



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : LXC2-48-LED-CW-24.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]LED-5198C  
[TESTLAB]LSI INDUSTRIES  
[ISSUE DATE]05/14/14  
[TEST DATE]02/25/14  
[MANUFACTURER]LSI INDUSTRIES  
[LUMEN CATEGORY]LXC2-48-LED-CW-24  
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.  
[OTHER]TEST PROCEDURE: IESNA LM-79-08  
[ABSOLUTE LUMENS]3823

**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) | 134             |
| Total Luminaire Watts           | 28.6            |
| Ballast Factor                  | 1.00            |
| CIE Type                        | Direct          |
| Spacing Criterion (0-180)       | 1.36            |
| Spacing Criterion (90-270)      | 1.28            |
| Spacing Criterion (Diagonal)    | 1.44            |
| Basic Luminous Shape            | Rectangular     |
| Luminous Length (0-180)         | 4.00 ft         |
| Luminous Width (90-270)         | 0.13 ft         |
| Luminous Height                 | 0.00 ft         |

**LUMINANCE DATA (cd/sq.m)**

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|------------------|---------------|----------------|----------------|
| 45               | 29159         | 27832          | 27212          |
| 55               | 28092         | 27165          | 26729          |
| 65               | 25097         | 25393          | 25541          |
| 75               | 18012         | 21034          | 18133          |
| 85               | 8257          | 2513           | 1795           |

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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> |
|-------------|------------|-------------|-------------|-------------|-------------|
| <b>0.0</b>  | 1281.608   | 1281.608    | 1281.608    | 1281.608    | 1281.608    |
| <b>2.5</b>  | 1322.340   | 1299.065    | 1277.244    | 1264.152    | 1252.514    |
| <b>5.0</b>  | 1320.886   | 1297.610    | 1277.244    | 1262.697    | 1251.059    |
| <b>7.5</b>  | 1317.976   | 1293.246    | 1272.880    | 1258.333    | 1248.150    |
| <b>10.0</b> | 1310.703   | 1287.427    | 1267.061    | 1253.969    | 1243.786    |
| <b>12.5</b> | 1301.974   | 1278.699    | 1256.878    | 1245.240    | 1235.057    |
| <b>15.0</b> | 1291.791   | 1268.516    | 1246.695    | 1233.603    | 1224.874    |
| <b>17.5</b> | 1278.699   | 1253.969    | 1233.603    | 1219.055    | 1210.327    |
| <b>20.0</b> | 1262.697   | 1239.421    | 1219.055    | 1201.599    | 1195.780    |
| <b>22.5</b> | 1245.240   | 1221.965    | 1201.599    | 1182.687    | 1173.959    |
| <b>25.0</b> | 1224.874   | 1201.599    | 1179.778    | 1160.867    | 1150.684    |
| <b>27.5</b> | 1200.144   | 1178.323    | 1156.502    | 1136.136    | 1125.953    |
| <b>30.0</b> | 1173.959   | 1153.593    | 1130.317    | 1111.406    | 1099.768    |
| <b>32.5</b> | 1143.410   | 1124.499    | 1101.223    | 1080.857    | 1070.674    |
| <b>35.0</b> | 1109.951   | 1093.949    | 1070.674    | 1050.308    | 1040.125    |
| <b>37.5</b> | 1076.493   | 1060.491    | 1035.761    | 1015.395    | 1006.666    |
| <b>40.0</b> | 1041.580   | 1022.668    | 997.938     | 979.027     | 971.753     |
| <b>42.5</b> | 1002.302   | 983.391     | 957.206     | 939.749     | 933.930     |
| <b>45.0</b> | 958.660    | 939.749     | 915.019     | 900.472     | 894.653     |
| <b>47.5</b> | 915.019    | 894.653     | 871.377     | 858.285     | 852.466     |
| <b>50.0</b> | 865.558    | 846.647     | 824.826     | 814.643     | 805.915     |
| <b>52.5</b> | 807.370    | 794.277     | 775.366     | 768.092     | 759.364     |
| <b>55.0</b> | 749.181    | 740.452     | 724.451     | 720.086     | 712.813     |
| <b>57.5</b> | 688.083    | 680.809     | 672.081     | 669.171     | 663.352     |
| <b>60.0</b> | 622.620    | 619.711     | 618.256     | 615.347     | 610.982     |
| <b>62.5</b> | 558.612    | 552.794     | 558.612     | 558.612     | 558.612     |
| <b>65.0</b> | 493.150    | 488.786     | 498.969     | 503.333     | 501.878     |
| <b>67.5</b> | 426.233    | 423.324     | 437.871     | 445.144     | 440.780     |
| <b>70.0</b> | 357.861    | 360.771     | 375.318     | 385.501     | 379.682     |
| <b>72.5</b> | 282.216    | 296.763     | 312.765     | 325.857     | 312.765     |
| <b>75.0</b> | 216.753    | 234.210     | 253.121     | 238.574     | 218.208     |
| <b>77.5</b> | 161.474    | 178.931     | 190.568     | 145.472     | 109.104     |
| <b>80.0</b> | 112.013    | 126.561     | 119.287     | 61.098      | 50.915      |
| <b>82.5</b> | 65.462     | 82.919      | 43.642      | 14.547      | 11.638      |
| <b>85.0</b> | 33.459     | 43.642      | 10.183      | 7.274       | 7.274       |
| <b>87.5</b> | 11.638     | 10.183      | 7.274       | 5.819       | 5.819       |
| <b>90.0</b> | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       |

