



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : CURV-8-LED-2080-FL-SS-40.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] L450 SS NW 20 80  
 [TESTLAB] Dekko  
 [ISSUE DATE] 6/29/2017  
 [TEST DATE] 04-3-2017  
 [LUMCAT] CURV-8-LED-2080-FL-SS-40  
 [MANUFAC] LSI INDUSTRIES, INC.  
 [OTHER] TEST PROCEDURE: IESNA LM-79-08  
 [ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED  
 [SEARCH\_SOURCETYPE] LED  
 [SEARCH\_APPLICATION] Indoor

**CHARACTERISTICS**

|                                 |                 |
|---------------------------------|-----------------|
| Lumens Per Lamp                 | N.A. (absolute) |
| Total Lamp Lumens               | N.A. (absolute) |
| Luminaire Lumens                | 6521            |
| Total Luminaire Efficiency      | N.A.            |
| Luminaire Efficacy Rating (LER) | 80              |
| Total Luminaire Watts           | 81.2            |
| 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)         | 8.00 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                  | 3452             | 3177              | 2711              |
| 55                  | 3261             | 3078              | 2616              |
| 65                  | 2876             | 2814              | 2448              |
| 75                  | 2342             | 2423              | 2186              |
| 85                  | 2518             | 2775              | 2467              |

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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>   | 1559.376 | 1559.376  | 1559.376  | 1559.376  | 1559.376  | 1559.376  | 1559.376  | 1559.376  | 1559.376  | 1559.376  |
| <b>10</b>  | 1594.362 | 1589.364  | 1581.034  | 1572.704  | 1561.042  | 1549.380  | 1539.384  | 1532.720  | 1526.056  | 1524.390  |
| <b>20</b>  | 1637.678 | 1629.348  | 1614.354  | 1591.030  | 1564.374  | 1532.720  | 1504.398  | 1479.408  | 1464.414  | 1459.416  |
| <b>30</b>  | 1636.012 | 1626.016  | 1604.358  | 1566.040  | 1524.390  | 1474.410  | 1426.096  | 1386.112  | 1356.124  | 1344.462  |
| <b>40</b>  | 1501.066 | 1492.736  | 1474.410  | 1439.424  | 1396.108  | 1341.130  | 1286.152  | 1231.174  | 1194.522  | 1176.196  |
| <b>50</b>  | 1222.844 | 1221.178  | 1212.848  | 1192.856  | 1161.202  | 1114.554  | 1062.908  | 1014.594  | 977.942   | 962.948   |
| <b>60</b>  | 864.654  | 867.986   | 866.320   | 861.322   | 846.328   | 818.006   | 784.686   | 749.700   | 723.044   | 711.382   |
| <b>70</b>  | 491.470  | 496.468   | 499.800   | 501.466   | 499.800   | 489.804   | 476.476   | 464.814   | 449.820   | 443.156   |
| <b>80</b>  | 184.926  | 191.590   | 196.588   | 201.586   | 204.918   | 204.918   | 201.586   | 196.588   | 191.590   | 188.258   |
| <b>90</b>  | 59.976   | 61.642    | 64.974    | 64.974    | 64.974    | 64.974    | 61.642    | 61.642    | 58.310    | 51.646    |
| <b>100</b> | 138.278  | 139.944   | 149.940   | 159.936   | 154.938   | 148.274   | 134.946   | 118.286   | 91.630    | 79.968    |
| <b>110</b> | 238.238  | 238.238   | 229.908   | 229.908   | 226.576   | 219.912   | 198.254   | 164.934   | 141.610   | 131.614   |
| <b>120</b> | 283.220  | 286.552   | 281.554   | 269.892   | 251.566   | 234.906   | 208.250   | 189.924   | 179.928   | 176.596   |
| <b>130</b> | 296.548  | 303.212   | 299.880   | 284.886   | 269.892   | 256.564   | 241.570   | 228.242   | 218.246   | 216.580   |
| <b>140</b> | 293.216  | 306.544   | 301.546   | 296.548   | 288.218   | 274.890   | 268.226   | 259.896   | 253.232   | 249.900   |
| <b>150</b> | 291.550  | 301.546   | 301.546   | 298.214   | 298.214   | 293.216   | 288.218   | 279.888   | 276.556   | 276.556   |
| <b>160</b> | 288.218  | 298.214   | 301.546   | 301.546   | 299.880   | 298.214   | 298.214   | 296.548   | 293.216   | 291.550   |
| <b>170</b> | 283.220  | 293.216   | 296.548   | 298.214   | 299.880   | 298.214   | 299.880   | 299.880   | 299.880   | 299.880   |
| <b>180</b> | 293.216  | 293.216   | 293.216   | 293.216   | 293.216   | 293.216   | 293.216   | 293.216   | 293.216   | 293.216   |

