



IES INDOOR REPORT
PHOTOMETRIC FILENAME : CURV-8-LED-5050-FB-HO-40.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L445 HO NW 50 50
[TESTLAB] Dekko
[TESTDATE] 04-05-2017
[ISSUE DATE] 9/2/2020
[MANUFAC] LSI INDUSTRIES, INC.
[LUMCAT] CURV-8-LED-5050-FB-HO-40
[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

CHARACTERISTICS

| | |
|---------------------------------|-----------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 5181 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 53 |
| Total Luminaire Watts | 97 |
| 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) | 8.00 ft |
| Luminous Width (90-270) | 0.75 ft |
| Luminous Height | 0.00 ft |



LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 2032 | 1750 | 1534 |
| 55 | 1661 | 1199 | 821 |
| 65 | 1113 | 552 | 254 |
| 75 | 489 | 159 | 87 |
| 85 | 120 | 182 | 124 |

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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> |
|------------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 0 | 1400.384 | 1400.384 | 1400.384 | 1400.384 | 1400.384 | 1400.384 | 1400.384 | 1400.384 | 1400.384 | 1400.384 |
| 10 | 1380.818 | 1380.020 | 1378.286 | 1373.772 | 1370.508 | 1365.634 | 1359.090 | 1352.996 | 1347.582 | 1342.890 |
| 20 | 1294.634 | 1293.706 | 1290.584 | 1280.222 | 1265.980 | 1249.066 | 1236.314 | 1226.494 | 1217.434 | 1210.690 |
| 30 | 1141.100 | 1138.124 | 1123.674 | 1099.754 | 1082.438 | 1072.558 | 1061.582 | 1051.250 | 1038.968 | 1031.546 |
| 40 | 930.830 | 924.806 | 894.492 | 863.792 | 843.778 | 830.722 | 822.362 | 813.884 | 798.146 | 785.310 |
| 50 | 672.550 | 661.246 | 622.466 | 587.744 | 557.704 | 528.932 | 496.524 | 470.058 | 444.846 | 425.420 |
| 60 | 390.416 | 379.120 | 339.042 | 294.214 | 249.790 | 198.686 | 153.676 | 127.038 | 111.526 | 99.846 |
| 70 | 134.374 | 122.560 | 96.102 | 62.592 | 39.570 | 32.676 | 27.726 | 24.088 | 21.088 | 20.046 |
| 80 | 6.750 | 8.058 | 9.316 | 9.750 | 9.866 | 9.638 | 9.006 | 7.832 | 5.884 | 5.002 |
| 90 | 4.906 | 5.600 | 6.916 | 8.280 | 7.948 | 8.038 | 7.562 | 6.788 | 6.256 | 7.052 |
| 100 | 156.374 | 162.454 | 156.752 | 158.098 | 126.810 | 113.424 | 96.978 | 91.950 | 83.706 | 80.850 |
| 110 | 395.634 | 406.538 | 402.420 | 391.732 | 354.526 | 324.274 | 301.522 | 274.024 | 242.976 | 235.458 |
| 120 | 490.538 | 571.536 | 558.874 | 520.100 | 501.664 | 464.504 | 410.588 | 371.602 | 360.870 | 362.424 |
| 130 | 553.482 | 712.426 | 537.448 | 643.354 | 533.152 | 506.692 | 464.790 | 456.834 | 456.288 | 457.918 |
| 140 | 571.304 | 602.410 | 619.292 | 544.314 | 543.726 | 535.002 | 536.170 | 535.842 | 536.382 | 536.562 |
| 150 | 555.924 | 559.368 | 569.234 | 574.788 | 582.818 | 588.534 | 591.916 | 592.816 | 592.764 | 596.086 |
| 160 | 595.716 | 596.054 | 603.224 | 610.488 | 614.870 | 618.720 | 621.514 | 623.836 | 624.766 | 627.368 |
| 170 | 620.458 | 618.712 | 620.834 | 625.174 | 627.494 | 629.494 | 630.552 | 633.040 | 633.332 | 637.852 |
| 180 | 625.842 | 625.842 | 625.842 | 625.842 | 625.842 | 625.842 | 625.842 | 625.842 | 625.842 | 625.842 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 503.70 | N.A. | 9.70 |
| 0-30 | 1045.44 | N.A. | 20.20 |
| 0-40 | 1652.86 | N.A. | 31.90 |
| 0-60 | 2543.35 | N.A. | 49.10 |
| 0-80 | 2720.85 | N.A. | 52.50 |
| 0-90 | 2729.25 | N.A. | 52.70 |
| 10-90 | 2597.24 | N.A. | 50.10 |
| 20-40 | 1149.16 | N.A. | 22.20 |
| 20-50 | 1689.92 | N.A. | 32.60 |
| 40-70 | 1033.97 | N.A. | 20.00 |
| 60-80 | 177.50 | N.A. | 3.40 |
| 70-80 | 34.02 | N.A. | 0.70 |
| 80-90 | 8.40 | N.A. | 0.20 |
| 90-110 | 313.33 | N.A. | 6.00 |
| 90-120 | 710.37 | N.A. | 13.70 |
| 90-130 | 1159.09 | N.A. | 22.40 |
| 90-150 | 1938.97 | N.A. | 37.40 |
| 90-180 | 2451.26 | N.A. | 47.30 |
| 110-180 | 2137.92 | N.A. | 41.30 |
| 0-180 | 5180.51 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 132.01 |
| 10-20 | 371.69 |
| 20-30 | 541.74 |
| 30-40 | 607.42 |
| 40-50 | 540.76 |
| 50-60 | 349.73 |
| 60-70 | 143.48 |
| 70-80 | 34.02 |
| 80-90 | 8.40 |
| 90-100 | 71.05 |
| 100-110 | 242.28 |
| 110-120 | 397.03 |
| 120-130 | 448.73 |
| 130-140 | 422.66 |
| 140-150 | 357.21 |
| 150-160 | 276.52 |
| 160-170 | 175.95 |
| 170-180 | 59.82 |

