



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : CLRT24-FS1-UNV-30W-3500K.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] LED-13114  
[TESTLAB] LSI INDUSTRIES, INC.  
[ISSUE DATE] 2/24/2022  
[TEST DATE] 12/10/21  
[MANUFAC] LSI INDUSTRIES, INC.  
[LUMCAT] CLRT24-FS1-UNV-30W-3500K  
[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                | 3490            |
| Total Luminaire Efficiency      | N.A.            |
| Luminaire Efficacy Rating (LER) | 122             |
| Total Luminaire Watts           | 28.6            |
| Ballast Factor                  | 1.00            |
| CIE Type                        | Direct          |
| Spacing Criterion (0-180)       | 1.48            |
| Spacing Criterion (90-270)      | 1.56            |
| Spacing Criterion (Diagonal)    | 1.70            |
| 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<br>Degrees | Average<br>0-Deg | Average<br>45-Deg | Average<br>90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45                  | 1340             | 1401              | 1483              |
| 55                  | 1486             | 1643              | 1837              |
| 65                  | 1689             | 1918              | 2281              |
| 75                  | 1688             | 2109              | 2467              |
| 85                  | 1712             | 1820              | 2221              |

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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>  | 765        | 765         | 765         | 765         | 765         |
| <b>2.5</b>  | 778        | 771         | 767         | 762         | 757         |
| <b>5.0</b>  | 780        | 774         | 769         | 765         | 761         |
| <b>7.5</b>  | 784        | 777         | 772         | 768         | 764         |
| <b>10.0</b> | 785        | 778         | 773         | 769         | 766         |
| <b>12.5</b> | 783        | 777         | 772         | 768         | 767         |
| <b>15.0</b> | 780        | 776         | 770         | 767         | 767         |
| <b>17.5</b> | 775        | 774         | 767         | 767         | 768         |
| <b>20.0</b> | 772        | 772         | 767         | 768         | 768         |
| <b>22.5</b> | 769        | 769         | 766         | 769         | 766         |
| <b>25.0</b> | 767        | 765         | 766         | 770         | 763         |
| <b>27.5</b> | 764        | 758         | 763         | 768         | 762         |
| <b>30.0</b> | 758        | 751         | 758         | 767         | 764         |
| <b>32.5</b> | 749        | 745         | 754         | 767         | 767         |
| <b>35.0</b> | 738        | 740         | 751         | 767         | 769         |
| <b>37.5</b> | 729        | 736         | 749         | 766         | 770         |
| <b>40.0</b> | 721        | 730         | 746         | 766         | 772         |
| <b>42.5</b> | 714        | 722         | 742         | 767         | 777         |
| <b>45.0</b> | 705        | 712         | 737         | 769         | 780         |
| <b>47.5</b> | 694        | 701         | 731         | 770         | 781         |
| <b>50.0</b> | 676        | 691         | 724         | 767         | 780         |
| <b>52.5</b> | 656        | 677         | 714         | 759         | 781         |
| <b>55.0</b> | 634        | 661         | 701         | 751         | 784         |
| <b>57.5</b> | 611        | 638         | 682         | 743         | 782         |
| <b>60.0</b> | 589        | 610         | 660         | 731         | 769         |
| <b>62.5</b> | 563        | 580         | 634         | 711         | 747         |
| <b>65.0</b> | 531        | 551         | 603         | 677         | 717         |
| <b>67.5</b> | 490        | 515         | 568         | 634         | 677         |
| <b>70.0</b> | 441        | 476         | 521         | 582         | 626         |
| <b>72.5</b> | 383        | 429         | 467         | 520         | 559         |
| <b>75.0</b> | 325        | 377         | 406         | 447         | 475         |
| <b>77.5</b> | 267        | 319         | 333         | 363         | 381         |
| <b>80.0</b> | 212        | 260         | 255         | 282         | 290         |
| <b>82.5</b> | 160        | 197         | 180         | 209         | 212         |
| <b>85.0</b> | 111        | 127         | 118         | 142         | 144         |
| <b>87.5</b> | 60         | 61          | 60          | 72          | 73          |
| <b>90.0</b> | 0          | 0           | 0           | 0           | 0           |

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**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  | %Lamp | %Fixt  |
|---------|---------|-------|--------|
| 0-20    | 292.24  | N.A.  | 8.40   |
| 0-30    | 646.39  | N.A.  | 18.50  |
| 0-40    | 1119.3  | N.A.  | 32.10  |
| 0-60    | 2321.56 | N.A.  | 66.50  |
| 0-80    | 3348.94 | N.A.  | 96.00  |
| 0-90    | 3489.75 | N.A.  | 100.00 |
| 10-90   | 3416.14 | N.A.  | 97.90  |
| 20-40   | 827.06  | N.A.  | 23.70  |
| 20-50   | 1399.26 | N.A.  | 40.10  |
| 40-70   | 1805.11 | N.A.  | 51.70  |
| 60-80   | 1027.38 | N.A.  | 29.40  |
| 70-80   | 424.52  | N.A.  | 12.20  |
| 80-90   | 140.82  | N.A.  | 4.00   |
| 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   | 3489.75 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens |
|---------|--------|
| 0-10    | 73.62  |
| 10-20   | 218.62 |
| 20-30   | 354.15 |
| 30-40   | 472.92 |
| 40-50   | 572.20 |
| 50-60   | 630.05 |
| 60-70   | 602.86 |
| 70-80   | 424.52 |
| 80-90   | 140.82 |
| 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   |

