



IES INDOOR REPORT

PHOTOMETRIC FILENAME : LPEC14-LED-75L-30.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-8960_Scaled
[TESTLAB] LSI INDUSTRIES, INC
[ISSUEDATE] 08/18/17
[TESTDATE] 05/25/17
[MANUFAC] LSI INDUSTRIES, INC
[LUMCAT] LPEC14-LED-75L-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 | 7335 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 122 |
| Total Luminaire Watts | 60.1 |
| 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 | 5450 | 6431 | 7208 |
| 55 | 5123 | 6551 | 7727 |
| 65 | 4765 | 6634 | 8253 |
| 75 | 4318 | 6626 | 8004 |
| 85 | 3759 | 5970 | 5527 |

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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 | 2146.666 | 2146.666 | 2146.666 | 2146.666 | 2146.666 |
| 2.5 | 2189.671 | 2164.585 | 2150.250 | 2132.331 | 2121.580 |
| 5.0 | 2189.671 | 2164.585 | 2150.250 | 2135.915 | 2128.748 |
| 7.5 | 2182.504 | 2161.001 | 2150.250 | 2139.499 | 2128.748 |
| 10.0 | 2171.753 | 2150.250 | 2146.666 | 2139.499 | 2128.748 |
| 12.5 | 2150.250 | 2132.331 | 2132.331 | 2135.915 | 2128.748 |
| 15.0 | 2128.748 | 2114.413 | 2125.164 | 2132.331 | 2135.915 |
| 17.5 | 2100.078 | 2092.910 | 2110.829 | 2132.331 | 2132.331 |
| 20.0 | 2064.240 | 2064.240 | 2092.910 | 2128.748 | 2132.331 |
| 22.5 | 2024.819 | 2028.403 | 2071.408 | 2117.996 | 2121.580 |
| 25.0 | 1985.398 | 1992.565 | 2053.489 | 2107.245 | 2117.996 |
| 27.5 | 1928.058 | 1953.144 | 2021.235 | 2089.326 | 2110.829 |
| 30.0 | 1867.134 | 1902.971 | 1988.981 | 2071.408 | 2092.910 |
| 32.5 | 1806.210 | 1845.631 | 1953.144 | 2046.321 | 2078.575 |
| 35.0 | 1741.703 | 1788.291 | 1906.555 | 2017.651 | 2046.321 |
| 37.5 | 1666.444 | 1720.200 | 1859.966 | 1981.814 | 2017.651 |
| 40.0 | 1584.018 | 1652.109 | 1806.210 | 1942.393 | 1981.814 |
| 42.5 | 1512.343 | 1576.850 | 1752.454 | 1899.388 | 1945.976 |
| 45.0 | 1433.500 | 1505.175 | 1691.530 | 1849.215 | 1895.804 |
| 47.5 | 1347.490 | 1429.916 | 1623.439 | 1799.043 | 1845.631 |
| 50.0 | 1265.064 | 1351.074 | 1551.764 | 1734.535 | 1791.875 |
| 52.5 | 1179.054 | 1268.648 | 1476.505 | 1662.860 | 1720.200 |
| 55.0 | 1093.044 | 1182.638 | 1397.663 | 1587.601 | 1648.525 |
| 57.5 | 1010.618 | 1096.628 | 1315.236 | 1512.343 | 1573.266 |
| 60.0 | 928.191 | 1007.034 | 1229.226 | 1426.333 | 1487.256 |
| 62.5 | 838.598 | 917.440 | 1139.633 | 1336.739 | 1397.663 |
| 65.0 | 749.004 | 824.263 | 1042.871 | 1239.978 | 1297.318 |
| 67.5 | 662.994 | 734.669 | 942.526 | 1132.465 | 1182.638 |
| 70.0 | 576.984 | 641.491 | 842.181 | 1017.785 | 1053.623 |
| 72.5 | 498.141 | 555.481 | 745.420 | 895.938 | 921.024 |
| 75.0 | 415.715 | 469.471 | 637.908 | 763.339 | 770.506 |
| 77.5 | 336.873 | 387.045 | 530.395 | 612.821 | 612.821 |
| 80.0 | 258.030 | 304.619 | 419.299 | 469.471 | 462.304 |
| 82.5 | 193.523 | 222.193 | 308.203 | 326.121 | 311.786 |
| 85.0 | 121.848 | 146.934 | 193.523 | 186.355 | 179.188 |
| 87.5 | 60.924 | 75.259 | 82.426 | 68.091 | 64.508 |
| 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 | 806.63 | N.A. | 11.00 |
| 0-30 | 1752.4 | N.A. | 23.90 |
| 0-40 | 2942.13 | N.A. | 40.10 |
| 0-60 | 5474.41 | N.A. | 74.60 |
| 0-80 | 7140.57 | N.A. | 97.40 |
| 0-90 | 7334.52 | N.A. | 100.00 |
| 10-90 | 7129.24 | N.A. | 97.20 |
| 20-40 | 2135.5 | N.A. | 29.10 |
| 20-50 | 3429.63 | N.A. | 46.80 |
| 40-70 | 3551.49 | N.A. | 48.40 |
| 60-80 | 1666.16 | N.A. | 22.70 |
| 70-80 | 646.95 | N.A. | 8.80 |
| 80-90 | 193.94 | 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 | 7334.52 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|---------|
| 0-10 | 205.28 |
| 10-20 | 601.36 |
| 20-30 | 945.76 |
| 30-40 | 1189.74 |
| 40-50 | 1294.13 |
| 50-60 | 1238.15 |
| 60-70 | 1019.21 |
| 70-80 | 646.95 |
| 80-90 | 193.94 |
| 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 |

