



IES INDOOR REPORT

PHOTOMETRIC FILENAME : OPT24-LED-FS1-30W-3500K.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LED-11309

[TESTLAB] LSI INDUSTRIES, INC.

[ISSUE DATE] 12/04/19

[TEST DATE] 09/30/19

[MANUFAC] LSI INDUSTRIES, INC.

[LUMCAT] OPT24-LED-FS1-30W-3500K

[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.

[OTHER] TEST PROCEDURE: IESNA LM-79-08

[SEARCH_SOURCETYPE] LED

[SEARCH_APPLICATION] Indoor

CHARACTERISTICS

| | |
|---------------------------------|-----------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 3824 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 127 |
| Total Luminaire Watts | 30 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.34 |
| Spacing Criterion (90-270) | 1.36 |
| Spacing Criterion (Diagonal) | 1.46 |
| Basic Luminous Shape | Rectangular |
| Luminous Length (0-180) | 4.00 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 | 1523 | 1582 | 1652 |
| 55 | 1469 | 1603 | 1786 |
| 65 | 1390 | 1714 | 2023 |
| 75 | 1314 | 1937 | 2301 |
| 85 | 1249 | 2283 | 2236 |

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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 | 1129 | 1129 | 1129 | 1129 | 1129 |
| 2.5 | 1158 | 1139 | 1129 | 1121 | 1113 |
| 5.0 | 1157 | 1139 | 1130 | 1121 | 1113 |
| 7.5 | 1155 | 1137 | 1128 | 1120 | 1113 |
| 10.0 | 1150 | 1132 | 1123 | 1117 | 1109 |
| 12.5 | 1142 | 1125 | 1117 | 1112 | 1105 |
| 15.0 | 1131 | 1115 | 1109 | 1106 | 1100 |
| 17.5 | 1118 | 1103 | 1098 | 1096 | 1092 |
| 20.0 | 1103 | 1089 | 1086 | 1085 | 1081 |
| 22.5 | 1085 | 1073 | 1071 | 1072 | 1069 |
| 25.0 | 1064 | 1054 | 1054 | 1057 | 1055 |
| 27.5 | 1040 | 1032 | 1033 | 1040 | 1038 |
| 30.0 | 1014 | 1007 | 1011 | 1020 | 1019 |
| 32.5 | 984 | 979 | 987 | 998 | 998 |
| 35.0 | 953 | 949 | 960 | 975 | 975 |
| 37.5 | 917 | 915 | 930 | 950 | 950 |
| 40.0 | 881 | 880 | 900 | 922 | 925 |
| 42.5 | 840 | 843 | 866 | 893 | 898 |
| 45.0 | 801 | 805 | 832 | 864 | 869 |
| 47.5 | 759 | 766 | 796 | 833 | 842 |
| 50.0 | 716 | 725 | 760 | 802 | 816 |
| 52.5 | 672 | 683 | 722 | 772 | 788 |
| 55.0 | 627 | 640 | 684 | 741 | 762 |
| 57.5 | 581 | 597 | 647 | 711 | 735 |
| 60.0 | 533 | 549 | 611 | 682 | 707 |
| 62.5 | 484 | 505 | 575 | 650 | 674 |
| 65.0 | 437 | 461 | 539 | 612 | 636 |
| 67.5 | 391 | 418 | 503 | 573 | 592 |
| 70.0 | 344 | 375 | 464 | 527 | 546 |
| 72.5 | 298 | 334 | 422 | 478 | 495 |
| 75.0 | 253 | 294 | 373 | 426 | 443 |
| 77.5 | 206 | 252 | 324 | 373 | 387 |
| 80.0 | 164 | 210 | 273 | 311 | 320 |
| 82.5 | 120 | 166 | 215 | 236 | 240 |
| 85.0 | 81 | 120 | 148 | 150 | 145 |
| 87.5 | 43 | 70 | 70 | 59 | 55 |
| 90.0 | 0 | 0 | 0 | 0 | 0 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 421.76 | N.A. | 11.00 |
| 0-30 | 908.63 | N.A. | 23.80 |
| 0-40 | 1510.38 | N.A. | 39.50 |
| 0-60 | 2771.81 | N.A. | 72.50 |
| 0-80 | 3681.86 | N.A. | 96.30 |
| 0-90 | 3824.31 | N.A. | 100.00 |
| 10-90 | 3716.51 | N.A. | 97.20 |
| 20-40 | 1088.61 | N.A. | 28.50 |
| 20-50 | 1732.44 | N.A. | 45.30 |
| 40-70 | 1792.67 | N.A. | 46.90 |
| 60-80 | 910.05 | N.A. | 23.80 |
| 70-80 | 378.81 | N.A. | 9.90 |
| 80-90 | 142.45 | N.A. | 3.70 |
| 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 | 3824.31 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 107.80 |
| 10-20 | 313.96 |
| 20-30 | 486.87 |
| 30-40 | 601.74 |
| 40-50 | 643.83 |
| 50-60 | 617.61 |
| 60-70 | 531.24 |
| 70-80 | 378.81 |
| 80-90 | 142.45 |
| 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 |

