



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : SDLRK4-LED-30L-FL-40.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] LED-9678  
[TESTLAB] LSI INDUSTRIES, INC  
[ISSUE DATE] 09/25/19  
[TEST DATE] 02/07/18  
[MANUFACTURER] LSI INDUSTRIES, INC  
[LUMEN CATEGORY] SDLRK4-LED-30L-FL-40  
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.  
[OTHER] TEST PROCEDURE: IESNA LM-79-08  
[SEARCH\_SOURCE TYPE] LED  
[SEARCH\_APPLICATION] Indoor

**CHARACTERISTICS**

|                                 |                     |
|---------------------------------|---------------------|
| Lumens Per Lamp                 | N.A. (absolute)     |
| Total Lamp Lumens               | N.A. (absolute)     |
| Luminaire Lumens                | 3032                |
| Total Luminaire Efficiency      | N.A.                |
| Luminaire Efficacy Rating (LER) | 134                 |
| Total Luminaire Watts           | 22.6                |
| Ballast Factor                  | 1.00                |
| CIE Type                        | Semi-Direct         |
| Spacing Criterion (0-180)       | 1.32                |
| Spacing Criterion (90-270)      | 1.38                |
| Spacing Criterion (Diagonal)    | 1.48                |
| Basic Luminous Shape            | Rectangular w/Sides |
| Luminous Length (0-180)         | 4.00 ft             |
| Luminous Width (90-270)         | 0.25 ft             |
| Luminous Height                 | 0.25 ft             |

**LUMINANCE DATA (cd/sq.m)**

| Angle In<br>Degrees | Average<br>0-Deg | Average<br>45-Deg | Average<br>90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45                  | 7486             | 4872              | 4555              |
| 55                  | 7023             | 4242              | 4077              |
| 65                  | 6350             | 3635              | 3593              |
| 75                  | 5020             | 3047              | 3179              |
| 85                  | 2519             | 2574              | 2819              |

