



IES INDOOR REPORT
PHOTOMETRIC FILENAME : S4-LED-30L-50.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-9752_scaled
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]6/12/2018
[TEST DATE]02/22/18
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMEN CATEGORY]S4-LED-30L-50
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER]TEST PROCEDURE: IESNA LM-79-08
[OTHER]SCALED FROM ORIGINAL TEST DATA
[SEARCH SOURCE TYPE] LED
[SEARCH APPLICATION] Indoor

CHARACTERISTICS

| | |
|---------------------------------|-----------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 3223 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 154 |
| Total Luminaire Watts | 20.9 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.42 |
| Spacing Criterion (90-270) | 1.34 |
| Spacing Criterion (Diagonal) | 1.48 |
| Basic Luminous Shape | Rectangular |
| Luminous Length (0-180) | 4.00 ft |
| Luminous Width (90-270) | 0.25 ft |
| Luminous Height | 0.00 ft |

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 11952 | 11514 | 11246 |
| 55 | 12004 | 11494 | 11164 |
| 65 | 11648 | 10875 | 10630 |
| 75 | 10308 | 9643 | 9510 |
| 85 | 7307 | 7702 | 7702 |

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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 | 982.781 | 982.781 | 982.781 | 982.781 | 982.781 |
| 2.5 | 1013.192 | 989.183 | 981.180 | 973.177 | 965.174 |
| 5.0 | 1014.793 | 990.784 | 982.781 | 974.778 | 965.174 |
| 7.5 | 1011.592 | 989.183 | 979.579 | 971.576 | 961.973 |
| 10.0 | 1009.991 | 987.583 | 976.378 | 969.976 | 960.372 |
| 12.5 | 1008.391 | 984.381 | 974.778 | 966.774 | 957.171 |
| 15.0 | 1003.589 | 981.180 | 969.976 | 961.973 | 953.970 |
| 17.5 | 995.586 | 974.778 | 963.573 | 953.970 | 945.966 |
| 20.0 | 987.583 | 965.174 | 953.970 | 944.366 | 937.963 |
| 22.5 | 976.378 | 955.570 | 944.366 | 934.762 | 928.360 |
| 25.0 | 965.174 | 945.966 | 931.561 | 923.558 | 915.555 |
| 27.5 | 952.369 | 933.161 | 918.756 | 910.753 | 902.750 |
| 30.0 | 934.762 | 917.155 | 902.750 | 893.146 | 885.143 |
| 32.5 | 915.555 | 897.948 | 881.942 | 873.939 | 865.935 |
| 35.0 | 894.747 | 875.539 | 861.134 | 853.130 | 845.127 |
| 37.5 | 870.737 | 854.731 | 838.725 | 830.722 | 821.118 |
