



IES INDOOR REPORT
PHOTOMETRIC FILENAME : CHT-15L-27-GWT.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] LED-11994
 [TESTLAB] LSI INDUSTRIES, INC.
 [ISSUE DATE] 7/31/2020
 [TEST DATE] 07/13/20
 [MANUFACT] LSI INDUSTRIES, INC.
 [LUMCAT] CHT-15L-27-GWT
 [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_APPLICATION] Outdoor

CHARACTERISTICS

| | |
|---------------------------------|--------------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 1255 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 115 |
| Total Luminaire Watts | 10.9 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.10 |
| Spacing Criterion (90-270) | 1.12 |
| Spacing Criterion (Diagonal) | 1.24 |
| Basic Luminous Shape | Circular |
| Luminous Length (0-180) | 1.50 ft (Diameter) |
| Luminous Width (90-270) | 1.50 ft (Diameter) |
| Luminous Height | 0.00 ft |



LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 1902 | 1764 | 1480 |
| 55 | 987 | 987 | 987 |
| 65 | 1037 | 1037 | 1037 |
| 75 | 1011 | 1011 | 1011 |
| 85 | 838 | 838 | 838 |

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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 | 775 | 775 | 775 | 775 | 775 |
| 2.5 | 779 | 779 | 776 | 773 | 773 |
| 5.0 | 737 | 732 | 724 | 720 | 719 |
| 7.5 | 695 | 689 | 686 | 687 | 687 |
| 10.0 | 678 | 670 | 674 | 674 | 675 |
| 12.5 | 667 | 662 | 665 | 667 | 667 |
| 15.0 | 651 | 646 | 647 | 648 | 648 |
| 17.5 | 631 | 627 | 627 | 629 | 629 |
| 20.0 | 615 | 614 | 614 | 615 | 615 |
| 22.5 | 602 | 602 | 603 | 603 | 602 |
| 25.0 | 593 | 593 | 593 | 593 | 595 |
| 27.5 | 580 | 581 | 581 | 585 | 587 |
| 30.0 | 571 | 566 | 568 | 569 | 570 |
| 32.5 | 553 | 548 | 547 | 549 | 548 |
| 35.0 | 530 | 525 | 523 | 525 | 525 |
| 37.5 | 504 | 502 | 501 | 502 | 502 |
| 40.0 | 472 | 472 | 474 | 476 | 477 |
| 42.5 | 350 | 374 | 398 | 420 | 426 |
| 45.0 | 221 | 222 | 205 | 184 | 172 |
| 47.5 | 121 | 121 | 122 | 123 | 123 |
| 50.0 | 106 | 106 | 105 | 104 | 104 |
| 52.5 | 96 | 96 | 96 | 96 | 96 |
| 55.0 | 93 | 93 | 93 | 93 | 93 |
| 57.5 | 88 | 89 | 89 | 88 | 88 |
| 60.0 | 84 | 83 | 84 | 83 | 83 |
| 62.5 | 78 | 78 | 78 | 78 | 78 |
| 65.0 | 72 | 72 | 72 | 72 | 72 |
| 67.5 | 65 | 65 | 65 | 65 | 65 |
| 70.0 | 57 | 57 | 57 | 57 | 57 |
| 72.5 | 50 | 50 | 50 | 50 | 50 |
| 75.0 | 43 | 43 | 43 | 43 | 43 |
| 77.5 | 35 | 35 | 35 | 34 | 34 |
| 80.0 | 28 | 27 | 27 | 27 | 27 |
| 82.5 | 20 | 20 | 20 | 20 | 20 |
| 85.0 | 12 | 12 | 12 | 12 | 12 |
| 87.5 | 6 | 6 | 6 | 6 | 6 |
| 90.0 | 0 | 0 | 0 | 0 | 0 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 249.87 | N.A. | 19.90 |
| 0-30 | 523.50 | N.A. | 41.70 |
| 0-40 | 851.69 | N.A. | 67.90 |
| 0-60 | 1125.47 | N.A. | 89.70 |
| 0-80 | 1240.84 | N.A. | 98.90 |
| 0-90 | 1254.87 | N.A. | 100.00 |
| 10-90 | 1187.27 | N.A. | 94.60 |
| 20-40 | 601.82 | N.A. | 48.00 |
| 20-50 | 792.40 | N.A. | 63.10 |
| 40-70 | 344.39 | N.A. | 27.40 |
| 60-80 | 115.37 | N.A. | 9.20 |
| 70-80 | 44.76 | N.A. | 3.60 |
| 80-90 | 14.03 | N.A. | 1.10 |
| 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 | 1254.87 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 67.60 |
| 10-20 | 182.26 |
| 20-30 | 273.64 |
| 30-40 | 328.19 |
| 40-50 | 190.58 |
| 50-60 | 83.20 |
| 60-70 | 70.61 |
| 70-80 | 44.76 |
| 80-90 | 14.03 |
| 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 |

