0 | 923.114 | 913.458 | 915.389 | 917.320 | 913.458 |
| 22.5 | 907.664 | 898.008 | 903.802 | 909.595 | 905.733 |
| 25.0 | 888.352 | 882.558 | 890.283 | 898.008 | 898.008 |
| 27.5 | 869.040 | 863.246 | 874.834 | 886.421 | 886.421 |
| 30.0 | 845.866 | 843.934 | 857.453 | 872.902 | 874.834 |
| 32.5 | 820.760 | 820.760 | 840.072 | 859.384 | 859.384 |
| 35.0 | 793.723 | 797.586 | 816.898 | 842.003 | 843.934 |
| 37.5 | 764.755 | 770.549 | 795.654 | 822.691 | 826.554 |
| 40.0 | 733.856 | 741.581 | 770.549 | 801.448 | 807.242 |
| 42.5 | 702.957 | 712.613 | 745.443 | 780.205 | 785.998 |
| 45.0 | 668.195 | 681.714 | 716.475 | 757.030 | 766.686 |
| 47.5 | 633.434 | 648.883 | 689.438 | 733.856 | 745.443 |
| 50.0 | 596.741 | 616.053 | 660.470 | 710.682 | 722.269 |
| 52.5 | 563.910 | 579.360 | 631.502 | 683.645 | 701.026 |
| 55.0 | 519.493 | 544.598 | 598.672 | 656.608 | 673.989 |
| 57.5 | 482.800 | 507.906 | 567.773 | 629.571 | 648.883 |
| 60.0 | 444.176 | 471.213 | 538.805 | 602.534 | 623.778 |
| 62.5 | 405.552 | 436.451 | 507.906 | 573.566 | 596.741 |
| 65.0 | 361.134 | 399.758 | 477.006 | 544.598 | 567.773 |
| 67.5 | 320.579 | 363.066 | 446.107 | 517.562 | 540.736 |
| 70.0 | 278.093 | 326.373 | 415.208 | 488.594 | 513.699 |
| 72.5 | 233.675 | 287.749 | 386.240 | 461.557 | 486.662 |
| 75.0 | 191.189 | 256.850 | 357.272 | 434.520 | 461.557 |
| 77.5 | 150.634 | 225.950 | 330.235 | 409.414 | 436.451 |
| 80.0 | 110.078 | 196.982 | 305.130 | 384.309 | 411.346 |
| 82.5 | 75.317 | 169.946 | 280.024 | 359.203 | 386.240 |
| 85.0 | 40.555 | 144.840 | 256.850 | 336.029 | 363.066 |
| 87.5 | 17.381 | 121.666 | 235.606 | 314.786 | 341.822 |
| 90.0 | 1.931 | 102.354 | 214.363 | 291.611 | 320.579 |
| 92.5 | 0.000 | 84.973 | 195.051 | 270.368 | 297.405 |
| 95.0 | 1.931 | 71.454 | 175.739 | 249.125 | 276.162 |
| 97.5 | 1.931 | 59.867 | 158.358 | 229.813 | 254.918 |
| 100.0 | 1.931 | 48.280 | 140.978 | 210.501 | 235.606 |
| 102.5 | 1.931 | 40.555 | 127.459 | 191.189 | 216.294 |
| 105.0 | 1.931 | 34.762 | 112.010 | 175.739 | 198.914 |
| 107.5 | 0.000 | 28.968 | 100.422 | 160.290 | 181.533 |
| 110.0 | 0.000 | 23.174 | 88.835 | 144.840 | 166.083 |
| 112.5 | 0.000 | 19.312 | 79.179 | 131.322 | 150.634 |
| 115.0 | 0.000 | 17.381 | 69.523 | 117.803 | 137.115 |
| 117.5 | 0.000 | 13.518 | 59.867 | 106.216 | 123.597 |
| 120.0 | 0.000 | 11.587 | 52.142 | 94.629 | 110.078 |
| 122.5 | 0.000 | 9.656 | 46.349 | 83.042 | 98.491 |
| 125.0 | 0.000 | 7.725 | 40.555 | 75.317 | 88.835 |
| 127.5 | 0.000 | 5.794 | 32.830 | 65.661 | 77.248 |
| 130.0 | 1.931 | 5.794 | 28.968 | 56.005 | 67.592 |
| 132.5 | 0.000 | 3.862 | 23.174 | 48.280 | 57.936 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SDL4-LED-40L-FL-30.IES