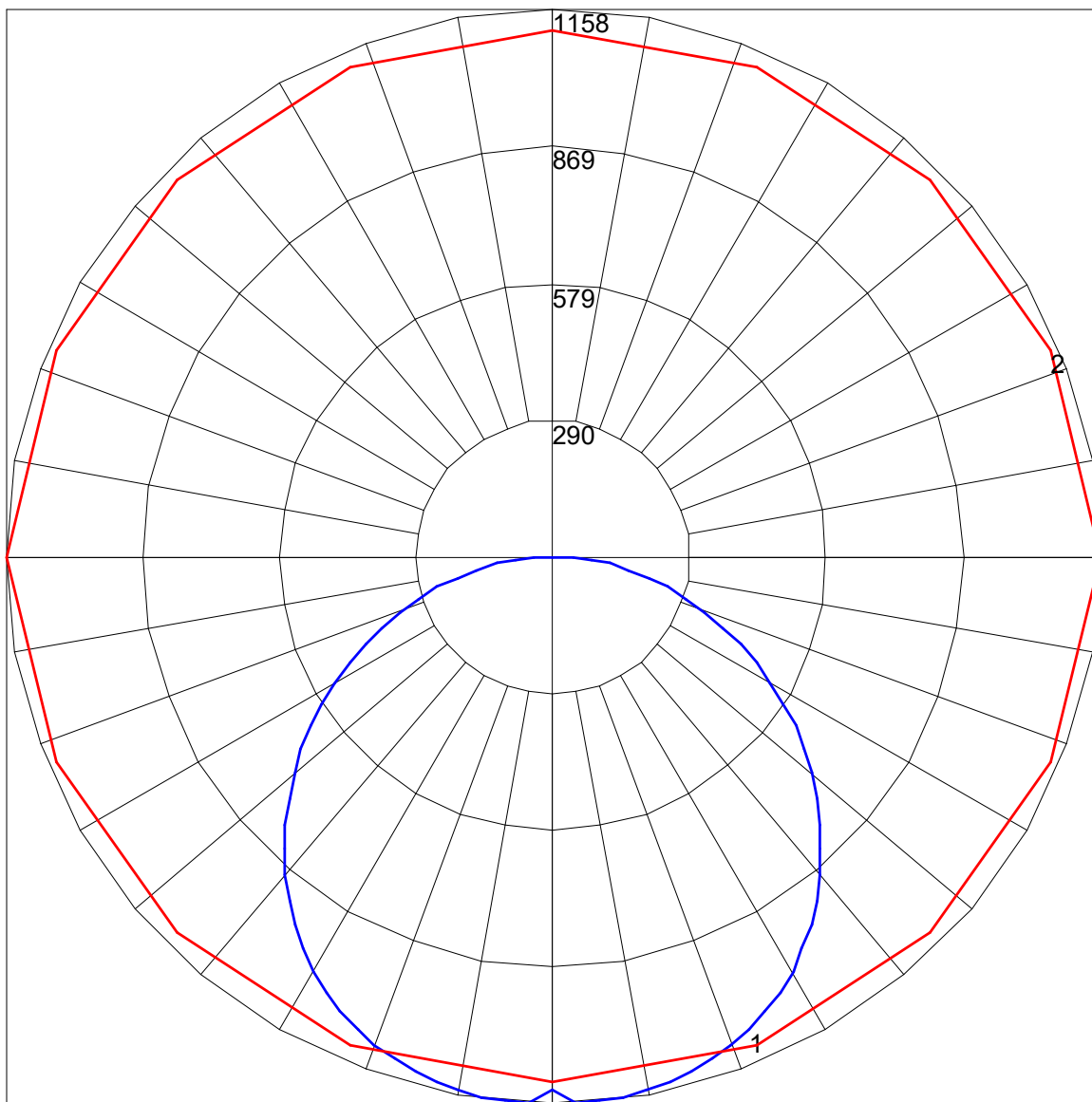
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 | 104 | 100 | 95 | 91 | 95 | 92 | 88 | 91 | 88 | 85 | 88 | 85 | 83 | 81 |
| 2 | 97 | 88 | 80 | 74 | 94 | 86 | 79 | 73 | 82 | 76 | 71 | 79 | 74 | 69 | 76 | 72 | 68 | 66 |
| 3 | 88 | 76 | 67 | 60 | 85 | 75 | 66 | 60 | 72 | 64 | 59 | 69 | 63 | 58 | 66 | 61 | 57 | 54 |
| 4 | 80 | 67 | 58 | 51 | 78 | 66 | 57 | 50 | 63 | 55 | 49 | 61 | 54 | 49 | 59 | 53 | 48 | 46 |
| 5 | 73 | 60 | 50 | 43 | 71 | 58 | 50 | 43 | 56 | 48 | 42 | 54 | 47 | 42 | 52 | 46 | 41 | 39 |
| 6 | 68 | 54 | 44 | 37 | 66 | 53 | 44 | 37 | 51 | 43 | 37 | 49 | 42 | 36 | 47 | 41 | 36 | 34 |
| 7 | 63 | 48 | 39 | 33 | 61 | 48 | 39 | 33 | 46 | 38 | 32 | 44 | 37 | 32 | 43 | 37 | 32 | 30 |
| 8 | 58 | 44 | 35 | 29 | 56 | 43 | 35 | 29 | 42 | 34 | 29 | 41 | 34 | 29 | 39 | 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 | 50 | 37 | 29 | 24 | 36 | 28 | 23 | 35 | 28 | 23 | 34 | 28 | 23 | 21 |

POLAR GRAPH



Maximum Candela = 1158 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.)