



IES INDOOR REPORT
PHOTOMETRIC FILENAME : S2-LED-30L-50.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-9759_scaled
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]6/12/2018
[TEST DATE]02/22/18
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMEN CATEGORY]S2-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 | 3244 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 147 |
| Total Luminaire Watts | 22 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.40 |
| Spacing Criterion (90-270) | 1.34 |
| Spacing Criterion (Diagonal) | 1.48 |
| Basic Luminous Shape | Rectangular |
| Luminous Length (0-180) | 2.00 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 | 23958 | 23179 | 22789 |
| 55 | 24093 | 23132 | 22492 |
| 65 | 23356 | 21944 | 21401 |
| 75 | 21286 | 19512 | 19157 |
| 85 | 15803 | 15803 | 15276 |

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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 | 988.320 | 988.320 | 988.320 | 988.320 | 988.320 |
| 2.5 | 1013.935 | 1001.127 | 990.454 | 975.512 | 966.974 |
| 5.0 | 1016.070 | 1003.262 | 990.454 | 975.512 | 966.974 |
| 7.5 | 1013.935 | 1001.127 | 988.320 | 975.512 | 966.974 |
| 10.0 | 1011.800 | 1001.127 | 986.185 | 973.378 | 966.974 |
| 12.5 | 1009.666 | 996.858 | 981.916 | 969.108 | 960.570 |
| 15.0 | 1005.397 | 992.589 | 979.781 | 964.839 | 958.435 |
| 17.5 | 996.858 | 984.051 | 971.243 | 958.435 | 949.897 |
| 20.0 | 990.454 | 977.647 | 964.839 | 949.897 | 945.628 |
| 22.5 | 979.781 | 969.108 | 954.166 | 941.359 | 932.820 |
| 25.0 | 969.108 | 956.301 | 943.493 | 928.551 | 922.147 |
| 27.5 | 956.301 | 943.493 | 930.686 | 915.743 | 911.474 |
| 30.0 | 937.089 | 926.416 | 913.609 | 898.667 | 892.263 |
| 32.5 | 917.878 | 907.205 | 892.263 | 879.455 | 873.051 |
| 35.0 | 896.532 | 885.859 | 870.917 | 858.109 | 851.705 |
| 37.5 | 875.186 | 862.378 | 845.302 | 834.629 | 832.494 |
| 40.0 | 849.571 | 834.629 | 819.686 | 809.013 | 806.879 |
| 42.5 | 815.417 | 804.744 | 791.937 | 781.264 | 779.129 |
| 45.0 | 787.667 | 774.860 | 762.052 | 753.514 | 749.245 |
| 47.5 | 751.379 | 740.706 | 727.899 | 719.360 | 717.226 |
| 50.0 | 717.226 | 704.418 | 693.745 | 683.072 | 680.937 |
| 52.5 | 680.937 | 668.130 | 657.457 | 644.649 | 642.515 |
| 55.0 | 642.515 | 629.707 | 616.899 | 604.092 | 599.823 |
| 57.5 | 597.688 | 587.015 | 574.207 | 559.265 | 554.996 |
| 60.0 | 554.996 | 544.323 | 525.112 | 514.439 | 510.169 |
| 62.5 | 508.035 | 497.362 | 478.150 | 467.477 | 465.343 |
| 65.0 | 458.939 | 448.266 | 431.189 | 422.651 | 420.516 |
| 67.5 | 409.843 | 397.036 | 379.959 | 375.690 | 373.555 |
| 70.0 | 358.613 | 345.805 | 328.728 | 326.594 | 324.459 |
| 72.5 | 307.382 | 294.575 | 279.633 | 277.498 | 277.498 |
| 75.0 | 256.152 | 241.210 | 234.806 | 230.537 | 230.537 |
| 77.5 | 204.922 | 189.979 | 185.710 | 183.576 | 183.576 |
| 80.0 | 155.826 | 143.018 | 140.884 | 138.749 | 138.749 |
| 82.5 | 104.595 | 100.326 | 100.326 | 98.192 | 96.057 |
| 85.0 | 64.038 | 61.903 | 64.038 | 59.769 | 61.903 |
| 87.5 | 27.750 | 29.884 | 32.019 | 29.884 | 32.019 |
| 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 | 371.24 | N.A. | 11.40 |
| 0-30 | 806.68 | N.A. | 24.90 |
| 0-40 | 1352.59 | N.A. | 41.70 |
| 0-60 | 2492.22 | N.A. | 76.80 |
| 0-80 | 3172.65 | N.A. | 97.80 |
| 0-90 | 3244.37 | N.A. | 100.00 |
| 10-90 | 3149.97 | N.A. | 97.10 |
| 20-40 | 981.34 | N.A. | 30.20 |
| 20-50 | 1570.14 | N.A. | 48.40 |
| 40-70 | 1569.3 | N.A. | 48.40 |
| 60-80 | 680.43 | N.A. | 21.00 |
| 70-80 | 250.76 | N.A. | 7.70 |
| 80-90 | 71.72 | 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 | 3244.37 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 94.40 |
| 10-20 | 276.84 |
| 20-30 | 435.44 |
| 30-40 | 545.90 |
| 40-50 | 588.80 |
| 50-60 | 550.83 |
| 60-70 | 429.67 |
| 70-80 | 250.76 |
| 80-90 | 71.72 |
| 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 |

