



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : CURV-4-LED-5050-FL-SS-35.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] L450 VHO NW 50 50\_Scaled  
[TESTLAB] Dekko  
[ISSUE DATE] 6/29/2017  
[TEST DATE] 04-03-2017  
[LUMCAT] CURV-4-LED-5050-FL-SS-35  
[MANUFAC] LSI INDUSTRIES, INC  
[OTHER] TEST PROCEDURE: IESNA LM-79-08  
[\_ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED  
[\_SEARCH\_SOURCE TYPE] LED  
[\_SEARCH\_APPLICATION] Indoor

**CHARACTERISTICS**

|                                 |                 |
|---------------------------------|-----------------|
| Lumens Per Lamp                 | N.A. (absolute) |
| Total Lamp Lumens               | N.A. (absolute) |
| Luminaire Lumens                | 4000            |
| Total Luminaire Efficiency      | N.A.            |
| Luminaire Efficacy Rating (LER) | 98              |
| Total Luminaire Watts           | 41              |
| Ballast Factor                  | 1.00            |
| CIE Type                        | General Diffuse |
| Spacing Criterion (0-180)       | N.A.            |
| Spacing Criterion (90-270)      | N.A.            |
| Spacing Criterion (Diagonal)    | N.A.            |
| Basic Luminous Shape            | Rectangular     |
| Luminous Length (0-180)         | 4.00 ft         |
| Luminous Width (90-270)         | 0.75 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                  | 2656             | 2380              | 1947              |
| 55                  | 2569             | 2362              | 1922              |
| 65                  | 2319             | 2222              | 1860              |
| 75                  | 1990             | 2027              | 1774              |
| 85                  | 2499             | 2701              | 2498              |

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**CANDELA TABULATION**

|            | <u>0</u> | <u>10</u> | <u>20</u> | <u>30</u> | <u>40</u> | <u>50</u> | <u>60</u> | <u>70</u> | <u>80</u> | <u>90</u> |
|------------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| <b>0</b>   | 529.409  | 529.409   | 529.409   | 529.409   | 529.409   | 529.409   | 529.409   | 529.409   | 529.409   | 529.409   |
| <b>10</b>  | 548.386  | 547.444   | 544.008   | 540.437   | 535.205   | 530.758   | 526.547   | 523.162   | 521.339   | 520.502   |
| <b>20</b>  | 580.026  | 577.492   | 570.614   | 561.033   | 548.302   | 534.321   | 521.677   | 511.527   | 504.230   | 501.798   |
| <b>30</b>  | 600.465  | 597.453   | 588.256   | 572.208   | 551.922   | 527.367   | 505.423   | 486.088   | 473.705   | 468.877   |
| <b>40</b>  | 570.160  | 568.235   | 558.930   | 542.574   | 520.658   | 492.768   | 466.334   | 442.554   | 425.509   | 418.866   |
| <b>50</b>  | 477.780  | 477.283   | 471.830   | 461.165   | 442.724   | 421.888   | 397.726   | 373.174   | 356.183   | 349.326   |
| <b>60</b>  | 344.495  | 345.562   | 344.297   | 339.777   | 329.886   | 317.378   | 301.170   | 283.426   | 270.565   | 265.657   |
| <b>70</b>  | 202.395  | 202.630   | 205.834   | 205.793   | 203.642   | 196.901   | 192.058   | 183.001   | 175.985   | 172.999   |
| <b>80</b>  | 85.032   | 87.469    | 89.621    | 91.469    | 92.401    | 92.392    | 91.050    | 88.231    | 84.769    | 83.175    |
| <b>90</b>  | 36.482   | 37.074    | 37.861    | 38.610    | 38.982    | 38.921    | 39.019    | 38.687    | 38.617    | 38.306    |
| <b>100</b> | 144.927  | 151.131   | 157.719   | 158.121   | 150.273   | 138.669   | 127.582   | 117.369   | 106.765   | 99.668    |
| <b>110</b> | 362.438  | 356.594   | 360.298   | 354.086   | 339.318   | 317.602   | 286.211   | 249.684   | 210.531   | 189.981   |
| <b>120</b> | 470.303  | 468.317   | 464.270   | 454.553   | 433.228   | 404.358   | 365.255   | 318.768   | 282.844   | 265.223   |
| <b>130</b> | 512.207  | 515.788   | 506.790   | 495.363   | 471.283   | 435.216   | 399.405   | 371.111   | 339.572   | 324.213   |
| <b>140</b> | 508.118  | 513.275   | 501.509   | 488.631   | 475.144   | 450.256   | 428.346   | 400.849   | 377.102   | 368.292   |
| <b>150</b> | 487.098  | 489.669   | 485.105   | 476.192   | 467.101   | 455.536   | 440.896   | 423.557   | 408.236   | 403.036   |
| <b>160</b> | 466.448  | 467.446   | 469.263   | 462.876   | 456.109   | 448.413   | 438.970   | 429.514   | 424.978   | 421.314   |
| <b>170</b> | 439.442  | 438.852   | 439.683   | 439.439   | 439.074   | 436.534   | 435.155   | 433.885   | 431.678   | 431.093   |
| <b>180</b> | 430.169  | 430.169   | 430.169   | 430.169   | 430.169   | 430.169   | 430.169   | 430.169   | 430.169   | 430.169   |

