

IES INDOOR REPORT

PHOTOMETRIC FILENAME : SLF-2-L26-835-HIA-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM BALLABS TEST NO. 17259.0
[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
[ISSUE DATE] 08-31-2023
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO 64836
[LUMINAIRE] 2' LED DIRECT/INDIRECT STAIRWELL LIGHT
[MORE] WITH FROSTED POLYCARBONATE LENS
[LUMCAT] SLF-2-L26-835-HIA-DIM-UNV
[LAMPCAT] HLM 80 CRI 3500K CCT
[_SEARCH_SOURCE TYPE] LED
[_SEARCH_APPLICATION] INDOOR, COMMERCIAL, DIRECT, LINEAR
[_SEARCH_MOUNTING] CEILING, SURFACE, WALL

CHARACTERISTICS

| | |
|---------------------------------|---------------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 2911 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 134 |
| Total Luminaire Watts | 21.75 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.18 |
| Spacing Criterion (90-270) | 1.30 |
| Spacing Criterion (Diagonal) | 1.36 |
| Basic Luminous Shape | Rectangular w/Sides |
| Luminous Length (0-180) | 2.06 ft |
| Luminous Width (90-270) | 0.50 ft |
| Luminous Height | 0.24 ft |

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 6672 | 6031 | 6538 |
| 55 | 5569 | 5078 | 5855 |
| 65 | 4314 | 4182 | 5082 |
| 75 | 3068 | 3458 | 4326 |
| 85 | 1307 | 2904 | 3817 |

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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 | 917.491 | 917.491 | 917.491 | 917.491 | 917.491 |
| 5 | 919.955 | 914.205 | 910.098 | 910.919 | 905.991 |
| 10 | 903.527 | 901.063 | 898.599 | 903.527 | 901.063 |
| 15 | 874.778 | 873.957 | 877.243 | 884.635 | 885.456 |
| 20 | 838.637 | 841.923 | 848.494 | 862.458 | 867.386 |
| 25 | 782.783 | 790.175 | 807.425 | 826.317 | 835.352 |
| 30 | 722.000 | 735.964 | 765.534 | 790.997 | 800.853 |
| 35 | 657.111 | 671.896 | 712.144 | 748.285 | 762.248 |
| 40 | 581.543 | 601.256 | 648.897 | 697.359 | 712.144 |
| 45 | 505.154 | 528.974 | 581.543 | 639.040 | 656.289 |
| 50 | 424.658 | 458.335 | 510.903 | 577.436 | 596.328 |
| 55 | 357.304 | 390.159 | 447.657 | 521.581 | 542.938 |
| 60 | 284.200 | 320.341 | 383.588 | 455.870 | 481.333 |
| 65 | 218.489 | 253.809 | 322.806 | 391.802 | 418.087 |
| 70 | 161.813 | 197.133 | 271.879 | 336.769 | 358.125 |
| 75 | 109.245 | 142.922 | 220.953 | 284.200 | 299.807 |
| 80 | 64.068 | 103.495 | 179.063 | 235.738 | 251.345 |
| 85 | 25.463 | 71.461 | 141.279 | 197.133 | 206.990 |
| 90 | 0.000 | 43.534 | 110.066 | 159.349 | 167.563 |
| 95 | 0.000 | 30.391 | 87.889 | 131.422 | 138.815 |
| 100 | 0.000 | 19.713 | 64.890 | 105.138 | 110.887 |
| 105 | 0.000 | 17.249 | 55.854 | 85.424 | 94.460 |
| 110 | 0.000 | 10.678 | 40.248 | 67.354 | 74.746 |
| 115 | 0.000 | 9.857 | 35.320 | 56.676 | 64.068 |
| 120 | 0.000 | 9.035 | 27.927 | 46.819 | 54.212 |
| 125 | 0.000 | 6.571 | 21.356 | 37.784 | 43.534 |
| 130 | 0.000 | 0.000 | 20.535 | 33.677 | 36.962 |
| 135 | 0.000 | 0.000 | 13.964 | 24.642 | 30.391 |
| 140 | 0.000 | 0.000 | 12.321 | 21.356 | 23.820 |
| 145 | 0.000 | 0.000 | 0.000 | 16.428 | 19.713 |
| 150 | 0.000 | 0.000 | 0.000 | 13.964 | 16.428 |
| 155 | 0.000 | 0.000 | 0.000 | 11.499 | 11.499 |
| 160 | 0.000 | 0.000 | 0.000 | 9.857 | 0.000 |
| 165 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 170 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 175 | 0.000 | 0.000 | 0.000 | 6.571 | 0.000 |
| 180 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 334.97 | N.A. | 11.50 |
| 0-30 | 707.94 | N.A. | 24.30 |
| 0-40 | 1151.75 | N.A. | 39.60 |
| 0-60 | 2005.24 | N.A. | 68.90 |
| 0-80 | 2553.71 | N.A. | 87.70 |
| 0-90 | 2698.54 | N.A. | 92.70 |
| 10-90 | 2611.8 | N.A. | 89.70 |
| 20-40 | 816.79 | N.A. | 28.10 |
| 20-50 | 1266.38 | N.A. | 43.50 |
| 40-70 | 1174.35 | N.A. | 40.30 |
| 60-80 | 548.47 | N.A. | 18.80 |
| 70-80 | 227.61 | N.A. | 7.80 |
| 80-90 | 144.83 | N.A. | 5.00 |
| 90-110 | 141.12 | N.A. | 4.80 |
| 90-120 | 174.32 | N.A. | 6.00 |
| 90-130 | 194.49 | N.A. | 6.70 |
| 90-150 | 210.26 | N.A. | 7.20 |
| 90-180 | 212.50 | N.A. | 7.30 |
| 110-180 | 71.39 | N.A. | 2.50 |
| 0-180 | 2911.05 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 86.74 |
| 10-20 | 248.22 |
| 20-30 | 372.98 |
| 30-40 | 443.81 |
| 40-50 | 449.60 |
| 50-60 | 403.89 |
| 60-70 | 320.86 |
| 70-80 | 227.61 |
| 80-90 | 144.83 |
| 90-100 | 87.33 |
| 100-110 | 53.78 |
| 110-120 | 33.20 |
| 120-130 | 20.17 |
| 130-140 | 10.99 |
| 140-150 | 4.78 |
| 150-160 | 1.96 |
| 160-170 | 0.20 |
| 170-180 | 0.08 |

