



IES INDOOR REPORT
PHOTOMETRIC FILENAME : LPEC24-LED-48L-30.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-8913_Scaled
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]08/18/17
[TEST DATE]05/16/17
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMEN CATEGORY]LPEC24-LED-48L-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 | 4701 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 129 |
| Total Luminaire Watts | 36.3 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.30 |
| Spacing Criterion (90-270) | 1.48 |
| Spacing Criterion (Diagonal) | 1.52 |
| Basic Luminous Shape | Rectangular |
| Luminous Length (0-180) | 4.00 ft |
| Luminous Width (90-270) | 1.98 ft |
| Luminous Height | 0.00 ft |

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 1671 | 2010 | 2290 |
| 55 | 1571 | 2082 | 2526 |
| 65 | 1450 | 2167 | 2860 |
| 75 | 1302 | 2351 | 3441 |
| 85 | 1136 | 2754 | 3552 |

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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 | 1308.318 | 1308.318 | 1308.318 | 1308.318 | 1308.318 |
| 2.5 | 1334.671 | 1319.169 | 1309.868 | 1297.467 | 1289.716 |
| 5.0 | 1333.120 | 1319.169 | 1309.868 | 1302.118 | 1294.367 |
| 7.5 | 1330.020 | 1317.619 | 1309.868 | 1302.118 | 1294.367 |
| 10.0 | 1320.719 | 1309.868 | 1306.768 | 1302.118 | 1295.917 |
| 12.5 | 1311.418 | 1300.567 | 1302.118 | 1300.567 | 1299.017 |
| 15.0 | 1297.467 | 1291.267 | 1295.917 | 1303.668 | 1302.118 |
| 17.5 | 1277.315 | 1274.215 | 1288.166 | 1302.118 | 1303.668 |
| 20.0 | 1260.264 | 1260.264 | 1280.416 | 1300.567 | 1305.218 |
| 22.5 | 1233.911 | 1240.112 | 1269.565 | 1297.467 | 1303.668 |
| 25.0 | 1206.009 | 1215.310 | 1255.613 | 1291.267 | 1300.567 |
| 27.5 | 1170.356 | 1187.407 | 1238.562 | 1281.966 | 1294.367 |
| 30.0 | 1136.253 | 1157.955 | 1218.410 | 1272.665 | 1288.166 |
| 32.5 | 1099.049 | 1123.852 | 1196.708 | 1260.264 | 1277.315 |
| 35.0 | 1058.746 | 1088.198 | 1171.906 | 1246.313 | 1264.914 |
| 37.5 | 1013.792 | 1050.995 | 1147.104 | 1230.811 | 1254.063 |
| 40.0 | 968.838 | 1010.691 | 1114.551 | 1207.559 | 1235.462 |
| 42.5 | 923.883 | 968.838 | 1085.098 | 1187.407 | 1216.860 |
| 45.0 | 869.629 | 922.333 | 1046.345 | 1159.505 | 1192.058 |
| 47.5 | 818.474 | 872.729 | 1007.591 | 1130.052 | 1165.705 |
| 50.0 | 770.420 | 826.225 | 968.838 | 1099.049 | 1137.803 |
| 52.5 | 717.715 | 776.620 | 925.434 | 1063.396 | 1108.350 |
| 55.0 | 663.460 | 722.365 | 878.929 | 1023.092 | 1066.496 |
| 57.5 | 612.305 | 672.761 | 832.425 | 982.789 | 1029.293 |
| 60.0 | 561.151 | 620.056 | 782.821 | 937.835 | 985.889 |
| 62.5 | 508.446 | 564.251 | 730.116 | 889.780 | 939.385 |
| 65.0 | 451.091 | 508.446 | 674.311 | 838.626 | 889.780 |
| 67.5 | 399.936 | 452.641 | 618.506 | 784.371 | 835.525 |
| 70.0 | 347.231 | 398.386 | 562.701 | 730.116 | 782.821 |
| 72.5 | 297.627 | 345.681 | 505.346 | 671.211 | 720.815 |
| 75.0 | 248.022 | 294.527 | 447.990 | 604.555 | 655.709 |
| 77.5 | 198.418 | 241.822 | 385.985 | 531.698 | 572.002 |
| 80.0 | 155.014 | 193.768 | 322.429 | 449.541 | 483.644 |
| 82.5 | 113.160 | 145.713 | 252.673 | 351.882 | 370.483 |
| 85.0 | 72.857 | 100.759 | 176.716 | 227.871 | 227.871 |
| 87.5 | 38.754 | 52.705 | 83.708 | 114.710 | 117.811 |
| 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 | 491.90 | N.A. | 10.50 |
| 0-30 | 1070.28 | N.A. | 22.80 |
| 0-40 | 1801.17 | N.A. | 38.30 |
| 0-60 | 3384.87 | N.A. | 72.00 |
| 0-80 | 4522.47 | N.A. | 96.20 |
| 0-90 | 4700.69 | N.A. | 100.00 |
| 10-90 | 4575.68 | N.A. | 97.30 |
| 20-40 | 1309.27 | N.A. | 27.90 |
| 20-50 | 2111.89 | N.A. | 44.90 |
| 40-70 | 2249.77 | N.A. | 47.90 |
| 60-80 | 1137.61 | N.A. | 24.20 |
| 70-80 | 471.54 | N.A. | 10.00 |
| 80-90 | 178.22 | N.A. | 3.80 |
| 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 | 4700.69 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 125.02 |
| 10-20 | 366.88 |
| 20-30 | 578.38 |
| 30-40 | 730.89 |
| 40-50 | 802.62 |
| 50-60 | 781.08 |
| 60-70 | 666.07 |
| 70-80 | 471.54 |
| 80-90 | 178.22 |
| 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 |

