



IES INDOOR REPORT
PHOTOMETRIC FILENAME : CURV-4-LED-2080-FL-SS-35.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L450 VHO NW 20 80_Scaled
[TESTLAB] Dekko
[ISSUE DATE] 6/29/2017
[TEST DATE] 04-03-2017
[LUMCAT] CURV-4-LED-2080-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 | 3153 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 77 |
| Total Luminaire Watts | 41 |
| Ballast Factor | 1.00 |
| CIE Type | Semi-Direct |
| Spacing Criterion (0-180) | 1.52 |
| Spacing Criterion (90-270) | 1.28 |
| Spacing Criterion (Diagonal) | 1.52 |
| 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 Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 3340 | 3072 | 2621 |
| 55 | 3156 | 2976 | 2530 |
| 65 | 2781 | 2722 | 2367 |
| 75 | 2264 | 2345 | 2110 |
| 85 | 2439 | 2682 | 2385 |

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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 | 753.963 | 753.963 | 753.963 | 753.963 | 753.963 | 753.963 | 753.963 | 753.963 | 753.963 | 753.963 |
| 10 | 770.938 | 768.591 | 764.893 | 760.284 | 755.180 | 749.585 | 744.496 | 740.888 | 738.237 | 737.389 |
| 20 | 791.912 | 787.849 | 780.654 | 769.439 | 756.409 | 741.041 | 727.392 | 715.183 | 707.982 | 705.540 |
| 30 | 790.737 | 786.273 | 775.550 | 757.086 | 737.025 | 712.934 | 689.931 | 669.881 | 655.642 | 649.981 |
| 40 | 726.204 | 721.923 | 713.132 | 696.209 | 674.994 | 648.841 | 622.030 | 595.225 | 577.492 | 568.380 |
| 50 | 591.699 | 590.717 | 586.249 | 576.860 | 561.713 | 538.578 | 513.914 | 490.796 | 472.760 | 465.527 |
| 60 | 418.278 | 419.684 | 419.305 | 416.799 | 409.290 | 395.281 | 379.812 | 362.745 | 349.554 | 344.223 |
| 70 | 237.383 | 239.852 | 242.064 | 242.785 | 241.903 | 237.062 | 230.007 | 224.358 | 217.210 | 213.945 |
| 80 | 89.500 | 92.269 | 95.259 | 97.784 | 99.025 | 99.131 | 97.544 | 94.903 | 92.541 | 90.816 |
| 90 | 29.106 | 30.195 | 31.426 | 31.739 | 31.619 | 31.060 | 29.996 | 29.419 | 28.386 | 25.149 |
| 100 | 67.015 | 67.347 | 72.582 | 77.349 | 74.518 | 71.744 | 65.288 | 57.399 | 44.636 | 38.641 |
| 110 | 115.199 | 115.552 | 111.059 | 111.100 | 109.281 | 106.303 | 95.646 | 79.453 | 68.113 | 63.790 |
| 120 | 137.282 | 138.915 | 135.897 | 130.653 | 121.874 | 113.215 | 100.917 | 91.747 | 86.925 | 85.684 |
| 130 | 143.452 | 146.978 | 144.962 | 137.682 | 130.734 | 124.137 | 116.447 | 110.478 | 105.762 | 104.972 |
| 140 | 142.141 | 147.908 | 145.680 | 143.233 | 139.104 | 132.995 | 129.451 | 125.658 | 122.649 | 120.949 |
| 150 | 140.964 | 145.921 | 145.674 | 144.074 | 144.013 | 142.032 | 139.196 | 135.638 | 133.883 | 133.384 |
| 160 | 139.634 | 143.975 | 145.501 | 146.074 | 145.226 | 143.810 | 144.428 | 143.284 | 142.022 | 141.048 |
| 170 | 136.873 | 142.016 | 143.111 | 144.369 | 144.733 | 144.407 | 145.318 | 145.387 | 145.360 | 145.026 |
| 180 | 141.901 | 141.901 | 141.901 | 141.901 | 141.901 | 141.901 | 141.901 | 141.901 | 141.901 | 141.901 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 284.69 | N.A. | 9.00 |
| 0-30 | 625.14 | N.A. | 19.80 |
| 0-40 | 1057.96 | N.A. | 33.60 |
| 0-60 | 1939.17 | N.A. | 61.50 |
| 0-80 | 2423.83 | N.A. | 76.90 |
| 0-90 | 2492.3 | N.A. | 79.00 |
| 10-90 | 2420.38 | N.A. | 76.80 |
| 20-40 | 773.27 | N.A. | 24.50 |
| 20-50 | 1236.1 | N.A. | 39.20 |
| 40-70 | 1191.93 | N.A. | 37.80 |
| 60-80 | 484.66 | N.A. | 15.40 |
| 70-80 | 173.94 | N.A. | 5.50 |
| 80-90 | 68.47 | N.A. | 2.20 |
| 90-110 | 138.18 | N.A. | 4.40 |
| 90-120 | 243.93 | N.A. | 7.70 |
| 90-130 | 352.24 | N.A. | 11.20 |
| 90-150 | 540.52 | N.A. | 17.10 |
| 90-180 | 660.84 | N.A. | 21.00 |
| 110-180 | 522.66 | N.A. | 16.60 |
| 0-180 | 3153.14 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 71.92 |
| 10-20 | 212.77 |
| 20-30 | 340.45 |
| 30-40 | 432.82 |
| 40-50 | 462.83 |
| 50-60 | 418.37 |
| 60-70 | 310.72 |
| 70-80 | 173.94 |
| 80-90 | 68.47 |
| 90-100 | 51.80 |
| 100-110 | 86.38 |
| 110-120 | 105.75 |
| 120-130 | 108.31 |
| 130-140 | 101.52 |
| 140-150 | 86.76 |
| 150-160 | 65.89 |
| 160-170 | 40.79 |
| 170-180 | 13.64 |

