



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : AUL-18L-S-850-R22AW.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] LED-12707  
 [TESTLAB] LSI INDUSTRIES, INC.  
 [ISSUE DATE] 05/25/21  
 [TEST DATE] 04/15/21  
 [MANUFAC] LSI INDUSTRIES, INC.  
 [LUMCAT] AUL-18L-S-850-R22AW  
 [OTHER] SCALED FROM ORIGINAL TEST DATA  
 [ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.  
 [OTHER] TEST PROCEDURE: IESNA LM-79-08  
 [SEARCH\_SOURCETYPE] LED  
 [SEARCH\_APPLICATION] Interior  
 [SEARCH\_COLORTEMP] 5000

**CHARACTERISTICS**

|                                 |                    |
|---------------------------------|--------------------|
| Lumens Per Lamp                 | N.A. (absolute)    |
| Total Lamp Lumens               | N.A. (absolute)    |
| Luminaire Lumens                | 17941              |
| Total Luminaire Efficiency      | N.A.               |
| Luminaire Efficacy Rating (LER) | 162                |
| Total Luminaire Watts           | 111                |
| Ballast Factor                  | 1.00               |
| CIE Type                        | Direct             |
| Spacing Criterion (0-180)       | 1.32               |
| Spacing Criterion (90-270)      | 1.32               |
| Spacing Criterion (Diagonal)    | 1.42               |
| Basic Luminous Shape            | Circular w/ Sides  |
| Luminous Length (0-180)         | 1.83 ft (Diameter) |
| Luminous Width (90-270)         | 1.83 ft (Diameter) |
| Luminous Height                 | 0.67 ft            |



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

| Angle In<br>Degrees | Average<br>0-Deg | Average<br>45-Deg | Average<br>90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45                  | 20130            | 20130             | 19910             |
| 55                  | 10556            | 10509             | 10483             |
| 65                  | 3995             | 4005              | 4024              |
| 75                  | 3266             | 3254              | 3260              |
| 85                  | 1746             | 1753              | 1790              |

