



IES INDOOR REPORT
PHOTOMETRIC FILENAME : SW-4-80L-835.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-12471
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 02/17/21
[TEST DATE] 02/03/21
[MANUFACT] LSI INDUSTRIES, INC.
[LUMCAT] SW-4-80L-835
[OTHER] TEST PROCEDURE: IESNA LM-79-08
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER] SCALED FROM ORIGINAL TEST DATA
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Indoor
[SEARCH_COLORTEMP] 3500

CHARACTERISTICS

| | |
|---------------------------------|---------------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 7715 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 124 |
| Total Luminaire Watts | 62 |
| Ballast Factor | 1.00 |
| CIE Type | Semi-Direct |
| Spacing Criterion (0-180) | 1.26 |
| Spacing Criterion (90-270) | 1.26 |
| Spacing Criterion (Diagonal) | 1.36 |
| Basic Luminous Shape | Rectangular w/Sides |
| Luminous Length (0-180) | 3.90 ft |
| Luminous Width (90-270) | 0.35 ft |
| Luminous Height | 0.23 ft |



LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 13015 | 9933 | 9292 |
| 55 | 10920 | 8409 | 8581 |
| 65 | 8705 | 7418 | 8720 |
| 75 | 6586 | 7026 | 8693 |
| 85 | 3996 | 6752 | 7795 |

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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 | 2100 | 2100 | 2100 | 2100 | 2100 |
| 2.5 | 2154 | 2119 | 2102 | 2088 | 2071 |
| 5.0 | 2152 | 2119 | 2105 | 2094 | 2079 |
| 7.5 | 2145 | 2115 | 2106 | 2096 | 2083 |
| 10.0 | 2130 | 2105 | 2100 | 2091 | 2078 |
| 12.5 | 2109 | 2090 | 2087 | 2080 | 2067 |
| 15.0 | 2083 | 2068 | 2066 | 2060 | 2048 |
| 17.5 | 2048 | 2039 | 2039 | 2033 | 2022 |
| 20.0 | 2008 | 2004 | 2004 | 1998 | 1987 |
| 22.5 | 1959 | 1961 | 1962 | 1955 | 1943 |
| 25.0 | 1904 | 1911 | 1913 | 1906 | 1891 |
| 27.5 | 1841 | 1855 | 1857 | 1849 | 1835 |
| 30.0 | 1771 | 1792 | 1797 | 1788 | 1772 |
| 32.5 | 1695 | 1721 | 1728 | 1722 | 1706 |
| 35.0 | 1613 | 1645 | 1655 | 1651 | 1638 |
| 37.5 | 1528 | 1560 | 1578 | 1580 | 1570 |
| 40.0 | 1436 | 1474 | 1500 | 1510 | 1503 |
| 42.5 | 1332 | 1384 | 1422 | 1442 | 1441 |
| 45.0 | 1237 | 1297 | 1343 | 1376 | 1382 |
| 47.5 | 1141 | 1207 | 1265 | 1316 | 1330 |
| 50.0 | 1047 | 1119 | 1192 | 1257 | 1284 |
| 52.5 | 954 | 1033 | 1123 | 1208 | 1242 |
| 55.0 | 862 | 950 | 1055 | 1162 | 1211 |
| 57.5 | 775 | 869 | 993 | 1123 | 1185 |
| 60.0 | 691 | 790 | 933 | 1090 | 1164 |
| 62.5 | 610 | 714 | 879 | 1061 | 1145 |
| 65.0 | 526 | 645 | 830 | 1036 | 1127 |
| 67.5 | 453 | 579 | 784 | 1011 | 1103 |
| 70.0 | 385 | 520 | 742 | 982 | 1074 |
| 72.5 | 322 | 465 | 704 | 950 | 1035 |
| 75.0 | 264 | 415 | 667 | 911 | 986 |
| 77.5 | 212 | 370 | 631 | 864 | 932 |
| 80.0 | 163 | 325 | 593 | 811 | 870 |
| 82.5 | 115 | 286 | 551 | 753 | 804 |
| 85.0 | 74 | 246 | 507 | 691 | 734 |
| 87.5 | 36 | 208 | 459 | 624 | 662 |
| 90.0 | 5 | 174 | 415 | 557 | 589 |
| 92.5 | 1 | 163 | 388 | 514 | 539 |
| 95.0 | 1 | 157 | 366 | 478 | 498 |
| 97.5 | 1 | 151 | 344 | 442 | 460 |
| 100.0 | 1 | 145 | 324 | 411 | 427 |
| 102.5 | 1 | 139 | 304 | 383 | 398 |
| 105.0 | 1 | 131 | 287 | 358 | 372 |
| 107.5 | 1 | 123 | 270 | 337 | 350 |
| 110.0 | 1 | 113 | 258 | 317 | 330 |
| 112.5 | 1 | 102 | 244 | 301 | 314 |
| 115.0 | 1 | 90 | 229 | 288 | 299 |
| 117.5 | 1 | 79 | 216 | 274 | 288 |
| 120.0 | 2 | 67 | 200 | 261 | 275 |
| 122.5 | 2 | 58 | 184 | 248 | 263 |
| 125.0 | 1 | 47 | 170 | 232 | 249 |
| 127.5 | 2 | 37 | 153 | 218 | 234 |
| 130.0 | 2 | 28 | 138 | 200 | 219 |
| 132.5 | 2 | 19 | 123 | 184 | 202 |

