

# Day-Brite



by Signify

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : FSI8140L850-UNV-DIM.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] FO43936P7.PSO

[TESTLAB] DAY-BRITE PHOTOMETRIC LABORATORY

[ISSUE DATE] 7/20/2022

[MANUFAC] DAY-BRITE CFI by SIGNIFY

[LUMCAT] FSI8140L850-UNV-DIM

[LUMINAIRE] 8' FLUXSTREAM INDUSTRIAL 4-FLS VO+TvS LV2E 850 BOARDS, 2xXI050C140V054BST1 1168mA 277V, FSI D

### CHARACTERISTICS

|                                 |                     |
|---------------------------------|---------------------|
| Lumens Per Lamp                 | N.A. (absolute)     |
| Total Lamp Lumens               | N.A. (absolute)     |
| Luminaire Lumens                | 14124               |
| Total Luminaire Efficiency      | N.A.                |
| Luminaire Efficacy Rating (LER) | 134                 |
| Total Luminaire Watts           | 105.5               |
| Ballast Factor                  | 1.00                |
| CIE Type                        | Semi-Direct         |
| Spacing Criterion (0-180)       | 1.26                |
| Spacing Criterion (90-270)      | 1.30                |
| Spacing Criterion (Diagonal)    | 1.40                |
| Basic Luminous Shape            | Rectangular w/Sides |
| Luminous Length (0-180)         | 7.50 ft             |
| Luminous Width (90-270)         | 0.35 ft             |
| Luminous Height                 | 0.10 ft             |



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

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|------------------|---------------|----------------|----------------|
| 45               | 15601         | 13400          | 12860          |
| 55               | 14966         | 12171          | 11670          |
| 65               | 13826         | 10576          | 10202          |
| 75               | 11509         | 8344           | 8272           |
| 85               | 6032          | 5548           | 6177           |

