



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ATS1-24-L40-835-D-(L30)-EM12W-DIM-UNV_(EMER MODE).IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]GEN FROM BALLABS TEST NO. 18877.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUE DATE] 05-24-2021

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO

[LUMINAIRE] 4-32LED 22"ARRAYS-SERIES 2x4'LUMINAIRE w/WHITE

[MORE] REFL, FROST CONCAVE ACRYLIC LENS w/SHALLOW ACRYLIC CENTER

[MORE] DIFFUSER EVERLINE #D15CC55UNVTZ-C @97 SETPOINT WIRED ZH4

[LUMCAT] ATS1-24-L40-835-D-(L30)-EM12W-DIM-UNV(EMER MODE)

[LAMPCAT] M10CC830D32N2S

[_SEARCH_SOURCETYPE] LED

[_SEARCH_APPLICATION] Indoor, Architectural, Classroom, Commercial, Educational, Office, Direct

[_SEARCH_MOUNTING] Surface

CHARACTERISTICS

| | |
|---------------------------------|-----------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 1481 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 123 |
| Total Luminaire Watts | 12 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.12 |
| Spacing Criterion (90-270) | 1.28 |
| Spacing Criterion (Diagonal) | 1.32 |
| Basic Luminous Shape | Rectangular |
| Luminous Length (0-180) | 3.76 ft |
| Luminous Width (90-270) | 1.77 ft |
| Luminous Height | 0.00 ft |

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 682 | 795 | 865 |
| 55 | 592 | 724 | 783 |
| 65 | 526 | 689 | 745 |
| 75 | 455 | 668 | 680 |
| 85 | 372 | 379 | 400 |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : ATS1-24-L40-835-D-(L30)-EM12W-DIM-UNV_(EMER MODE).IES****CANDELA TABULATION**

| | <u>0.0</u> | <u>22.5</u> | <u>45.0</u> | <u>67.5</u> | <u>90.0</u> |
|-----------|------------|-------------|-------------|-------------|-------------|
| 0 | 568.882 | 568.882 | 568.882 | 568.882 | 568.882 |
| 5 | 567.770 | 567.399 | 567.770 | 567.770 | 568.512 |
| 10 | 553.307 | 553.307 | 555.903 | 559.240 | 560.724 |
| 15 | 535.135 | 537.360 | 544.036 | 551.082 | 554.048 |
| 20 | 498.050 | 502.871 | 515.109 | 529.202 | 534.393 |
| 25 | 459.482 | 465.786 | 482.475 | 500.646 | 508.063 |
| 30 | 421.655 | 430.556 | 454.290 | 477.654 | 486.925 |
| 35 | 386.054 | 396.808 | 424.993 | 450.952 | 460.594 |
| 40 | 337.102 | 350.081 | 381.604 | 407.192 | 414.609 |
| 45 | 297.792 | 312.997 | 347.115 | 370.478 | 377.524 |
| 50 | 251.436 | 267.011 | 298.533 | 318.188 | 322.639 |
| 55 | 209.530 | 225.847 | 256.257 | 272.574 | 277.395 |
| 60 | 170.961 | 186.537 | 213.980 | 227.330 | 231.410 |
| 65 | 137.214 | 154.644 | 179.862 | 191.358 | 194.325 |
| 70 | 103.467 | 122.751 | 144.260 | 152.419 | 153.161 |
| 75 | 72.686 | 90.858 | 106.805 | 109.030 | 108.659 |
| 80 | 45.244 | 62.673 | 68.236 | 51.919 | 48.210 |
| 85 | 20.026 | 27.814 | 20.397 | 20.397 | 21.509 |
| 90 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : ATS1-24-L40-835-D-(L30)-EM12W-DIM-UNV_(EMER MODE).IES****ZONAL LUMEN SUMMARY**