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CANDELA TABULATION - (Cont.)

| | | | | | |
|-------|---|---|-----|-----|-----|
| 135.0 | 2 | 9 | 107 | 169 | 186 |
| 137.5 | 2 | 3 | 93 | 151 | 170 |
| 140.0 | 2 | 2 | 77 | 134 | 152 |
| 142.5 | 2 | 2 | 62 | 116 | 134 |
| 145.0 | 2 | 2 | 49 | 100 | 115 |
| 147.5 | 2 | 2 | 35 | 81 | 98 |
| 150.0 | 2 | 2 | 20 | 63 | 78 |
| 152.5 | 2 | 2 | 6 | 46 | 59 |
| 155.0 | 2 | 2 | 2 | 29 | 41 |
| 157.5 | 2 | 2 | 2 | 12 | 22 |
| 160.0 | 2 | 2 | 2 | 2 | 5 |
| 162.5 | 2 | 2 | 2 | 2 | 1 |
| 165.0 | 2 | 2 | 2 | 2 | 1 |
| 167.5 | 3 | 2 | 2 | 2 | 1 |
| 170.0 | 2 | 2 | 2 | 2 | 1 |
| 172.5 | 3 | 2 | 2 | 2 | 1 |
| 175.0 | 3 | 2 | 2 | 2 | 1 |
| 177.5 | 3 | 2 | 2 | 2 | 1 |
| 180.0 | 2 | 2 | 2 | 2 | 2 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 783.37 | N.A. | 10.20 |
| 0-30 | 1660.83 | N.A. | 21.50 |
| 0-40 | 2688.42 | N.A. | 34.80 |
| 0-60 | 4661.16 | N.A. | 60.40 |
| 0-80 | 6180.94 | N.A. | 80.10 |
| 0-90 | 6684.05 | N.A. | 86.60 |
| 10-90 | 6483.05 | N.A. | 84.00 |
| 20-40 | 1905.05 | N.A. | 24.70 |
| 20-50 | 2934.11 | N.A. | 38.00 |
| 40-70 | 2801.48 | N.A. | 36.30 |
| 60-80 | 1519.79 | N.A. | 19.70 |
| 70-80 | 691.04 | N.A. | 9.00 |
| 80-90 | 503.11 | N.A. | 6.50 |
| 90-110 | 598.47 | N.A. | 7.80 |
| 90-120 | 787.05 | N.A. | 10.20 |
| 90-130 | 916.09 | N.A. | 11.90 |
| 90-150 | 1023.52 | N.A. | 13.30 |
| 90-180 | 1031.43 | N.A. | 13.40 |
| 110-180 | 432.96 | N.A. | 5.60 |
| 0-180 | 7715.48 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|---------|
| 0-10 | 201.00 |
| 10-20 | 582.37 |
| 20-30 | 877.45 |
| 30-40 | 1027.59 |
| 40-50 | 1029.06 |
| 50-60 | 943.67 |
| 60-70 | 828.74 |
| 70-80 | 691.04 |
| 80-90 | 503.11 |
| 90-100 | 342.53 |
| 100-110 | 255.93 |
| 110-120 | 188.58 |
| 120-130 | 129.04 |
| 130-140 | 74.23 |
| 140-150 | 33.20 |
| 150-160 | 7.16 |
| 160-170 | 0.56 |
| 170-180 | 0.19 |