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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> |
|--------------|------------|-------------|-------------|-------------|-------------|
| <b>0.0</b>   | 4126.036   | 4126.036    | 4126.036    | 4126.036    | 4126.036    |
| <b>2.5</b>   | 4064.044   | 4109.021    | 4124.244    | 4139.497    | 4159.657    |
| <b>5.0</b>   | 4051.400   | 4093.637    | 4111.931    | 4128.468    | 4145.849    |
| <b>7.5</b>   | 4027.758   | 4071.179    | 4089.804    | 4106.171    | 4124.956    |
| <b>10.0</b>  | 3997.603   | 4040.221    | 4057.441    | 4075.143    | 4097.380    |
| <b>12.5</b>  | 3956.731   | 3998.707    | 4017.532    | 4038.305    | 4058.625    |
| <b>15.0</b>  | 3907.098   | 3947.970    | 3970.699    | 3987.498    | 4008.541    |
| <b>17.5</b>  | 3848.594   | 3890.550    | 3910.941    | 3929.105    | 3950.399    |
| <b>20.0</b>  | 3802.123   | 3820.808    | 3842.844    | 3862.212    | 3887.771    |
| <b>22.5</b>  | 3732.862   | 3771.155    | 3790.583    | 3802.634    | 3818.369    |
| <b>25.0</b>  | 3648.598   | 3686.731    | 3712.451    | 3732.109    | 3753.714    |
| <b>27.5</b>  | 3556.367   | 3594.791    | 3619.909    | 3641.905    | 3663.470    |
| <b>30.0</b>  | 3457.714   | 3494.352    | 3523.112    | 3544.436    | 3566.061    |
| <b>32.5</b>  | 3353.040   | 3386.757    | 3419.601    | 3442.501    | 3458.065    |
| <b>35.0</b>  | 3240.719   | 3274.747    | 3307.060    | 3328.785    | 3348.845    |
| <b>37.5</b>  | 3120.661   | 3155.011    | 3185.988    | 3211.979    | 3233.022    |
| <b>40.0</b>  | 2994.823   | 3029.373    | 3062.489    | 3091.178    | 3110.455    |
| <b>42.5</b>  | 2864.720   | 2896.962    | 2935.376    | 2963.735    | 2984.005    |
| <b>45.0</b>  | 2728.777   | 2762.444    | 2802.012    | 2833.090    | 2853.953    |
| <b>47.5</b>  | 2588.097   | 2622.467    | 2661.824    | 2698.662    | 2720.448    |
| <b>50.0</b>  | 2442.240   | 2476.790    | 2518.917    | 2558.996    | 2582.899    |
| <b>52.5</b>  | 2291.987   | 2326.116    | 2371.223    | 2417.725    | 2443.735    |
| <b>55.0</b>  | 2135.211   | 2169.802    | 2218.601    | 2273.663    | 2300.677    |
| <b>57.5</b>  | 1972.443   | 2010.232    | 2063.251    | 2125.698    | 2153.324    |
| <b>60.0</b>  | 1806.991   | 1846.476    | 1906.050    | 1975.915    | 2002.991    |
| <b>62.5</b>  | 1638.786   | 1678.837    | 1746.577    | 1822.507    | 1849.770    |
| <b>65.0</b>  | 1467.108   | 1507.547    | 1585.855    | 1666.508    | 1697.351    |
| <b>67.5</b>  | 1292.536   | 1334.559    | 1423.862    | 1508.606    | 1541.535    |
| <b>70.0</b>  | 1116.155   | 1160.421    | 1260.483    | 1351.116    | 1386.184    |
| <b>72.5</b>  | 939.321    | 987.724     | 1100.063    | 1196.119    | 1231.034    |
| <b>75.0</b>  | 763.313    | 818.790     | 943.193     | 1043.883    | 1079.876    |
| <b>77.5</b>  | 591.175    | 655.692     | 791.587     | 895.394     | 933.128     |
| <b>80.0</b>  | 427.492    | 503.653     | 646.793     | 756.007     | 795.061     |
| <b>82.5</b>  | 276.685    | 365.137     | 515.303     | 629.087     | 670.337     |
| <b>85.0</b>  | 147.881    | 246.923     | 403.308     | 518.438     | 560.617     |
| <b>87.5</b>  | 51.945     | 159.951     | 317.844     | 432.002     | 472.848     |
| <b>90.0</b>  | 5.664      | 117.820     | 267.206     | 375.609     | 413.463     |
| <b>92.5</b>  | 8.425      | 114.288     | 248.906     | 348.069     | 383.160     |
| <b>95.0</b>  | 18.498     | 122.041     | 248.146     | 340.734     | 373.679     |
| <b>97.5</b>  | 32.072     | 132.200     | 254.219     | 341.609     | 372.972     |
| <b>100.0</b> | 45.976     | 142.677     | 262.793     | 347.094     | 377.528     |
| <b>102.5</b> | 58.873     | 152.840     | 271.858     | 354.996     | 384.593     |
| <b>105.0</b> | 71.111     | 162.913     | 280.410     | 362.893     | 391.898     |
| <b>107.5</b> | 83.284     | 172.452     | 288.665     | 369.933     | 398.987     |
| <b>110.0</b> | 95.171     | 180.302     | 296.522     | 375.924     | 404.883     |
| <b>112.5</b> | 106.677    | 183.109     | 303.135     | 381.753     | 410.164     |
| <b>115.0</b> | 117.461    | 179.589     | 307.711     | 386.164     | 413.897     |
| <b>117.5</b> | 127.666    | 174.074     | 308.435     | 390.144     | 417.288     |
| <b>120.0</b> | 137.250    | 168.900     | 307.081     | 394.005     | 420.309     |
| <b>122.5</b> | 146.554    | 164.567     | 304.090     | 396.588     | 421.796     |
| <b>125.0</b> | 155.417    | 163.198     | 300.319     | 398.710     | 422.404     |
| <b>127.5</b> | 163.720    | 166.377     | 293.927     | 398.864     | 422.816     |
| <b>130.0</b> | 171.421    | 169.927     | 281.247     | 393.925     | 421.358     |
| <b>132.5</b> | 182.084    | 177.739     | 267.069     | 385.337     | 419.388     |

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**CANDELA TABULATION - (Cont.)**