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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   | 7199       | 7199        | 7199        | 7199        | 7199        |
| 2.5   | 7210       | 7211        | 7216        | 7219        | 7216        |
| 5.0   | 7241       | 7242        | 7249        | 7249        | 7244        |
| 7.5   | 7262       | 7264        | 7268        | 7267        | 7266        |
| 10.0  | 7265       | 7268        | 7276        | 7274        | 7272        |
| 12.5  | 7230       | 7239        | 7241        | 7248        | 7246        |
| 15.0  | 7157       | 7162        | 7164        | 7165        | 7165        |
| 17.5  | 7064       | 7062        | 7063        | 7070        | 7074        |
| 20.0  | 6954       | 6944        | 6946        | 6965        | 6958        |
| 22.5  | 6815       | 6789        | 6797        | 6815        | 6799        |
| 25.0  | 6664       | 6653        | 6651        | 6660        | 6656        |
| 27.5  | 6534       | 6526        | 6523        | 6528        | 6526        |
| 30.0  | 6395       | 6391        | 6389        | 6388        | 6388        |
| 32.5  | 6237       | 6234        | 6237        | 6233        | 6234        |
| 35.0  | 6068       | 6065        | 6066        | 6062        | 6061        |
| 37.5  | 5891       | 5883        | 5888        | 5884        | 5883        |
| 40.0  | 5706       | 5705        | 5707        | 5709        | 5707        |
| 42.5  | 5507       | 5506        | 5498        | 5511        | 5524        |
| 45.0  | 5112       | 5114        | 5112        | 5096        | 5056        |
| 47.5  | 4491       | 4471        | 4459        | 4448        | 4432        |
| 50.0  | 3723       | 3728        | 3702        | 3676        | 3723        |
| 52.5  | 3035       | 3045        | 3028        | 3005        | 3014        |
| 55.0  | 2469       | 2462        | 2458        | 2473        | 2452        |
| 57.5  | 1846       | 1840        | 1867        | 1872        | 1879        |
| 60.0  | 1189       | 1165        | 1195        | 1213        | 1232        |
| 62.5  | 879        | 881         | 886         | 889         | 883         |
| 65.0  | 826        | 827         | 828         | 830         | 832         |
| 67.5  | 769        | 770         | 771         | 774         | 772         |
| 70.0  | 707        | 707         | 708         | 707         | 710         |
| 72.5  | 639        | 640         | 640         | 637         | 638         |
| 75.0  | 566        | 567         | 564         | 564         | 565         |
| 77.5  | 486        | 487         | 487         | 488         | 488         |
| 80.0  | 406        | 406         | 407         | 408         | 408         |
| 82.5  | 324        | 321         | 323         | 326         | 327         |
| 85.0  | 235        | 236         | 236         | 239         | 241         |
| 87.5  | 148        | 148         | 148         | 149         | 149         |
| 90.0  | 84         | 83          | 82          | 81          | 79          |
| 92.5  | 82         | 82          | 82          | 82          | 82          |
| 95.0  | 85         | 85          | 85          | 85          | 85          |
| 97.5  | 89         | 89          | 89          | 89          | 89          |
| 100.0 | 92         | 92          | 92          | 92          | 92          |
| 102.5 | 95         | 95          | 95          | 95          | 95          |
| 105.0 | 98         | 98          | 98          | 97          | 97          |
| 107.5 | 101        | 100         | 100         | 100         | 100         |
| 110.0 | 103        | 103         | 103         | 103         | 103         |
| 112.5 | 106        | 106         | 106         | 106         | 106         |
| 115.0 | 108        | 108         | 108         | 108         | 108         |
| 117.5 | 110        | 110         | 110         | 110         | 110         |
| 120.0 | 112        | 112         | 112         | 111         | 112         |
| 122.5 | 113        | 113         | 113         | 113         | 113         |
| 125.0 | 115        | 115         | 115         | 115         | 115         |
| 127.5 | 115        | 116         | 115         | 115         | 116         |
| 130.0 | 116        | 116         | 116         | 116         | 116         |
| 132.5 | 118        | 118         | 118         | 117         | 118         |

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**CANDELA TABULATION - (Cont.)**

|              |     |     |     |     |     |
|--------------|-----|-----|-----|-----|-----|
| <b>135.0</b> | 118 | 118 | 118 | 118 | 118 |
| <b>137.5</b> | 119 | 119 | 118 | 118 | 118 |
| <b>140.0</b> | 119 | 119 | 119 | 119 | 119 |
| <b>142.5</b> | 118 | 119 | 119 | 119 | 119 |
| <b>145.0</b> | 118 | 119 | 119 | 118 | 119 |
| <b>147.5</b> | 118 | 118 | 119 | 118 | 118 |
| <b>150.0</b> | 117 | 118 | 118 | 118 | 118 |
| <b>152.5</b> | 116 | 116 | 116 | 116 | 116 |
| <b>155.0</b> | 115 | 115 | 115 | 115 | 115 |
| <b>157.5</b> | 114 | 113 | 113 | 113 | 113 |
| <b>160.0</b> | 113 | 112 | 112 | 112 | 112 |
| <b>162.5</b> | 112 | 111 | 110 | 110 | 110 |
| <b>165.0</b> | 109 | 108 | 108 | 107 | 107 |
| <b>167.5</b> | 106 | 105 | 105 | 104 | 104 |
| <b>170.0</b> | 103 | 103 | 102 | 102 | 102 |
| <b>172.5</b> | 100 | 100 | 100 | 100 | 100 |
| <b>175.0</b> | 96  | 97  | 98  | 98  | 98  |
| <b>177.5</b> | 93  | 93  | 95  | 95  | 95  |
| <b>180.0</b> | 90  | 90  | 90  | 90  | 90  |

