



IES INDOOR REPORT
PHOTOMETRIC FILENAME : LPEC14-LED-30L-50.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-8960_Scaled
[TESTLAB] LSI INDUSTRIES, INC
[ISSUE DATE] 07/10/17
[TEST DATE] 05/25/17
[MANUFACTURER] LSI INDUSTRIES, INC
[LUMEN CATEGORY] LPEC14-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 | 3206 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 134 |
| Total Luminaire Watts | 24 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.30 |
| Spacing Criterion (90-270) | 1.46 |
| Spacing Criterion (Diagonal) | 1.50 |
| Basic Luminous Shape | Rectangular |
| Luminous Length (0-180) | 4.00 ft |
| Luminous Width (90-270) | 1.00 ft |
| Luminous Height | 0.00 ft |

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 2383 | 2812 | 3151 |
| 55 | 2240 | 2864 | 3378 |
| 65 | 2083 | 2900 | 3608 |
| 75 | 1888 | 2897 | 3499 |
| 85 | 1643 | 2610 | 2416 |

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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 | 938.441 | 938.441 | 938.441 | 938.441 | 938.441 |
| 2.5 | 957.241 | 946.275 | 940.008 | 932.175 | 927.475 |
| 5.0 | 957.241 | 946.275 | 940.008 | 933.741 | 930.608 |
| 7.5 | 954.108 | 944.708 | 940.008 | 935.308 | 930.608 |
| 10.0 | 949.408 | 940.008 | 938.441 | 935.308 | 930.608 |
| 12.5 | 940.008 | 932.175 | 932.175 | 933.741 | 930.608 |
| 15.0 | 930.608 | 924.341 | 929.041 | 932.175 | 933.741 |
| 17.5 | 918.074 | 914.941 | 922.774 | 932.175 | 932.175 |
| 20.0 | 902.408 | 902.408 | 914.941 | 930.608 | 932.175 |
| 22.5 | 885.174 | 886.741 | 905.541 | 925.908 | 927.475 |
| 25.0 | 867.941 | 871.074 | 897.708 | 921.208 | 925.908 |
| 27.5 | 842.874 | 853.841 | 883.607 | 913.374 | 922.774 |
| 30.0 | 816.240 | 831.907 | 869.507 | 905.541 | 914.941 |
| 32.5 | 789.607 | 806.840 | 853.841 | 894.574 | 908.674 |
| 35.0 | 761.406 | 781.773 | 833.474 | 882.041 | 894.574 |
| 37.5 | 728.506 | 752.006 | 813.107 | 866.374 | 882.041 |
| 40.0 | 692.473 | 722.239 | 789.607 | 849.141 | 866.374 |
| 42.5 | 661.139 | 689.339 | 766.106 | 830.340 | 850.707 |
| 45.0 | 626.672 | 658.006 | 739.473 | 808.407 | 828.774 |
| 47.5 | 589.072 | 625.105 | 709.706 | 786.473 | 806.840 |
| 50.0 | 553.038 | 590.638 | 678.372 | 758.273 | 783.340 |
| 52.5 | 515.438 | 554.605 | 645.472 | 726.939 | 752.006 |
| 55.0 | 477.837 | 517.004 | 611.005 | 694.039 | 720.673 |
| 57.5 | 441.804 | 479.404 | 574.972 | 661.139 | 687.773 |
| 60.0 | 405.770 | 440.237 | 537.371 | 623.539 | 650.172 |
| 62.5 | 366.603 | 401.070 | 498.204 | 584.372 | 611.005 |
| 65.0 | 327.436 | 360.336 | 455.904 | 542.071 | 567.138 |
| 67.5 | 289.836 | 321.169 | 412.037 | 495.071 | 517.004 |
| 70.0 | 252.235 | 280.436 | 368.170 | 444.937 | 460.604 |
| 72.5 | 217.769 | 242.835 | 325.869 | 391.670 | 402.637 |
| 75.0 | 181.735 | 205.235 | 278.869 | 333.703 | 336.836 |
| 77.5 | 147.268 | 169.201 | 231.869 | 267.902 | 267.902 |
| 80.0 | 112.801 | 133.168 | 183.302 | 205.235 | 202.102 |
| 82.5 | 84.601 | 97.134 | 134.734 | 142.568 | 136.301 |
| 85.0 | 53.267 | 64.234 | 84.601 | 81.467 | 78.334 |
| 87.5 | 26.634 | 32.900 | 36.034 | 29.767 | 28.200 |
| 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 | 352.63 | N.A. | 11.00 |
| 0-30 | 766.08 | N.A. | 23.90 |
| 0-40 | 1286.19 | N.A. | 40.10 |
| 0-60 | 2393.21 | N.A. | 74.60 |
| 0-80 | 3121.59 | N.A. | 97.40 |
| 0-90 | 3206.37 | N.A. | 100.00 |
| 10-90 | 3116.63 | N.A. | 97.20 |
| 20-40 | 933.56 | N.A. | 29.10 |
| 20-50 | 1499.3 | N.A. | 46.80 |
| 40-70 | 1552.58 | N.A. | 48.40 |
| 60-80 | 728.38 | N.A. | 22.70 |
| 70-80 | 282.82 | N.A. | 8.80 |
| 80-90 | 84.78 | N.A. | 2.60 |
| 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 | 3206.37 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 89.74 |
| 10-20 | 262.89 |
| 20-30 | 413.45 |
| 30-40 | 520.11 |
| 40-50 | 565.74 |
| 50-60 | 541.27 |
| 60-70 | 445.56 |
| 70-80 | 282.82 |
| 80-90 | 84.78 |
| 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 |