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**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  | %Lamp | %Fixt  |
|---------|---------|-------|--------|
| 0-20    | 203.08  | N.A.  | 5.10   |
| 0-30    | 452.70  | N.A.  | 11.30  |
| 0-40    | 778.98  | N.A.  | 19.50  |
| 0-60    | 1468.86 | N.A.  | 36.70  |
| 0-80    | 1872.18 | N.A.  | 46.80  |
| 0-90    | 1941.69 | N.A.  | 48.50  |
| 10-90   | 1890.95 | N.A.  | 47.30  |
| 20-40   | 575.90  | N.A.  | 14.40  |
| 20-50   | 934.20  | N.A.  | 23.40  |
| 40-70   | 943.03  | N.A.  | 23.60  |
| 60-80   | 403.32  | N.A.  | 10.10  |
| 70-80   | 150.17  | N.A.  | 3.80   |
| 80-90   | 69.51   | N.A.  | 1.70   |
| 90-110  | 329.42  | N.A.  | 8.20   |
| 90-120  | 677.38  | N.A.  | 16.90  |
| 90-130  | 1051.8  | N.A.  | 26.30  |
| 90-150  | 1682.06 | N.A.  | 42.10  |
| 90-180  | 2058.1  | N.A.  | 51.50  |
| 110-180 | 1728.68 | N.A.  | 43.20  |
| 0-180   | 3999.78 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens |
|---------|--------|
| 0-10    | 50.74  |
| 10-20   | 152.34 |
| 20-30   | 249.62 |
| 30-40   | 326.29 |
| 40-50   | 358.29 |
| 50-60   | 331.58 |
| 60-70   | 253.15 |
| 70-80   | 150.17 |
| 80-90   | 69.51  |
| 90-100  | 95.47  |
| 100-110 | 233.94 |
| 110-120 | 347.96 |
| 120-130 | 374.42 |
| 130-140 | 345.32 |
| 140-150 | 284.95 |
| 150-160 | 209.13 |
| 160-170 | 125.53 |
| 170-180 | 41.37  |

