



IES INDOOR REPORT

PHOTOMETRIC FILENAME : XRT44-LED-12L-50-80CRI.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LED-5456

[TESTLAB] LSI INDUSTRIES, INC.

[ISSUE DATE] 03/16/2020

[TEST DATE] 04/21/14

[MANUFAC] LSI INDUSTRIES, INC.

[LUMCAT] XRT44-LED-12L-50-80CRI

[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 | 12206 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 130 |
| Total Luminaire Watts | 94 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.24 |
| Spacing Criterion (90-270) | 1.22 |
| Spacing Criterion (Diagonal) | 1.34 |
| Basic Luminous Shape | Rectangular |
| Luminous Length (0-180) | 4.00 ft |
| Luminous Width (90-270) | 4.00 ft |
| Luminous Height | 0.00 ft |

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 2683 | 2691 | 2680 |
| 55 | 2547 | 2539 | 2526 |
| 65 | 2349 | 2355 | 2349 |
| 75 | 2044 | 2033 | 1994 |
| 85 | 1234 | 1234 | 1211 |

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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 | 4502 | 4502 | 4502 | 4502 | 4502 |
| 2.5 | 4502 | 4505 | 4505 | 4505 | 4505 |
| 5.0 | 4490 | 4494 | 4494 | 4490 | 4490 |
| 7.5 | 4464 | 4468 | 4464 | 4464 | 4464 |
| 10.0 | 4423 | 4427 | 4427 | 4427 | 4427 |
| 12.5 | 4371 | 4379 | 4379 | 4371 | 4375 |
| 15.0 | 4308 | 4311 | 4311 | 4308 | 4311 |
| 17.5 | 4233 | 4233 | 4233 | 4229 | 4237 |
| 20.0 | 4147 | 4147 | 4147 | 4144 | 4140 |
| 22.5 | 4054 | 4050 | 4050 | 4047 | 4043 |
| 25.0 | 3946 | 3946 | 3942 | 3938 | 3938 |
| 27.5 | 3830 | 3823 | 3823 | 3823 | 3815 |
| 30.0 | 3707 | 3700 | 3696 | 3700 | 3692 |
| 32.5 | 3577 | 3569 | 3566 | 3566 | 3558 |
| 35.0 | 3428 | 3435 | 3424 | 3424 | 3420 |
| 37.5 | 3286 | 3290 | 3282 | 3282 | 3275 |
| 40.0 | 3129 | 3140 | 3133 | 3125 | 3125 |
| 42.5 | 2976 | 2991 | 2980 | 2969 | 2972 |
| 45.0 | 2823 | 2831 | 2831 | 2816 | 2820 |
| 47.5 | 2667 | 2667 | 2667 | 2655 | 2652 |
| 50.0 | 2506 | 2503 | 2503 | 2495 | 2491 |
| 52.5 | 2342 | 2342 | 2338 | 2331 | 2320 |
| 55.0 | 2174 | 2171 | 2167 | 2167 | 2156 |
| 57.5 | 2007 | 1999 | 1999 | 1995 | 1988 |
| 60.0 | 1831 | 1831 | 1828 | 1828 | 1820 |
| 62.5 | 1660 | 1660 | 1656 | 1652 | 1648 |
| 65.0 | 1477 | 1488 | 1481 | 1477 | 1477 |
| 67.5 | 1305 | 1317 | 1309 | 1298 | 1305 |
| 70.0 | 1130 | 1134 | 1130 | 1126 | 1130 |
| 72.5 | 959 | 966 | 955 | 951 | 951 |
| 75.0 | 787 | 779 | 783 | 779 | 768 |
| 77.5 | 615 | 604 | 608 | 608 | 600 |
| 80.0 | 455 | 448 | 448 | 444 | 440 |
| 82.5 | 295 | 298 | 295 | 287 | 287 |
| 85.0 | 160 | 168 | 160 | 153 | 157 |
| 87.5 | 63 | 63 | 60 | 52 | 56 |
| 90.0 | 0 | 0 | 0 | 0 | 0 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|----------|-------|--------|
| 0-20 | 1641.73 | N.A. | 13.50 |
| 0-30 | 3456.55 | N.A. | 28.30 |
| 0-40 | 5600.02 | N.A. | 45.90 |
| 0-60 | 9715.11 | N.A. | 79.60 |
| 0-80 | 12006.01 | N.A. | 98.40 |
| 0-90 | 12205.79 | N.A. | 100.00 |
| 10-90 | 11779.16 | N.A. | 96.50 |
| 20-40 | 3958.29 | N.A. | 32.40 |
| 20-50 | 6135.76 | N.A. | 50.30 |
| 40-70 | 5580.39 | N.A. | 45.70 |
| 60-80 | 2290.9 | N.A. | 18.80 |
| 70-80 | 825.59 | N.A. | 6.80 |
| 80-90 | 199.79 | N.A. | 1.60 |
| 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 | 12205.79 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|---------|
| 0-10 | 426.64 |
| 10-20 | 1215.09 |
| 20-30 | 1814.82 |
| 30-40 | 2143.47 |
| 40-50 | 2177.47 |
| 50-60 | 1937.62 |
| 60-70 | 1465.3 |
| 70-80 | 825.59 |
| 80-90 | 199.79 |
| 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 |