| Zone | Lumens | %Lamp | %Fxt |
|---------|---------|-------|--------|
| 0-20 | 206.46 | N.A. | 13.90 |
| 0-30 | 429.86 | N.A. | 29.00 |
| 0-40 | 693.11 | N.A. | 46.80 |
| 0-60 | 1178.31 | N.A. | 79.60 |
| 0-80 | 1452.88 | N.A. | 98.10 |
| 0-90 | 1480.66 | N.A. | 100.00 |
| 10-90 | 1426.86 | N.A. | 96.40 |
| 20-40 | 486.65 | N.A. | 32.90 |
| 20-50 | 748.37 | N.A. | 50.50 |
| 40-70 | 656.07 | N.A. | 44.30 |
| 60-80 | 274.57 | N.A. | 18.50 |
| 70-80 | 103.70 | N.A. | 7.00 |
| 80-90 | 27.78 | N.A. | 1.90 |
| 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 | 1480.66 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 53.80 |
| 10-20 | 152.66 |
| 20-30 | 223.40 |
| 30-40 | 263.25 |
| 40-50 | 261.71 |
| 50-60 | 223.48 |
| 60-70 | 170.87 |
| 70-80 | 103.70 |
| 80-90 | 27.78 |
| 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 | 109 | 104 | 100 | 96 | 106 | 102 | 98 | 94 | 98 | 94 | 91 | 94 | 91 | 89 | 90 | 88 | 86 | 84 |
| 2 | 99 | 91 | 84 | 78 | 96 | 89 | 83 | 78 | 85 | 80 | 76 | 82 | 78 | 74 | 79 | 76 | 72 | 70 |
| 3 | 90 | 80 | 72 | 65 | 88 | 78 | 71 | 65 | 75 | 69 | 64 | 73 | 67 | 63 | 70 | 66 | 62 | 59 |
| 4 | 83 | 71 | 62 | 56 | 81 | 70 | 62 | 55 | 67 | 60 | 55 | 65 | 59 | 54 | 63 | 57 | 53 | 51 |
| 5 | 76 | 64 | 55 | 48 | 74 | 63 | 54 | 48 | 60 | 53 | 47 | 58 | 52 | 47 | 57 | 51 | 46 | 44 |
| 6 | 71 | 57 | 49 | 42 | 69 | 56 | 48 | 42 | 55 | 47 | 42 | 53 | 46 | 41 | 51 | 46 | 41 | 39 |
| 7 | 66 | 52 | 43 | 37 | 64 | 51 | 43 | 37 | 50 | 42 | 37 | 48 | 42 | 37 | 47 | 41 | 36 | 34 |
| 8 | 61 | 48 | 39 | 33 | 60 | 47 | 39 | 33 | 46 | 38 | 33 | 44 | 38 | 33 | 43 | 37 | 33 | 31 |
| 9 | 57 | 44 | 36 | 30 | 56 | 43 | 35 | 30 | 42 | 35 | 30 | 41 | 34 | 30 | 40 | 34 | 30 | 28 |
| 10 | 54 | 41 | 33 | 27 | 52 | 40 | 32 | 27 | 39 | 32 | 27 | 38 | 32 | 27 | 37 | 31 | 27 | 25 |

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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

| X=2H | Y=2H | 9.9 | 11.5 | 10.2 | 11.8 | 12.1 | 11.3 | 13.0 | 11.7 | 13.3 | 13.6 |
|------|------|------|------|------|------|------|------|------|------|------|------|
| | 3H | 11.6 | 13.1 | 12.0 | 13.4 | 13.8 | 13.3 | 14.8 | 13.7 | 15.1 | 15.5 |
| | 4H | 12.3 | 13.6 | 12.7 | 14.0 | 14.4 | 14.1 | 15.5 | 14.5 | 15.8 | 16.2 |
| | 6H | 12.8 | 14.0 | 13.2 | 14.4 | 14.8 | 14.5 | 15.8 | 14.9 | 16.1 | 16.5 |
| | 8H | 12.9 | 14.2 | 13.4 | 14.5 | 14.9 | 14.6 | 15.8 | 15.0 | 16.2 | 16.6 |
| | 12H | 13.0 | 14.2 | 13.5 | 14.6 | 15.0 | 14.6 | 15.8 | 15.1 | 16.2 | 16.6 |

UGR Viewed Endwise

| | | | | | | | | | | | |
|----|-----|------|------|------|------|------|------|------|------|------|------|
| 4H | 2H | 10.8 | 12.2 | 11.2 | 12.5 | 12.9 | 11.9 | 13.3 | 12.3 | 13.7 | 14.0 |
| | 3H | 12.8 | 13.9 | 13.2 | 14.3 | 14.7 | 14.2 | 15.3 | 14.6 | 15.7 | 16.1 |
| | 4H | 13.6 | 14.6 | 14.0 | 15.1 | 15.5 | 15.1 | 16.1 | 15.5 | 16.5 | 16.9 |
| | 6H | 14.3 | 15.2 | 14.7 | 15.6 | 16.1 | 15.6 | 16.5 | 16.0 | 16.9 | 17.4 |
| | 8H | 14.5 | 15.3 | 14.9 | 15.8 | 16.2 | 15.7 | 16.5 | 16.1 | 17.0 | 17.4 |
| | 12H | 14.6 | 15.4 | 15.1 | 15.9 | 16.3 | 15.8 | 16.5 | 16.3 | 17.0 | 17.5 |

| | | | | | | | | | | | |
|----|-----|------|------|------|------|------|------|------|------|------|------|
| 8H | 4H | 14.1 | 15.0 | 14.6 | 15.4 | 15.9 | 15.4 | 16.2 | 15.8 | 16.7 | 17.1 |
| | 6H | 15.0 | 15.7 | 15.5 | 16.2 | 16.6 | 16.0 | 16.7 | 16.5 | 17.2 | 17.7 |
| | 8H | 15.3 | 15.9 | 15.8 | 16.4 | 16.9 | 16.2 | 16.8 | 16.7 | 17.3 | 17.8 |
| | 12H | 15.5 | 16.1 | 16.0 | 16.6 | 17.1 | 16.3 | 16.9 | 16.8 | 17.4 | 17.9 |

