



IES INDOOR REPORT
PHOTOMETRIC FILENAME : SL-6-L5-935-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-L5-935-RD-DIM-UNV
[LAMPCAT] 22 INCH LED ARRAY

CHARACTERISTICS

| | |
|---------------------------------|---------------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 2580 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 96 |
| Total Luminaire Watts | 26.8 |
| 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 | 10673 | 8587 | 8150 |
| 55 | 10090 | 7688 | 7352 |
| 65 | 9005 | 6614 | 6542 |
| 75 | 7585 | 5452 | 5823 |
| 85 | 4216 | 4532 | 5243 |

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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 | 812.296 | 812.296 | 812.296 | 812.296 | 812.296 |
| 5 | 814.955 | 810.967 | 805.649 | 804.320 | 805.649 |
| 10 | 802.990 | 799.002 | 793.684 | 793.684 | 796.343 |
| 15 | 785.707 | 781.719 | 776.401 | 777.731 | 777.731 |
| 20 | 759.118 | 755.130 | 748.483 | 753.800 | 755.130 |
| 25 | 725.882 | 721.893 | 720.564 | 724.552 | 727.211 |
| 30 | 684.669 | 684.669 | 684.669 | 689.987 | 688.657 |
| 35 | 640.797 | 640.797 | 640.797 | 646.115 | 650.103 |
| 40 | 587.619 | 588.948 | 590.278 | 599.584 | 604.902 |
| 45 | 530.452 | 534.440 | 538.429 | 549.064 | 553.053 |
| 50 | 467.968 | 471.956 | 481.262 | 497.216 | 505.192 |
| 55 | 408.142 | 409.472 | 426.755 | 440.049 | 452.014 |
| 60 | 339.011 | 345.658 | 369.588 | 394.848 | 402.825 |
| 65 | 269.879 | 280.515 | 308.433 | 336.352 | 348.317 |
| 70 | 206.065 | 216.701 | 251.267 | 285.833 | 296.468 |
| 75 | 140.922 | 159.534 | 198.089 | 236.643 | 252.596 |
| 80 | 82.426 | 102.368 | 154.217 | 192.771 | 210.054 |
| 85 | 27.919 | 65.143 | 113.004 | 151.558 | 168.841 |
| 90 | 0.000 | 35.895 | 83.756 | 118.321 | 131.616 |
| 95 | 0.000 | 18.612 | 57.167 | 91.732 | 103.697 |
| 100 | 0.000 | 9.306 | 39.884 | 67.802 | 79.767 |
| 105 | 0.000 | 5.318 | 27.919 | 49.190 | 59.825 |
| 110 | 0.000 | 3.988 | 18.612 | 35.895 | 42.543 |
| 115 | 0.000 | 2.659 | 11.965 | 25.260 | 31.907 |
| 120 | 0.000 | 0.000 | 6.647 | 15.953 | 19.942 |
| 125 | 0.000 | 0.000 | 5.318 | 10.636 | 13.295 |
| 130 | 0.000 | 0.000 | 0.000 | 6.647 | 7.977 |
| 135 | 0.000 | 0.000 | 0.000 | 0.000 | 5.318 |
| 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 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 296.58 | N.A. | 11.50 |
| 0-30 | 629.92 | N.A. | 24.40 |
| 0-40 | 1032.13 | N.A. | 40.00 |
| 0-60 | 1831.62 | N.A. | 71.00 |
| 0-80 | 2348.53 | N.A. | 91.00 |
| 0-90 | 2468.17 | N.A. | 95.70 |
| 10-90 | 2391.41 | N.A. | 92.70 |
| 20-40 | 735.55 | N.A. | 28.50 |
| 20-50 | 1152.8 | N.A. | 44.70 |
| 40-70 | 1106.28 | N.A. | 42.90 |
| 60-80 | 516.91 | N.A. | 20.00 |
| 70-80 | 210.12 | N.A. | 8.10 |
| 80-90 | 119.64 | N.A. | 4.60 |
| 90-110 | 91.93 | N.A. | 3.60 |
| 90-120 | 105.89 | N.A. | 4.10 |
| 90-130 | 110.88 | N.A. | 4.30 |
| 90-150 | 111.68 | N.A. | 4.30 |
| 90-180 | 111.68 | N.A. | 4.30 |
| 110-180 | 19.75 | N.A. | 0.80 |
| 0-180 | 2579.84 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 76.76 |
| 10-20 | 219.82 |
| 20-30 | 333.33 |
| 30-40 | 402.21 |
| 40-50 | 417.25 |
| 50-60 | 382.24 |
| 60-70 | 306.79 |
| 70-80 | 210.12 |
| 80-90 | 119.64 |
| 90-100 | 61.37 |
| 100-110 | 30.56 |
| 110-120 | 13.96 |
| 120-130 | 4.99 |
| 130-140 | 0.79 |
| 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 | 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 | 58 | 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 |