| 40.0 | 848.329 | 829.121 | 813.115 | 805.112 | 798.709 |
| 42.5 | 817.917 | 801.911 | 785.904 | 777.901 | 771.499 |
| 45.0 | 785.904 | 771.499 | 757.093 | 747.490 | 739.486 |
| 47.5 | 752.291 | 737.886 | 725.081 | 717.078 | 709.075 |
| 50.0 | 717.078 | 702.672 | 688.267 | 681.864 | 675.462 |
| 52.5 | 678.663 | 664.257 | 651.452 | 641.849 | 638.647 |
| 55.0 | 640.248 | 625.842 | 613.037 | 601.833 | 595.431 |
| 57.5 | 598.632 | 584.226 | 569.821 | 557.016 | 552.214 |
| 60.0 | 555.415 | 539.409 | 526.604 | 513.799 | 510.598 |
| 62.5 | 507.397 | 496.192 | 475.384 | 465.780 | 464.180 |
| 65.0 | 457.777 | 444.972 | 427.366 | 417.762 | 417.762 |
| 67.5 | 406.557 | 396.954 | 380.948 | 372.944 | 371.344 |
| 70.0 | 353.737 | 342.533 | 331.328 | 324.926 | 321.725 |
| 72.5 | 300.917 | 292.913 | 283.310 | 278.508 | 276.907 |
| 75.0 | 248.096 | 238.492 | 232.090 | 228.889 | 228.889 |
| 77.5 | 198.477 | 188.873 | 187.273 | 182.471 | 184.071 |
| 80.0 | 150.458 | 142.455 | 142.455 | 137.653 | 139.254 |
| 82.5 | 102.440 | 97.638 | 99.238 | 96.037 | 96.037 |
| 85.0 | 59.223 | 60.824 | 62.424 | 59.223 | 62.424 |
| 87.5 | 24.009 | 27.211 | 30.412 | 28.811 | 28.811 |
| 90.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 368.68 | N.A. | 11.40 |
| 0-30 | 800.31 | N.A. | 24.80 |
| 0-40 | 1341.89 | N.A. | 41.60 |
| 0-60 | 2475.92 | N.A. | 76.80 |
| 0-80 | 3153.14 | N.A. | 97.80 |
| 0-90 | 3223.32 | N.A. | 100.00 |
| 10-90 | 3129.56 | N.A. | 97.10 |
| 20-40 | 973.21 | N.A. | 30.20 |
| 20-50 | 1559.01 | N.A. | 48.40 |
| 40-70 | 1561.83 | N.A. | 48.50 |
| 60-80 | 677.22 | N.A. | 21.00 |
| 70-80 | 249.41 | N.A. | 7.70 |
| 80-90 | 70.19 | N.A. | 2.20 |
| 90-110 | 0.00 | N.A. | 0.00 |
| 90-120 | 0.00 | N.A. | 0.00 |
| 90-130 | 0.00 | N.A. | 0.00 |
| 90-150 | 0.00 | N.A. | 0.00 |
| 90-180 | 0.00 | N.A. | 0.00 |
| 110-180 | 0.00 | N.A. | 0.00 |
| 0-180 | 3223.32 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 93.76 |
| 10-20 | 274.92 |
| 20-30 | 431.62 |
| 30-40 | 541.59 |
| 40-50 | 585.80 |
| 50-60 | 548.23 |
| 60-70 | 427.81 |
| 70-80 | 249.41 |
| 80-90 | 70.19 |
| 90-100 | 0.00 |
| 100-110 | 0.00 |
| 110-120 | 0.00 |
| 120-130 | 0.00 |
| 130-140 | 0.00 |
| 140-150 | 0.00 |
| 150-160 | 0.00 |
| 160-170 | 0.00 |
| 170-180 | 0.00 |

