



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : XRT44-LED-14L-35-80CRI.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LED-5456

[TESTLAB] LSI INDUSTRIES, INC.

[ISSUEDATE] 03/16/2020

[TESTDATE] 04/21/14

[MANUFAC] LSI INDUSTRIES, INC.

[LUMCAT] XRT44-LED-14L-35-80CRI

[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                | 12504           |
| Total Luminaire Efficiency      | N.A.            |
| Luminaire Efficacy Rating (LER) | 118             |
| Total Luminaire Watts           | 106             |
| 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<br>Degrees | Average<br>0-Deg | Average<br>45-Deg | Average<br>90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45                  | 2749             | 2756              | 2745              |
| 55                  | 2610             | 2601              | 2587              |
| 65                  | 2406             | 2413              | 2406              |
| 75                  | 2093             | 2083              | 2044              |
| 85                  | 1265             | 1265              | 1234              |

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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  | 4612       | 4612        | 4612        | 4612        | 4612        |
| 2.5  | 4612       | 4615        | 4615        | 4615        | 4615        |
| 5.0  | 4600       | 4604        | 4604        | 4600        | 4600        |
| 7.5  | 4573       | 4577        | 4573        | 4573        | 4573        |
| 10.0 | 4531       | 4535        | 4535        | 4535        | 4535        |
| 12.5 | 4478       | 4485        | 4485        | 4478        | 4482        |
| 15.0 | 4413       | 4417        | 4417        | 4413        | 4417        |
| 17.5 | 4336       | 4336        | 4336        | 4333        | 4340        |
| 20.0 | 4249       | 4249        | 4249        | 4245        | 4241        |
| 22.5 | 4153       | 4149        | 4149        | 4145        | 4142        |
| 25.0 | 4042       | 4042        | 4038        | 4035        | 4035        |
| 27.5 | 3924       | 3916        | 3916        | 3916        | 3909        |
| 30.0 | 3798       | 3790        | 3786        | 3790        | 3782        |
| 32.5 | 3664       | 3656        | 3653        | 3653        | 3645        |
| 35.0 | 3511       | 3519        | 3507        | 3507        | 3504        |
| 37.5 | 3366       | 3370        | 3362        | 3362        | 3355        |
| 40.0 | 3206       | 3217        | 3209        | 3202        | 3202        |
| 42.5 | 3049       | 3064        | 3053        | 3041        | 3045        |
| 45.0 | 2892       | 2900        | 2900        | 2885        | 2888        |
| 47.5 | 2732       | 2732        | 2732        | 2720        | 2716        |
| 50.0 | 2567       | 2564        | 2564        | 2556        | 2552        |
| 52.5 | 2399       | 2399        | 2396        | 2388        | 2376        |
| 55.0 | 2227       | 2224        | 2220        | 2220        | 2208        |
| 57.5 | 2056       | 2048        | 2048        | 2044        | 2036        |
| 60.0 | 1876       | 1876        | 1872        | 1872        | 1864        |
| 62.5 | 1700       | 1700        | 1696        | 1693        | 1689        |
| 65.0 | 1513       | 1524        | 1517        | 1513        | 1513        |
| 67.5 | 1337       | 1349        | 1341        | 1330        | 1337        |
| 70.0 | 1158       | 1161        | 1158        | 1154        | 1158        |
| 72.5 | 982        | 990         | 978         | 974         | 974         |
| 75.0 | 806        | 799         | 802         | 799         | 787         |
| 77.5 | 630        | 619         | 623         | 623         | 615         |
| 80.0 | 466        | 458         | 458         | 455         | 451         |
| 82.5 | 302        | 306         | 302         | 294         | 294         |
| 85.0 | 164        | 172         | 164         | 157         | 160         |
| 87.5 | 65         | 65          | 61          | 53          | 57          |
| 90.0 | 0          | 0           | 0           | 0           | 0           |

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**ZONAL LUMEN SUMMARY**

| Zone    | Lumens   | %Lamp | %Fixt  |
|---------|----------|-------|--------|
| 0-20    | 1681.84  | N.A.  | 13.50  |
| 0-30    | 3540.97  | N.A.  | 28.30  |
| 0-40    | 5736.7   | N.A.  | 45.90  |
| 0-60    | 9952.24  | N.A.  | 79.60  |
| 0-80    | 12299.15 | N.A.  | 98.40  |
| 0-90    | 12503.76 | N.A.  | 100.00 |
| 10-90   | 12066.7  | N.A.  | 96.50  |
| 20-40   | 4054.86  | N.A.  | 32.40  |
| 20-50   | 6285.48  | N.A.  | 50.30  |
| 40-70   | 5716.59  | N.A.  | 45.70  |
| 60-80   | 2346.9   | N.A.  | 18.80  |
| 70-80   | 845.86   | N.A.  | 6.80   |
| 80-90   | 204.62   | 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   | 12503.76 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  |
|---------|---------|
| 0-10    | 437.06  |
| 10-20   | 1244.78 |
| 20-30   | 1859.13 |
| 30-40   | 2195.73 |
| 40-50   | 2230.62 |
| 50-60   | 1984.93 |
| 60-70   | 1501.04 |
| 70-80   | 845.86  |
| 80-90   | 204.62  |
| 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    |