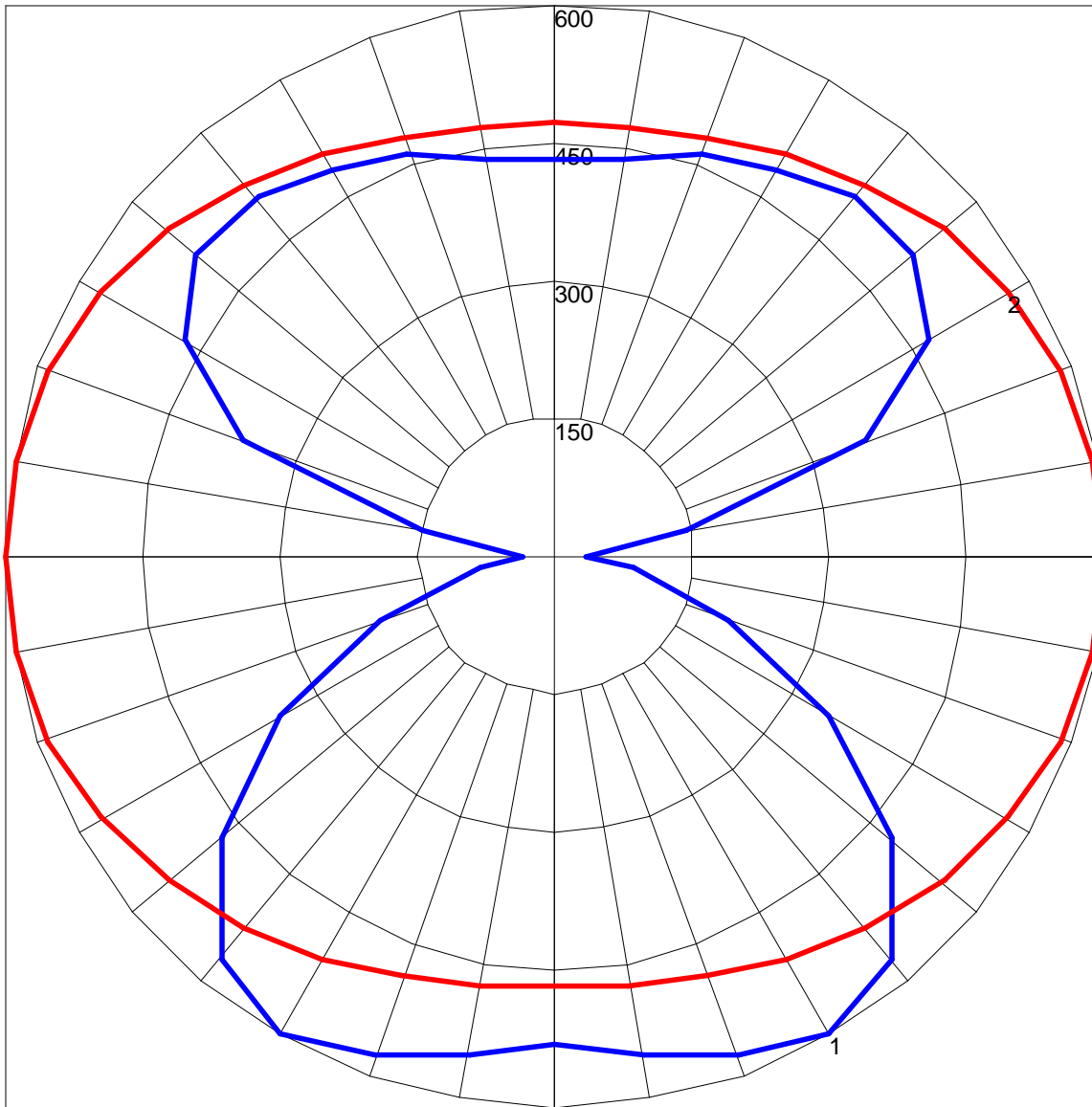
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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  | 107 | 107 | 107 | 107 | 98 | 98 | 98 | 98 | 83 | 83 | 83 | 68 | 68 | 68 | 55 | 55 | 55 | 49 |
| 1  | 97  | 92  | 88  | 84  | 89 | 85 | 81 | 78 | 71 | 69 | 66 | 59 | 57 | 55 | 47 | 46 | 45 | 40 |
| 2  | 88  | 80  | 74  | 68  | 80 | 74 | 68 | 64 | 62 | 58 | 54 | 51 | 48 | 46 | 41 | 39 | 37 | 32 |
| 3  | 80  | 70  | 62  | 56  | 73 | 65 | 58 | 53 | 54 | 49 | 45 | 45 | 41 | 38 | 36 | 33 | 31 | 27 |
| 4  | 73  | 62  | 53  | 47  | 67 | 57 | 50 | 44 | 48 | 42 | 38 | 40 | 36 | 32 | 32 | 29 | 26 | 23 |
| 5  | 67  | 55  | 46  | 40  | 61 | 51 | 43 | 38 | 43 | 37 | 33 | 35 | 31 | 28 | 29 | 25 | 23 | 19 |
| 6  | 61  | 49  | 40  | 35  | 56 | 45 | 38 | 32 | 38 | 32 | 28 | 32 | 27 | 24 | 26 | 22 | 20 | 17 |
| 7  | 56  | 44  | 36  | 30  | 52 | 41 | 33 | 28 | 35 | 29 | 25 | 29 | 24 | 21 | 23 | 20 | 17 | 15 |
| 8  | 52  | 40  | 32  | 26  | 48 | 37 | 30 | 25 | 31 | 26 | 22 | 26 | 22 | 19 | 21 | 18 | 15 | 13 |
| 9  | 49  | 36  | 28  | 23  | 45 | 34 | 27 | 22 | 29 | 23 | 19 | 24 | 20 | 16 | 20 | 16 | 14 | 12 |
| 10 | 45  | 33  | 26  | 21  | 42 | 31 | 24 | 20 | 26 | 21 | 17 | 22 | 18 | 15 | 18 | 15 | 12 | 10 |

POLAR GRAPH



Maximum Candela = 600.465 Located At Horizontal Angle = 0, Vertical Angle = 30  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (30) (Through Max. Cd.)