



IES INDOOR REPORT
PHOTOMETRIC FILENAME : SL-6-L3-830-RD-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM BALLABS TEST NO. 21002.0
[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
[ISSUEDATE] 2023-10-03
[MANUFAC] WILLIAMS INDOOR
[MORE] H.E. WILLIAMS, INC - CARTHAGE, MO
[LUMINAIRE] 72 INCH LED SLIMLINE ARCHITECTURAL LUMINAIRE
[MORE] 1.5" ALUM CHANNEL w/1"WIDE WHITE RADIAL ACRYLIC LENS
[MORE] 0-10V REMOTE DRIVER ENCLOSURE
[LUMCAT] SL-6-L3-830-RD-DIM-UNV
[LAMPCAT] 22 INCH LED ARRAY

CHARACTERISTICS

| | |
|---------------------------------|---------------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 1822 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 111 |
| Total Luminaire Watts | 16.4 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.26 |
| Spacing Criterion (90-270) | 1.28 |
| Spacing Criterion (Diagonal) | 1.38 |
| Basic Luminous Shape | Rectangular w/Sides |
| Luminous Length (0-180) | 6.00 ft |
| Luminous Width (90-270) | 0.13 ft |
| Luminous Height | 0.05 ft |

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 7538 | 6065 | 5756 |
| 55 | 7127 | 5430 | 5193 |
| 65 | 6360 | 4672 | 4621 |
| 75 | 5358 | 3851 | 4113 |
| 85 | 2977 | 3201 | 3703 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SL-6-L3-830-RD-DIM-UNV_.IES

CANDELA TABULATION

| | <u>0.0</u> | <u>22.5</u> | <u>45.0</u> | <u>67.5</u> | <u>90.0</u> |
|-----|------------|-------------|-------------|-------------|-------------|
| 0 | 573.726 | 573.726 | 573.726 | 573.726 | 573.726 |
| 5 | 575.604 | 572.787 | 569.031 | 568.092 | 569.031 |
| 10 | 567.153 | 564.336 | 560.580 | 560.580 | 562.458 |
| 15 | 554.946 | 552.129 | 548.373 | 549.312 | 549.312 |
| 20 | 536.166 | 533.349 | 528.654 | 532.410 | 533.349 |
| 25 | 512.691 | 509.875 | 508.936 | 511.753 | 513.630 |
| 30 | 483.583 | 483.583 | 483.583 | 487.339 | 486.400 |
| 35 | 452.596 | 452.596 | 452.596 | 456.352 | 459.169 |
| 40 | 415.036 | 415.975 | 416.914 | 423.487 | 427.243 |
| 45 | 374.659 | 377.476 | 380.293 | 387.805 | 390.622 |
| 50 | 330.526 | 333.343 | 339.916 | 351.184 | 356.818 |
| 55 | 288.272 | 289.211 | 301.418 | 310.807 | 319.258 |
| 60 | 239.444 | 244.139 | 261.041 | 278.882 | 284.516 |
| 65 | 190.616 | 198.128 | 217.847 | 237.566 | 246.017 |
| 70 | 145.544 | 153.056 | 177.470 | 201.884 | 209.396 |
| 75 | 99.534 | 112.679 | 139.910 | 167.141 | 178.409 |
| 80 | 58.218 | 72.303 | 108.923 | 136.154 | 148.361 |
| 85 | 19.719 | 46.011 | 79.815 | 107.045 | 119.252 |
| 90 | 0.000 | 25.353 | 59.157 | 83.571 | 92.961 |
| 95 | 0.000 | 13.146 | 40.377 | 64.791 | 73.242 |
| 100 | 0.000 | 6.573 | 28.170 | 47.889 | 56.340 |
| 105 | 0.000 | 3.756 | 19.719 | 34.743 | 42.255 |
| 110 | 0.000 | 2.817 | 13.146 | 25.353 | 30.048 |
| 115 | 0.000 | 1.878 | 8.451 | 17.841 | 22.536 |
| 120 | 0.000 | 0.000 | 4.695 | 11.268 | 14.085 |
| 125 | 0.000 | 0.000 | 3.756 | 7.512 | 9.390 |
| 130 | 0.000 | 0.000 | 0.000 | 4.695 | 5.634 |
| 135 | 0.000 | 0.000 | 0.000 | 0.000 | 3.756 |
| 140 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 145 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 150 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 155 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 160 | 0.000 | 0.000 | 0.000 | 0.000 | 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 | 0.000 | 0.000 |
| 180 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SL-6-L3-830-RD-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 209.48 | N.A. | 11.50 |
| 0-30 | 444.91 | N.A. | 24.40 |
| 0-40 | 729.00 | N.A. | 40.00 |
| 0-60 | 1293.67 | N.A. | 71.00 |
| 0-80 | 1658.77 | N.A. | 91.00 |
| 0-90 | 1743.27 | N.A. | 95.70 |
| 10-90 | 1689.06 | N.A. | 92.70 |
| 20-40 | 519.52 | N.A. | 28.50 |
| 20-50 | 814.22 | N.A. | 44.70 |
| 40-70 | 781.36 | N.A. | 42.90 |
| 60-80 | 365.10 | N.A. | 20.00 |
| 70-80 | 148.41 | N.A. | 8.10 |
| 80-90 | 84.50 | N.A. | 4.60 |
| 90-110 | 64.93 | N.A. | 3.60 |
| 90-120 | 74.79 | N.A. | 4.10 |
| 90-130 | 78.32 | N.A. | 4.30 |
| 90-150 | 78.88 | N.A. | 4.30 |
| 90-180 | 78.88 | N.A. | 4.30 |
| 110-180 | 13.95 | N.A. | 0.80 |
| 0-180 | 1822.15 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 54.22 |
| 10-20 | 155.26 |
| 20-30 | 235.43 |
| 30-40 | 284.08 |
| 40-50 | 294.70 |
| 50-60 | 269.97 |
| 60-70 | 216.69 |
| 70-80 | 148.41 |
| 80-90 | 84.50 |
| 90-100 | 43.34 |
| 100-110 | 21.59 |
| 110-120 | 9.86 |
| 120-130 | 3.53 |
| 130-140 | 0.56 |
| 140-150 | 0.00 |
| 150-160 | 0.00 |
| 160-170 | 0.00 |
| 170-180 | 0.00 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SL-6-L3-830-RD-DIM-UNV_.IES