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**CANDELA TABULATION**

|       | <u>0.0</u> | <u>22.5</u> | <u>45.0</u> | <u>67.5</u> | <u>90.0</u> |
|-------|------------|-------------|-------------|-------------|-------------|
| 0.0   | 742        | 742         | 742         | 742         | 742         |
| 2.5   | 760        | 747         | 742         | 736         | 730         |
| 5.0   | 760        | 748         | 742         | 737         | 730         |
| 7.5   | 758        | 746         | 741         | 736         | 729         |
| 10.0  | 756        | 744         | 739         | 735         | 729         |
| 12.5  | 751        | 739         | 735         | 732         | 727         |
| 15.0  | 743        | 733         | 730         | 729         | 724         |
| 17.5  | 734        | 725         | 724         | 724         | 721         |
| 20.0  | 725        | 715         | 717         | 719         | 715         |
| 22.5  | 712        | 705         | 707         | 712         | 710         |
| 25.0  | 697        | 691         | 697         | 704         | 703         |
| 27.5  | 680        | 678         | 685         | 694         | 694         |
| 30.0  | 662        | 661         | 672         | 684         | 684         |
| 32.5  | 643        | 643         | 656         | 671         | 673         |
| 35.0  | 622        | 624         | 640         | 659         | 661         |
| 37.5  | 600        | 603         | 622         | 644         | 647         |
| 40.0  | 576        | 582         | 604         | 628         | 632         |
| 42.5  | 550        | 558         | 583         | 610         | 616         |
| 45.0  | 523        | 533         | 561         | 593         | 599         |
| 47.5  | 496        | 507         | 540         | 575         | 583         |
| 50.0  | 468        | 480         | 516         | 555         | 565         |
| 52.5  | 437        | 453         | 493         | 534         | 546         |
| 55.0  | 408        | 426         | 469         | 513         | 528         |
| 57.5  | 378        | 398         | 445         | 492         | 508         |
| 60.0  | 347        | 370         | 421         | 470         | 487         |
| 62.5  | 316        | 341         | 396         | 447         | 466         |
| 65.0  | 283        | 312         | 373         | 426         | 444         |
| 67.5  | 249        | 282         | 348         | 403         | 423         |
| 70.0  | 217        | 254         | 325         | 382         | 402         |
| 72.5  | 184        | 226         | 302         | 361         | 382         |
| 75.0  | 149        | 200         | 279         | 340         | 362         |
| 77.5  | 118        | 176         | 258         | 319         | 340         |
| 80.0  | 88         | 153         | 238         | 299         | 320         |
| 82.5  | 59         | 131         | 218         | 280         | 302         |
| 85.0  | 35         | 112         | 200         | 262         | 284         |
| 87.5  | 14         | 94          | 183         | 245         | 266         |
| 90.0  | 3          | 79          | 166         | 227         | 250         |
| 92.5  | 1          | 66          | 150         | 210         | 232         |
| 95.0  | 1          | 55          | 136         | 193         | 214         |
| 97.5  | 1          | 46          | 123         | 178         | 198         |
| 100.0 | 1          | 38          | 110         | 163         | 182         |
| 102.5 | 1          | 32          | 99          | 149         | 168         |
| 105.0 | 1          | 26          | 88          | 137         | 155         |
| 107.5 | 1          | 22          | 78          | 125         | 142         |
| 110.0 | 1          | 18          | 69          | 113         | 130         |
| 112.5 | 1          | 15          | 61          | 102         | 118         |
| 115.0 | 1          | 13          | 54          | 92          | 106         |
| 117.5 | 1          | 11          | 47          | 82          | 96          |
| 120.0 | 1          | 9           | 41          | 73          | 86          |
| 122.5 | 1          | 7           | 36          | 65          | 77          |
| 125.0 | 1          | 6           | 31          | 57          | 68          |
| 127.5 | 1          | 5           | 27          | 50          | 60          |
| 130.0 | 1          | 4           | 23          | 43          | 52          |
| 132.5 | 1          | 3           | 19          | 38          | 46          |

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CANDELA TABULATION - (Cont.)

|       |   |   |    |    |    |
|-------|---|---|----|----|----|
| 135.0 | 1 | 2 | 16 | 32 | 39 |
| 137.5 | 1 | 2 | 14 | 27 | 33 |
| 140.0 | 1 | 1 | 11 | 23 | 28 |
| 142.5 | 1 | 1 | 9  | 19 | 23 |
| 145.0 | 1 | 1 | 7  | 16 | 19 |
| 147.5 | 1 | 1 | 5  | 12 | 15 |
| 150.0 | 1 | 1 | 4  | 10 | 12 |
| 152.5 | 1 | 1 | 3  | 7  | 9  |
| 155.0 | 1 | 1 | 2  | 5  | 7  |
| 157.5 | 1 | 1 | 1  | 3  | 4  |
| 160.0 | 1 | 1 | 1  | 2  | 3  |
| 162.5 | 1 | 1 | 1  | 1  | 1  |
| 165.0 | 1 | 1 | 1  | 1  | 1  |
| 167.5 | 1 | 1 | 1  | 1  | 1  |
| 170.0 | 1 | 1 | 1  | 1  | 0  |
| 172.5 | 1 | 1 | 1  | 1  | 1  |
| 175.0 | 1 | 1 | 1  | 1  | 0  |
| 177.5 | 1 | 1 | 1  | 0  | 0  |
| 180.0 | 1 | 1 | 1  | 1  | 1  |