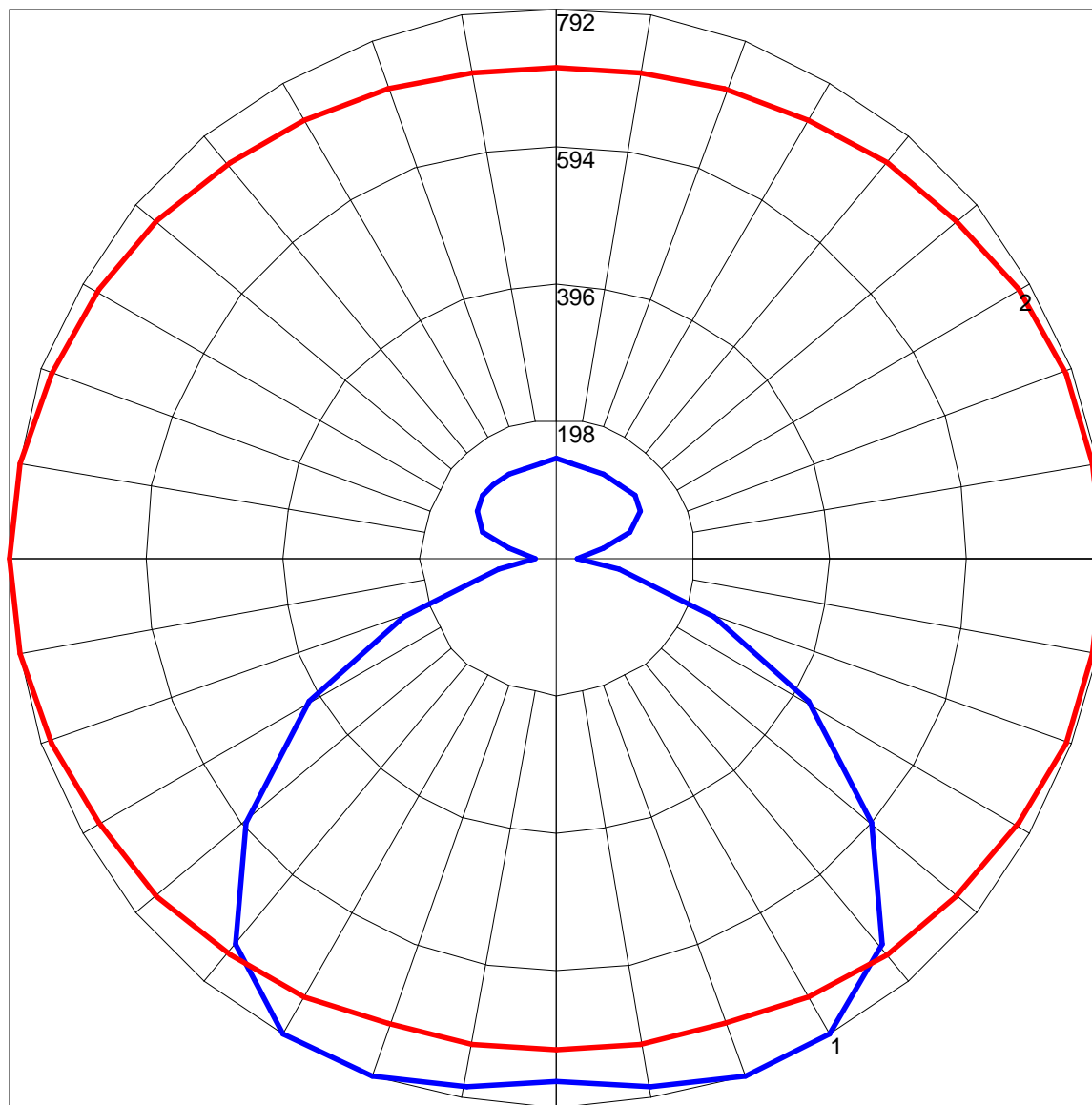
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 | 114 | 114 | 114 | 114 | 109 | 109 | 109 | 109 | 99 | 99 | 99 | 91 | 91 | 91 | 83 | 83 | 83 | 79 |
| 1 | 104 | 99 | 95 | 91 | 99 | 95 | 91 | 87 | 87 | 84 | 81 | 79 | 77 | 75 | 72 | 71 | 69 | 65 |
| 2 | 94 | 86 | 79 | 74 | 90 | 82 | 76 | 71 | 75 | 71 | 66 | 69 | 65 | 62 | 63 | 60 | 57 | 54 |
| 3 | 86 | 75 | 67 | 61 | 81 | 72 | 65 | 59 | 66 | 60 | 55 | 61 | 56 | 52 | 56 | 52 | 48 | 45 |
| 4 | 78 | 66 | 58 | 51 | 74 | 64 | 56 | 50 | 59 | 52 | 47 | 54 | 48 | 44 | 49 | 45 | 41 | 38 |
| 5 | 72 | 59 | 50 | 44 | 68 | 57 | 49 | 43 | 52 | 45 | 40 | 48 | 42 | 38 | 44 | 39 | 36 | 33 |
| 6 | 66 | 53 | 44 | 38 | 63 | 51 | 43 | 37 | 47 | 40 | 35 | 43 | 37 | 33 | 40 | 35 | 31 | 29 |
| 7 | 61 | 48 | 39 | 33 | 58 | 46 | 38 | 32 | 43 | 36 | 31 | 39 | 33 | 29 | 36 | 31 | 27 | 25 |
| 8 | 57 | 43 | 35 | 29 | 54 | 42 | 34 | 29 | 39 | 32 | 27 | 36 | 30 | 26 | 33 | 28 | 24 | 22 |
| 9 | 53 | 40 | 32 | 26 | 50 | 38 | 31 | 26 | 36 | 29 | 24 | 33 | 27 | 23 | 31 | 26 | 22 | 20 |
| 10 | 49 | 36 | 29 | 24 | 47 | 35 | 28 | 23 | 33 | 26 | 22 | 30 | 25 | 21 | 28 | 23 | 20 | 18 |

POLAR GRAPH



Maximum Candela = 791.912 Located At Horizontal Angle = 0, Vertical Angle = 20
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (20) (Through Max. Cd.)