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 | 103 | 103 | 103 | 98 | 98 | 98 | 96 |
| 1 | 106 | 101 | 96 | 92 | 103 | 98 | 94 | 90 | 93 | 90 | 86 | 89 | 86 | 83 | 84 | 82 | 80 | 77 |
| 2 | 96 | 87 | 80 | 74 | 93 | 85 | 78 | 73 | 81 | 75 | 70 | 77 | 72 | 68 | 73 | 69 | 66 | 63 |
| 3 | 88 | 76 | 68 | 61 | 85 | 75 | 67 | 60 | 71 | 64 | 59 | 68 | 62 | 57 | 64 | 60 | 55 | 53 |
| 4 | 80 | 68 | 58 | 51 | 77 | 66 | 57 | 51 | 63 | 55 | 50 | 60 | 54 | 49 | 57 | 52 | 47 | 45 |
| 5 | 74 | 60 | 51 | 44 | 71 | 59 | 50 | 44 | 56 | 49 | 43 | 54 | 47 | 42 | 51 | 46 | 41 | 39 |
| 6 | 68 | 54 | 45 | 38 | 66 | 53 | 44 | 38 | 51 | 43 | 37 | 49 | 42 | 37 | 47 | 41 | 36 | 34 |
| 7 | 63 | 49 | 40 | 34 | 61 | 48 | 40 | 34 | 46 | 39 | 33 | 44 | 38 | 32 | 43 | 37 | 32 | 30 |
| 8 | 59 | 45 | 36 | 30 | 57 | 44 | 36 | 30 | 42 | 35 | 29 | 41 | 34 | 29 | 39 | 33 | 29 | 27 |
| 9 | 55 | 41 | 33 | 27 | 53 | 40 | 32 | 27 | 39 | 32 | 27 | 37 | 31 | 26 | 36 | 30 | 26 | 24 |
| 10 | 51 | 38 | 30 | 25 | 50 | 37 | 30 | 24 | 36 | 29 | 24 | 35 | 28 | 24 | 33 | 28 | 23 | 22 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SL-6-L3-830-RD-DIM-UNV_.IES