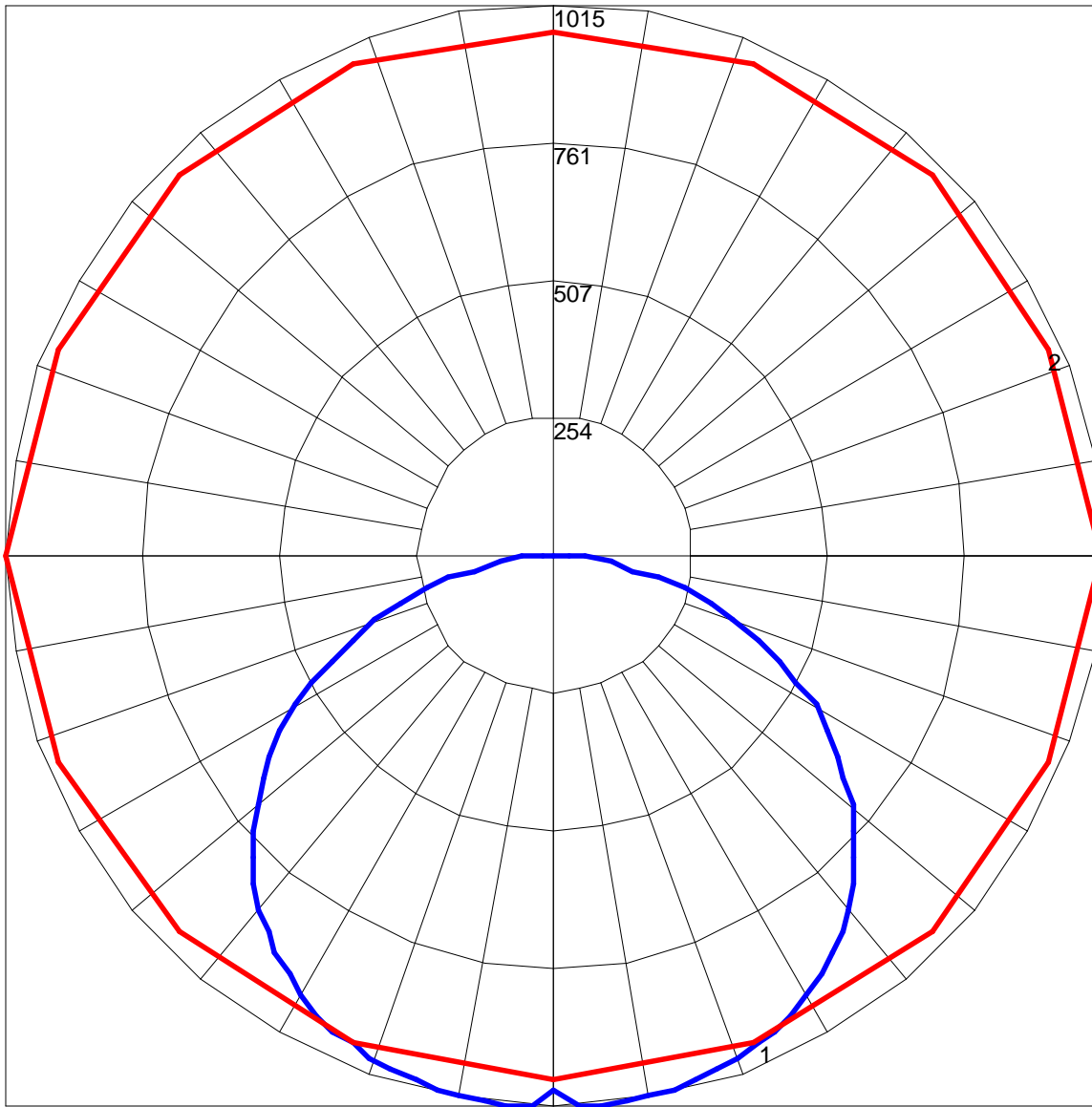
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1 | 108 | 103 | 99 | 95 | 106 | 101 | 97 | 93 | 97 | 93 | 90 | 93 | 90 | 87 | 89 | 87 | 85 | 83 |
| 2 | 98 | 89 | 82 | 76 | 95 | 88 | 81 | 75 | 84 | 78 | 74 | 81 | 76 | 72 | 78 | 74 | 70 | 68 |
| 3 | 89 | 78 | 70 | 63 | 87 | 77 | 69 | 62 | 73 | 67 | 61 | 71 | 65 | 60 | 68 | 63 | 59 | 57 |
| 4 | 81 | 69 | 60 | 53 | 79 | 68 | 59 | 52 | 65 | 58 | 52 | 63 | 56 | 51 | 60 | 55 | 50 | 48 |
| 5 | 75 | 61 | 52 | 45 | 72 | 60 | 51 | 45 | 58 | 50 | 44 | 56 | 49 | 44 | 54 | 48 | 43 | 41 |
| 6 | 69 | 55 | 46 | 39 | 67 | 54 | 45 | 39 | 52 | 44 | 39 | 50 | 44 | 38 | 49 | 43 | 38 | 36 |
| 7 | 64 | 50 | 41 | 34 | 62 | 49 | 40 | 34 | 47 | 40 | 34 | 46 | 39 | 34 | 44 | 38 | 33 | 31 |
| 8 | 59 | 45 | 36 | 31 | 57 | 45 | 36 | 30 | 43 | 36 | 30 | 42 | 35 | 30 | 41 | 34 | 30 | 28 |
| 9 | 55 | 41 | 33 | 27 | 54 | 41 | 33 | 27 | 40 | 32 | 27 | 39 | 32 | 27 | 37 | 31 | 27 | 25 |
| 10 | 52 | 38 | 30 | 25 | 50 | 38 | 30 | 25 | 37 | 29 | 24 | 36 | 29 | 24 | 35 | 29 | 24 | 22 |

POLAR GRAPH



Maximum Candela = 1014.793 Located At Horizontal Angle = 0, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)