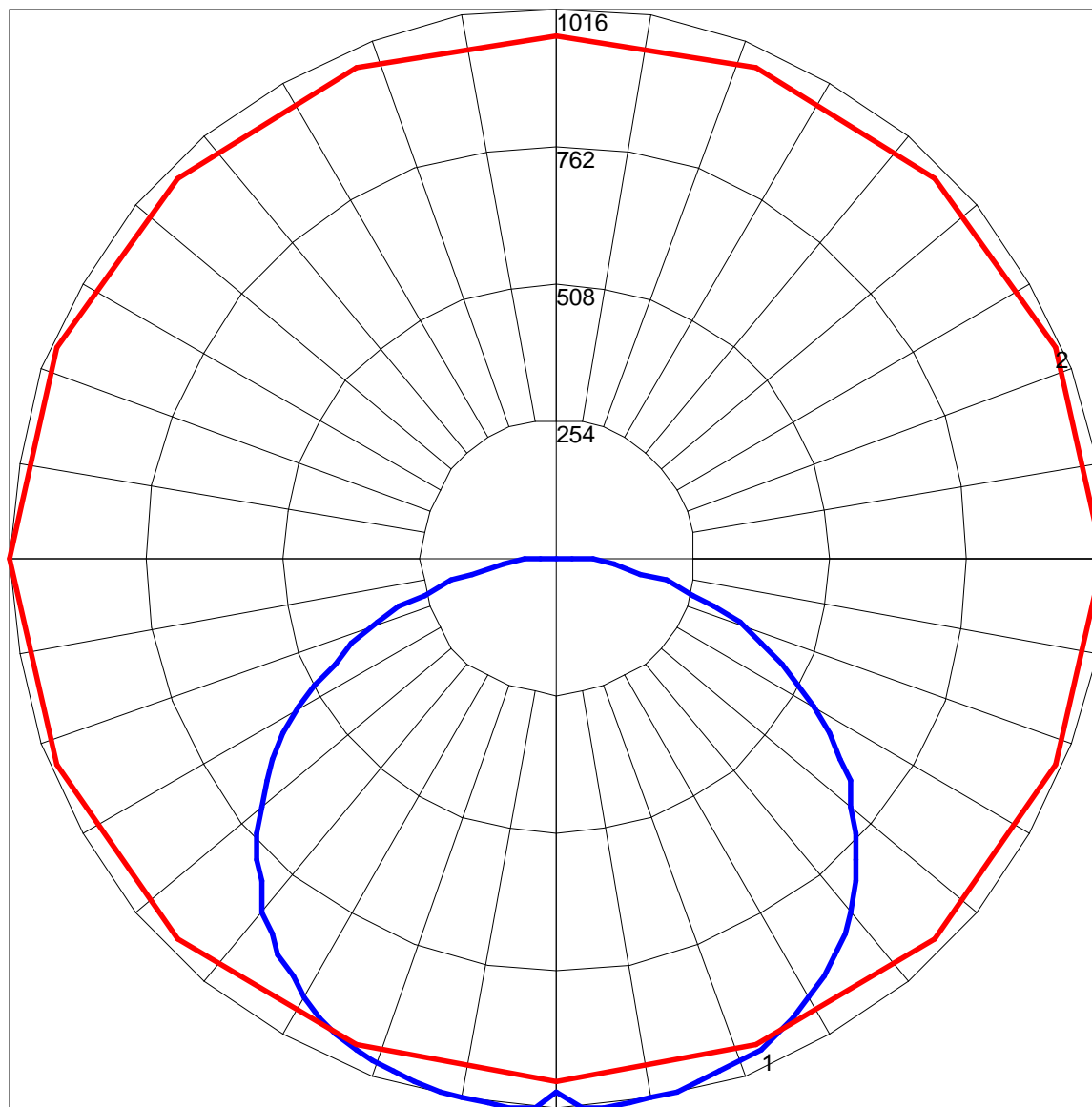
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 | 74 | 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 | 37 | 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 | 38 | 31 | 27 | 25 |
| 10 | 52 | 38 | 30 | 25 | 50 | 38 | 30 | 25 | 37 | 29 | 25 | 36 | 29 | 24 | 35 | 29 | 24 | 22 |

POLAR GRAPH



Maximum Candela = 1016.07 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.)