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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 | 117 | 117 | 117 | 117 | 114 | 114 | 114 | 114 | 107 | 107 | 107 | 101 | 101 | 101 | 95 | 95 | 95 | 93 |
| 1 | 106 | 100 | 96 | 91 | 102 | 97 | 93 | 89 | 92 | 88 | 85 | 86 | 84 | 81 | 82 | 79 | 77 | 75 |
| 2 | 96 | 87 | 80 | 74 | 92 | 84 | 78 | 72 | 80 | 74 | 69 | 75 | 71 | 67 | 71 | 67 | 64 | 61 |
| 3 | 87 | 76 | 68 | 61 | 84 | 74 | 66 | 60 | 70 | 63 | 58 | 66 | 61 | 56 | 63 | 58 | 54 | 52 |
| 4 | 80 | 67 | 58 | 51 | 77 | 66 | 57 | 51 | 62 | 55 | 49 | 59 | 53 | 48 | 56 | 51 | 46 | 44 |
| 5 | 73 | 60 | 51 | 44 | 71 | 59 | 50 | 44 | 56 | 48 | 43 | 53 | 46 | 41 | 50 | 45 | 40 | 38 |
| 6 | 68 | 54 | 45 | 39 | 65 | 53 | 44 | 38 | 50 | 43 | 37 | 48 | 41 | 36 | 46 | 40 | 35 | 33 |
| 7 | 63 | 49 | 40 | 34 | 61 | 48 | 40 | 34 | 46 | 38 | 33 | 44 | 37 | 32 | 42 | 36 | 31 | 29 |
| 8 | 58 | 45 | 36 | 30 | 56 | 44 | 36 | 30 | 42 | 35 | 29 | 40 | 34 | 29 | 38 | 33 | 28 | 26 |
| 9 | 55 | 41 | 33 | 27 | 53 | 40 | 32 | 27 | 39 | 31 | 26 | 37 | 31 | 26 | 35 | 30 | 25 | 24 |
| 10 | 51 | 38 | 30 | 25 | 50 | 37 | 30 | 24 | 36 | 29 | 24 | 34 | 28 | 24 | 33 | 27 | 23 | 21 |

