



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 88RK-8-LED-SS-835-UE.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LED-12479

[TESTLAB] LSI INDUSTRIES, INC.

[ISSUEDATE] 02/16/21

[TESTDATE] 02/10/21

[MANUFAC] LSI INDUSTRIES, INC.

[LUMCAT] 88RK-8-LED-SS-835-UE

[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

[SEARCH\_COLORTEMP] 3500

### CHARACTERISTICS

|                                 |                     |
|---------------------------------|---------------------|
| Lumens Per Lamp                 | N.A. (absolute)     |
| Total Lamp Lumens               | N.A. (absolute)     |
| Luminaire Lumens                | 6519                |
| Total Luminaire Efficiency      | N.A.                |
| Luminaire Efficacy Rating (LER) | 145                 |
| Total Luminaire Watts           | 45                  |
| Ballast Factor                  | 1.00                |
| CIE Type                        | Direct              |
| Spacing Criterion (0-180)       | 1.34                |
| Spacing Criterion (90-270)      | 1.28                |
| Spacing Criterion (Diagonal)    | 1.38                |
| Basic Luminous Shape            | Rectangular w/Sides |
| Luminous Length (0-180)         | 8.00 ft             |
| Luminous Width (90-270)         | 0.92 ft             |
| Luminous Height                 | 0.13 ft             |



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

| Angle In<br>Degrees | Average<br>0-Deg | Average<br>45-Deg | Average<br>90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45                  | 3116             | 2768              | 2570              |
| 55                  | 2701             | 2305              | 2106              |
| 65                  | 2202             | 1827              | 1718              |
| 75                  | 1777             | 1464              | 1502              |
| 85                  | 1428             | 1208              | 1473              |

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 88RK-8-LED-SS-835-UE.IES**

**CANDELA TABULATION**

|       | <u>0.0</u> | <u>22.5</u> | <u>45.0</u> | <u>67.5</u> | <u>90.0</u> |
|-------|------------|-------------|-------------|-------------|-------------|
| 0.0   | 2270       | 2270        | 2270        | 2270        | 2270        |
| 2.5   | 2308       | 2286        | 2272        | 2258        | 2248        |
| 5.0   | 2308       | 2286        | 2272        | 2258        | 2246        |
| 7.5   | 2306       | 2284        | 2268        | 2252        | 2242        |
| 10.0  | 2300       | 2278        | 2260        | 2244        | 2236        |
| 12.5  | 2286       | 2266        | 2246        | 2232        | 2222        |
| 15.0  | 2272       | 2248        | 2230        | 2214        | 2204        |
| 17.5  | 2248       | 2226        | 2208        | 2192        | 2182        |
| 20.0  | 2222       | 2200        | 2180        | 2160        | 2152        |
| 22.5  | 2188       | 2168        | 2146        | 2124        | 2112        |
| 25.0  | 2150       | 2130        | 2106        | 2078        | 2064        |
| 27.5  | 2102       | 2082        | 2056        | 2028        | 2012        |
| 30.0  | 2046       | 2028        | 1998        | 1968        | 1950        |
| 32.5  | 1982       | 1966        | 1936        | 1898        | 1878        |
| 35.0  | 1906       | 1890        | 1858        | 1820        | 1798        |
| 37.5  | 1828       | 1810        | 1776        | 1734        | 1708        |
| 40.0  | 1736       | 1714        | 1684        | 1642        | 1614        |
| 42.5  | 1630       | 1618        | 1582        | 1542        | 1514        |
| 45.0  | 1526       | 1514        | 1478        | 1438        | 1408        |
| 47.5  | 1418       | 1406        | 1370        | 1330        | 1304        |
| 50.0  | 1308       | 1298        | 1262        | 1216        | 1192        |
| 52.5  | 1194       | 1186        | 1152        | 1110        | 1082        |
| 55.0  | 1080       | 1074        | 1040        | 1006        | 984         |
| 57.5  | 972        | 966         | 936         | 904         | 888         |
| 60.0  | 864        | 854         | 832         | 812         | 800         |
| 62.5  | 754        | 750         | 738         | 726         | 716         |
| 65.0  | 656        | 654         | 648         | 646         | 640         |
| 67.5  | 564        | 566         | 564         | 570         | 570         |
| 70.0  | 480        | 486         | 490         | 504         | 508         |
| 72.5  | 402        | 410         | 424         | 444         | 450         |
| 75.0  | 332        | 344         | 362         | 390         | 400         |
| 77.5  | 270        | 282         | 308         | 342         | 356         |
| 80.0  | 210        | 222         | 258         | 296         | 310         |
| 82.5  | 154        | 168         | 208         | 254         | 268         |
| 85.0  | 100        | 120         | 160         | 208         | 224         |
| 87.5  | 48         | 72          | 118         | 164         | 176         |
| 90.0  | 4          | 32          | 80          | 126         | 138         |
| 92.5  | 0          | 24          | 72          | 114         | 126         |
| 95.0  | 0          | 24          | 70          | 110         | 120         |
| 97.5  | 0          | 24          | 68          | 104         | 114         |
| 100.0 | 0          | 24          | 68          | 100         | 108         |
| 102.5 | 0          | 24          | 66          | 96          | 104         |
| 105.0 | 0          | 24          | 64          | 94          | 100         |
| 107.5 | 0          | 24          | 62          | 90          | 98          |
| 110.0 | 0          | 24          | 60          | 88          | 94          |
| 112.5 | 0          | 24          | 58          | 82          | 92          |
| 115.0 | 0          | 22          | 56          | 80          | 90          |
| 117.5 | 0          | 20          | 54          | 76          | 86          |
| 120.0 | 0          | 20          | 52          | 72          | 80          |
| 122.5 | 0          | 18          | 50          | 70          | 76          |
| 125.0 | 2          | 18          | 48          | 66          | 72          |
| 127.5 | 2          | 16          | 44          | 62          | 68          |
| 130.0 | 2          | 16          | 40          | 58          | 64          |
| 132.5 | 2          | 14          | 36          | 54          | 60          |

