



IES INDOOR REPORT
PHOTOMETRIC FILENAME : LPASC14-LED-55L-30.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-8850_scaled
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE]DATE]08/18/17
[TEST]DATE]08/18/17
[MANUFAC]LSI INDUSTRIES, INC
[LUMCAT]LPASC14-LED-55L-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_SOURCE]TYPE] LED
[_SEARCH_APPLICATION] Indoor

CHARACTERISTICS

| | |
|---------------------------------|-----------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 5374 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 124 |
| Total Luminaire Watts | 43.5 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.28 |
| Spacing Criterion (90-270) | 1.38 |
| Spacing Criterion (Diagonal) | 1.44 |
| 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 | 4171 | 4667 | 5072 |
| 55 | 3869 | 4642 | 5266 |
| 65 | 3591 | 4726 | 5420 |
| 75 | 3291 | 4702 | 4563 |
| 85 | 3039 | 4271 | 4764 |

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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 | 1696.032 | 1696.032 | 1696.032 | 1696.032 | 1696.032 |
| 2.5 | 1738.632 | 1712.007 | 1698.694 | 1682.719 | 1674.731 |
| 5.0 | 1733.307 | 1709.344 | 1698.694 | 1682.719 | 1669.406 |
| 7.5 | 1725.319 | 1704.019 | 1693.369 | 1680.056 | 1672.069 |
| 10.0 | 1725.319 | 1698.694 | 1690.707 | 1680.056 | 1669.406 |
| 12.5 | 1706.682 | 1682.719 | 1680.056 | 1672.069 | 1664.081 |
| 15.0 | 1688.044 | 1666.744 | 1669.406 | 1669.406 | 1658.756 |
| 17.5 | 1666.744 | 1648.106 | 1650.769 | 1656.094 | 1650.769 |
| 20.0 | 1632.131 | 1618.818 | 1626.806 | 1637.456 | 1634.793 |
| 22.5 | 1597.518 | 1589.530 | 1602.843 | 1621.481 | 1618.818 |
| 25.0 | 1562.905 | 1554.917 | 1578.880 | 1600.180 | 1600.180 |
| 27.5 | 1514.980 | 1514.980 | 1546.930 | 1576.218 | 1581.543 |
| 30.0 | 1464.391 | 1475.042 | 1512.317 | 1549.592 | 1557.580 |
| 32.5 | 1408.478 | 1421.791 | 1472.379 | 1517.642 | 1525.630 |
| 35.0 | 1355.228 | 1373.865 | 1432.441 | 1488.354 | 1499.004 |
| 37.5 | 1291.327 | 1315.290 | 1384.516 | 1448.416 | 1461.729 |
| 40.0 | 1232.751 | 1259.377 | 1339.253 | 1408.478 | 1424.454 |
| 42.5 | 1160.863 | 1192.813 | 1283.339 | 1357.890 | 1379.191 |
| 45.0 | 1096.962 | 1128.913 | 1227.426 | 1312.627 | 1333.928 |
| 47.5 | 1027.737 | 1070.337 | 1174.176 | 1267.364 | 1291.327 |
| 50.0 | 958.511 | 1003.774 | 1112.938 | 1211.451 | 1232.751 |
| 52.5 | 891.948 | 939.873 | 1057.024 | 1152.875 | 1182.163 |
| 55.0 | 825.384 | 873.310 | 990.461 | 1094.300 | 1123.588 |
| 57.5 | 758.821 | 812.072 | 934.548 | 1035.724 | 1065.012 |
| 60.0 | 694.920 | 748.171 | 867.985 | 969.161 | 1001.111 |
| 62.5 | 625.695 | 678.945 | 804.084 | 902.598 | 926.560 |
| 65.0 | 564.456 | 615.044 | 742.846 | 836.034 | 852.010 |
| 67.5 | 495.231 | 545.819 | 673.620 | 745.508 | 753.496 |
| 70.0 | 431.330 | 489.906 | 604.394 | 652.320 | 644.332 |
| 72.5 | 375.417 | 433.992 | 532.506 | 556.469 | 543.156 |
| 75.0 | 316.841 | 375.417 | 452.630 | 449.968 | 439.317 |
| 77.5 | 260.928 | 322.166 | 370.092 | 359.442 | 343.466 |
| 80.0 | 202.352 | 255.603 | 282.228 | 271.578 | 266.253 |
| 82.5 | 146.439 | 194.365 | 207.677 | 205.015 | 205.015 |
| 85.0 | 98.514 | 130.464 | 138.452 | 146.439 | 154.427 |
| 87.5 | 50.588 | 66.563 | 66.563 | 71.888 | 74.551 |
| 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 | 633.21 | N.A. | 11.80 |
| 0-30 | 1360.81 | N.A. | 25.30 |
| 0-40 | 2254.5 | N.A. | 42.00 |
| 0-60 | 4078.5 | N.A. | 75.90 |
| 0-80 | 5229.8 | N.A. | 97.30 |
| 0-90 | 5373.62 | N.A. | 100.00 |
| 10-90 | 5211.79 | N.A. | 97.00 |
| 20-40 | 1621.29 | N.A. | 30.20 |
| 20-50 | 2564.7 | N.A. | 47.70 |
| 40-70 | 2536.39 | N.A. | 47.20 |
| 60-80 | 1151.29 | N.A. | 21.40 |
| 70-80 | 438.91 | N.A. | 8.20 |
| 80-90 | 143.82 | N.A. | 2.70 |
| 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 | 5373.62 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 161.83 |
| 10-20 | 471.38 |
| 20-30 | 727.60 |
| 30-40 | 893.69 |
| 40-50 | 943.41 |
| 50-60 | 880.59 |
| 60-70 | 712.39 |
| 70-80 | 438.91 |
| 80-90 | 143.82 |
| 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 |