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UGR TABLE - CORRECTED

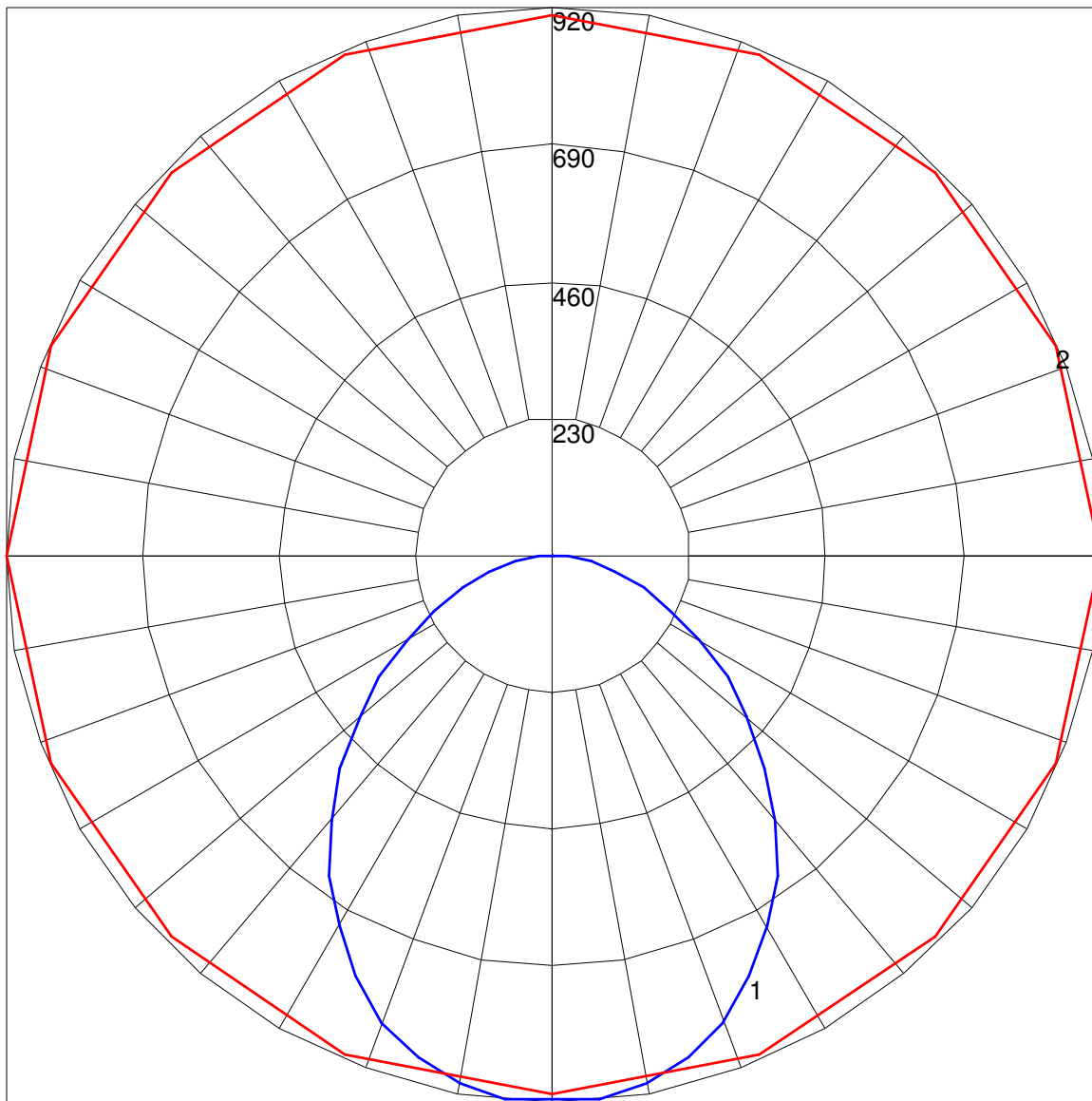
Reflectances

| | | | | | | | | | | |
|----------------|----|----|----|----|----|----|----|----|----|----|
| 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 | 15.4 | 16.9 | 15.9 | 17.4 | 17.9 | 18.6 | 20.1 | 19.1 | 20.6 | 21.1 |
| | 3H | 16.6 | 18.0 | 17.1 | 18.5 | 19.0 | 20.8 | 22.2 | 21.3 | 22.7 | 23.2 |
| | 4H | 17.0 | 18.3 | 17.5 | 18.8 | 19.3 | 21.9 | 23.2 | 22.4 | 23.7 | 24.2 |
| | 6H | 17.2 | 18.4 | 17.8 | 18.9 | 19.5 | 22.9 | 24.1 | 23.4 | 24.6 | 25.2 |
| | 8H | 17.3 | 18.4 | 17.8 | 19.0 | 19.5 | 23.4 | 24.6 | 23.9 | 25.1 | 25.6 |
| | 12H | 17.3 | 18.4 | 17.8 | 18.9 | 19.5 | 23.9 | 25.0 | 24.5 | 25.5 | 26.1 |
| 4H | 2H | 16.3 | 17.6 | 16.8 | 18.1 | 18.7 | 18.9 | 20.2 | 19.4 | 20.7 | 21.2 |
| | 3H | 17.8 | 18.9 | 18.3 | 19.4 | 20.0 | 21.4 | 22.5 | 21.9 | 23.0 | 23.6 |
| | 4H | 18.3 | 19.3 | 18.8 | 19.8 | 20.4 | 22.6 | 23.6 | 23.1 | 24.1 | 24.7 |