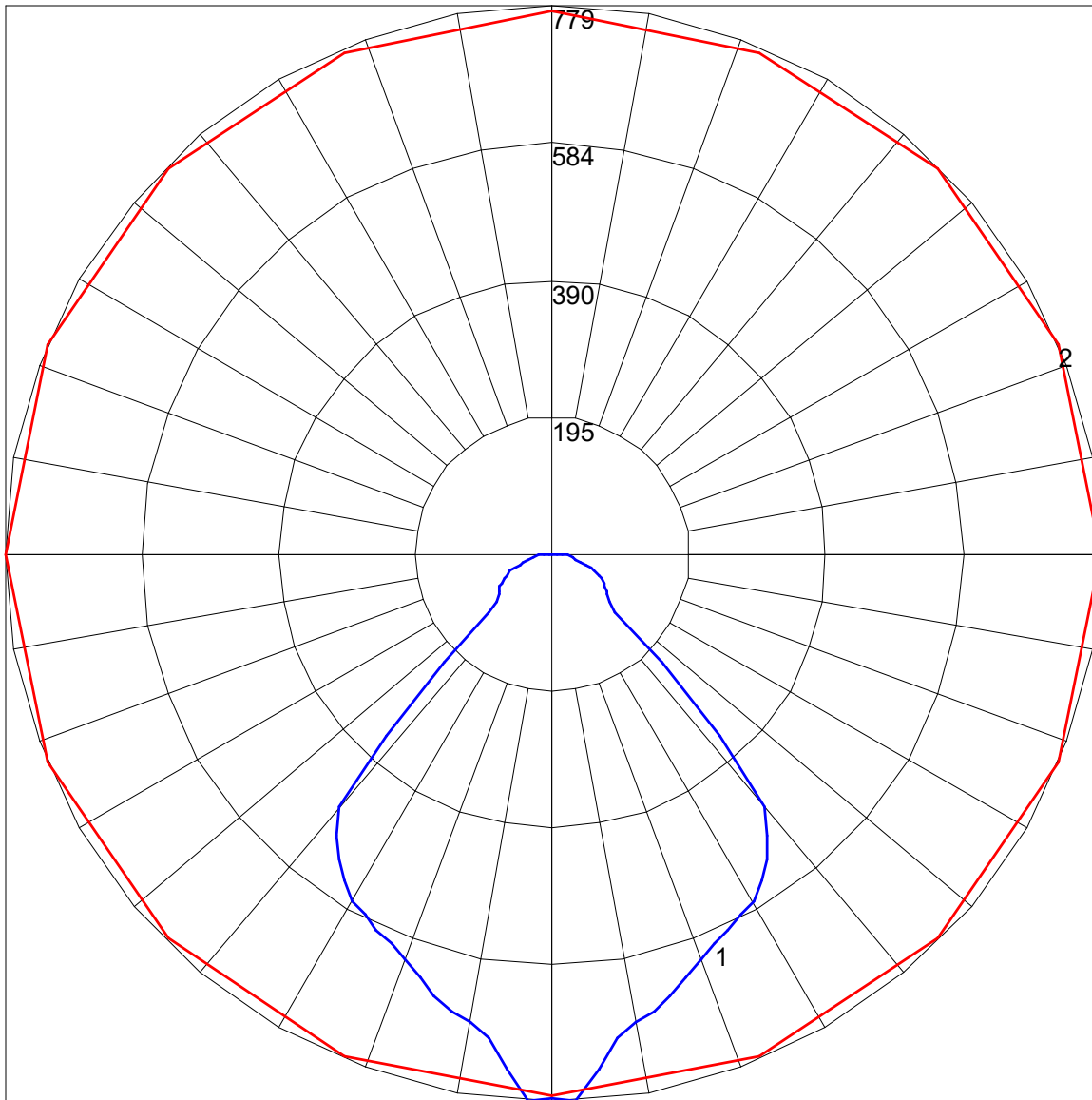
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 | 111 | 107 | 104 | 100 | 108 | 105 | 102 | 99 | 101 | 98 | 96 | 97 | 95 | 93 | 93 | 92 | 90 | 88 |
| 2 | 103 | 96 | 91 | 86 | 101 | 94 | 89 | 85 | 91 | 87 | 83 | 88 | 84 | 81 | 85 | 82 | 80 | 78 |
| 3 | 96 | 87 | 80 | 75 | 93 | 85 | 79 | 74 | 83 | 77 | 73 | 80 | 76 | 72 | 78 | 74 | 71 | 69 |
| 4 | 89 | 79 | 72 | 66 | 87 | 78 | 71 | 66 | 75 | 69 | 65 | 73 | 68 | 64 | 71 | 67 | 63 | 61 |
| 5 | 83 | 72 | 64 | 59 | 81 | 71 | 64 | 59 | 69 | 63 | 58 | 67 | 62 | 57 | 65 | 61 | 57 | 55 |
| 6 | 78 | 66 | 58 | 53 | 76 | 65 | 58 | 53 | 63 | 57 | 52 | 62 | 56 | 52 | 60 | 55 | 51 | 50 |
| 7 | 73 | 61 | 53 | 48 | 71 | 60 | 53 | 48 | 59 | 52 | 47 | 57 | 51 | 47 | 56 | 51 | 47 | 45 |
| 8 | 68 | 56 | 49 | 43 | 67 | 55 | 48 | 43 | 54 | 48 | 43 | 53 | 47 | 43 | 52 | 47 | 43 | 41 |
| 9 | 64 | 52 | 45 | 40 | 63 | 51 | 44 | 40 | 50 | 44 | 40 | 49 | 44 | 39 | 48 | 43 | 39 | 38 |
| 10 | 60 | 48 | 41 | 37 | 59 | 48 | 41 | 36 | 47 | 41 | 36 | 46 | 40 | 36 | 45 | 40 | 36 | 35 |

POLAR GRAPH



Maximum Candela = 779 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.)