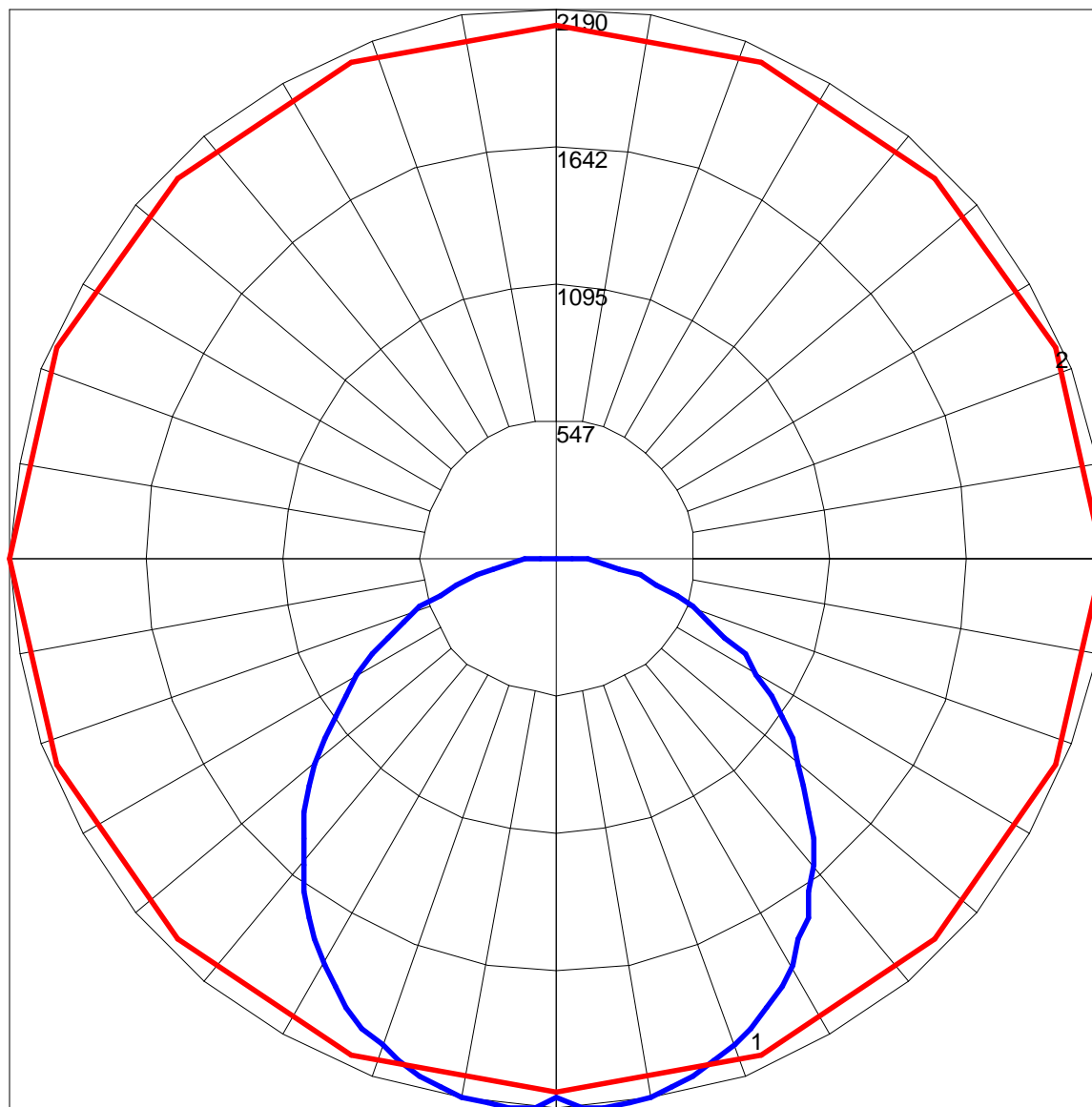
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 | 37 | 50 | 42 | 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 = 2189.671 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.)