| | 6H | 18.6 | 19.5 | 19.2 | 20.1 | 20.7 | 23.8 | 24.7 | 24.4 | 25.3 | 25.9 |
| | 8H | 18.7 | 19.5 | 19.3 | 20.1 | 20.7 | 24.4 | 25.3 | 25.0 | 25.8 | 26.4 |
| | 12H | 18.7 | 19.5 | 19.3 | 20.1 | 20.7 | 25.1 | 25.8 | 25.6 | 26.4 | 27.0 |
| 8H | 4H | 19.0 | 19.9 | 19.6 | 20.4 | 21.0 | 22.7 | 23.6 | 23.3 | 24.1 | 24.8 |
| | 6H | 19.5 | 20.2 | 20.1 | 20.8 | 21.5 | 24.1 | 24.8 | 24.7 | 25.4 | 26.1 |
| | 8H | 19.7 | 20.3 | 20.3 | 21.0 | 21.6 | 24.9 | 25.5 | 25.5 | 26.1 | 26.8 |
| | 12H | 19.8 | 20.4 | 20.4 | 21.0 | 21.7 | 25.7 | 26.3 | 26.3 | 26.9 | 27.6 |
| 12H | 4H | 19.2 | 20.0 | 19.8 | 20.6 | 21.2 | 22.7 | 23.5 | 23.3 | 24.1 | 24.7 |
| | 6H | 19.9 | 20.5 | 20.5 | 21.1 | 21.8 | 24.2 | 24.8 | 24.8 | 25.4 | 26.1 |
| | 8H | 20.1 | 20.7 | 20.7 | 21.3 | 22.0 | 24.9 | 25.5 | 25.5 | 26.1 | 26.8 |

Maximum UGR = 27.6

POLAR GRAPH



Maximum Candela = 919.955 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.)