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**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  | %Lamp | %Fixt  |
|---------|---------|-------|--------|
| 0-20    | 277.53  | N.A.  | 9.20   |
| 0-30    | 599.52  | N.A.  | 19.80  |
| 0-40    | 1000.7  | N.A.  | 33.00  |
| 0-60    | 1854.35 | N.A.  | 61.20  |
| 0-80    | 2503.94 | N.A.  | 82.60  |
| 0-90    | 2705.1  | N.A.  | 89.20  |
| 10-90   | 2634.29 | N.A.  | 86.90  |
| 20-40   | 723.17  | N.A.  | 23.90  |
| 20-50   | 1157.21 | N.A.  | 38.20  |
| 40-70   | 1218.59 | N.A.  | 40.20  |
| 60-80   | 649.59  | N.A.  | 21.40  |
| 70-80   | 284.66  | N.A.  | 9.40   |
| 80-90   | 201.15  | N.A.  | 6.60   |
| 90-110  | 222.82  | N.A.  | 7.30   |
| 90-120  | 275.99  | N.A.  | 9.10   |
| 90-130  | 305.27  | N.A.  | 10.10  |
| 90-150  | 324.71  | N.A.  | 10.70  |
| 90-180  | 326.58  | N.A.  | 10.80  |
| 110-180 | 103.75  | N.A.  | 3.40   |
| 0-180   | 3031.67 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens |
|---------|--------|
| 0-10    | 70.81  |
| 10-20   | 206.73 |
| 20-30   | 321.99 |
| 30-40   | 401.18 |
| 40-50   | 434.04 |
| 50-60   | 419.61 |
| 60-70   | 364.93 |
| 70-80   | 284.66 |
| 80-90   | 201.15 |
| 90-100  | 135.15 |
| 100-110 | 87.67  |
| 110-120 | 53.17  |
| 120-130 | 29.28  |
| 130-140 | 13.99  |
| 140-150 | 5.45   |
| 150-160 | 1.48   |
| 160-170 | 0.30   |
| 170-180 | 0.09   |