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 | 16.8 | 18.4 | 17.2 | 18.8 | 19.2 | 18.5 | 20.1 | 18.9 | 20.5 | 20.9 |
| | 3H | 18.3 | 19.7 | 18.7 | 20.1 | 20.6 | 20.8 | 22.3 | 21.2 | 22.7 | 23.1 |
| | 4H | 18.7 | 20.1 | 19.2 | 20.5 | 21.0 | 21.9 | 23.3 | 22.4 | 23.7 | 24.2 |
| | 6H | 19.0 | 20.3 | 19.5 | 20.7 | 21.2 | 23.1 | 24.4 | 23.6 | 24.8 | 25.3 |
| | 8H | 19.1 | 20.3 | 19.6 | 20.8 | 21.3 | 23.7 | 24.9 | 24.2 | 25.4 | 25.9 |
| | 12H | 19.1 | 20.3 | 19.6 | 20.7 | 21.3 | 24.4 | 25.5 | 24.8 | 26.0 | 26.5 |

UGR Viewed Endwise

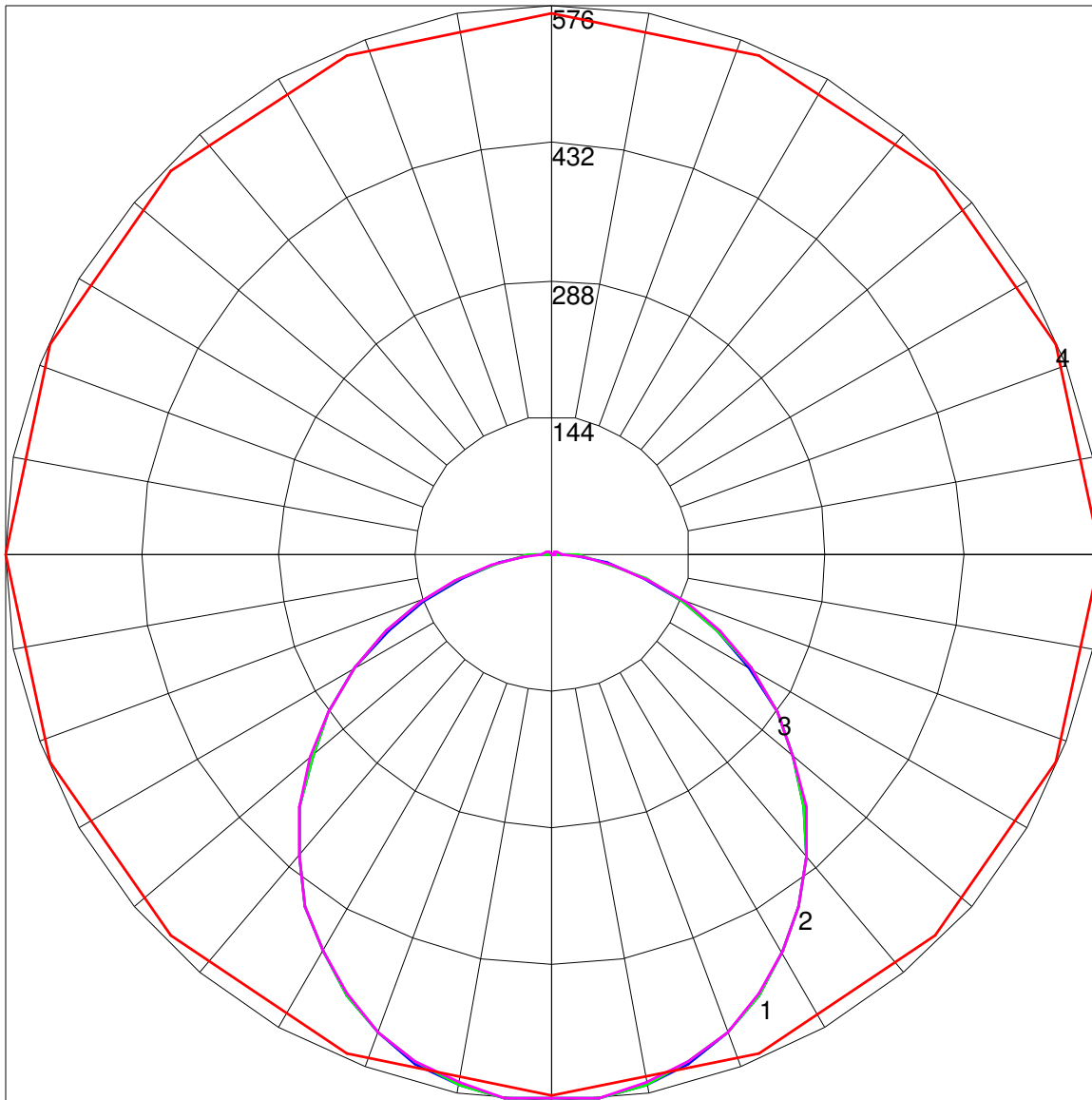
| | | | | | | | | | | | |
|----|-----|------|------|------|------|------|------|------|------|------|------|
| 4H | 2H | 17.6 | 18.9 | 18.0 | 19.4 | 19.8 | 18.9 | 20.3 | 19.4 | 20.7 | 21.2 |
| | 3H | 19.3 | 20.4 | 19.7 | 20.9 | 21.4 | 21.4 | 22.6 | 21.9 | 23.1 | 23.6 |
| | 4H | 19.8 | 20.9 | 20.3 | 21.4 | 21.9 | 22.7 | 23.8 | 23.2 | 24.3 | 24.8 |
| | 6H | 20.2 | 21.2 | 20.8 | 21.7 | 22.2 | 24.1 | 25.0 | 24.6 | 25.5 | 26.1 |
| | 8H | 20.3 | 21.2 | 20.8 | 21.7 | 22.3 | 24.8 | 25.6 | 25.3 | 26.2 | 26.7 |
| | 12H | 20.4 | 21.2 | 20.9 | 21.7 | 22.3 | 25.5 | 26.3 | 26.1 | 26.9 | 27.4 |

