



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : SFP24-LED-FS2-55W-4000K.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] LED-12981  
[TESTLAB] LSI INDUSTRIES, INC.  
[ISSUEDATE] 03/22/22  
[TESTDATE] 10/01/21  
[MANUFAC] LSI INDUSTRIES, INC.  
[LUMCAT] SFP24-LED-FS2-55W-4000K  
[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] 4000

### CHARACTERISTICS

|                                 |                 |
|---------------------------------|-----------------|
| Lumens Per Lamp                 | N.A. (absolute) |
| Total Lamp Lumens               | N.A. (absolute) |
| Luminaire Lumens                | 6616            |
| Total Luminaire Efficiency      | N.A.            |
| Luminaire Efficacy Rating (LER) | 123             |
| Total Luminaire Watts           | 54              |
| Ballast Factor                  | 1.00            |
| CIE Type                        | Direct          |
| Spacing Criterion (0-180)       | 1.34            |
| Spacing Criterion (90-270)      | 1.36            |
| Spacing Criterion (Diagonal)    | 1.46            |
| Basic Luminous Shape            | Rectangular     |
| Luminous Length (0-180)         | 4.00 ft         |
| Luminous Width (90-270)         | 2.00 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                  | 2956             | 2956              | 2950              |
| 55                  | 2901             | 2901              | 2913              |
| 65                  | 2758             | 2758              | 2732              |
| 75                  | 2446             | 2415              | 2410              |
| 85                  | 1990             | 1928              | 1835              |

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**CANDELA TABULATION**

|             | <u><b>0.0</b></u> | <u><b>22.5</b></u> | <u><b>45.0</b></u> | <u><b>67.5</b></u> | <u><b>90.0</b></u> |
|-------------|-------------------|--------------------|--------------------|--------------------|--------------------|
| <b>0.0</b>  | 2093              | 2093               | 2093               | 2093               | 2093               |
| <b>2.5</b>  | 2109              | 2107               | 2099               | 2090               | 2091               |
| <b>5.0</b>  | 2110              | 2107               | 2099               | 2091               | 2091               |
| <b>7.5</b>  | 2107              | 2106               | 2096               | 2090               | 2090               |
| <b>10.0</b> | 2101              | 2099               | 2090               | 2084               | 2087               |
| <b>12.5</b> | 2090              | 2090               | 2083               | 2075               | 2078               |
| <b>15.0</b> | 2075              | 2075               | 2067               | 2064               | 2065               |
| <b>17.5</b> | 2058              | 2058               | 2049               | 2046               | 2049               |
| <b>20.0</b> | 2035              | 2035               | 2030               | 2026               | 2028               |
| <b>22.5</b> | 2007              | 2007               | 2003               | 2001               | 2003               |
| <b>25.0</b> | 1974              | 1974               | 1972               | 1971               | 1972               |
| <b>27.5</b> | 1936              | 1941               | 1936               | 1936               | 1938               |
| <b>30.0</b> | 1897              | 1899               | 1897               | 1896               | 1899               |
| <b>32.5</b> | 1851              | 1854               | 1854               | 1849               | 1855               |
| <b>35.0</b> | 1801              | 1803               | 1803               | 1800               | 1803               |
| <b>37.5</b> | 1746              | 1748               | 1748               | 1743               | 1745               |
| <b>40.0</b> | 1687              | 1688               | 1690               | 1683               | 1683               |
| <b>42.5</b> | 1622              | 1626               | 1626               | 1617               | 1619               |
| <b>45.0</b> | 1555              | 1558               | 1555               | 1549               | 1552               |
| <b>47.5</b> | 1478              | 1483               | 1481               | 1478               | 1480               |
| <b>50.0</b> | 1401              | 1406               | 1404               | 1401               | 1406               |
| <b>52.5</b> | 1322              | 1322               | 1323               | 1322               | 1326               |
| <b>55.0</b> | 1238              | 1235               | 1238               | 1238               | 1243               |
| <b>57.5</b> | 1145              | 1148               | 1148               | 1151               | 1155               |
| <b>60.0</b> | 1055              | 1057               | 1057               | 1059               | 1059               |
| <b>62.5</b> | 962               | 964                | 964                | 962                | 964                |
| <b>65.0</b> | 867               | 868                | 867                | 859                | 859                |
| <b>67.5</b> | 770               | 771                | 764                | 761                | 761                |
| <b>70.0</b> | 667               | 670                | 664                | 661                | 659                |
| <b>72.5</b> | 568               | 571                | 565                | 561                | 561                |
| <b>75.0</b> | 471               | 467                | 465                | 464                | 464                |
| <b>77.5</b> | 372               | 374                | 372                | 368                | 371                |
| <b>80.0</b> | 284               | 284                | 281                | 280                | 281                |
| <b>82.5</b> | 203               | 203                | 199                | 197                | 193                |
| <b>85.0</b> | 129               | 128                | 125                | 119                | 119                |
| <b>87.5</b> | 64                | 61                 | 59                 | 57                 | 57                 |
| <b>90.0</b> | 0                 | 0                  | 0                  | 0                  | 0                  |