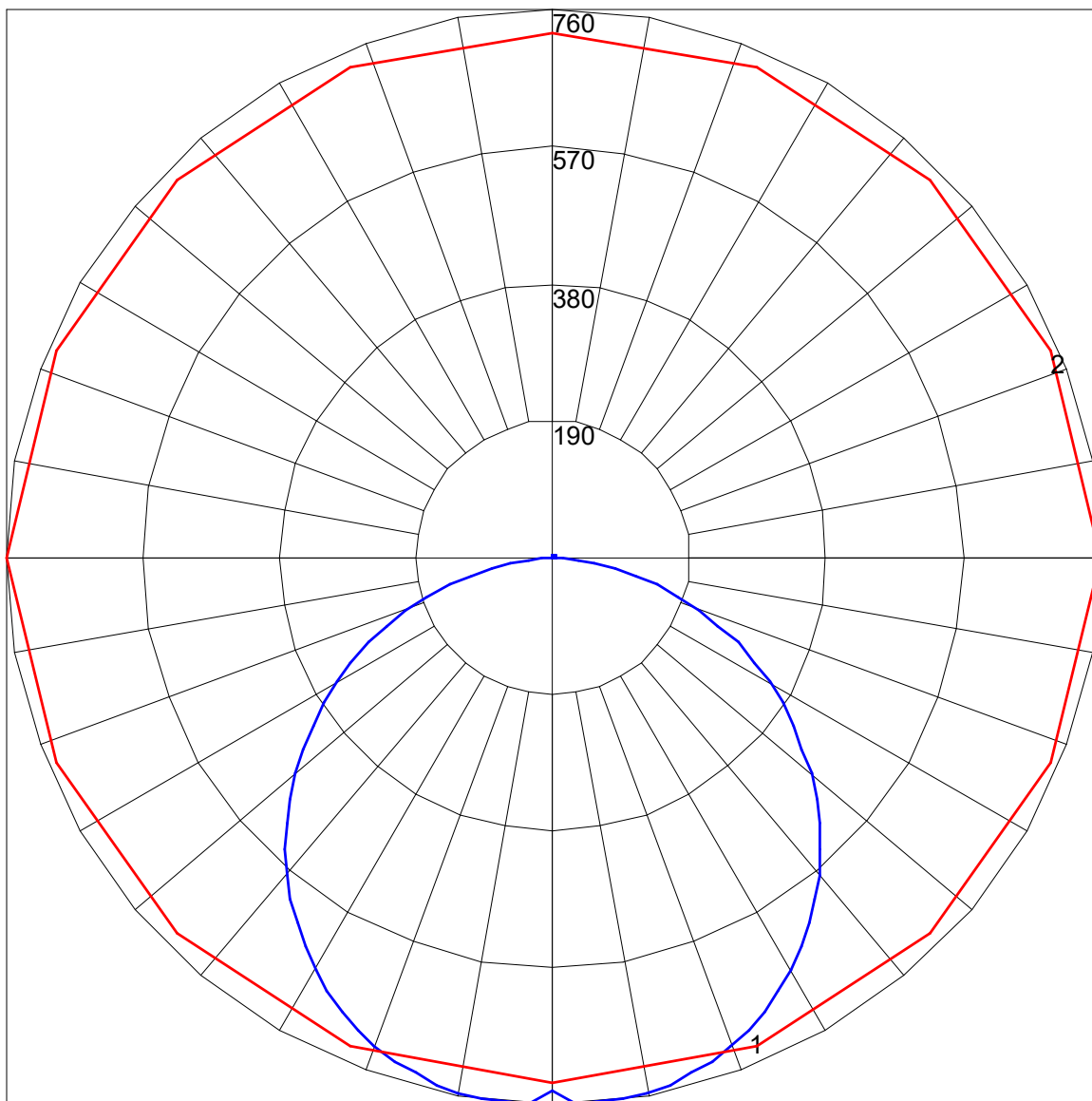
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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  | 116 | 116 | 116 | 116 | 113 | 113 | 113 | 113 | 105 | 105 | 105 | 98 | 98 | 98 | 92 | 92 | 92 | 89 |
| 1  | 104 | 98  | 93  | 88  | 100 | 94  | 90  | 85  | 88  | 84  | 81  | 82 | 79 | 76 | 77 | 75 | 72 | 69 |
| 2  | 93  | 84  | 76  | 70  | 90  | 81  | 74  | 68  | 76  | 70  | 65  | 71 | 66 | 62 | 66 | 62 | 59 | 56 |
| 3  | 85  | 73  | 64  | 57  | 81  | 70  | 62  | 56  | 66  | 59  | 53  | 62 | 56 | 51 | 58 | 53 | 49 | 46 |
| 4  | 77  | 64  | 55  | 47  | 74  | 62  | 53  | 47  | 58  | 51  | 45  | 54 | 48 | 43 | 51 | 46 | 41 | 39 |
| 5  | 71  | 57  | 47  | 40  | 68  | 55  | 46  | 40  | 52  | 44  | 38  | 49 | 42 | 37 | 46 | 40 | 35 | 33 |
| 6  | 65  | 51  | 42  | 35  | 62  | 49  | 41  | 34  | 47  | 39  | 33  | 44 | 37 | 32 | 41 | 35 | 31 | 29 |
| 7  | 60  | 46  | 37  | 31  | 58  | 45  | 36  | 30  | 42  | 35  | 29  | 40 | 33 | 28 | 38 | 32 | 27 | 25 |
| 8  | 56  | 42  | 33  | 27  | 54  | 41  | 32  | 27  | 38  | 31  | 26  | 36 | 30 | 25 | 34 | 29 | 24 | 22 |
| 9  | 52  | 38  | 30  | 24  | 50  | 37  | 29  | 24  | 35  | 28  | 23  | 33 | 27 | 22 | 32 | 26 | 22 | 20 |
| 10 | 49  | 35  | 27  | 22  | 47  | 34  | 27  | 21  | 33  | 26  | 21  | 31 | 25 | 20 | 29 | 24 | 20 | 18 |

POLAR GRAPH



Maximum Candela = 760 Located At Horizontal Angle = 0, Vertical Angle = 2.5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)