|              |         |         |         |         |         |
|--------------|---------|---------|---------|---------|---------|
| <b>135.0</b> | 197.861 | 188.853 | 252.758 | 372.573 | 417.080 |
| <b>137.5</b> | 214.482 | 202.701 | 239.791 | 350.687 | 409.840 |
| <b>140.0</b> | 230.807 | 218.456 | 228.828 | 325.800 | 393.469 |
| <b>142.5</b> | 246.903 | 235.345 | 222.342 | 300.468 | 373.008 |
| <b>145.0</b> | 262.867 | 252.214 | 224.351 | 276.902 | 352.950 |
| <b>147.5</b> | 278.519 | 269.165 | 228.989 | 255.937 | 333.974 |
| <b>150.0</b> | 293.512 | 285.793 | 237.045 | 240.656 | 316.489 |
| <b>152.5</b> | 308.120 | 301.746 | 249.446 | 232.995 | 305.270 |
| <b>155.0</b> | 322.575 | 316.917 | 266.891 | 230.548 | 298.830 |
| <b>157.5</b> | 336.501 | 330.795 | 287.629 | 233.952 | 293.084 |
| <b>160.0</b> | 349.159 | 344.210 | 308.514 | 247.008 | 291.093 |
| <b>162.5</b> | 361.173 | 357.348 | 327.977 | 264.527 | 295.005 |
| <b>165.0</b> | 371.547 | 369.634 | 345.368 | 281.885 | 276.265 |
| <b>167.5</b> | 380.691 | 379.999 | 361.079 | 299.587 | 234.813 |
| <b>170.0</b> | 387.743 | 389.797 | 374.477 | 316.927 | 201.020 |
| <b>172.5</b> | 394.585 | 398.985 | 387.137 | 331.592 | 195.223 |
| <b>175.0</b> | 400.841 | 406.728 | 397.170 | 344.784 | 200.066 |
| <b>177.5</b> | 402.830 | 411.004 | 403.819 | 354.040 | 203.570 |
| <b>180.0</b> | 369.861 | 369.861 | 369.861 | 369.861 | 369.861 |

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**ZONAL LUMEN SUMMARY**

| Zone    | Lumens   | %Lamp | %Fixt  |
|---------|----------|-------|--------|
| 0-20    | 1509.75  | N.A.  | 10.70  |
| 0-30    | 3216.77  | N.A.  | 22.80  |
| 0-40    | 5282.01  | N.A.  | 37.40  |
| 0-60    | 9423.77  | N.A.  | 66.70  |
| 0-80    | 11979.62 | N.A.  | 84.80  |
| 0-90    | 12417.02 | N.A.  | 87.90  |
| 10-90   | 12026.57 | N.A.  | 85.10  |
| 20-40   | 3772.26  | N.A.  | 26.70  |
| 20-50   | 5930.05  | N.A.  | 42.00  |
| 40-70   | 5710.11  | N.A.  | 40.40  |
| 60-80   | 2555.85  | N.A.  | 18.10  |
| 70-80   | 987.50   | N.A.  | 7.00   |
| 80-90   | 437.41   | N.A.  | 3.10   |
| 90-110  | 527.03   | N.A.  | 3.70   |
| 90-120  | 808.40   | N.A.  | 5.70   |
| 90-130  | 1066.23  | N.A.  | 7.50   |
| 90-150  | 1450.37  | N.A.  | 10.30  |
| 90-180  | 1707.17  | N.A.  | 12.10  |
| 110-180 | 1180.14  | N.A.  | 8.40   |
| 0-180   | 14124.19 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  |
|---------|---------|
| 0-10    | 390.45  |
| 10-20   | 1119.3  |
| 20-30   | 1707.02 |
| 30-40   | 2065.23 |
| 40-50   | 2157.79 |
| 50-60   | 1983.97 |
| 60-70   | 1568.35 |
| 70-80   | 987.50  |
| 80-90   | 437.41  |
| 90-100  | 253.11  |
| 100-110 | 273.92  |
| 110-120 | 281.37  |
| 120-130 | 257.83  |
| 130-140 | 216.56  |
| 140-150 | 167.57  |
| 150-160 | 130.46  |
| 160-170 | 92.38   |
| 170-180 | 33.96   |

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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20