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**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  | %Lamp | %Fixt  |
|---------|---------|-------|--------|
| 0-20    | 784.96  | N.A.  | 11.90  |
| 0-30    | 1694.78 | N.A.  | 25.60  |
| 0-40    | 2821.79 | N.A.  | 42.60  |
| 0-60    | 5124.61 | N.A.  | 77.50  |
| 0-80    | 6473.84 | N.A.  | 97.80  |
| 0-90    | 6616.28 | N.A.  | 100.00 |
| 10-90   | 6416.13 | N.A.  | 97.00  |
| 20-40   | 2036.83 | N.A.  | 30.80  |
| 20-50   | 3234.53 | N.A.  | 48.90  |
| 40-70   | 3157.43 | N.A.  | 47.70  |
| 60-80   | 1349.23 | N.A.  | 20.40  |
| 70-80   | 494.62  | N.A.  | 7.50   |
| 80-90   | 142.44  | N.A.  | 2.20   |
| 90-110  | 0.00    | N.A.  | 0.00   |
| 90-120  | 0.00    | N.A.  | 0.00   |
| 90-130  | 0.00    | N.A.  | 0.00   |
| 90-150  | 0.00    | N.A.  | 0.00   |
| 90-180  | 0.00    | N.A.  | 0.00   |
| 110-180 | 0.00    | N.A.  | 0.00   |
| 0-180   | 6616.28 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  |
|---------|---------|
| 0-10    | 200.15  |
| 10-20   | 584.81  |
| 20-30   | 909.82  |
| 30-40   | 1127.01 |
| 40-50   | 1197.7  |
| 50-60   | 1105.12 |
| 60-70   | 854.61  |
| 70-80   | 494.62  |
| 80-90   | 142.44  |
| 90-100  | 0.00    |
| 100-110 | 0.00    |
| 110-120 | 0.00    |
| 120-130 | 0.00    |
| 130-140 | 0.00    |
| 140-150 | 0.00    |
| 150-160 | 0.00    |
| 160-170 | 0.00    |
| 170-180 | 0.00    |

