**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : CLRT24-FS1-UNV-40W-3000K.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] LED-13113
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUEDATE] 2/24/2022
[TESTDATE] 12/10/21
[MANUFAC] LSI INDUSTRIES, INC.
[LUMCAT] CLRT24-FS1-UNV-40W-3000K
[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] 3000

**CHARACTERISTICS**


| | |
|---|---|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 4034 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 105 |
| Total Luminaire Watts | 38.3 |
| 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 Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---|---|---|---|
| 45 | 1547 | 1620 | 1715 |
| 55 | 1723 | 1901 | 2121 |
| 65 | 1950 | 2217 | 2643 |
| 75 | 1979 | 2446 | 2836 |
| 85 | 1959 | 2098 | 2653 |

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**CANDELA TABULATION**

| | 0.0 | 22.5 | 45.0 | 67.5 | 90.0 |
|---|---|---|---|---|---|
| **0.0** | 883 | 883 | 883 | 883 | 883 |
| **2.5** | 899 | 891 | 884 | 880 | 874 |
| **5.0** | 902 | 894 | 889 | 883 | 879 |
| **7.5** | 905 | 897 | 892 | 887 | 883 |
| **10.0** | 906 | 899 | 892 | 888 | 884 |
| **12.5** | 905 | 898 | 892 | 887 | 885 |
| **15.0** | 901 | 896 | 889 | 885 | 886 |
| **17.5** | 896 | 894 | 886 | 886 | 887 |
| **20.0** | 892 | 892 | 885 | 887 | 886 |
| **22.5** | 889 | 888 | 886 | 888 | 885 |
| **25.0** | 886 | 883 | 884 | 889 | 881 |
| **27.5** | 883 | 877 | 882 | 887 | 881 |
| **30.0** | 876 | 869 | 877 | 885 | 883 |
| **32.5** | 865 | 861 | 872 | 885 | 886 |
| **35.0** | 853 | 856 | 868 | 885 | 889 |
| **37.5** | 843 | 851 | 866 | 885 | 889 |
| **40.0** | 833 | 844 | 863 | 884 | 892 |
| **42.5** | 824 | 834 | 858 | 886 | 897 |
| **45.0** | 814 | 823 | 852 | 889 | 902 |
| **47.5** | 802 | 811 | 844 | 890 | 902 |
| **50.0** | 783 | 798 | 836 | 886 | 901 |
| **52.5** | 760 | 784 | 826 | 878 | 903 |
| **55.0** | 735 | 764 | 811 | 868 | 905 |
| **57.5** | 707 | 737 | 788 | 859 | 903 |
| **60.0** | 679 | 705 | 763 | 845 | 891 |
| **62.5** | 649 | 670 | 732 | 823 | 865 |
| **65.0** | 613 | 635 | 697 | 785 | 831 |
| **67.5** | 567 | 596 | 656 | 734 | 781 |
| **70.0** | 511 | 551 | 605 | 672 | 721 |
| **72.5** | 447 | 500 | 541 | 600 | 643 |
| **75.0** | 381 | 438 | 471 | 516 | 546 |
| **77.5** | 310 | 370 | 386 | 421 | 437 |
| **80.0** | 244 | 299 | 294 | 327 | 336 |
| **82.5** | 183 | 224 | 208 | 242 | 249 |
| **85.0** | 127 | 145 | 136 | 165 | 172 |
| **87.5** | 71 | 73 | 71 | 84 | 82 |
| **90.0** | 0 | 0 | 0 | 0 | 0 |

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**ZONAL LUMEN SUMMARY**

| Zone | Lumens | %Lamp | %Fixt |
|---|---|---|---|
| 0-20 | 337.51 | N.A. | 8.40 |
| 0-30 | 746.66 | N.A. | 18.50 |
| 0-40 | 1293.17 | N.A. | 32.10 |
| 0-60 | 2682.84 | N.A. | 66.50 |
| 0-80 | 3871.39 | N.A. | 96.00 |
| 0-90 | 4034.32 | N.A. | 100.00 |
| 10-90 | 3949.3 | N.A. | 97.90 |
| 20-40 | 955.66 | N.A. | 23.70 |
| 20-50 | 1616.86 | N.A. | 40.10 |
| 40-70 | 2086.71 | N.A. | 51.70 |
| 60-80 | 1188.55 | N.A. | 29.50 |
| 70-80 | 491.52 | N.A. | 12.20 |
| 80-90 | 162.93 | 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 | 4034.32 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

| Zone | Lumens |
|---|---|
| 0-10 | 85.02 |
| 10-20 | 252.49 |
| 20-30 | 409.15 |
| 30-40 | 546.50 |
| 40-50 | 661.20 |
| 50-60 | 728.47 |
| 60-70 | 697.04 |
| 70-80 | 491.52 |
| 80-90 | 162.93 |
| 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 |