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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 | 108 | 108 | 108 | 108 | 100 | 100 | 100 | 100 | 85 | 85 | 85 | 71 | 71 | 71 | 59 | 59 | 59 | 53 |
| 1 | 100 | 96 | 92 | 89 | 92 | 89 | 86 | 83 | 76 | 74 | 72 | 64 | 63 | 62 | 54 | 53 | 52 | 47 |
| 2 | 92 | 85 | 79 | 75 | 85 | 79 | 74 | 70 | 68 | 65 | 62 | 58 | 56 | 53 | 49 | 47 | 45 | 41 |
| 3 | 84 | 76 | 69 | 64 | 78 | 71 | 65 | 60 | 61 | 57 | 53 | 52 | 49 | 46 | 44 | 42 | 40 | 36 |
| 4 | 78 | 68 | 60 | 55 | 72 | 63 | 57 | 52 | 55 | 50 | 46 | 47 | 44 | 41 | 40 | 37 | 35 | 32 |
| 5 | 72 | 61 | 53 | 47 | 66 | 57 | 50 | 45 | 50 | 44 | 40 | 43 | 39 | 36 | 36 | 34 | 31 | 28 |
| 6 | 66 | 55 | 47 | 42 | 61 | 51 | 45 | 40 | 45 | 40 | 36 | 39 | 35 | 32 | 33 | 30 | 28 | 25 |
| 7 | 61 | 50 | 42 | 37 | 57 | 47 | 40 | 35 | 41 | 36 | 32 | 36 | 32 | 28 | 31 | 28 | 25 | 23 |
| 8 | 57 | 45 | 38 | 33 | 53 | 43 | 36 | 31 | 38 | 32 | 28 | 33 | 29 | 26 | 28 | 25 | 23 | 20 |
| 9 | 53 | 42 | 34 | 29 | 50 | 39 | 33 | 28 | 35 | 29 | 26 | 30 | 26 | 23 | 26 | 23 | 21 | 19 |
| 10 | 50 | 38 | 31 | 27 | 46 | 36 | 30 | 26 | 32 | 27 | 23 | 28 | 24 | 21 | 24 | 21 | 19 | 17 |