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**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  | %Lamp | %Fixt  |
|---------|---------|-------|--------|
| 0-20    | 475.48  | N.A.  | 12.40  |
| 0-30    | 1020.75 | N.A.  | 26.70  |
| 0-40    | 1691.56 | N.A.  | 44.20  |
| 0-60    | 3051.75 | N.A.  | 79.80  |
| 0-80    | 3790.54 | N.A.  | 99.10  |
| 0-90    | 3823.65 | N.A.  | 100.00 |
| 10-90   | 3701.7  | N.A.  | 96.80  |
| 20-40   | 1216.08 | N.A.  | 31.80  |
| 20-50   | 1925.92 | N.A.  | 50.40  |
| 40-70   | 1851.07 | N.A.  | 48.40  |
| 60-80   | 738.78  | N.A.  | 19.30  |
| 70-80   | 247.91  | N.A.  | 6.50   |
| 80-90   | 33.11   | N.A.  | 0.90   |
| 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   | 3823.65 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens |
|---------|--------|
| 0-10    | 121.94 |
| 10-20   | 353.54 |
| 20-30   | 545.27 |
| 30-40   | 670.81 |
| 40-50   | 709.84 |
| 50-60   | 650.35 |
| 60-70   | 490.87 |
| 70-80   | 247.91 |
| 80-90   | 33.11  |
| 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   |