CANDELA TABULATION - (Cont.)

| | | | | | |
|--------------|-------|-------|--------|--------|--------|
| 135.0 | 1.931 | 3.862 | 21.243 | 40.555 | 50.211 |
| 137.5 | 1.931 | 1.931 | 17.381 | 34.762 | 42.486 |
| 140.0 | 1.931 | 1.931 | 13.518 | 28.968 | 36.693 |
| 142.5 | 0.000 | 1.931 | 11.587 | 25.106 | 28.968 |
| 145.0 | 1.931 | 1.931 | 9.656 | 19.312 | 25.106 |
| 147.5 | 1.931 | 1.931 | 5.794 | 15.450 | 19.312 |
| 150.0 | 1.931 | 1.931 | 5.794 | 11.587 | 15.450 |
| 152.5 | 1.931 | 1.931 | 3.862 | 9.656 | 11.587 |
| 155.0 | 1.931 | 1.931 | 1.931 | 5.794 | 7.725 |
| 157.5 | 1.931 | 1.931 | 1.931 | 3.862 | 5.794 |
| 160.0 | 1.931 | 1.931 | 1.931 | 1.931 | 3.862 |
| 162.5 | 1.931 | 1.931 | 1.931 | 1.931 | 1.931 |
| 165.0 | 0.000 | 1.931 | 0.000 | 0.000 | 0.000 |
| 167.5 | 1.931 | 1.931 | 0.000 | 0.000 | 0.000 |
| 170.0 | 1.931 | 1.931 | 0.000 | 0.000 | 0.000 |
| 172.5 | 1.931 | 0.000 | 0.000 | 0.000 | 0.000 |
| 175.0 | 1.931 | 1.931 | 0.000 | 0.000 | 0.000 |
| 177.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 180.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SDL4-LED-40L-FL-30.IES

ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 354.31 | N.A. | 9.10 |
| 0-30 | 765.31 | N.A. | 19.70 |
| 0-40 | 1277.77 | N.A. | 32.90 |
| 0-60 | 2369.12 | N.A. | 61.10 |
| 0-80 | 3200.88 | N.A. | 82.50 |
| 0-90 | 3459.17 | N.A. | 89.20 |
| 10-90 | 3368.77 | N.A. | 86.80 |
| 20-40 | 923.45 | N.A. | 23.80 |
| 20-50 | 1478.08 | N.A. | 38.10 |
| 40-70 | 1558.83 | N.A. | 40.20 |
| 60-80 | 831.76 | N.A. | 21.40 |
| 70-80 | 364.29 | N.A. | 9.40 |
| 80-90 | 258.29 | N.A. | 6.70 |
| 90-110 | 286.94 | N.A. | 7.40 |
| 90-120 | 355.16 | N.A. | 9.20 |
| 90-130 | 392.85 | N.A. | 10.10 |
| 90-150 | 417.84 | N.A. | 10.80 |
| 90-180 | 420.22 | N.A. | 10.80 |
| 110-180 | 133.28 | N.A. | 3.40 |
| 0-180 | 3879.39 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 90.39 |
| 10-20 | 263.92 |
| 20-30 | 410.99 |
| 30-40 | 512.46 |
| 40-50 | 554.62 |
| 50-60 | 536.73 |
| 60-70 | 467.48 |
| 70-80 | 364.28 |
| 80-90 | 258.29 |
| 90-100 | 174.31 |
| 100-110 | 112.63 |
| 110-120 | 68.22 |
| 120-130 | 37.69 |
| 130-140 | 17.92 |
| 140-150 | 7.07 |
| 150-160 | 2.00 |
| 160-170 | 0.35 |
| 170-180 | 0.04 |

