



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : CURV-4-LED-3070-FB-HO-30.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] L445 HO NW 30 70  
 [TESTLAB] Dekko  
 [TESTDATE] 04-05-2017  
 [ISSUEDATE] 9/2/2020  
 [MANUFAC] LSI INDUSTRIES, INC.  
 [LUMCAT] CURV-4-LED-3070-FB-HO-30  
 [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                | 1909            |
| Total Luminaire Efficiency      | N.A.            |
| Luminaire Efficacy Rating (LER) | 39              |
| Total Luminaire Watts           | 48.4            |
| Ballast Factor                  | 1.00            |
| CIE Type                        | Semi-Direct     |
| Spacing Criterion (0-180)       | 1.20            |
| Spacing Criterion (90-270)      | 1.12            |
| Spacing Criterion (Diagonal)    | 1.20            |
| 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                  | 1955             | 1687              | 1564              |
| 55                  | 1496             | 1066              | 825               |
| 65                  | 814              | 415               | 236               |
| 75                  | 194              | 75                | 48                |
| 85                  | 0                | 21                | 0                 |

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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>   | 722.706  | 722.706   | 722.706   | 722.706   | 722.706   | 722.706   | 722.706   | 722.706   | 722.706   | 722.706   |
| <b>10</b>  | 707.592  | 705.000   | 704.219   | 704.041   | 702.194   | 700.166   | 698.164   | 696.109   | 695.260   | 694.024   |
| <b>20</b>  | 657.579  | 656.666   | 653.221   | 648.078   | 641.846   | 632.403   | 627.804   | 624.212   | 622.630   | 621.948   |
| <b>30</b>  | 572.611  | 571.740   | 562.938   | 550.640   | 541.588   | 537.501   | 534.983   | 533.986   | 531.659   | 532.014   |
| <b>40</b>  | 456.709  | 453.111   | 437.009   | 422.473   | 414.503   | 409.707   | 407.038   | 404.498   | 402.777   | 401.859   |
| <b>50</b>  | 314.554  | 307.915   | 288.207   | 272.665   | 259.762   | 247.225   | 231.415   | 222.637   | 217.097   | 215.166   |
| <b>60</b>  | 164.052  | 158.050   | 137.470   | 119.037   | 98.678    | 76.766    | 62.221    | 54.455    | 50.191    | 48.777    |
| <b>70</b>  | 27.980   | 27.409    | 22.971    | 13.420    | 10.661    | 9.662     | 8.579     | 7.653     | 7.171     | 6.906     |
| <b>80</b>  | 0.000    | 0.237     | 0.532     | 0.690     | 0.804     | 0.594     | 0.340     | 0.112     | 0.000     | 0.000     |
| <b>90</b>  | 0.000    | 0.210     | 0.393     | 0.504     | 0.447     | 0.187     | 0.000     | 0.000     | 0.000     | 0.000     |
| <b>100</b> | 34.694   | 28.394    | 26.370    | 38.556    | 30.829    | 31.980    | 28.772    | 24.148    | 18.772    | 16.204    |
| <b>110</b> | 93.465   | 88.037    | 78.328    | 73.603    | 72.997    | 79.045    | 71.936    | 67.869    | 58.806    | 56.885    |
| <b>120</b> | 128.850  | 126.125   | 119.031   | 111.221   | 102.919   | 98.920    | 95.281    | 90.007    | 84.754    | 85.416    |
| <b>130</b> | 144.765  | 144.295   | 142.551   | 136.271   | 131.133   | 127.047   | 117.856   | 112.063   | 110.488   | 110.521   |
| <b>140</b> | 154.651  | 157.049   | 156.600   | 152.975   | 146.317   | 136.531   | 133.769   | 132.900   | 132.775   | 132.863   |
| <b>150</b> | 152.775  | 152.690   | 151.172   | 151.025   | 148.230   | 148.093   | 148.200   | 148.056   | 148.381   | 148.515   |
| <b>160</b> | 153.040  | 153.444   | 156.809   | 157.485   | 157.546   | 157.710   | 157.895   | 158.357   | 158.795   | 159.156   |
| <b>170</b> | 159.483  | 159.428   | 160.390   | 162.213   | 164.116   | 164.521   | 164.996   | 164.743   | 164.630   | 164.355   |
| <b>180</b> | 162.262  | 162.262   | 162.262   | 162.262   | 162.262   | 162.262   | 162.262   | 162.262   | 162.262   | 162.262   |

