



IES INDOOR REPORT
PHOTOMETRIC FILENAME : LPEC22-LED-70L-30.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-8833_Scaled
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]08/18/17
[TEST DATE]04/26/17
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMEN CATEGORY]LPEC22-LED-70L-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 | 6895 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 118 |
| Total Luminaire Watts | 58.6 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.28 |
| Spacing Criterion (90-270) | 1.46 |
| Spacing Criterion (Diagonal) | 1.48 |
| Basic Luminous Shape | Rectangular |
| Luminous Length (0-180) | 2.00 ft |
| Luminous Width (90-270) | 2.00 ft |
| Luminous Height | 0.00 ft |

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 4852 | 5836 | 6728 |
| 55 | 4451 | 5966 | 7402 |
| 65 | 4027 | 6062 | 8270 |
| 75 | 3429 | 6399 | 9969 |
| 85 | 2624 | 6929 | 11443 |

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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 | 2011.321 | 2011.321 | 2011.321 | 2011.321 | 2011.321 |
| 2.5 | 2048.756 | 2035.143 | 2011.321 | 1994.304 | 1984.095 |
| 5.0 | 2048.756 | 2031.740 | 2014.724 | 1994.304 | 1984.095 |
| 7.5 | 2038.547 | 2024.934 | 2007.917 | 1997.708 | 1987.498 |
| 10.0 | 2024.934 | 2014.724 | 2004.514 | 1997.708 | 1994.304 |
| 12.5 | 2004.514 | 1997.708 | 1994.304 | 1990.901 | 1994.304 |
| 15.0 | 1984.095 | 1984.095 | 1987.498 | 1994.304 | 1990.901 |
| 17.5 | 1953.465 | 1956.869 | 1970.482 | 1984.095 | 1987.498 |
| 20.0 | 1919.433 | 1929.643 | 1953.465 | 1980.691 | 1987.498 |
| 22.5 | 1878.594 | 1892.207 | 1929.643 | 1967.078 | 1977.288 |
| 25.0 | 1834.352 | 1851.368 | 1902.417 | 1953.465 | 1970.482 |
| 27.5 | 1779.900 | 1807.126 | 1875.191 | 1939.852 | 1960.272 |
| 30.0 | 1718.641 | 1752.674 | 1834.352 | 1916.030 | 1943.256 |
| 32.5 | 1653.979 | 1694.818 | 1796.916 | 1888.804 | 1926.239 |
| 35.0 | 1589.318 | 1636.963 | 1752.674 | 1864.981 | 1902.417 |
| 37.5 | 1514.446 | 1568.898 | 1701.625 | 1827.545 | 1875.191 |
| 40.0 | 1436.171 | 1500.833 | 1650.576 | 1790.109 | 1841.158 |
| 42.5 | 1357.897 | 1429.365 | 1596.124 | 1749.270 | 1803.722 |
| 45.0 | 1276.219 | 1354.493 | 1534.866 | 1701.625 | 1769.690 |
| 47.5 | 1201.347 | 1276.219 | 1473.607 | 1657.383 | 1728.851 |
| 50.0 | 1119.669 | 1197.944 | 1405.542 | 1606.334 | 1681.205 |
| 52.5 | 1034.588 | 1119.669 | 1340.880 | 1555.285 | 1626.753 |
| 55.0 | 949.507 | 1041.394 | 1272.815 | 1494.027 | 1579.108 |
| 57.5 | 871.232 | 959.716 | 1194.541 | 1429.365 | 1521.253 |
| 60.0 | 786.151 | 874.635 | 1119.669 | 1357.897 | 1449.784 |
| 62.5 | 711.279 | 796.360 | 1041.394 | 1293.235 | 1381.719 |
| 65.0 | 633.004 | 711.279 | 952.910 | 1211.557 | 1300.041 |
| 67.5 | 554.730 | 629.601 | 874.635 | 1129.879 | 1228.573 |
| 70.0 | 476.455 | 547.923 | 786.151 | 1048.201 | 1143.492 |
| 72.5 | 404.987 | 469.648 | 701.069 | 963.120 | 1061.814 |
| 75.0 | 330.115 | 394.777 | 615.988 | 867.829 | 959.716 |
| 77.5 | 262.050 | 319.905 | 524.100 | 758.925 | 854.216 |
| 80.0 | 200.792 | 251.840 | 432.213 | 646.617 | 724.892 |
| 82.5 | 142.936 | 180.372 | 330.115 | 503.681 | 568.343 |
| 85.0 | 85.081 | 115.710 | 224.614 | 336.922 | 370.954 |
| 87.5 | 37.436 | 47.645 | 102.097 | 142.936 | 146.340 |
| 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 | 753.56 | N.A. | 10.90 |
| 0-30 | 1631.26 | N.A. | 23.70 |
| 0-40 | 2725.2 | N.A. | 39.50 |
| 0-60 | 5037.89 | N.A. | 73.10 |
| 0-80 | 6652.6 | N.A. | 96.50 |
| 0-90 | 6894.51 | N.A. | 100.00 |
| 10-90 | 6702.52 | N.A. | 97.20 |
| 20-40 | 1971.64 | N.A. | 28.60 |
| 20-50 | 3151.9 | N.A. | 45.70 |
| 40-70 | 3264.61 | N.A. | 47.40 |
| 60-80 | 1614.71 | N.A. | 23.40 |
| 70-80 | 662.79 | N.A. | 9.60 |
| 80-90 | 241.91 | N.A. | 3.50 |
| 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 | 6894.51 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|---------|
| 0-10 | 191.99 |
| 10-20 | 561.58 |
| 20-30 | 877.69 |
| 30-40 | 1093.94 |
| 40-50 | 1180.26 |
| 50-60 | 1132.42 |
| 60-70 | 951.92 |
| 70-80 | 662.79 |
| 80-90 | 241.91 |
| 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 |