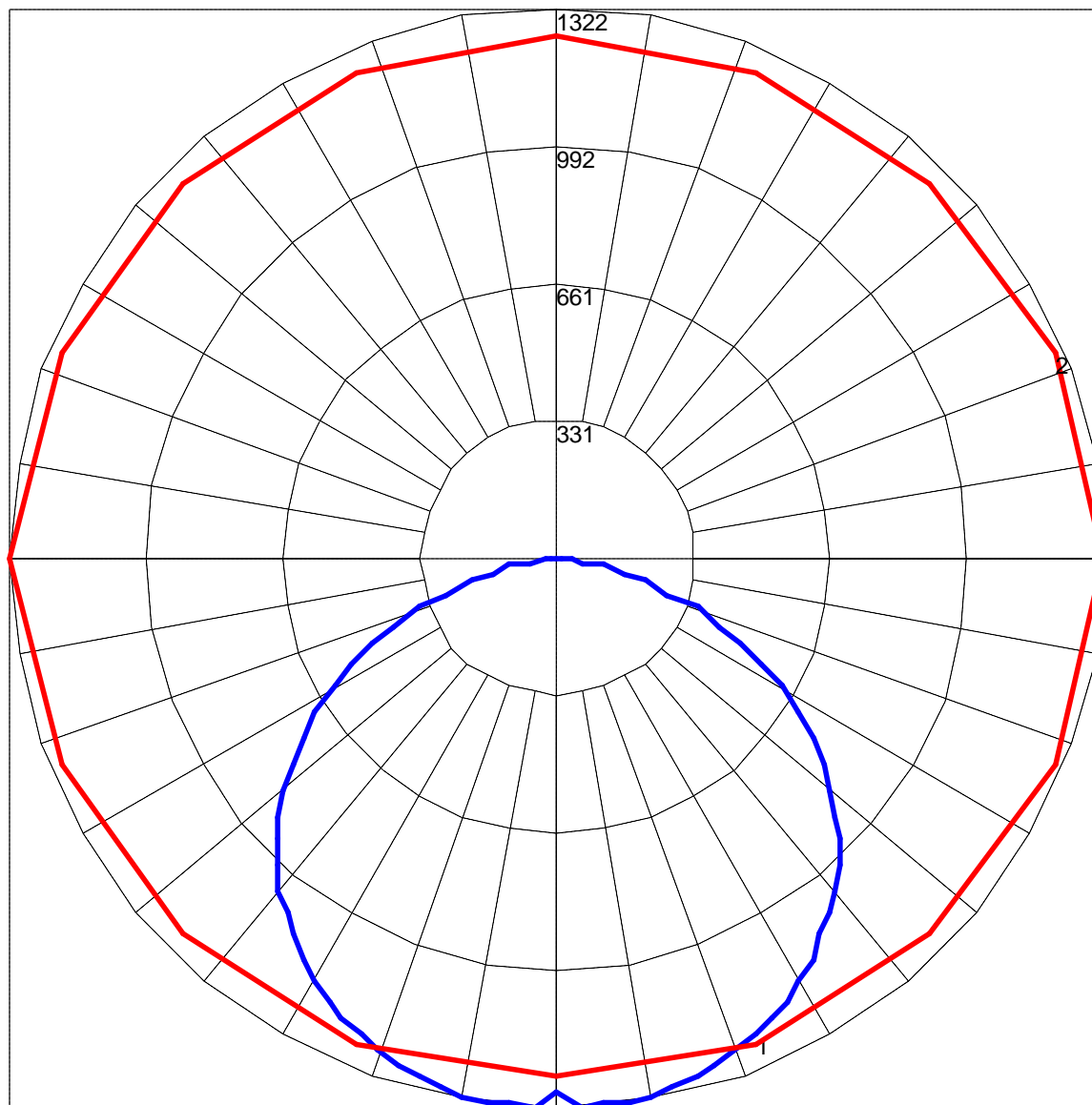
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 | 97  | 106 | 102 | 98  | 95  | 98  | 95  | 92  | 94  | 91  | 89  | 90  | 88  | 86  | 84  |
| 2  | 99  | 91  | 84  | 78  | 96  | 89  | 83  | 78  | 85  | 80  | 76  | 82  | 78  | 74  | 79  | 76  | 72  | 70  |
| 3  | 90  | 80  | 72  | 65  | 88  | 78  | 71  | 64  | 75  | 69  | 63  | 72  | 67  | 62  | 70  | 65  | 61  | 59  |
| 4  | 82  | 70  | 62  | 55  | 80  | 69  | 61  | 55  | 67  | 59  | 54  | 64  | 58  | 53  | 62  | 57  | 52  | 50  |
| 5  | 76  | 63  | 54  | 47  | 74  | 62  | 53  | 47  | 60  | 52  | 46  | 58  | 51  | 46  | 56  | 50  | 45  | 43  |
| 6  | 70  | 56  | 47  | 41  | 68  | 55  | 47  | 41  | 54  | 46  | 40  | 52  | 45  | 40  | 50  | 44  | 40  | 38  |
| 7  | 65  | 51  | 42  | 36  | 63  | 50  | 42  | 36  | 49  | 41  | 36  | 47  | 40  | 35  | 46  | 40  | 35  | 33  |
| 8  | 60  | 47  | 38  | 32  | 59  | 46  | 38  | 32  | 45  | 37  | 32  | 43  | 37  | 32  | 42  | 36  | 31  | 29  |
| 9  | 56  | 43  | 34  | 29  | 55  | 42  | 34  | 29  | 41  | 34  | 29  | 40  | 33  | 28  | 39  | 33  | 28  | 26  |
| 10 | 53  | 39  | 31  | 26  | 51  | 39  | 31  | 26  | 38  | 31  | 26  | 37  | 30  | 26  | 36  | 30  | 26  | 24  |

POLAR GRAPH



Maximum Candela = 1322.34 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.)