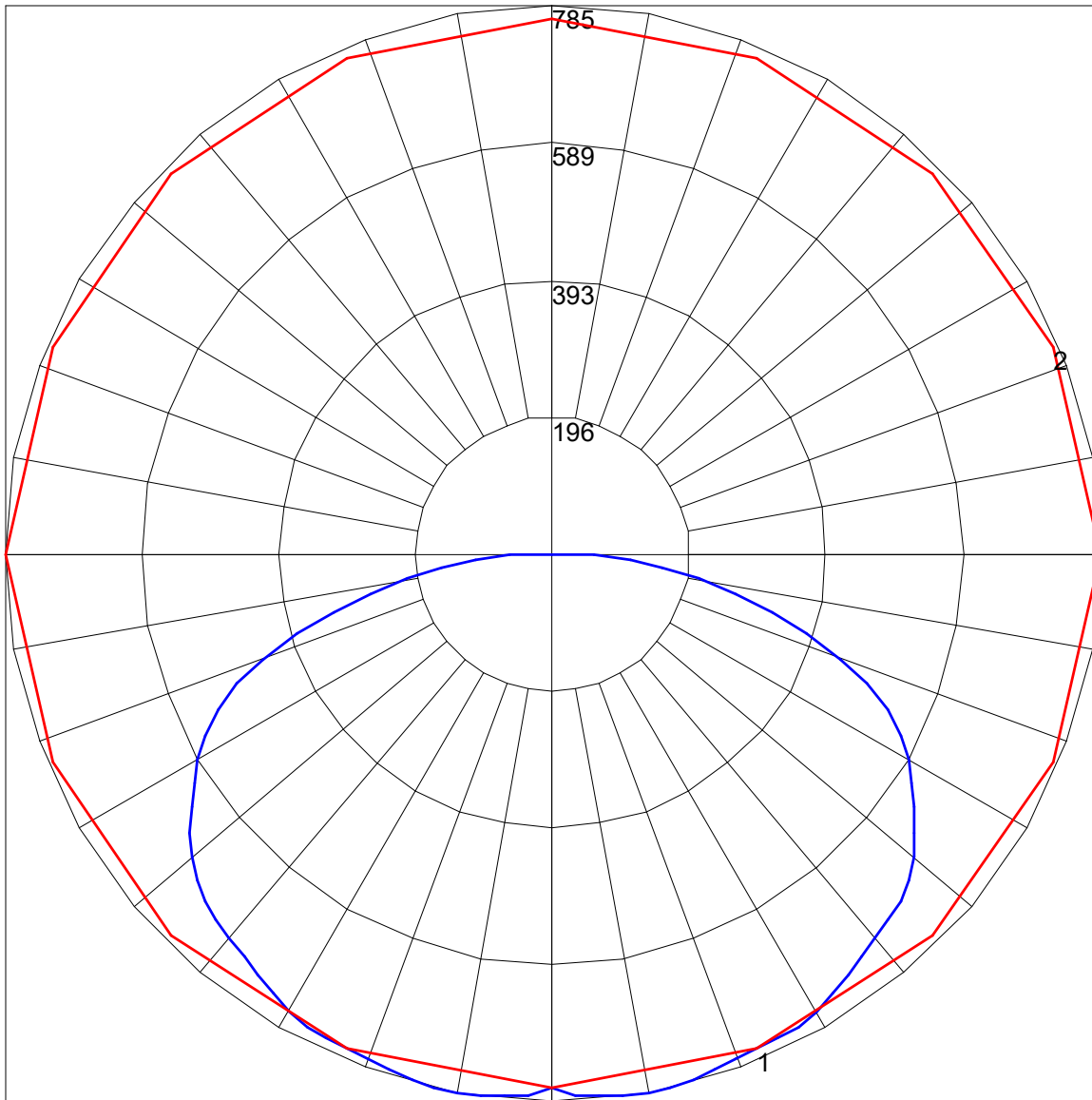
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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  | 106 | 100 | 95  | 90  | 103 | 98  | 93  | 89  | 94  | 90  | 86  | 90  | 86  | 83  | 86  | 83  | 81  | 79  |
| 2  | 95  | 85  | 77  | 70  | 92  | 83  | 76  | 69  | 79  | 73  | 68  | 76  | 71  | 66  | 73  | 68  | 64  | 62  |
| 3  | 85  | 73  | 64  | 56  | 83  | 71  | 63  | 56  | 68  | 61  | 54  | 65  | 59  | 53  | 63  | 57  | 52  | 50  |
| 4  | 77  | 64  | 54  | 46  | 75  | 62  | 53  | 46  | 60  | 51  | 45  | 57  | 50  | 44  | 55  | 49  | 44  | 41  |
| 5  | 70  | 56  | 46  | 38  | 68  | 55  | 45  | 38  | 53  | 44  | 38  | 50  | 43  | 37  | 49  | 42  | 37  | 34  |
| 6  | 65  | 50  | 40  | 33  | 63  | 49  | 39  | 33  | 47  | 39  | 32  | 45  | 38  | 32  | 43  | 37  | 32  | 29  |
| 7  | 60  | 45  | 35  | 28  | 58  | 44  | 35  | 28  | 42  | 34  | 28  | 41  | 33  | 28  | 39  | 33  | 28  | 25  |
| 8  | 55  | 41  | 31  | 25  | 54  | 40  | 31  | 25  | 38  | 30  | 25  | 37  | 30  | 24  | 36  | 29  | 24  | 22  |
| 9  | 51  | 37  | 28  | 22  | 50  | 36  | 28  | 22  | 35  | 27  | 22  | 34  | 27  | 22  | 33  | 26  | 22  | 20  |
| 10 | 48  | 34  | 25  | 20  | 47  | 33  | 25  | 20  | 32  | 25  | 20  | 31  | 24  | 20  | 30  | 24  | 19  | 18  |

POLAR GRAPH



Maximum Candela = 785 Located At Horizontal Angle = 0, Vertical Angle = 10  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (10) (Through Max. Cd.)