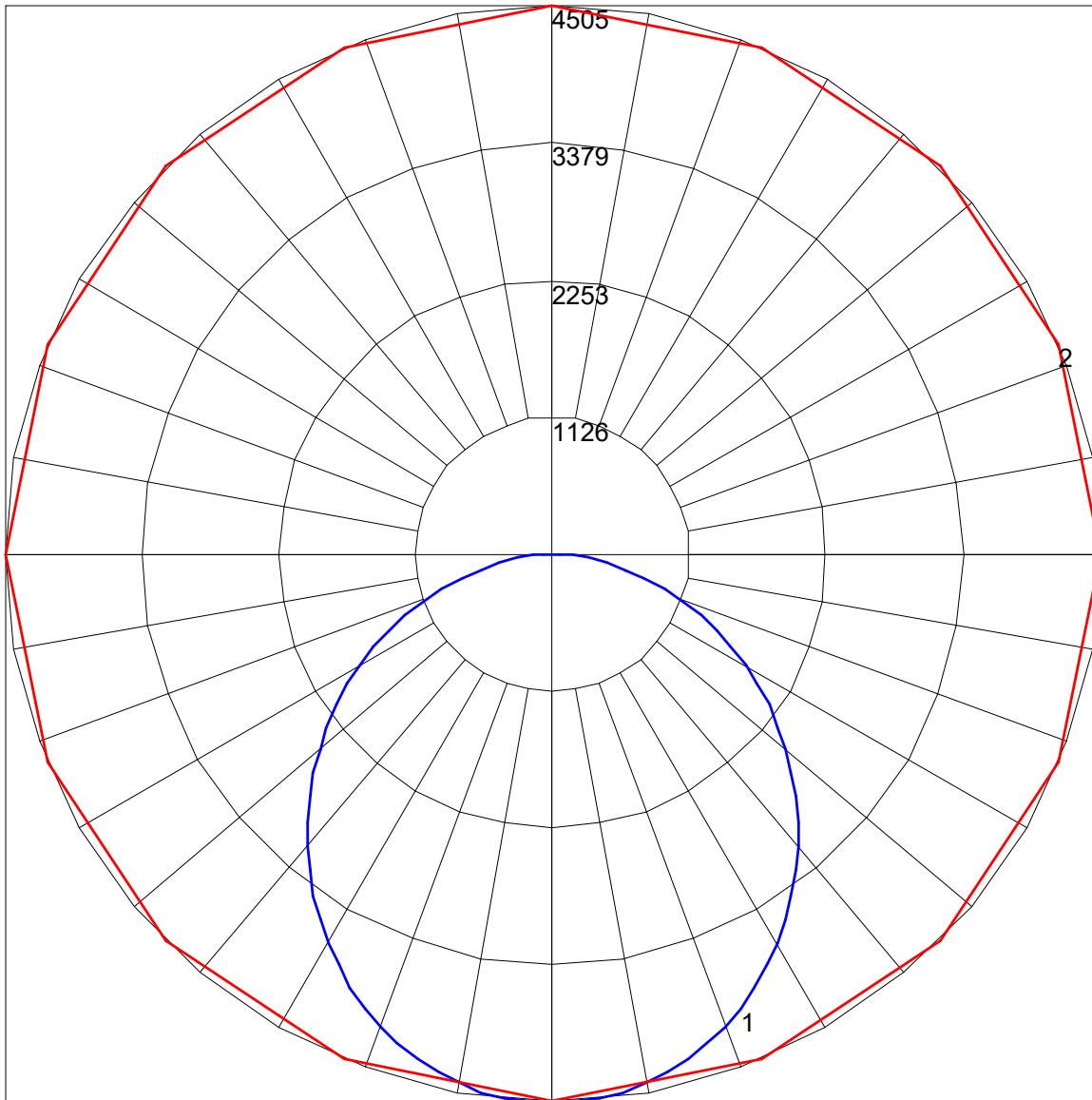
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 | 109 | 104 | 100 | 96 | 106 | 102 | 98 | 95 | 98 | 94 | 92 | 94 | 91 | 89 | 90 | 88 | 86 | 84 |
| 2 | 99 | 91 | 84 | 78 | 96 | 89 | 83 | 77 | 85 | 80 | 76 | 82 | 78 | 74 | 79 | 76 | 72 | 70 |
| 3 | 90 | 80 | 72 | 65 | 88 | 78 | 71 | 65 | 75 | 69 | 64 | 73 | 67 | 62 | 70 | 65 | 61 | 59 |
| 4 | 83 | 71 | 62 | 55 | 80 | 70 | 61 | 55 | 67 | 60 | 54 | 65 | 59 | 54 | 62 | 57 | 53 | 51 |
| 5 | 76 | 63 | 54 | 48 | 74 | 62 | 54 | 48 | 60 | 53 | 47 | 58 | 52 | 46 | 56 | 51 | 46 | 44 |
| 6 | 70 | 57 | 48 | 42 | 68 | 56 | 48 | 42 | 54 | 47 | 41 | 53 | 46 | 41 | 51 | 45 | 40 | 38 |
| 7 | 65 | 52 | 43 | 37 | 64 | 51 | 43 | 37 | 49 | 42 | 37 | 48 | 41 | 36 | 47 | 41 | 36 | 34 |
| 8 | 61 | 47 | 39 | 33 | 59 | 47 | 39 | 33 | 45 | 38 | 33 | 44 | 37 | 32 | 43 | 37 | 32 | 30 |
| 9 | 57 | 43 | 35 | 30 | 55 | 43 | 35 | 30 | 42 | 35 | 29 | 41 | 34 | 29 | 40 | 34 | 29 | 27 |
| 10 | 53 | 40 | 32 | 27 | 52 | 40 | 32 | 27 | 39 | 32 | 27 | 38 | 31 | 27 | 37 | 31 | 27 | 25 |

POLAR GRAPH



Maximum Candela = 4505 Located At Horizontal Angle = 22.5, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (22.5 - 202.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)