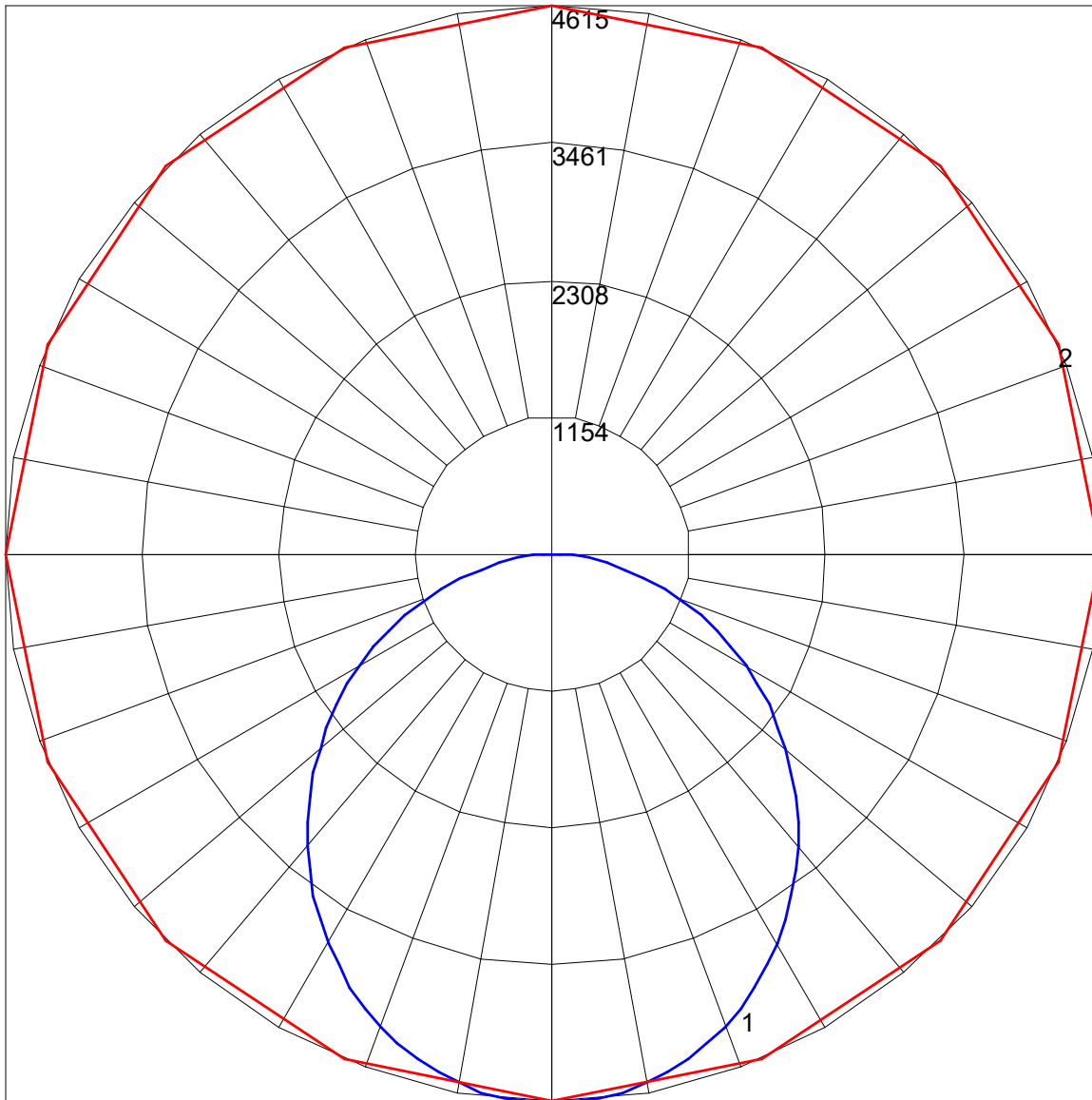
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 4615 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.)