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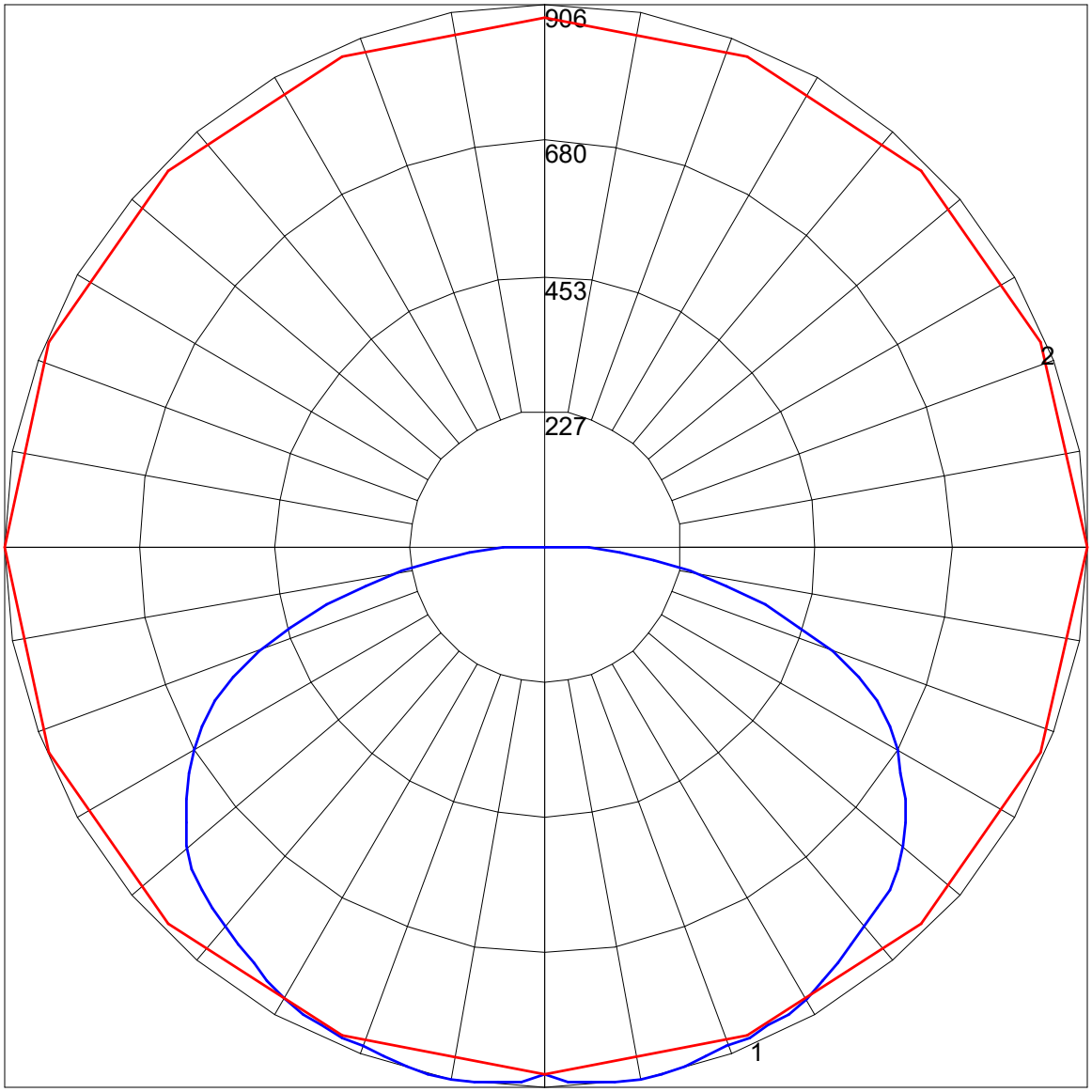
**POLAR GRAPH**




Maximum Candela = 906  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.)