



IES INDOOR REPORT
PHOTOMETRIC FILENAME : LPEC24-LED-60L-50.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-8913_Scaled
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]07/10/17
[TEST DATE]05/16/17
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMEN CATEGORY]LPEC24-LED-60L-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 | 6522 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 141 |
| Total Luminaire Watts | 46.3 |
| 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 | 2318 | 2789 | 3177 |
| 55 | 2180 | 2888 | 3504 |
| 65 | 2012 | 3007 | 3968 |
| 75 | 1806 | 3262 | 4775 |
| 85 | 1575 | 3821 | 4927 |

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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 | 1815.208 | 1815.208 | 1815.208 | 1815.208 | 1815.208 |
| 2.5 | 1851.770 | 1830.263 | 1817.358 | 1800.153 | 1789.399 |
| 5.0 | 1849.619 | 1830.263 | 1817.358 | 1806.605 | 1795.851 |
| 7.5 | 1845.318 | 1828.112 | 1817.358 | 1806.605 | 1795.851 |
| 10.0 | 1832.413 | 1817.358 | 1813.057 | 1806.605 | 1798.002 |
| 12.5 | 1819.509 | 1804.454 | 1806.605 | 1804.454 | 1802.303 |
| 15.0 | 1800.153 | 1791.550 | 1798.002 | 1808.755 | 1806.605 |
| 17.5 | 1772.193 | 1767.892 | 1787.248 | 1806.605 | 1808.755 |
| 20.0 | 1748.535 | 1748.535 | 1776.495 | 1804.454 | 1810.906 |
| 22.5 | 1711.973 | 1720.576 | 1761.440 | 1800.153 | 1808.755 |
| 25.0 | 1673.260 | 1686.164 | 1742.083 | 1791.550 | 1804.454 |
| 27.5 | 1623.794 | 1647.451 | 1718.425 | 1778.645 | 1795.851 |
| 30.0 | 1576.478 | 1606.588 | 1690.466 | 1765.741 | 1787.248 |
| 32.5 | 1524.860 | 1559.272 | 1660.356 | 1748.535 | 1772.193 |
| 35.0 | 1468.942 | 1509.805 | 1625.944 | 1729.179 | 1754.987 |
| 37.5 | 1406.571 | 1458.188 | 1591.533 | 1707.672 | 1739.932 |
| 40.0 | 1344.200 | 1402.269 | 1546.368 | 1675.411 | 1714.124 |
| 42.5 | 1281.829 | 1344.200 | 1505.504 | 1647.451 | 1688.315 |
| 45.0 | 1206.554 | 1279.678 | 1451.736 | 1608.738 | 1653.904 |
| 47.5 | 1135.580 | 1210.855 | 1397.968 | 1567.875 | 1617.341 |
| 50.0 | 1068.908 | 1146.334 | 1344.200 | 1524.860 | 1578.628 |
| 52.5 | 995.783 | 1077.511 | 1283.980 | 1475.394 | 1537.765 |
| 55.0 | 920.508 | 1002.235 | 1219.458 | 1419.475 | 1479.695 |
| 57.5 | 849.534 | 933.412 | 1154.937 | 1363.556 | 1428.078 |
| 60.0 | 778.561 | 860.288 | 1086.114 | 1301.186 | 1367.858 |
| 62.5 | 705.436 | 782.862 | 1012.989 | 1234.513 | 1303.336 |
| 65.0 | 625.859 | 705.436 | 935.563 | 1163.539 | 1234.513 |
| 67.5 | 554.886 | 628.010 | 858.137 | 1088.264 | 1159.238 |
| 70.0 | 481.761 | 552.735 | 780.711 | 1012.989 | 1086.114 |
| 72.5 | 412.938 | 479.611 | 701.135 | 931.262 | 1000.085 |
| 75.0 | 344.115 | 408.637 | 621.558 | 838.781 | 909.755 |
| 77.5 | 275.292 | 335.512 | 535.529 | 737.697 | 793.616 |
| 80.0 | 215.072 | 268.840 | 447.350 | 623.709 | 671.025 |
| 82.5 | 157.003 | 202.168 | 350.567 | 488.213 | 514.022 |
| 85.0 | 101.084 | 139.797 | 245.182 | 316.156 | 316.156 |
| 87.5 | 53.768 | 73.124 | 116.139 | 159.153 | 163.455 |
| 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 | 682.48 | N.A. | 10.50 |
| 0-30 | 1484.95 | N.A. | 22.80 |
| 0-40 | 2499.01 | N.A. | 38.30 |
| 0-60 | 4696.28 | N.A. | 72.00 |
| 0-80 | 6274.64 | N.A. | 96.20 |
| 0-90 | 6521.91 | N.A. | 100.00 |
| 10-90 | 6348.46 | N.A. | 97.30 |
| 20-40 | 1816.53 | N.A. | 27.90 |
| 20-50 | 2930.11 | N.A. | 44.90 |
| 40-70 | 3121.41 | N.A. | 47.90 |
| 60-80 | 1578.36 | N.A. | 24.20 |
| 70-80 | 654.23 | N.A. | 10.00 |
| 80-90 | 247.27 | 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 | 6521.91 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|---------|
| 0-10 | 173.45 |
| 10-20 | 509.03 |
| 20-30 | 802.47 |
| 30-40 | 1014.06 |
| 40-50 | 1113.58 |
| 50-60 | 1083.69 |
| 60-70 | 924.13 |
| 70-80 | 654.23 |
| 80-90 | 247.27 |
| 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 |