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**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  | %Lamp | %Fixt  |
|---------|---------|-------|--------|
| 0-20    | 257.74  | N.A.  | 13.50  |
| 0-30    | 531.96  | N.A.  | 27.90  |
| 0-40    | 835.51  | N.A.  | 43.80  |
| 0-60    | 1255.88 | N.A.  | 65.80  |
| 0-80    | 1317.92 | N.A.  | 69.00  |
| 0-90    | 1318.22 | N.A.  | 69.10  |
| 10-90   | 1250.29 | N.A.  | 65.50  |
| 20-40   | 577.77  | N.A.  | 30.30  |
| 20-50   | 839.89  | N.A.  | 44.00  |
| 40-70   | 474.86  | N.A.  | 24.90  |
| 60-80   | 62.04   | N.A.  | 3.20   |
| 70-80   | 7.54    | N.A.  | 0.40   |
| 80-90   | 0.31    | N.A.  | 0.00   |
| 90-110  | 69.47   | N.A.  | 3.60   |
| 90-120  | 157.77  | N.A.  | 8.30   |
| 90-130  | 261.68  | N.A.  | 13.70  |
| 90-150  | 458.85  | N.A.  | 24.00  |
| 90-180  | 590.74  | N.A.  | 30.90  |
| 110-180 | 521.26  | N.A.  | 27.30  |
| 0-180   | 1908.96 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens |
|---------|--------|
| 0-10    | 67.93  |
| 10-20   | 189.81 |
| 20-30   | 274.22 |
| 30-40   | 303.55 |
| 40-50   | 262.11 |
| 50-60   | 158.25 |
| 60-70   | 54.50  |
| 70-80   | 7.54   |
| 80-90   | 0.31   |
| 90-100  | 15.46  |
| 100-110 | 54.02  |
| 110-120 | 88.30  |
| 120-130 | 103.91 |
| 130-140 | 105.07 |
| 140-150 | 92.11  |
| 150-160 | 70.99  |
| 160-170 | 45.37  |
| 170-180 | 15.52  |

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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  | 112 | 112 | 112 | 112 | 105 | 105 | 105 | 105 | 94 | 94 | 94 | 83 | 83 | 83 | 74 | 74 | 74 | 69 |
| 1  | 104 | 100 | 97  | 94  | 98  | 95  | 92  | 90  | 85 | 83 | 81 | 76 | 75 | 73 | 68 | 67 | 66 | 62 |
| 2  | 96  | 90  | 84  | 80  | 91  | 85  | 80  | 76  | 77 | 73 | 70 | 69 | 66 | 64 | 62 | 60 | 58 | 55 |
| 3  | 89  | 80  | 74  | 68  | 84  | 76  | 71  | 66  | 69 | 65 | 61 | 63 | 59 | 56 | 56 | 54 | 52 | 48 |
| 4  | 82  | 72  | 65  | 59  | 78  | 69  | 62  | 57  | 63 | 58 | 53 | 57 | 53 | 50 | 52 | 48 | 46 | 43 |
| 5  | 76  | 65  | 58  | 52  | 72  | 62  | 56  | 50  | 57 | 51 | 47 | 52 | 47 | 44 | 47 | 44 | 41 | 38 |
| 6  | 70  | 59  | 52  | 46  | 67  | 57  | 50  | 45  | 52 | 46 | 42 | 47 | 43 | 39 | 43 | 40 | 37 | 34 |
| 7  | 66  | 54  | 46  | 41  | 62  | 52  | 45  | 40  | 47 | 42 | 38 | 44 | 39 | 35 | 40 | 36 | 33 | 31 |
| 8  | 61  | 49  | 42  | 37  | 58  | 47  | 41  | 36  | 44 | 38 | 34 | 40 | 35 | 32 | 37 | 33 | 30 | 28 |
| 9  | 57  | 45  | 38  | 33  | 54  | 44  | 37  | 32  | 40 | 35 | 31 | 37 | 32 | 29 | 34 | 30 | 27 | 25 |
| 10 | 54  | 42  | 35  | 30  | 51  | 40  | 34  | 30  | 37 | 32 | 28 | 35 | 30 | 27 | 32 | 28 | 25 | 23 |