| RC<br>RW | 80  |     |     |     | 70  |     |     |     | 50  |     |     | 30 |    |    | 10 |    |    | 0  |
|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|
|          | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50 | 30 | 10 | 50 | 30 | 10 | 0  |
| 0        | 116 | 116 | 116 | 116 | 112 | 112 | 112 | 112 | 104 | 104 | 104 | 97 | 97 | 97 | 91 | 91 | 91 | 88 |
| 1        | 105 | 100 | 96  | 92  | 101 | 97  | 93  | 89  | 90  | 87  | 84  | 84 | 82 | 79 | 79 | 77 | 75 | 72 |
| 2        | 95  | 87  | 80  | 74  | 92  | 84  | 78  | 72  | 79  | 73  | 69  | 73 | 69 | 65 | 69 | 65 | 62 | 59 |
| 3        | 87  | 76  | 68  | 61  | 83  | 74  | 66  | 60  | 69  | 63  | 57  | 65 | 59 | 55 | 60 | 56 | 52 | 50 |
| 4        | 79  | 67  | 58  | 52  | 76  | 65  | 57  | 51  | 61  | 54  | 49  | 57 | 51 | 47 | 54 | 49 | 45 | 42 |
| 5        | 73  | 60  | 51  | 44  | 70  | 58  | 50  | 43  | 55  | 47  | 42  | 51 | 45 | 40 | 48 | 43 | 39 | 36 |
| 6        | 67  | 54  | 45  | 38  | 64  | 52  | 44  | 38  | 49  | 42  | 37  | 46 | 40 | 35 | 44 | 38 | 34 | 32 |
| 7        | 62  | 49  | 40  | 34  | 60  | 47  | 39  | 33  | 45  | 37  | 32  | 42 | 36 | 31 | 40 | 34 | 30 | 28 |
| 8        | 58  | 44  | 36  | 30  | 56  | 43  | 35  | 30  | 41  | 34  | 29  | 39 | 32 | 28 | 37 | 31 | 27 | 25 |
| 9        | 54  | 41  | 32  | 27  | 52  | 40  | 32  | 27  | 38  | 31  | 26  | 36 | 29 | 25 | 34 | 28 | 24 | 22 |
| 10       | 51  | 37  | 30  | 24  | 49  | 36  | 29  | 24  | 35  | 28  | 23  | 33 | 27 | 23 | 31 | 26 | 22 | 20 |

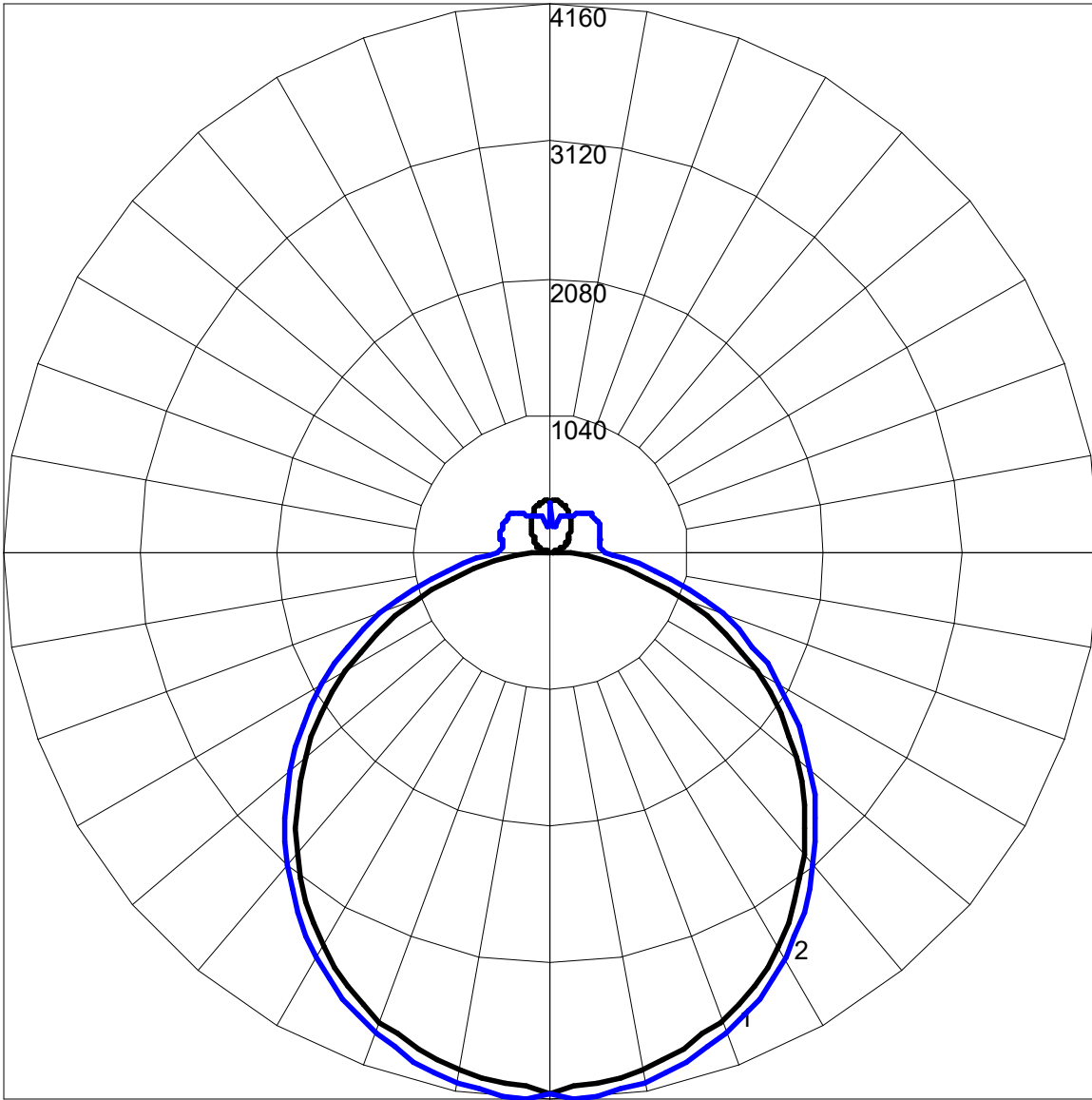
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**UGR TABLE - CORRECTED**