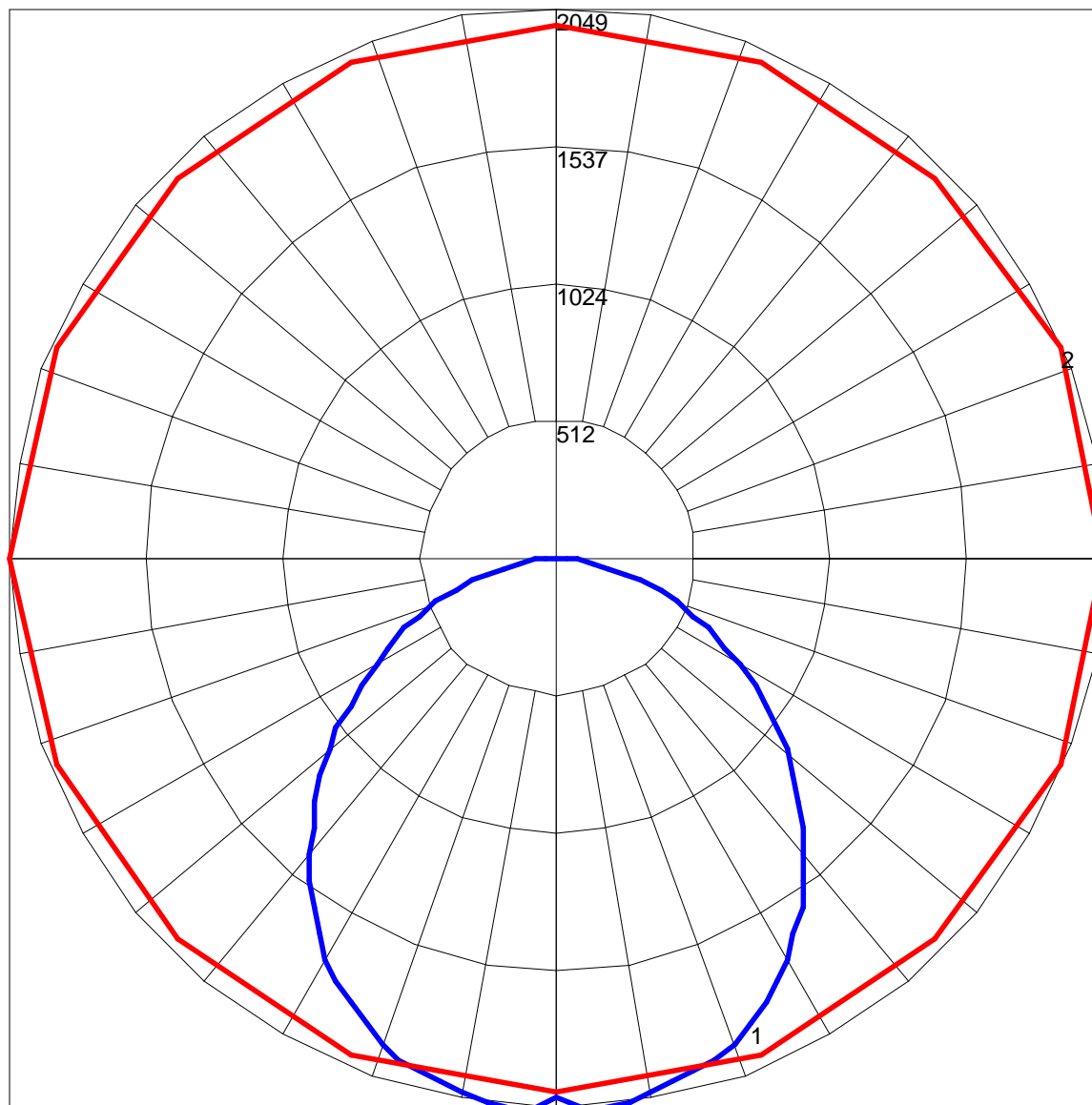
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 | 93 | 105 | 100 | 95 | 91 | 95 | 92 | 88 | 91 | 88 | 86 | 88 | 85 | 83 | 81 |
| 2 | 97 | 88 | 80 | 74 | 94 | 86 | 79 | 73 | 82 | 76 | 71 | 79 | 74 | 70 | 76 | 72 | 68 | 66 |
| 3 | 88 | 76 | 68 | 61 | 85 | 75 | 67 | 60 | 72 | 65 | 59 | 69 | 63 | 58 | 66 | 61 | 57 | 55 |
| 4 | 80 | 67 | 58 | 51 | 78 | 66 | 57 | 50 | 63 | 56 | 50 | 61 | 54 | 49 | 59 | 53 | 48 | 46 |
| 5 | 73 | 60 | 50 | 43 | 71 | 59 | 50 | 43 | 56 | 49 | 42 | 54 | 47 | 42 | 52 | 46 | 42 | 39 |
| 6 | 68 | 54 | 44 | 37 | 66 | 53 | 44 | 37 | 51 | 43 | 37 | 49 | 42 | 37 | 47 | 41 | 36 | 34 |
| 7 | 63 | 48 | 39 | 33 | 61 | 48 | 39 | 33 | 46 | 38 | 32 | 45 | 37 | 32 | 43 | 37 | 32 | 30 |
| 8 | 58 | 44 | 35 | 29 | 57 | 43 | 35 | 29 | 42 | 34 | 29 | 41 | 34 | 29 | 40 | 33 | 28 | 26 |
| 9 | 54 | 40 | 32 | 26 | 53 | 40 | 32 | 26 | 39 | 31 | 26 | 37 | 31 | 26 | 36 | 30 | 26 | 24 |
| 10 | 51 | 37 | 29 | 24 | 49 | 37 | 29 | 24 | 36 | 28 | 23 | 35 | 28 | 23 | 34 | 28 | 23 | 21 |

POLAR GRAPH



Maximum Candela = 2048.756 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.)