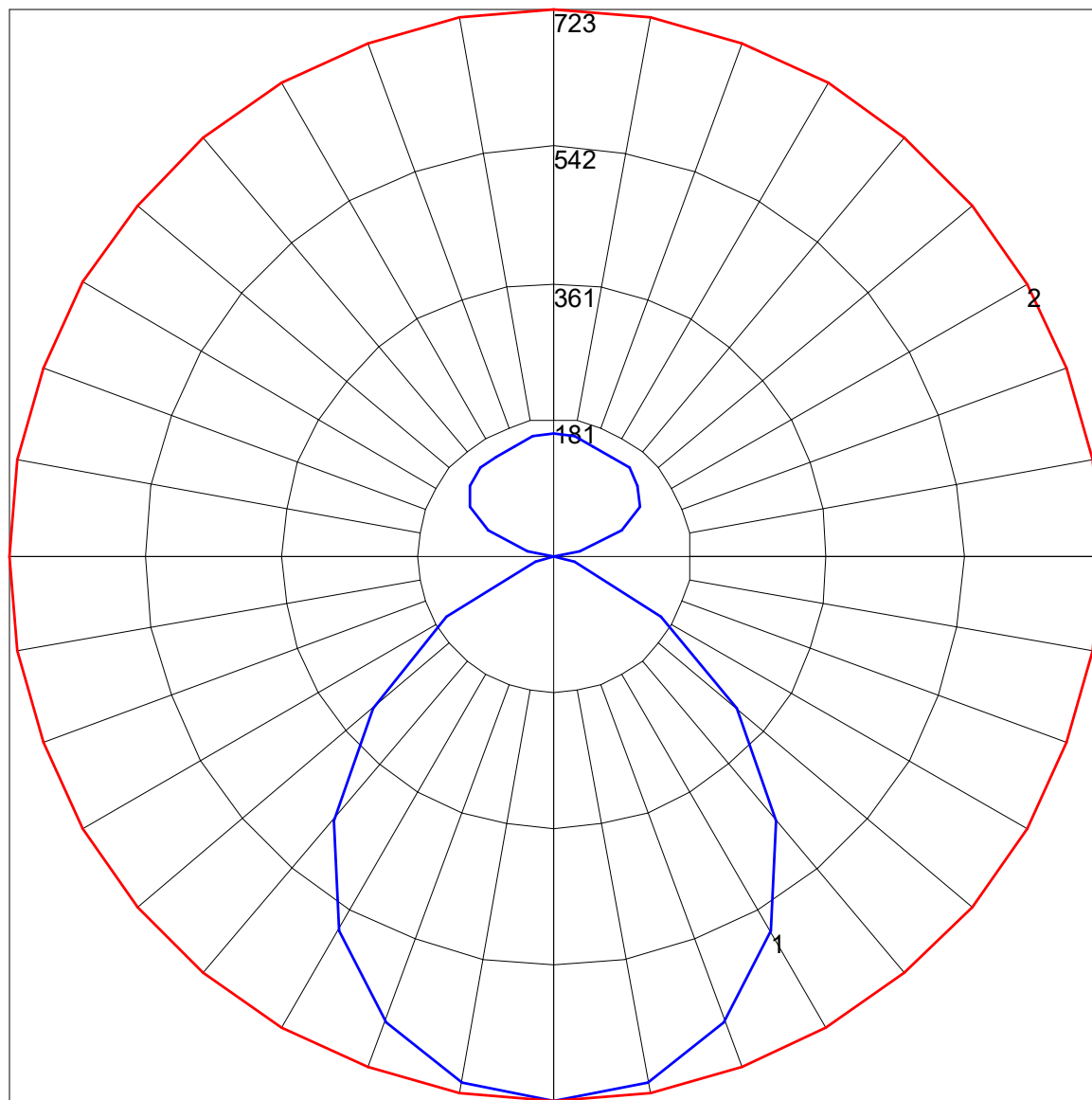
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**UGR TABLE - CORRECTED**