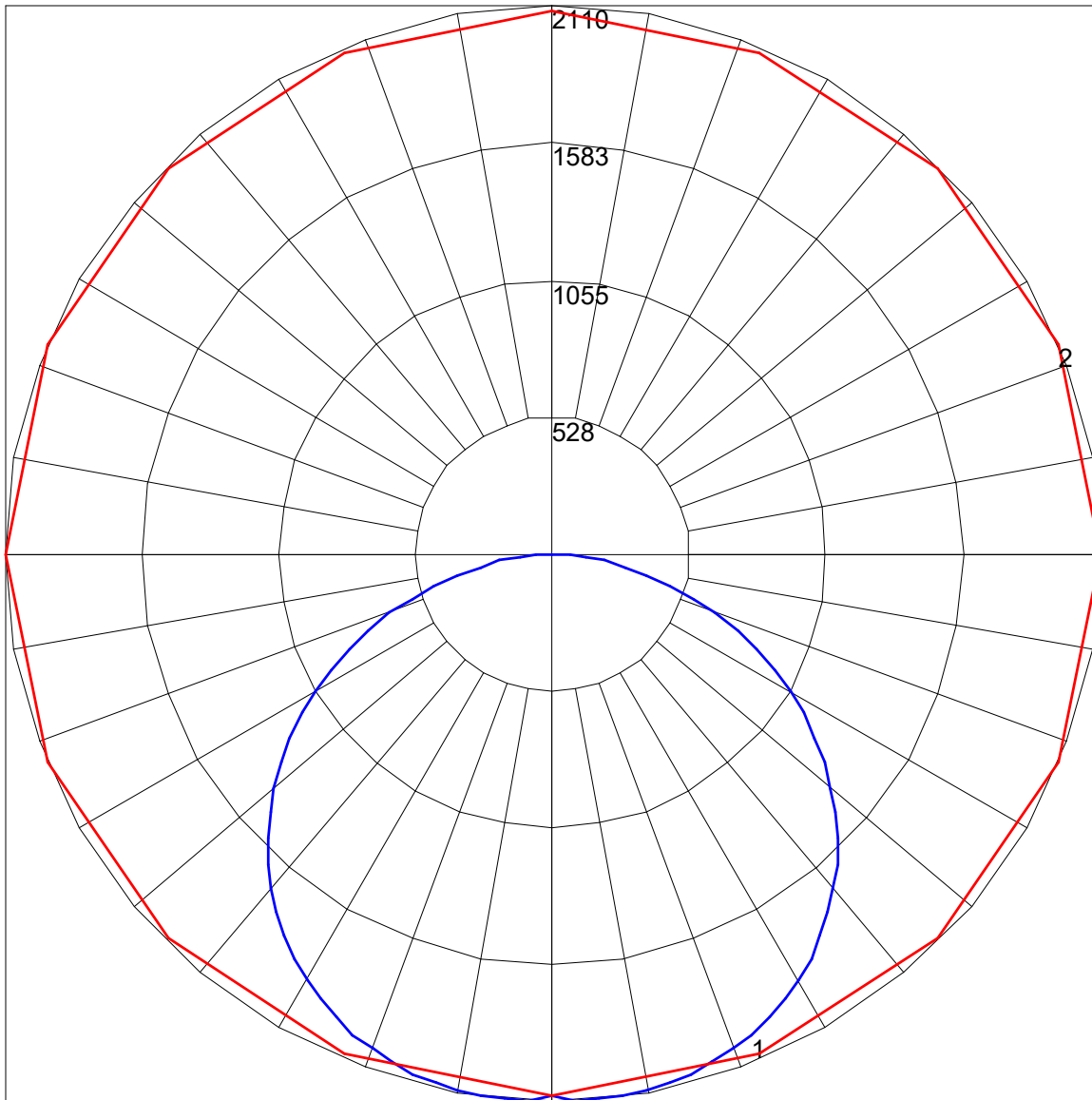
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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  | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1  | 108 | 103 | 99  | 95  | 106 | 101 | 97  | 93  | 97  | 94  | 91  | 93  | 90  | 88  | 89  | 87  | 85  | 83  |
| 2  | 98  | 90  | 83  | 77  | 96  | 88  | 81  | 76  | 84  | 79  | 74  | 81  | 76  | 72  | 78  | 74  | 71  | 69  |
| 3  | 89  | 79  | 70  | 63  | 87  | 77  | 69  | 63  | 74  | 67  | 62  | 71  | 65  | 61  | 69  | 64  | 60  | 57  |
| 4  | 82  | 69  | 60  | 53  | 79  | 68  | 60  | 53  | 65  | 58  | 52  | 63  | 57  | 52  | 61  | 55  | 51  | 49  |
| 5  | 75  | 62  | 53  | 46  | 73  | 61  | 52  | 46  | 58  | 51  | 45  | 56  | 50  | 44  | 55  | 49  | 44  | 42  |
| 6  | 69  | 55  | 46  | 40  | 67  | 54  | 46  | 40  | 53  | 45  | 39  | 51  | 44  | 39  | 49  | 43  | 38  | 36  |
| 7  | 64  | 50  | 41  | 35  | 62  | 49  | 41  | 35  | 48  | 40  | 35  | 46  | 39  | 34  | 45  | 39  | 34  | 32  |
| 8  | 59  | 46  | 37  | 31  | 58  | 45  | 37  | 31  | 44  | 36  | 31  | 42  | 36  | 31  | 41  | 35  | 30  | 28  |
| 9  | 56  | 42  | 34  | 28  | 54  | 41  | 33  | 28  | 40  | 33  | 28  | 39  | 32  | 27  | 38  | 32  | 27  | 25  |
| 10 | 52  | 39  | 31  | 25  | 51  | 38  | 30  | 25  | 37  | 30  | 25  | 36  | 30  | 25  | 35  | 29  | 25  | 23  |

POLAR GRAPH



Maximum Candela = 2110 Located At Horizontal Angle = 0, Vertical Angle = 5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)