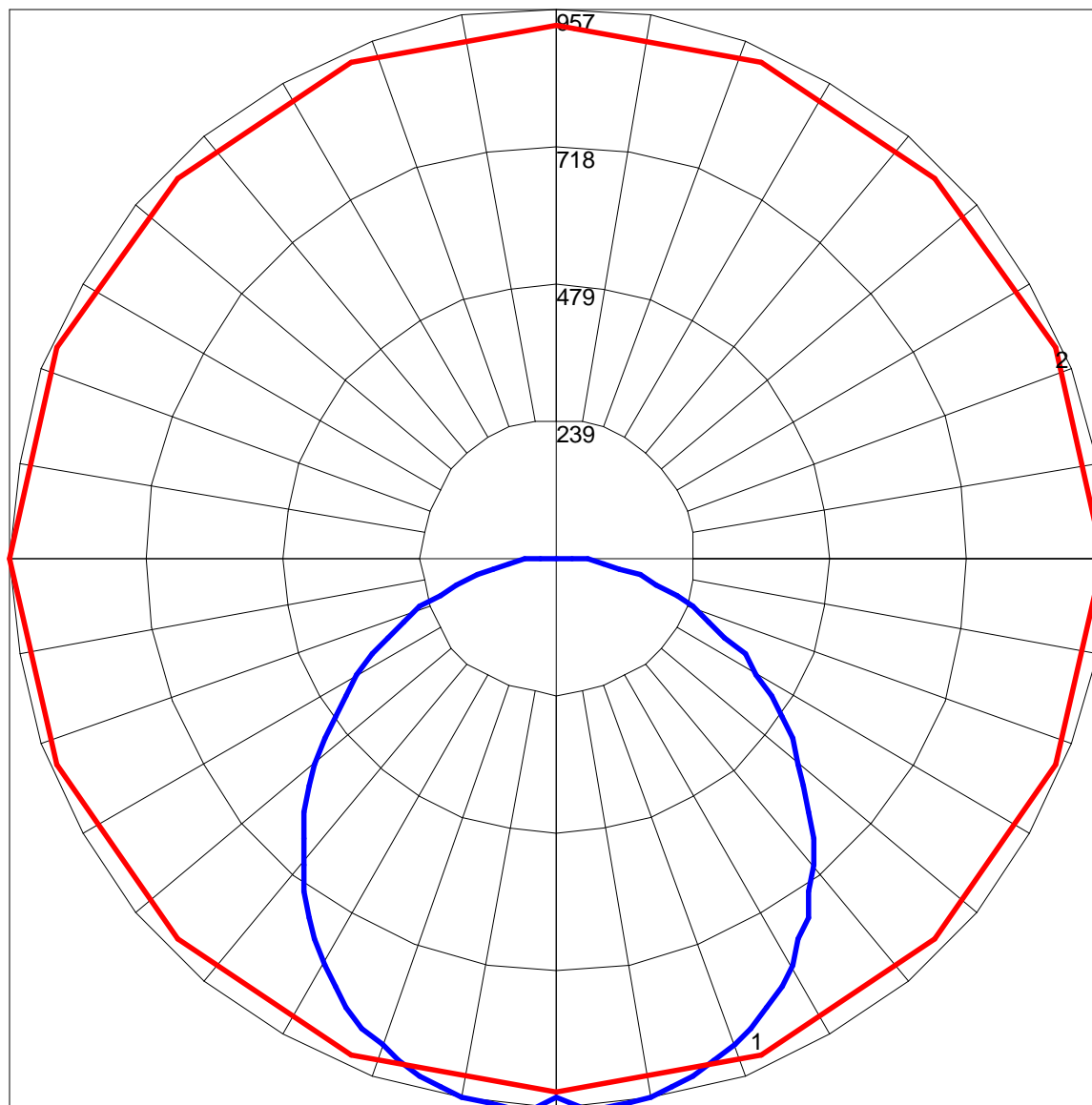
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 | 98 | 94 | 105 | 100 | 96 | 92 | 96 | 93 | 89 | 92 | 89 | 87 | 88 | 86 | 84 | 82 |
| 2 | 97 | 89 | 81 | 75 | 95 | 87 | 80 | 74 | 83 | 77 | 72 | 80 | 75 | 71 | 77 | 73 | 69 | 67 |
| 3 | 88 | 77 | 68 | 62 | 86 | 76 | 67 | 61 | 72 | 66 | 60 | 70 | 64 | 59 | 67 | 62 | 58 | 55 |
| 4 | 81 | 68 | 59 | 52 | 78 | 67 | 58 | 51 | 64 | 56 | 50 | 62 | 55 | 50 | 59 | 54 | 49 | 47 |
| 5 | 74 | 60 | 51 | 44 | 72 | 59 | 50 | 44 | 57 | 49 | 43 | 55 | 48 | 43 | 53 | 47 | 42 | 40 |
| 6 | 68 | 54 | 45 | 38 | 66 | 53 | 44 | 38 | 51 | 43 | 38 | 50 | 43 | 37 | 48 | 42 | 37 | 35 |
| 7 | 63 | 49 | 40 | 33 | 61 | 48 | 39 | 33 | 46 | 39 | 33 | 45 | 38 | 33 | 44 | 37 | 32 | 30 |
| 8 | 58 | 44 | 36 | 30 | 57 | 44 | 35 | 29 | 42 | 35 | 29 | 41 | 34 | 29 | 40 | 34 | 29 | 27 |
| 9 | 55 | 41 | 32 | 26 | 53 | 40 | 32 | 26 | 39 | 31 | 26 | 38 | 31 | 26 | 37 | 31 | 26 | 24 |
| 10 | 51 | 37 | 29 | 24 | 50 | 37 | 29 | 24 | 36 | 29 | 24 | 35 | 28 | 24 | 34 | 28 | 23 | 22 |

POLAR GRAPH



Maximum Candela = 957.241 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.)