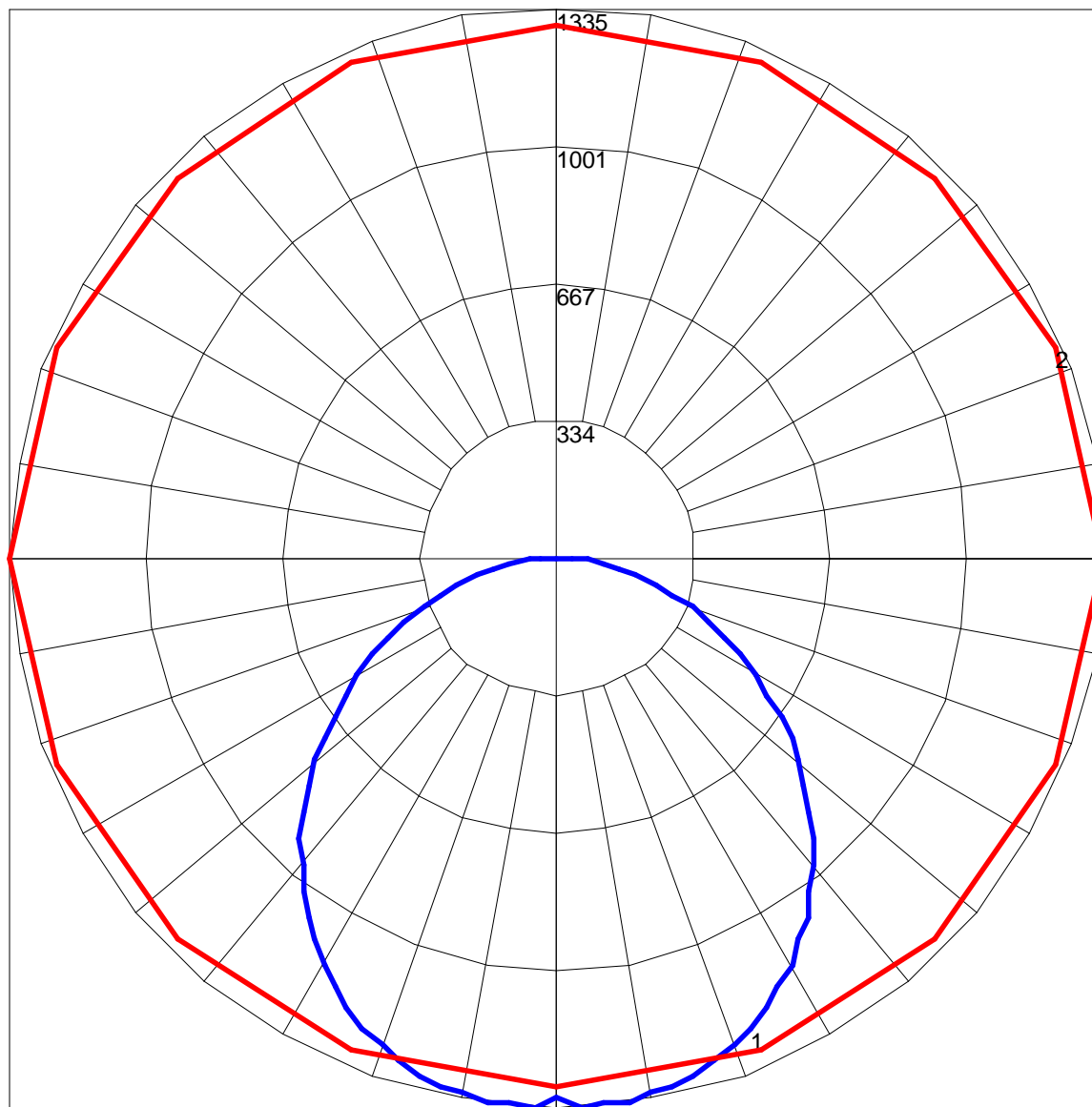
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 | 107 | 102 | 97 | 92 | 104 | 99 | 95 | 91 | 95 | 91 | 88 | 91 | 88 | 85 | 87 | 85 | 83 | 80 |
| 2 | 96 | 87 | 80 | 73 | 94 | 85 | 78 | 72 | 82 | 76 | 71 | 78 | 73 | 69 | 75 | 71 | 67 | 65 |
| 3 | 87 | 76 | 67 | 60 | 85 | 74 | 66 | 59 | 71 | 64 | 58 | 68 | 62 | 57 | 66 | 60 | 56 | 54 |
| 4 | 80 | 67 | 57 | 50 | 77 | 65 | 56 | 50 | 63 | 55 | 49 | 60 | 54 | 48 | 58 | 52 | 47 | 45 |
| 5 | 73 | 59 | 50 | 42 | 71 | 58 | 49 | 42 | 56 | 48 | 42 | 54 | 47 | 41 | 52 | 46 | 41 | 38 |
| 6 | 67 | 53 | 43 | 37 | 65 | 52 | 43 | 37 | 50 | 42 | 36 | 48 | 41 | 36 | 47 | 40 | 35 | 33 |
| 7 | 62 | 48 | 39 | 32 | 60 | 47 | 38 | 32 | 45 | 37 | 32 | 44 | 37 | 31 | 43 | 36 | 31 | 29 |
| 8 | 58 | 43 | 35 | 28 | 56 | 43 | 34 | 28 | 41 | 34 | 28 | 40 | 33 | 28 | 39 | 33 | 28 | 26 |
| 9 | 54 | 40 | 31 | 25 | 52 | 39 | 31 | 25 | 38 | 30 | 25 | 37 | 30 | 25 | 36 | 30 | 25 | 23 |
| 10 | 50 | 37 | 28 | 23 | 49 | 36 | 28 | 23 | 35 | 28 | 23 | 34 | 27 | 23 | 33 | 27 | 23 | 21 |

POLAR GRAPH



Maximum Candela = 1334.671 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.)