|                |      |                      |      |      |      |      |                    |     |     |     |     |
|----------------|------|----------------------|------|------|------|------|--------------------|-----|-----|-----|-----|
| 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 | 10.0                 | 10.9 | 10.8 | 11.7 | 12.7 | 5.5                | 6.5 | 6.3 | 7.3 | 8.2 |
|                | 3H   | 10.2                 | 11.0 | 11.0 | 11.8 | 12.9 | 5.5                | 6.3 | 6.3 | 7.1 | 8.1 |
|                | 4H   | 10.2                 | 10.9 | 11.0 | 11.8 | 12.8 | 5.4                | 6.2 | 6.2 | 7.0 | 8.0 |
|                | 6H   | 10.1                 | 10.8 | 10.9 | 11.6 | 12.7 | 5.3                | 6.0 | 6.2 | 6.9 | 7.9 |
|                | 8H   | 10.0                 | 10.7 | 10.9 | 11.6 | 12.6 | 5.3                | 5.9 | 6.1 | 6.8 | 7.8 |
|                | 12H  | 10.0                 | 10.6 | 10.8 | 11.5 | 12.5 | 5.2                | 5.8 | 6.1 | 6.7 | 7.7 |
| 4H             | 2H   | 9.8                  | 10.6 | 10.7 | 11.4 | 12.4 | 5.7                | 6.5 | 6.5 | 7.3 | 8.3 |
|                | 3H   | 10.1                 | 10.7 | 10.9 | 11.6 | 12.6 | 5.7                | 6.3 | 6.5 | 7.2 | 8.2 |
|                | 4H   | 10.0                 | 10.6 | 10.9 | 11.5 | 12.5 | 5.6                | 6.2 | 6.5 | 7.0 | 8.1 |
|                | 6H   | 10.0                 | 10.5 | 10.8 | 11.3 | 12.4 | 5.5                | 6.0 | 6.4 | 6.9 | 8.0 |
|                | 8H   | 9.9                  | 10.4 | 10.8 | 11.2 | 12.3 | 5.5                | 5.9 | 6.3 | 6.8 | 7.9 |
|                | 12H  | 9.9                  | 10.2 | 10.7 | 11.1 | 12.2 | 5.4                | 5.8 | 6.3 | 6.7 | 7.8 |
| 8H             | 4H   | 9.9                  | 10.4 | 10.8 | 11.2 | 12.3 | 5.5                | 5.9 | 6.4 | 6.8 | 7.9 |
|                | 6H   | 9.8                  | 10.2 | 10.7 | 11.1 | 12.2 | 5.4                | 5.7 | 6.3 | 6.7 | 7.7 |
|                | 8H   | 9.7                  | 10.1 | 10.7 | 11.0 | 12.1 | 5.3                | 5.6 | 6.2 | 6.6 | 7.7 |
|                | 12H  | 9.7                  | 10.0 | 10.6 | 10.9 | 12.0 | 5.3                | 5.5 | 6.2 | 6.4 | 7.6 |
| 12H            | 4H   | 9.8                  | 10.2 | 10.7 | 11.1 | 12.2 | 5.4                | 5.8 | 6.3 | 6.7 | 7.8 |
|                | 6H   | 9.7                  | 10.1 | 10.7 | 11.0 | 12.1 | 5.3                | 5.6 | 6.2 | 6.5 | 7.7 |
|                | 8H   | 9.7                  | 10.0 | 10.6 | 10.9 | 12.0 | 5.3                | 5.6 | 6.2 | 6.4 | 7.6 |

Maximum UGR = 12.9

POLAR GRAPH



Maximum Candela = 722.706 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.)