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : 88RK-8-LED-SS-835-UE.IES

CANDELA TABULATION - (Cont.)

|       |   |    |    |    |    |
|-------|---|----|----|----|----|
| 135.0 | 2 | 10 | 34 | 50 | 56 |
| 137.5 | 2 | 8  | 30 | 44 | 50 |
| 140.0 | 2 | 4  | 28 | 40 | 46 |
| 142.5 | 2 | 2  | 24 | 36 | 40 |
| 145.0 | 2 | 2  | 22 | 32 | 36 |
| 147.5 | 2 | 2  | 20 | 28 | 32 |
| 150.0 | 2 | 2  | 16 | 24 | 28 |
| 152.5 | 2 | 2  | 12 | 22 | 24 |
| 155.0 | 2 | 2  | 8  | 18 | 20 |
| 157.5 | 2 | 2  | 2  | 14 | 16 |
| 160.0 | 2 | 2  | 2  | 8  | 12 |
| 162.5 | 2 | 2  | 2  | 2  | 6  |
| 165.0 | 2 | 2  | 2  | 2  | 2  |
| 167.5 | 2 | 2  | 2  | 2  | 2  |
| 170.0 | 2 | 2  | 2  | 2  | 2  |
| 172.5 | 2 | 2  | 2  | 2  | 2  |
| 175.0 | 2 | 2  | 2  | 2  | 2  |
| 177.5 | 2 | 2  | 2  | 2  | 2  |
| 180.0 | 2 | 2  | 2  | 2  | 2  |