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**ZONAL LUMEN SUMMARY**

| Zone    | Lumens   | %Lamp | %Fixt  |
|---------|----------|-------|--------|
| 0-20    | 2713.17  | N.A.  | 15.10  |
| 0-30    | 5790.15  | N.A.  | 32.30  |
| 0-40    | 9587.52  | N.A.  | 53.40  |
| 0-60    | 15572.28 | N.A.  | 86.80  |
| 0-80    | 17015.99 | N.A.  | 94.80  |
| 0-90    | 17275.75 | N.A.  | 96.30  |
| 10-90   | 16583.37 | N.A.  | 92.40  |
| 20-40   | 6874.35  | N.A.  | 38.30  |
| 20-50   | 10681.76 | N.A.  | 59.50  |
| 40-70   | 6834.94  | N.A.  | 38.10  |
| 60-80   | 1443.71  | N.A.  | 8.00   |
| 70-80   | 593.53   | N.A.  | 3.30   |
| 80-90   | 259.76   | N.A.  | 1.40   |
| 90-110  | 196.70   | N.A.  | 1.10   |
| 90-120  | 303.69   | N.A.  | 1.70   |
| 90-130  | 406.21   | N.A.  | 2.30   |
| 90-150  | 571.98   | N.A.  | 3.20   |
| 90-180  | 665.27   | N.A.  | 3.70   |
| 110-180 | 468.57   | N.A.  | 2.60   |
| 0-180   | 17941.02 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  |
|---------|---------|
| 0-10    | 692.39  |
| 10-20   | 2020.78 |
| 20-30   | 3076.98 |
| 30-40   | 3797.37 |
| 40-50   | 3807.41 |
| 50-60   | 2177.35 |
| 60-70   | 850.18  |
| 70-80   | 593.53  |
| 80-90   | 259.76  |
| 90-100  | 93.53   |
| 100-110 | 103.17  |
| 110-120 | 106.99  |
| 120-130 | 102.52  |
| 130-140 | 91.29   |
| 140-150 | 74.49   |
| 150-160 | 53.21   |
| 160-170 | 30.64   |
| 170-180 | 9.44    |