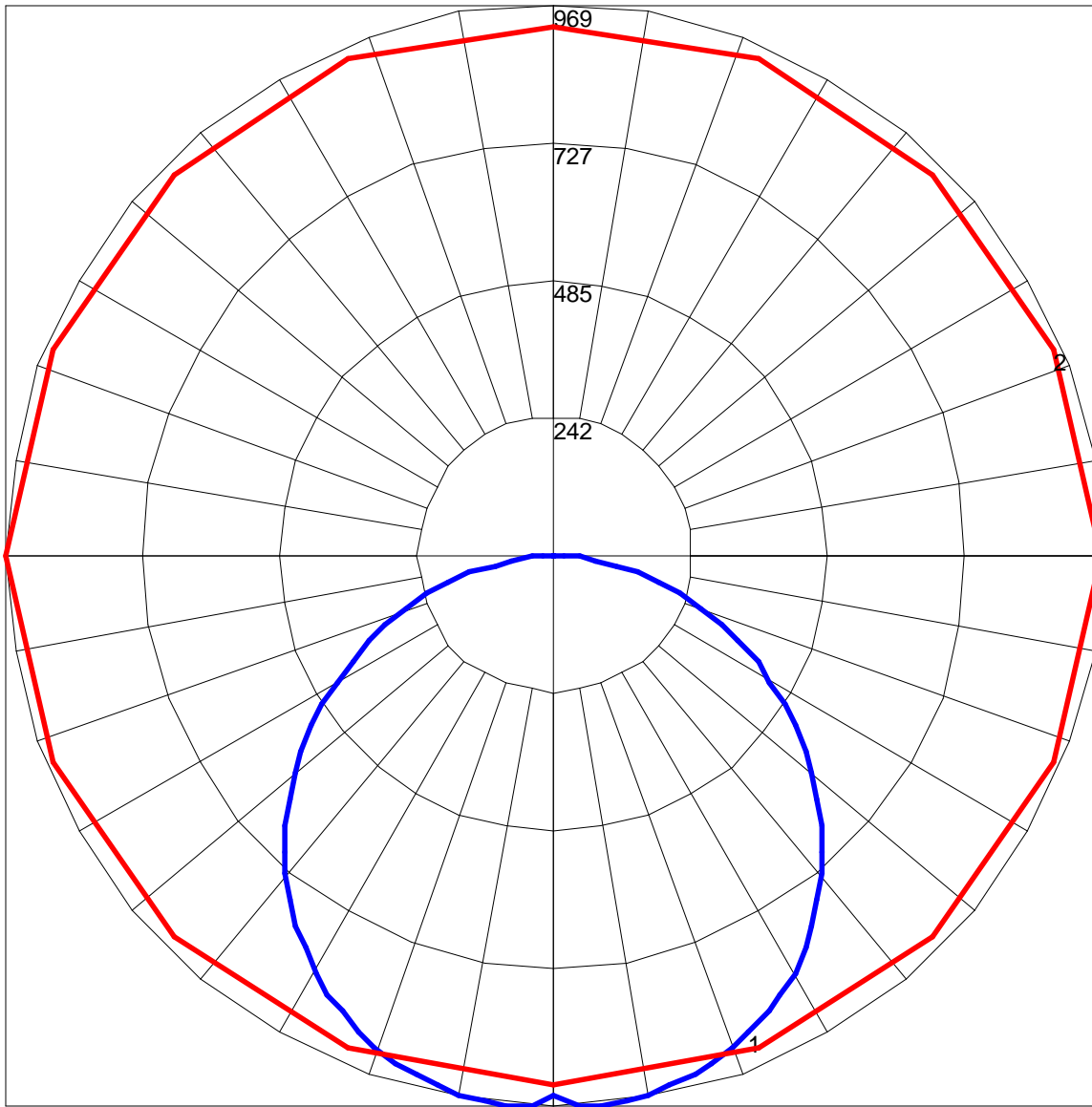
IES INDOOR REPORT
PHOTOMETRIC FILENAME : SDL4-LED-40L-FL-30.IES

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 | 74 | 72 | 69 |
| 2 | 93 | 84 | 76 | 70 | 90 | 81 | 74 | 68 | 76 | 70 | 65 | 71 | 66 | 62 | 66 | 62 | 59 | 56 |
| 3 | 84 | 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 | 46 | 58 | 51 | 45 | 54 | 48 | 43 | 51 | 46 | 41 | 38 |
| 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 | 28 |
| 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 | 38 | 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 | 21 | 33 | 26 | 21 | 31 | 25 | 20 | 29 | 24 | 20 | 18 |

POLAR GRAPH



Maximum Candela = 969.462 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.)