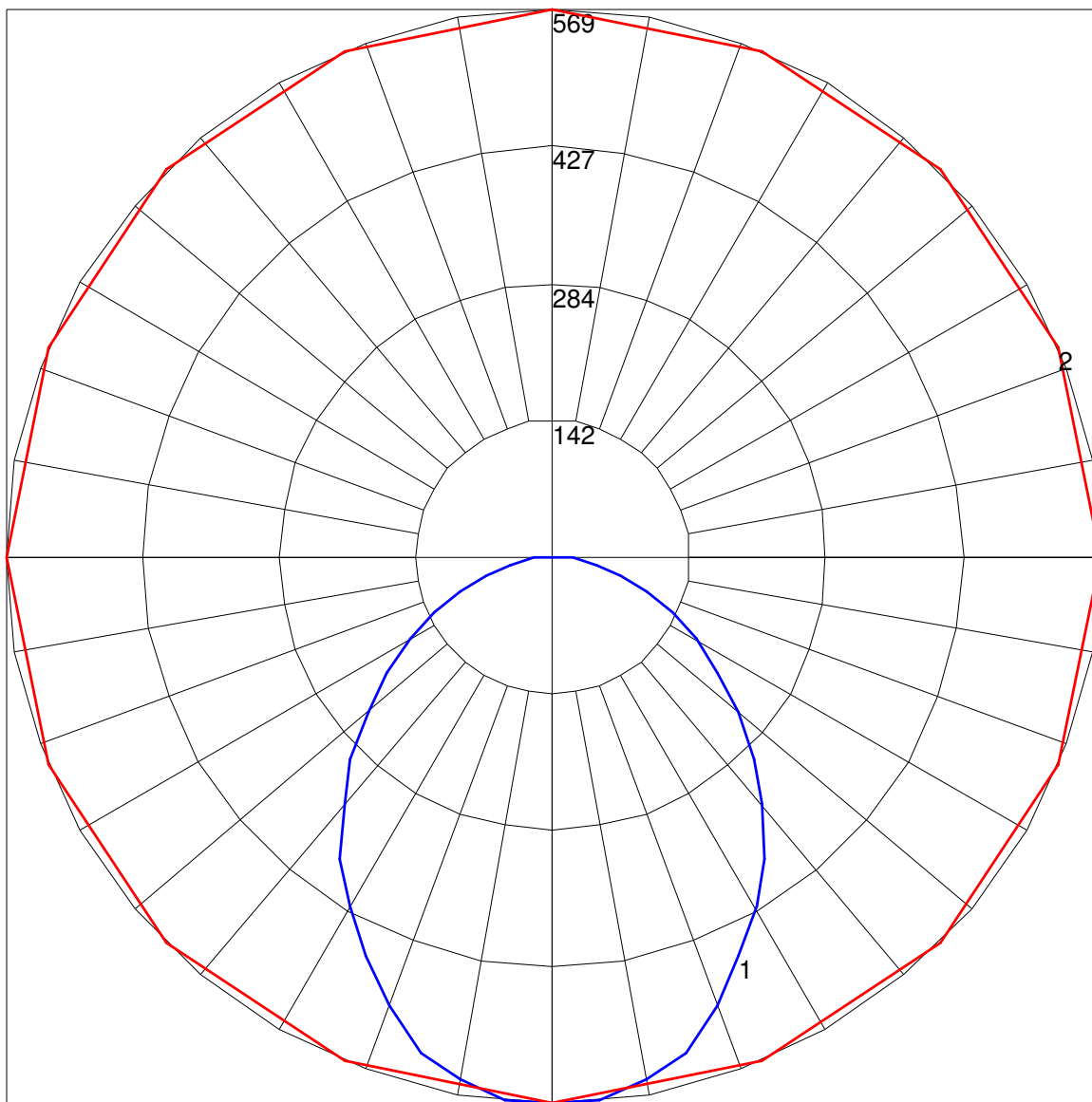
| | | | | | | | | | | | |
|-----|----|------|------|------|------|------|------|------|------|------|------|
| 12H | 4H | 14.2 | 14.9 | 14.7 | 15.4 | 15.9 | 15.4 | 16.2 | 15.9 | 16.6 | 17.1 |
| | 6H | 15.1 | 15.7 | 15.6 | 16.2 | 16.7 | 16.1 | 16.7 | 16.6 | 17.2 | 17.7 |
| | 8H | 15.5 | 16.0 | 16.0 | 16.5 | 17.1 | 16.3 | 16.8 | 16.8 | 17.3 | 17.9 |

Maximum UGR = 17.9

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POLAR GRAPH



Maximum Candela = 568.882 Located At Horizontal Angle = 0, Vertical Angle = 0

1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)

2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)