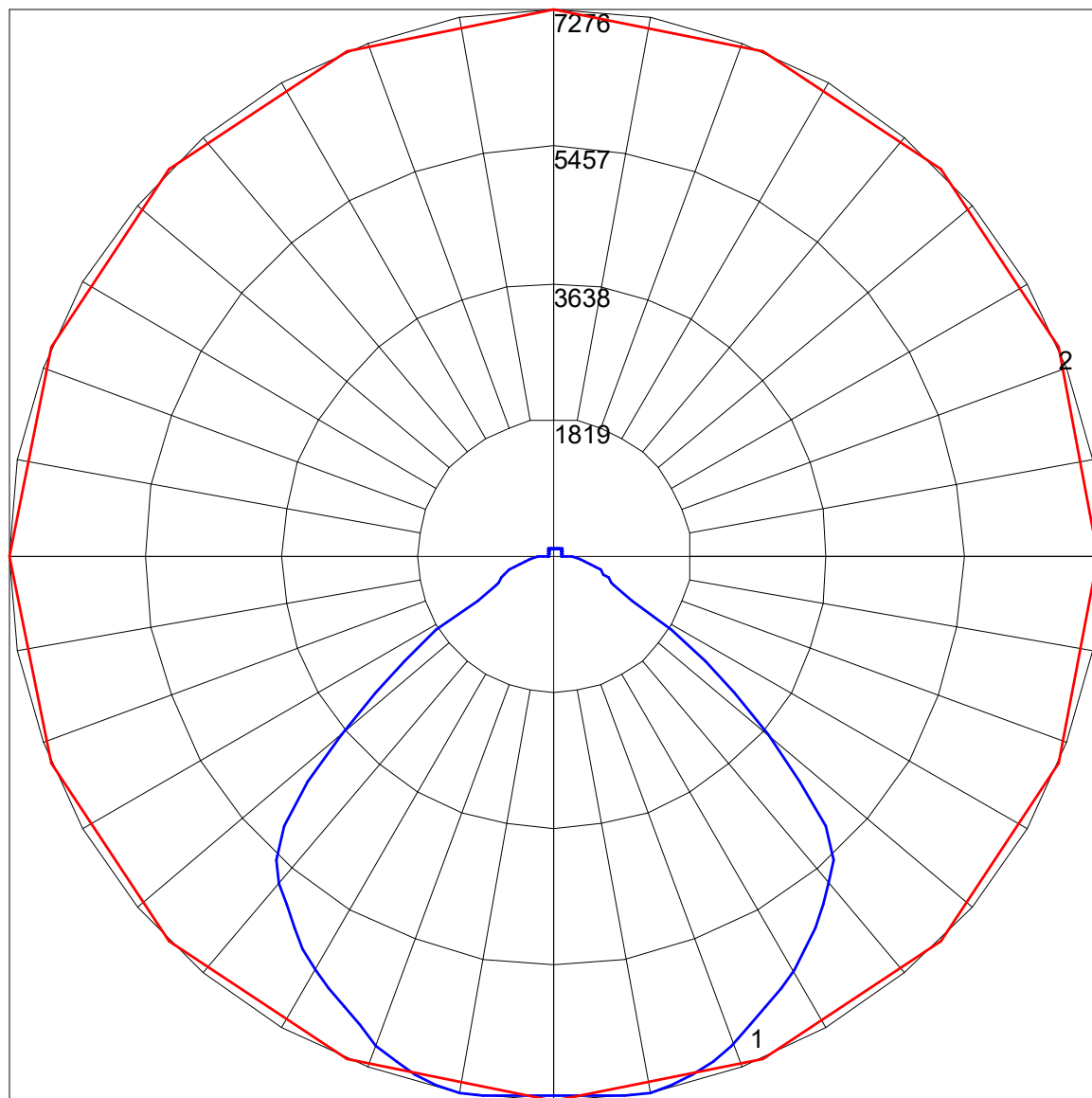
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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  | 118 | 118 | 118 | 118 | 115 | 115 | 115 | 115 | 109 | 109 | 109 | 104 | 104 | 104 | 99 | 99 | 99 | 96 |
| 1  | 109 | 105 | 102 | 98  | 106 | 103 | 99  | 96  | 98  | 95  | 93  | 93  | 91  | 89  | 89 | 88 | 86 | 84 |
| 2  | 101 | 94  | 88  | 83  | 98  | 92  | 86  | 82  | 88  | 83  | 79  | 84  | 80  | 77  | 80 | 77 | 75 | 72 |
| 3  | 93  | 84  | 77  | 71  | 90  | 82  | 75  | 70  | 79  | 73  | 68  | 75  | 71  | 67  | 73 | 69 | 65 | 63 |
| 4  | 86  | 75  | 67  | 61  | 83  | 74  | 66  | 61  | 71  | 65  | 60  | 68  | 63  | 58  | 66 | 61 | 57 | 55 |
| 5  | 79  | 68  | 60  | 54  | 77  | 67  | 59  | 53  | 64  | 57  | 52  | 62  | 56  | 51  | 60 | 55 | 51 | 49 |
| 6  | 74  | 61  | 53  | 47  | 72  | 60  | 53  | 47  | 58  | 51  | 46  | 56  | 50  | 46  | 54 | 49 | 45 | 43 |
| 7  | 69  | 56  | 48  | 42  | 67  | 55  | 47  | 42  | 53  | 46  | 41  | 52  | 45  | 41  | 50 | 45 | 40 | 38 |
| 8  | 64  | 51  | 43  | 38  | 62  | 50  | 43  | 38  | 49  | 42  | 37  | 47  | 41  | 37  | 46 | 40 | 36 | 35 |
| 9  | 60  | 47  | 39  | 34  | 58  | 46  | 39  | 34  | 45  | 38  | 34  | 44  | 38  | 33  | 42 | 37 | 33 | 31 |
| 10 | 56  | 44  | 36  | 31  | 55  | 43  | 36  | 31  | 42  | 35  | 31  | 41  | 35  | 30  | 39 | 34 | 30 | 28 |

POLAR GRAPH



Maximum Candela = 7276 Located At Horizontal Angle = 45, Vertical Angle = 10  
# 1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (10) (Through Max. Cd.)