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 88RK-8-LED-SS-835-UE.IES**

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  | %Lamp | %Fixt  |
|---------|---------|-------|--------|
| 0-20    | 847.21  | N.A.  | 13.00  |
| 0-30    | 1816.5  | N.A.  | 27.90  |
| 0-40    | 2974.42 | N.A.  | 45.60  |
| 0-60    | 5039.85 | N.A.  | 77.30  |
| 0-80    | 6077.14 | N.A.  | 93.20  |
| 0-90    | 6256.2  | N.A.  | 96.00  |
| 10-90   | 6039.57 | N.A.  | 92.60  |
| 20-40   | 2127.21 | N.A.  | 32.60  |
| 20-50   | 3262.56 | N.A.  | 50.00  |
| 40-70   | 2712.45 | N.A.  | 41.60  |
| 60-80   | 1037.28 | N.A.  | 15.90  |
| 70-80   | 390.26  | N.A.  | 6.00   |
| 80-90   | 179.07  | N.A.  | 2.70   |
| 90-110  | 134.16  | N.A.  | 2.10   |
| 90-120  | 184.31  | N.A.  | 2.80   |
| 90-130  | 221.82  | N.A.  | 3.40   |
| 90-150  | 257.50  | N.A.  | 3.90   |
| 90-180  | 262.99  | N.A.  | 4.00   |
| 110-180 | 128.83  | N.A.  | 2.00   |
| 0-180   | 6519.19 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  |
|---------|---------|
| 0-10    | 216.63  |
| 10-20   | 630.58  |
| 20-30   | 969.29  |
| 30-40   | 1157.92 |
| 40-50   | 1135.35 |
| 50-60   | 930.08  |
| 60-70   | 647.02  |
| 70-80   | 390.26  |
| 80-90   | 179.07  |
| 90-100  | 72.81   |
| 100-110 | 61.35   |
| 110-120 | 50.15   |
| 120-130 | 37.51   |
| 130-140 | 23.73   |
| 140-150 | 11.95   |
| 150-160 | 4.56    |
| 160-170 | 0.73    |
| 170-180 | 0.19    |

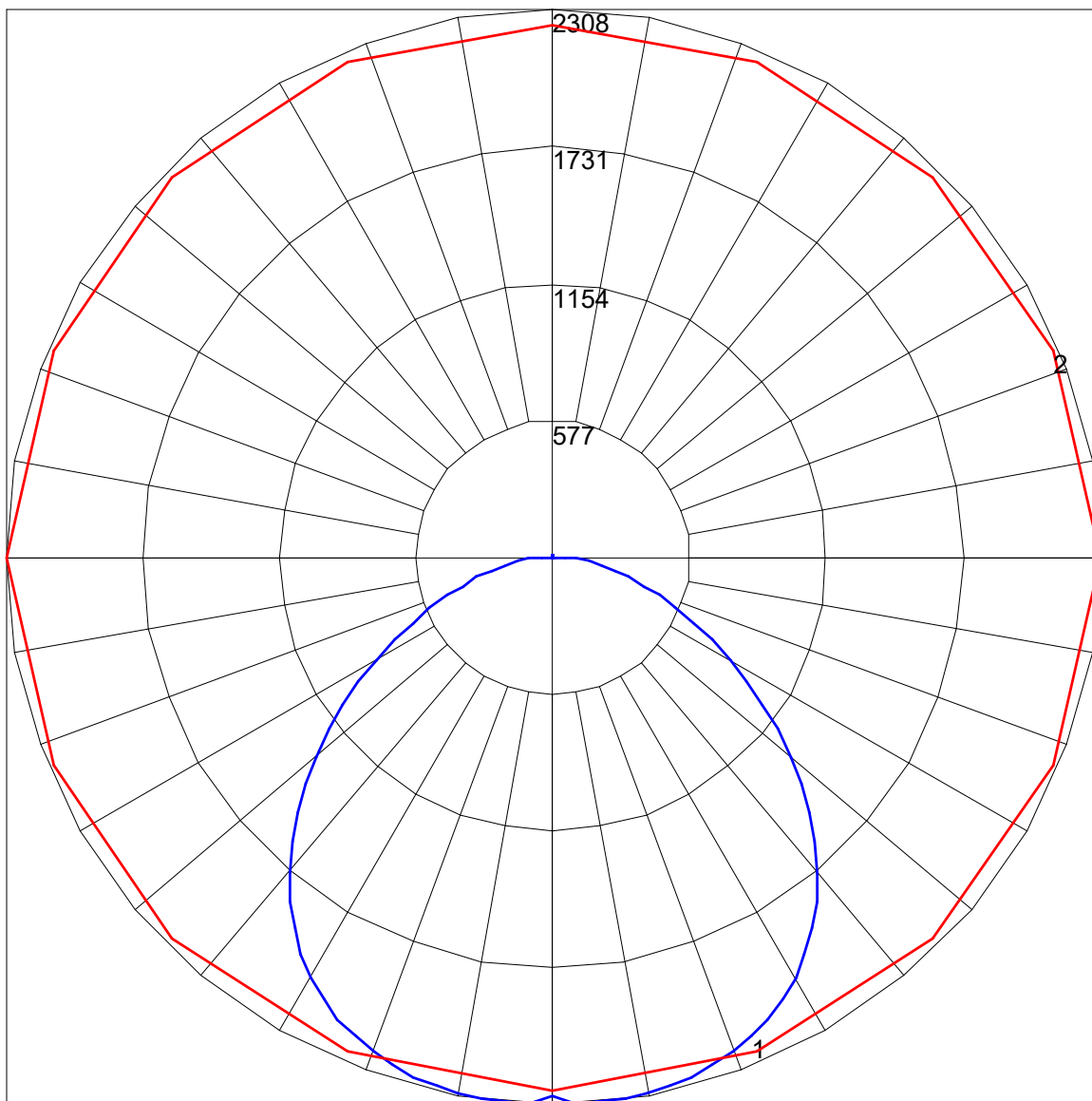
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 88RK-8-LED-SS-835-UE.IES**