| 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 | 19.4                 | 20.8 | 20.0 | 21.4 | 22.0 | 20.6               | 22.0 | 21.1 | 22.5 | 23.1 |
|                | 3H   | 21.0                 | 22.2 | 21.5 | 22.8 | 23.4 | 22.7               | 23.9 | 23.2 | 24.5 | 25.1 |
|                | 4H   | 21.5                 | 22.6 | 22.0 | 23.2 | 23.9 | 23.6               | 24.8 | 24.1 | 25.3 | 26.0 |
|                | 6H   | 21.7                 | 22.8 | 22.3 | 23.4 | 24.1 | 24.4               | 25.5 | 25.0 | 26.1 | 26.7 |
|                | 8H   | 21.8                 | 22.8 | 22.4 | 23.4 | 24.1 | 24.8               | 25.8 | 25.4 | 26.4 | 27.1 |
|                | 12H  | 21.8                 | 22.8 | 22.4 | 23.4 | 24.1 | 25.1               | 26.2 | 25.7 | 26.8 | 27.5 |
| 4H             | 2H   | 20.1                 | 21.3 | 20.7 | 21.9 | 22.5 | 21.1               | 22.3 | 21.6 | 22.8 | 23.5 |
|                | 3H   | 21.9                 | 22.9 | 22.4 | 23.5 | 24.2 | 23.3               | 24.3 | 23.9 | 25.0 | 25.6 |
|                | 4H   | 22.4                 | 23.4 | 23.0 | 24.0 | 24.7 | 24.3               | 25.3 | 25.0 | 25.9 | 26.6 |
|                | 6H   | 22.8                 | 23.6 | 23.5 | 24.3 | 25.0 | 25.3               | 26.1 | 25.9 | 26.8 | 27.5 |
|                | 8H   | 22.9                 | 23.7 | 23.5 | 24.3 | 25.0 | 25.8               | 26.5 | 26.4 | 27.2 | 27.9 |
|                | 12H  | 22.9                 | 23.6 | 23.6 | 24.3 | 25.0 | 26.2               | 26.9 | 26.9 | 27.6 | 28.3 |
| 8H             | 4H   | 22.8                 | 23.6 | 23.5 | 24.3 | 25.0 | 24.5               | 25.3 | 25.2 | 25.9 | 26.7 |
|                | 6H   | 23.4                 | 24.0 | 24.0 | 24.7 | 25.4 | 25.6               | 26.3 | 26.3 | 27.0 | 27.7 |
|                | 8H   | 23.5                 | 24.1 | 24.2 | 24.7 | 25.5 | 26.2               | 26.8 | 26.9 | 27.5 | 28.2 |
|                | 12H  | 23.6                 | 24.1 | 24.2 | 24.7 | 25.6 | 26.8               | 27.3 | 27.5 | 28.0 | 28.8 |
| 12H            | 4H   | 22.9                 | 23.6 | 23.6 | 24.3 | 25.0 | 24.5               | 25.2 | 25.2 | 25.9 | 26.6 |
|                | 6H   | 23.5                 | 24.0 | 24.2 | 24.7 | 25.5 | 25.7               | 26.2 | 26.4 | 26.9 | 27.7 |
|                | 8H   | 23.7                 | 24.2 | 24.3 | 24.8 | 25.7 | 26.3               | 26.8 | 27.0 | 27.5 | 28.3 |

Maximum UGR = 28.8

POLAR GRAPH



Maximum Candela = 4159.657 Located At Horizontal Angle = 90, Vertical Angle = 2.5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)  
# 2 - Vertical Plane Through Horizontal Angles (90 - 270)