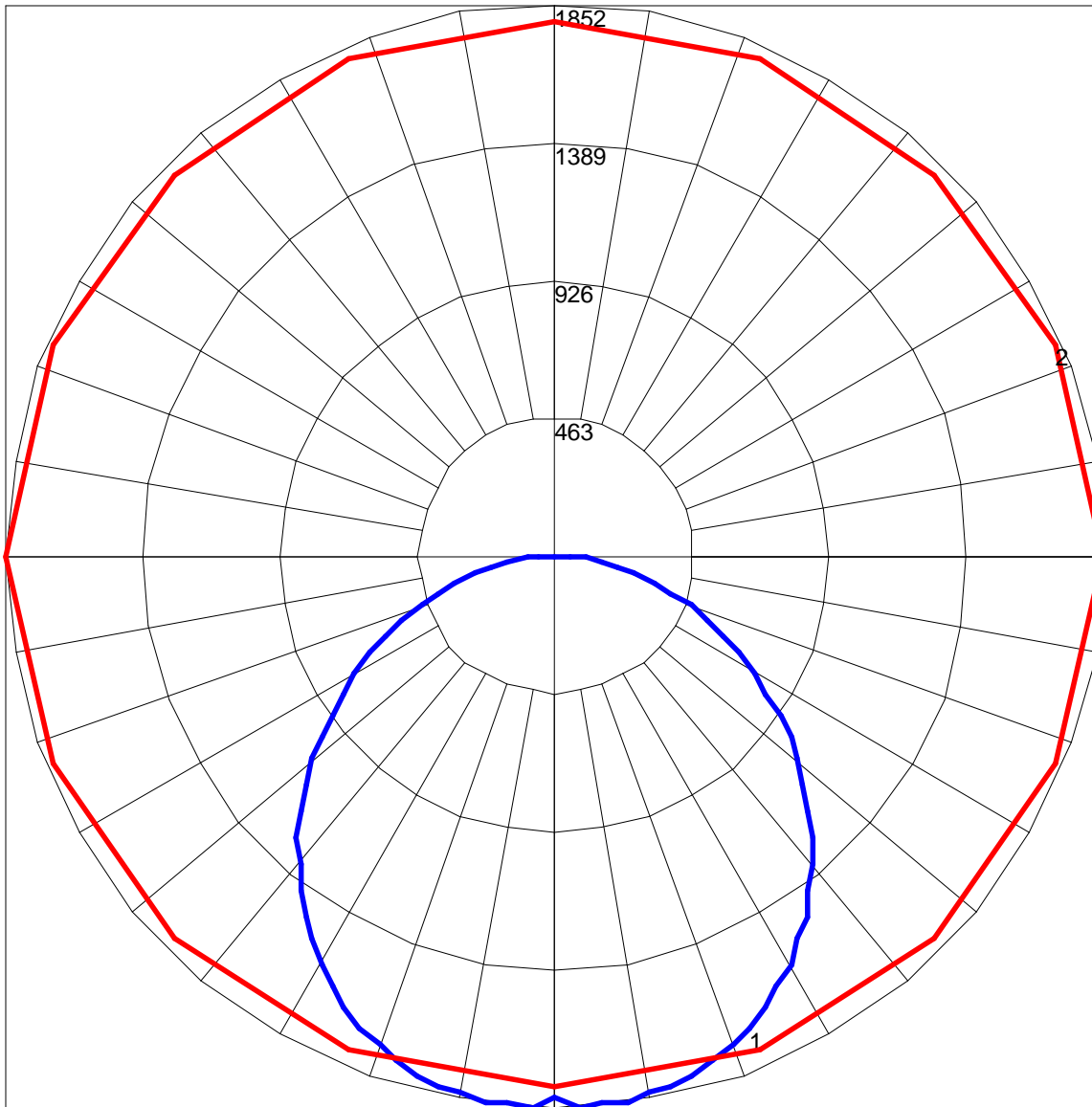
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 1851.77 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.)