**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  | 118 | 118 | 118 | 118 | 115 | 115 | 115 | 115 | 109 | 109 | 109 | 103 | 103 | 103 | 98 | 98 | 98 | 96 |
| 1  | 108 | 103 | 99  | 95  | 105 | 100 | 97  | 93  | 95  | 92  | 89  | 91  | 88  | 86  | 87 | 85 | 83 | 80 |
| 2  | 98  | 90  | 83  | 78  | 95  | 88  | 82  | 77  | 84  | 79  | 74  | 80  | 76  | 72  | 76 | 73 | 70 | 67 |
| 3  | 90  | 80  | 72  | 65  | 87  | 78  | 70  | 64  | 74  | 68  | 63  | 71  | 66  | 61  | 68 | 63 | 60 | 57 |
| 4  | 82  | 71  | 62  | 56  | 80  | 69  | 61  | 55  | 66  | 59  | 54  | 63  | 57  | 53  | 61 | 56 | 51 | 49 |
| 5  | 76  | 63  | 55  | 48  | 74  | 62  | 54  | 48  | 59  | 52  | 47  | 57  | 51  | 46  | 55 | 49 | 45 | 43 |
| 6  | 70  | 57  | 48  | 42  | 68  | 56  | 48  | 42  | 54  | 46  | 41  | 52  | 45  | 40  | 50 | 44 | 40 | 38 |
| 7  | 65  | 52  | 43  | 37  | 63  | 51  | 43  | 37  | 49  | 42  | 36  | 47  | 41  | 36  | 46 | 40 | 35 | 33 |
| 8  | 61  | 47  | 39  | 33  | 59  | 47  | 39  | 33  | 45  | 38  | 33  | 43  | 37  | 32  | 42 | 36 | 32 | 30 |
| 9  | 57  | 44  | 35  | 30  | 55  | 43  | 35  | 30  | 41  | 34  | 29  | 40  | 34  | 29  | 39 | 33 | 29 | 27 |
| 10 | 53  | 40  | 32  | 27  | 52  | 39  | 32  | 27  | 38  | 31  | 27  | 37  | 31  | 26  | 36 | 30 | 26 | 24 |

POLAR GRAPH



Maximum Candela = 2308 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.)