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UGR TABLE - CORRECTED

Reflectances

| | | | | | | | | | | |
|----------------|----|----|----|----|----|----|----|----|----|----|
| Ceiling Cavity | 70 | 70 | 50 | 50 | 30 | 70 | 70 | 50 | 50 | 30 |
| Walls | 50 | 30 | 50 | 30 | 30 | 50 | 30 | 50 | 30 | 30 |
| Floor Cavity | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |

Room Size UGR Viewed Crosswise

| | | | | | | | | | | | |
|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|
| X=2H | Y=2H | 9.6 | 10.4 | 10.5 | 11.3 | 12.6 | 5.7 | 5.7 | 5.7 | 6.4 | 7.7 |
| | 3H | 10.2 | 10.9 | 11.2 | 11.9 | 13.2 | 5.7 | 5.7 | 5.7 | 6.4 | 7.6 |
| | 4H | 10.3 | 11.0 | 11.3 | 12.0 | 13.2 | 5.7 | 5.7 | 5.7 | 6.3 | 7.5 |
| | 6H | 10.3 | 10.9 | 11.3 | 11.9 | 13.1 | 5.7 | 5.7 | 5.7 | 6.1 | 7.4 |
| | 8H | 10.2 | 10.8 | 11.2 | 11.8 | 13.1 | 5.7 | 5.7 | 5.7 | 6.1 | 7.3 |
| | 12H | 10.2 | 10.7 | 11.2 | 11.7 | 13.0 | 5.7 | 5.7 | 5.7 | 6.0 | 7.3 |