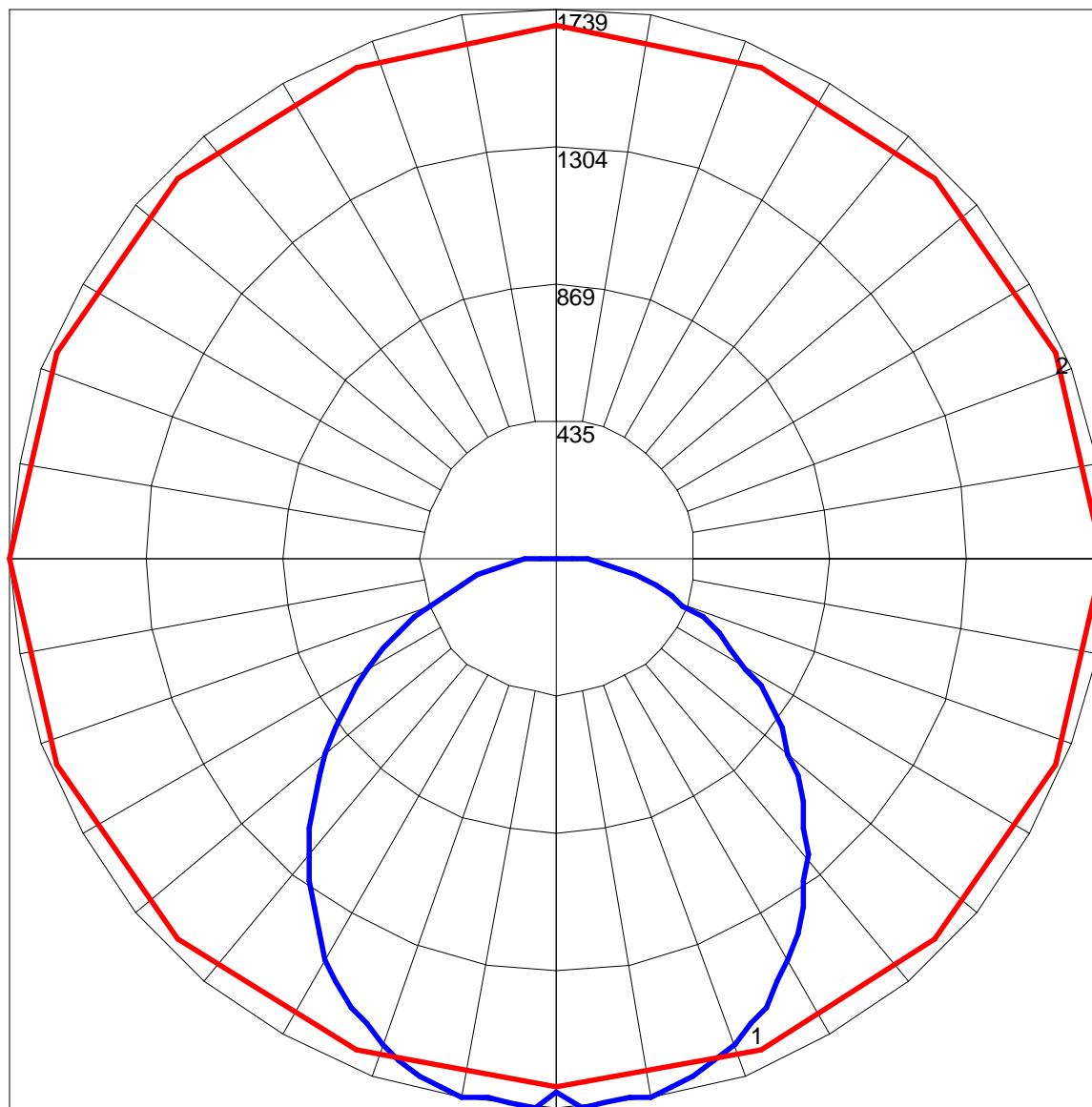
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 | 101 | 97 | 93 | 96 | 93 | 90 | 92 | 90 | 87 | 89 | 87 | 84 | 82 |
| 2 | 98 | 89 | 82 | 76 | 95 | 87 | 81 | 75 | 84 | 78 | 73 | 80 | 76 | 72 | 77 | 73 | 70 | 68 |
| 3 | 89 | 78 | 69 | 63 | 86 | 76 | 68 | 62 | 73 | 66 | 61 | 70 | 65 | 60 | 68 | 63 | 59 | 56 |
| 4 | 81 | 69 | 60 | 53 | 79 | 67 | 59 | 52 | 65 | 57 | 52 | 62 | 56 | 51 | 60 | 55 | 50 | 48 |
| 5 | 74 | 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 | 34 | 31 |
| 8 | 59 | 45 | 37 | 31 | 58 | 45 | 36 | 31 | 43 | 36 | 30 | 42 | 35 | 30 | 41 | 35 | 30 | 28 |
| 9 | 55 | 42 | 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 | 30 | 25 | 36 | 29 | 25 | 35 | 29 | 24 | 23 |

POLAR GRAPH



Maximum Candela = 1738.632 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.)