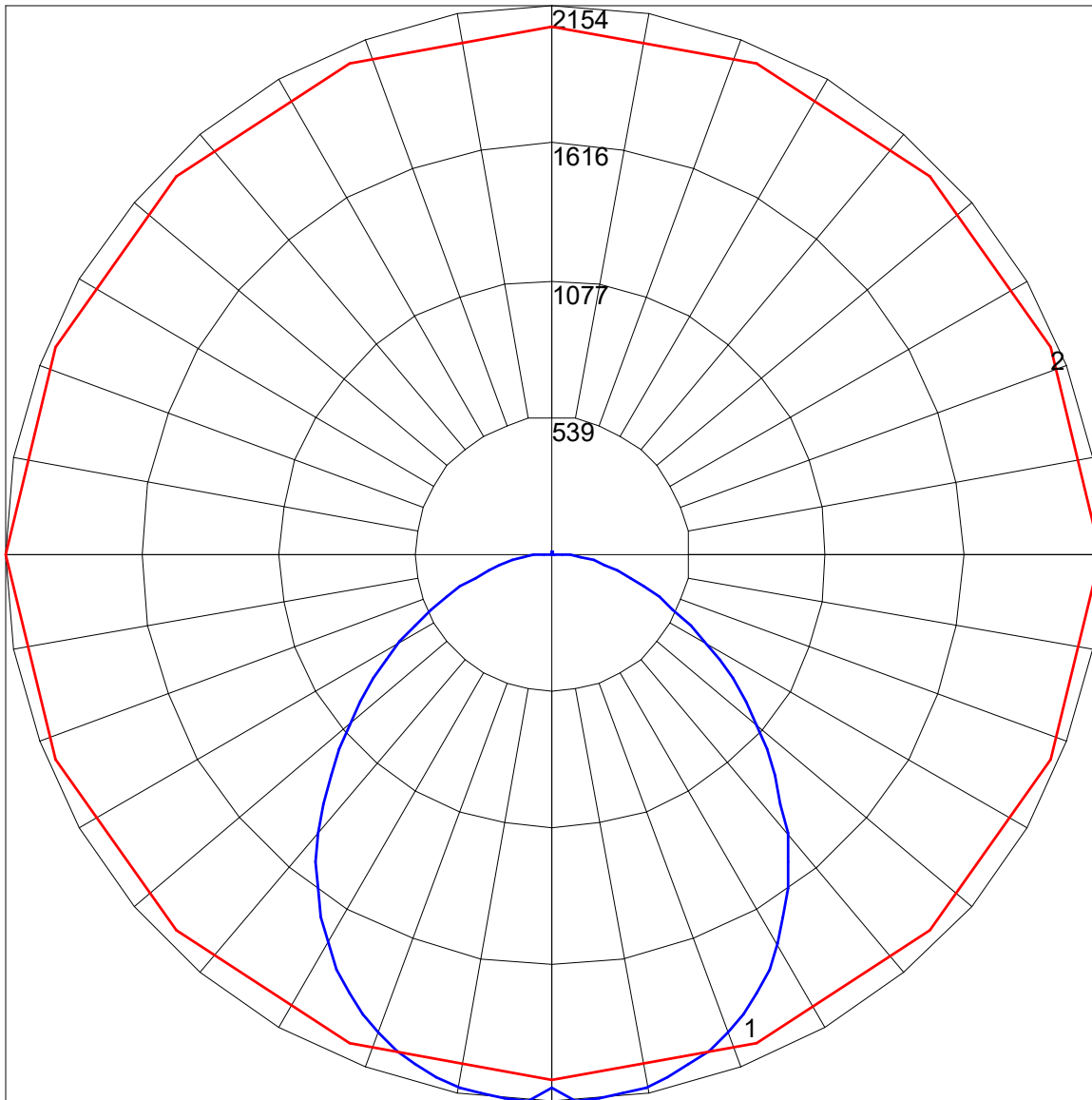
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 | 116 | 116 | 116 | 116 | 112 | 112 | 112 | 112 | 104 | 104 | 104 | 96 | 96 | 96 | 90 | 90 | 90 | 87 |
| 1 | 103 | 98 | 93 | 88 | 99 | 94 | 89 | 85 | 87 | 84 | 80 | 81 | 78 | 75 | 75 | 73 | 71 | 68 |
| 2 | 93 | 84 | 77 | 70 | 89 | 81 | 74 | 68 | 75 | 70 | 65 | 70 | 65 | 61 | 65 | 61 | 58 | 55 |
| 3 | 85 | 74 | 65 | 58 | 81 | 71 | 63 | 56 | 66 | 59 | 54 | 61 | 56 | 51 | 57 | 53 | 49 | 46 |
| 4 | 77 | 65 | 56 | 49 | 74 | 63 | 54 | 48 | 58 | 51 | 45 | 54 | 48 | 43 | 51 | 46 | 41 | 39 |
| 5 | 71 | 58 | 49 | 42 | 68 | 56 | 47 | 41 | 52 | 45 | 39 | 49 | 43 | 38 | 46 | 40 | 36 | 33 |
| 6 | 66 | 52 | 43 | 36 | 63 | 50 | 42 | 36 | 47 | 40 | 34 | 44 | 38 | 33 | 41 | 36 | 32 | 29 |
| 7 | 61 | 47 | 38 | 32 | 58 | 46 | 37 | 31 | 43 | 36 | 30 | 40 | 34 | 29 | 38 | 32 | 28 | 26 |
| 8 | 57 | 43 | 34 | 28 | 54 | 42 | 34 | 28 | 39 | 32 | 27 | 37 | 31 | 26 | 35 | 29 | 25 | 23 |
| 9 | 53 | 39 | 31 | 26 | 51 | 38 | 30 | 25 | 36 | 29 | 24 | 34 | 28 | 23 | 32 | 27 | 23 | 21 |
| 10 | 50 | 36 | 28 | 23 | 48 | 35 | 28 | 23 | 33 | 27 | 22 | 32 | 26 | 21 | 30 | 25 | 21 | 19 |

POLAR GRAPH



Maximum Candela = 2154 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.)