| | | | | | | | | | | | |
|----|-----|------|------|------|------|------|------|------|------|------|------|
| 8H | 4H | 20.4 | 21.3 | 20.9 | 21.8 | 22.3 | 22.9 | 23.8 | 23.4 | 24.3 | 24.9 |
| | 6H | 20.9 | 21.7 | 21.5 | 22.2 | 22.8 | 24.4 | 25.1 | 24.9 | 25.7 | 26.3 |
| | 8H | 21.1 | 21.8 | 21.6 | 22.3 | 22.9 | 25.2 | 25.9 | 25.8 | 26.5 | 27.0 |
| | 12H | 21.2 | 21.8 | 21.8 | 22.3 | 23.0 | 26.2 | 26.8 | 26.7 | 27.3 | 28.0 |

| | | | | | | | | | | | |
|-----|----|------|------|------|------|------|------|------|------|------|------|
| 12H | 4H | 20.5 | 21.3 | 21.1 | 21.9 | 22.4 | 22.9 | 23.7 | 23.5 | 24.3 | 24.8 |
| | 6H | 21.1 | 21.8 | 21.7 | 22.4 | 23.0 | 24.4 | 25.1 | 25.0 | 25.6 | 26.3 |
| | 8H | 21.4 | 22.0 | 22.0 | 22.5 | 23.2 | 25.3 | 25.9 | 25.9 | 26.5 | 27.1 |

Maximum UGR = 28.0

POLAR GRAPH



Maximum Candela = 575.604 Located At Horizontal Angle = 0, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Vertical Plane Through Horizontal Angles (5 - 185)
3 - Vertical Plane Through Horizontal Angles (10 - 190)
4 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)