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**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  | %Lamp | %Fixt  |
|---------|---------|-------|--------|
| 0-20    | 588.73  | N.A.  | 9.00   |
| 0-30    | 1292.86 | N.A.  | 19.80  |
| 0-40    | 2187.97 | N.A.  | 33.60  |
| 0-60    | 4010.15 | N.A.  | 61.50  |
| 0-80    | 5012.45 | N.A.  | 76.90  |
| 0-90    | 5153.98 | N.A.  | 79.00  |
| 10-90   | 5005.25 | N.A.  | 76.80  |
| 20-40   | 1599.25 | N.A.  | 24.50  |
| 20-50   | 2556.34 | N.A.  | 39.20  |
| 40-70   | 2464.69 | N.A.  | 37.80  |
| 60-80   | 1002.3  | N.A.  | 15.40  |
| 70-80   | 359.79  | N.A.  | 5.50   |
| 80-90   | 141.53  | N.A.  | 2.20   |
| 90-110  | 285.79  | N.A.  | 4.40   |
| 90-120  | 504.54  | N.A.  | 7.70   |
| 90-130  | 728.40  | N.A.  | 11.20  |
| 90-150  | 1117.81 | N.A.  | 17.10  |
| 90-180  | 1366.58 | N.A.  | 21.00  |
| 110-180 | 1080.79 | N.A.  | 16.60  |
| 0-180   | 6520.56 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens |
|---------|--------|
| 0-10    | 148.73 |
| 10-20   | 440.00 |
| 20-30   | 704.13 |
| 30-40   | 895.12 |
| 40-50   | 957.10 |
| 50-60   | 865.08 |
| 60-70   | 642.51 |
| 70-80   | 359.79 |
| 80-90   | 141.53 |
| 90-100  | 107.04 |
| 100-110 | 178.75 |
| 110-120 | 218.75 |
| 120-130 | 223.87 |
| 130-140 | 209.95 |
| 140-150 | 179.46 |
| 150-160 | 136.25 |
| 160-170 | 84.32  |
| 170-180 | 28.19  |

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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 | 70 | 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 |