UGR Viewed Endwise

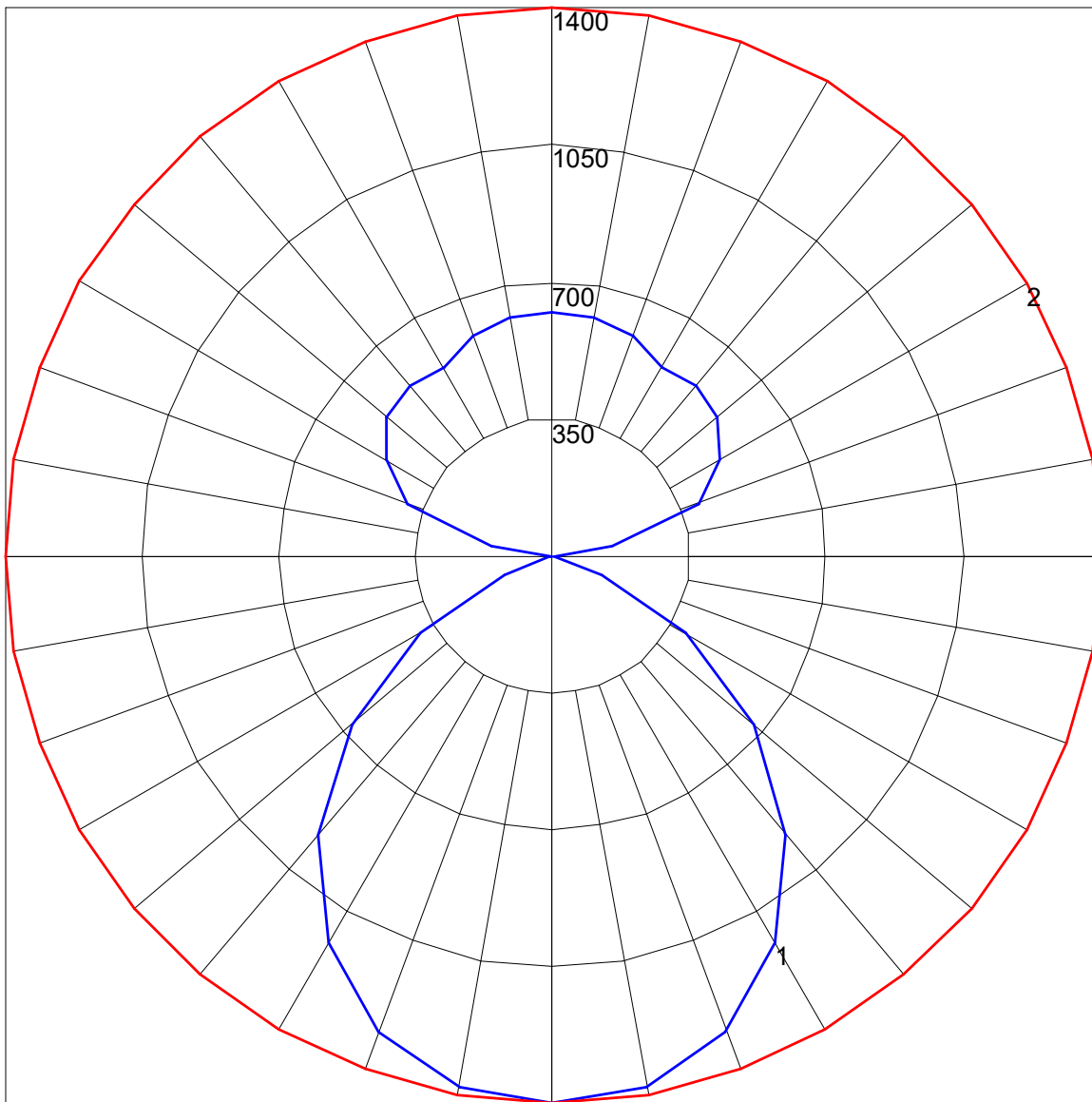
| | | | | | | | | | | | |
|----|-----|------|------|------|------|------|-----|-----|-----|-----|-----|
| 4H | 2H | 9.4 | 10.1 | 10.4 | 11.1 | 12.4 | 5.7 | 5.7 | 6.0 | 6.7 | 8.0 |
| | 3H | 10.1 | 10.7 | 11.1 | 11.7 | 13.0 | 5.7 | 5.7 | 6.1 | 6.6 | 7.9 |
| | 4H | 10.3 | 10.8 | 11.2 | 11.8 | 13.1 | 5.7 | 5.7 | 6.0 | 6.5 | 7.8 |
| | 6H | 10.2 | 10.7 | 11.2 | 11.7 | 13.0 | 5.7 | 5.7 | 6.0 | 6.4 | 7.7 |
| | 8H | 10.2 | 10.6 | 11.2 | 11.6 | 12.9 | 5.7 | 5.7 | 5.9 | 6.3 | 7.6 |
| | 12H | 10.1 | 10.5 | 11.1 | 11.5 | 12.8 | 5.7 | 5.7 | 5.9 | 6.3 | 7.6 |

| | | | | | | | | | | | |
|----|-----|------|------|------|------|------|-----|-----|-----|-----|-----|
| 8H | 4H | 10.1 | 10.5 | 11.1 | 11.5 | 12.8 | 5.7 | 5.7 | 6.0 | 6.4 | 7.7 |
| | 6H | 10.1 | 10.4 | 11.1 | 11.5 | 12.8 | 5.7 | 5.7 | 6.0 | 6.3 | 7.6 |
| | 8H | 10.0 | 10.3 | 11.1 | 11.4 | 12.7 | 5.7 | 5.7 | 5.9 | 6.2 | 7.6 |
| | 12H | 10.0 | 10.2 | 11.0 | 11.3 | 12.7 | 5.7 | 5.7 | 5.9 | 6.2 | 7.6 |

| | | | | | | | | | | | |
|-----|----|------|------|------|------|------|-----|-----|-----|-----|-----|
| 12H | 4H | 10.1 | 10.4 | 11.1 | 11.4 | 12.8 | 5.7 | 5.7 | 5.9 | 6.3 | 7.6 |
| | 6H | 10.0 | 10.3 | 11.1 | 11.3 | 12.7 | 5.7 | 5.7 | 5.9 | 6.2 | 7.6 |
| | 8H | 10.0 | 10.2 | 11.0 | 11.3 | 12.6 | 5.7 | 5.7 | 5.9 | 6.2 | 7.5 |

Maximum UGR = 13.2

POLAR GRAPH



Maximum Candela = 1400.384 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)