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**UGR TABLE - CORRECTED**

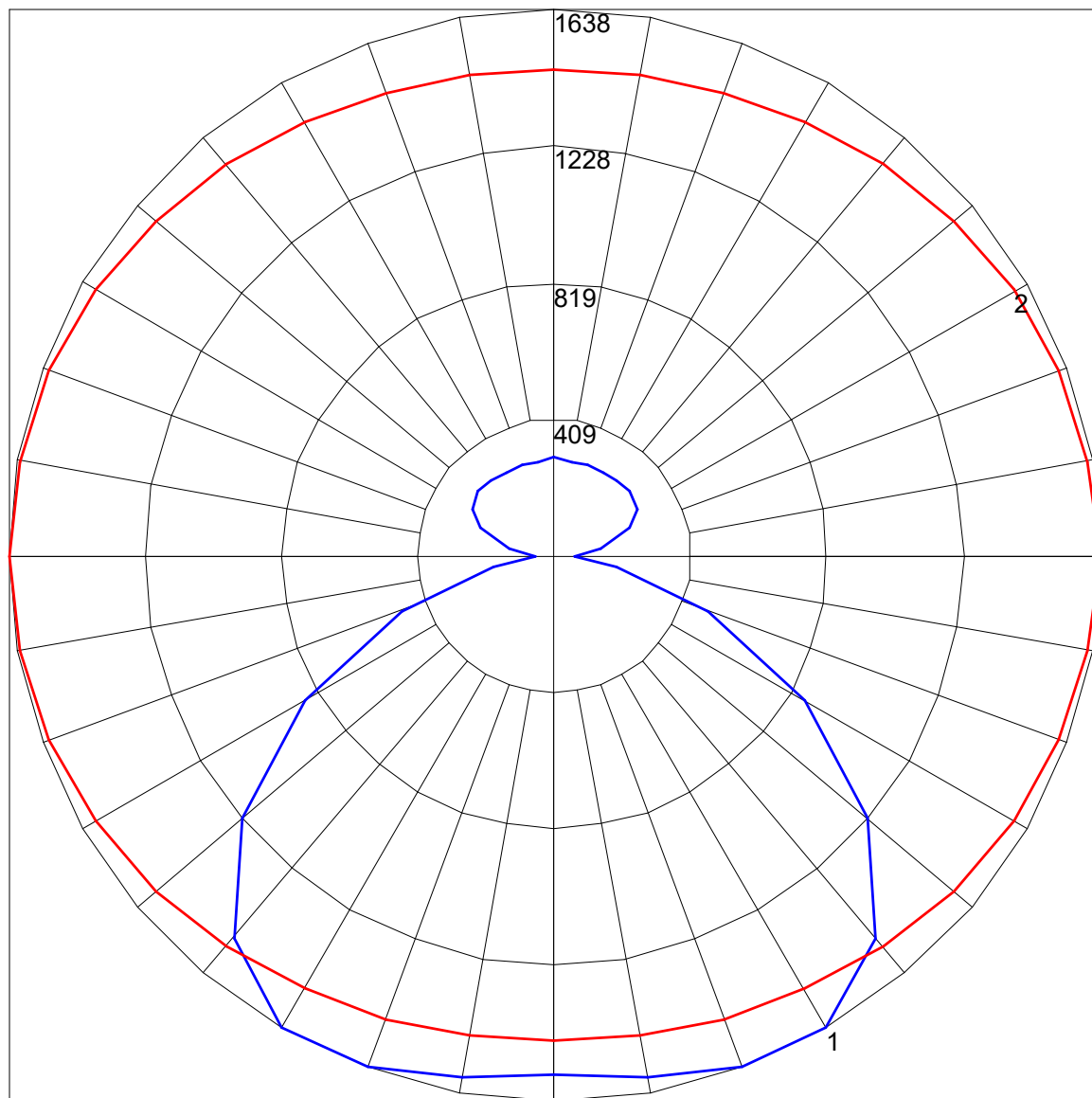
Reflectances

|                |    |    |    |    |    |    |    |    |    |    |
|----------------|----|----|----|----|----|----|----|----|----|----|
| 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 |      |      |      |      | UGR Viewed Endwise |      |      |      |      |
|-----------|------|----------------------|------|------|------|------|--------------------|------|------|------|------|
| X=2H      | Y=2H | 15.1                 | 16.3 | 15.7 | 17.0 | 17.8 | 14.0               | 15.2 | 14.6 | 15.9 | 16.7 |
|           | 3H   | 16.7                 | 17.8 | 17.3 | 18.5 | 19.3 | 15.7               | 16.8 | 16.4 | 17.5 | 18.3 |
|           | 4H   | 17.2                 | 18.3 | 17.9 | 19.0 | 19.8 | 16.3               | 17.4 | 17.0 | 18.1 | 18.9 |
|           | 6H   | 17.6                 | 18.6 | 18.3 | 19.3 | 20.1 | 16.8               | 17.8 | 17.5 | 18.5 | 19.3 |
|           | 8H   | 17.7                 | 18.7 | 18.5 | 19.4 | 20.3 | 17.0               | 17.9 | 17.7 | 18.6 | 19.5 |
|           | 12H  | 17.9                 | 18.8 | 18.6 | 19.5 | 20.4 | 17.2               | 18.1 | 17.9 | 18.8 | 19.7 |
| 4H        | 2H   | 15.6                 | 16.6 | 16.3 | 17.3 | 18.2 | 14.7               | 15.8 | 15.4 | 16.5 | 17.3 |
|           | 3H   | 17.4                 | 18.3 | 18.1 | 19.0 | 19.9 | 16.6               | 17.5 | 17.3 | 18.2 | 19.1 |
|           | 4H   | 18.1                 | 18.9 | 18.8 | 19.6 | 20.5 | 17.4               | 18.2 | 18.1 | 18.9 | 19.8 |
|           | 6H   | 18.6                 | 19.3 | 19.3 | 20.1 | 21.0 | 18.0               | 18.7 | 18.7 | 19.5 | 20.3 |
|           | 8H   | 18.8                 | 19.5 | 19.6 | 20.2 | 21.1 | 18.2               | 18.9 | 19.0 | 19.6 | 20.5 |
|           | 12H  | 19.0                 | 19.6 | 19.8 | 20.4 | 21.3 | 18.5               | 19.1 | 19.3 | 19.9 | 20.8 |
| 8H        | 4H   | 18.4                 | 19.0 | 19.1 | 19.8 | 20.7 | 17.7               | 18.4 | 18.5 | 19.2 | 20.1 |
|           | 6H   | 19.0                 | 19.5 | 19.8 | 20.3 | 21.2 | 18.5               | 19.0 | 19.2 | 19.8 | 20.7 |
|           | 8H   | 19.3                 | 19.8 | 20.1 | 20.6 | 21.5 | 18.8               | 19.3 | 19.6 | 20.1 | 21.0 |
|           | 12H  | 19.6                 | 20.1 | 20.4 | 20.8 | 21.8 | 19.2               | 19.6 | 20.0 | 20.4 | 21.4 |
| 12H       | 4H   | 18.4                 | 19.0 | 19.1 | 19.7 | 20.6 | 17.8               | 18.4 | 18.5 | 19.1 | 20.0 |
|           | 6H   | 19.1                 | 19.5 | 19.8 | 20.3 | 21.3 | 18.6               | 19.0 | 19.3 | 19.8 | 20.8 |
|           | 8H   | 19.4                 | 19.8 | 20.2 | 20.6 | 21.6 | 19.0               | 19.4 | 19.7 | 20.2 | 21.2 |

Maximum UGR = 21.8

POLAR GRAPH



Maximum Candela = 1637.678 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.)