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UGR TABLE - CORRECTED

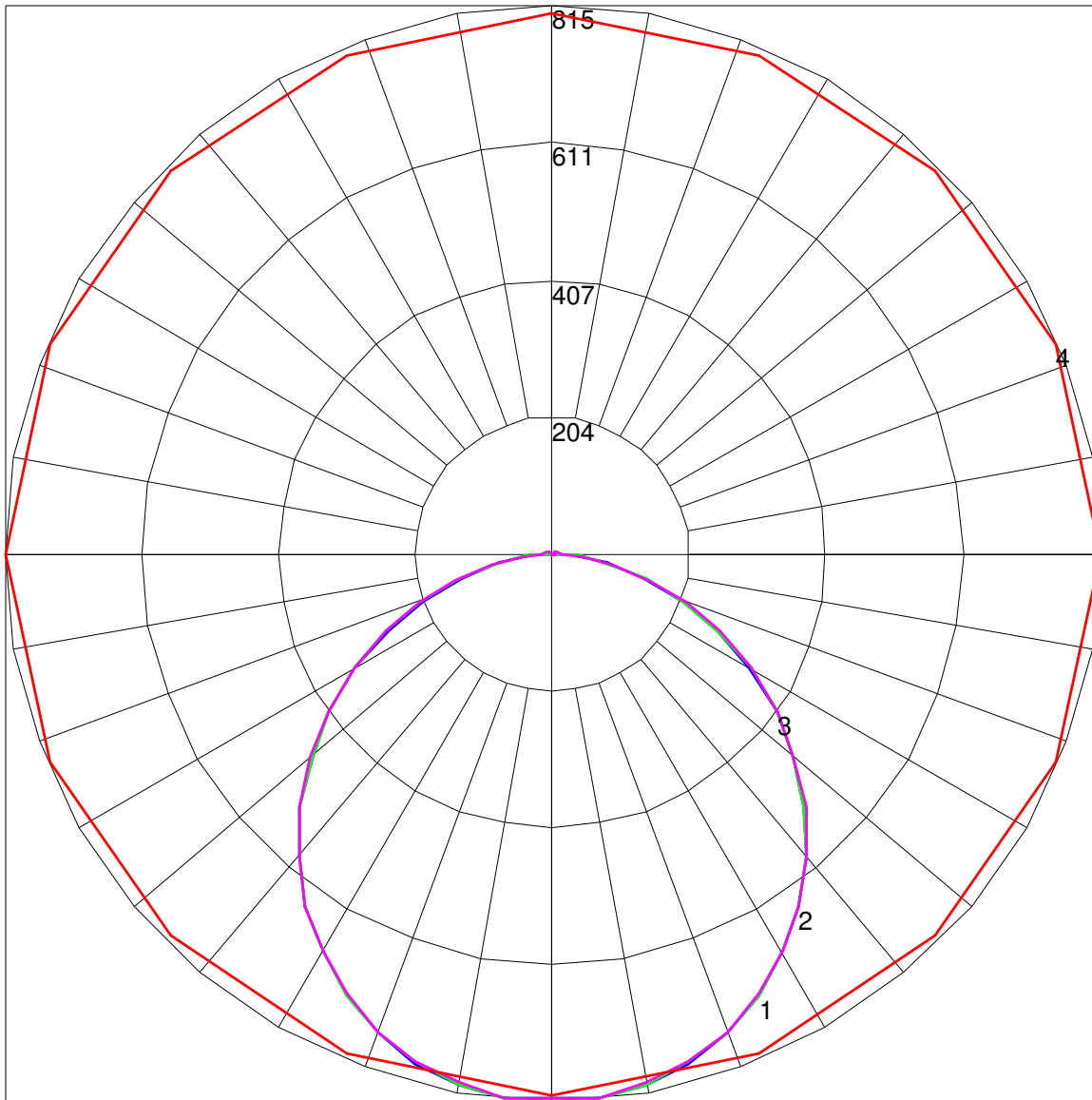
Reflectances

| | | | | | | | | | | |
|----------------|----|----|----|----|----|----|----|----|----|----|
| 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 | 18.0 | 19.6 | 18.4 | 20.0 | 20.4 | 19.7 | 21.3 | 20.1 | 21.7 | 22.1 |
| | 3H | 19.5 | 20.9 | 19.9 | 21.3 | 21.8 | 22.0 | 23.5 | 22.4 | 23.9 | 24.3 |
| | 4H | 19.9 | 21.3 | 20.4 | 21.7 | 22.2 | 23.1 | 24.5 | 23.6 | 24.9 | 25.4 |
| | 6H | 20.2 | 21.5 | 20.7 | 21.9 | 22.4 | 24.3 | 25.6 | 24.8 | 26.0 | 26.5 |
| | 8H | 20.3 | 21.5 | 20.8 | 22.0 | 22.5 | 24.9 | 26.1 | 25.4 | 26.6 | 27.1 |
| | 12H | 20.3 | 21.5 | 20.8 | 21.9 | 22.5 | 25.6 | 26.7 | 26.0 | 27.2 | 27.7 |
| 4H | 2H | 18.8 | 20.1 | 19.2 | 20.6 | 21.0 | 20.1 | 21.5 | 20.6 | 21.9 | 22.4 |
| | 3H | 20.5 | 21.6 | 20.9 | 22.1 | 22.6 | 22.6 | 23.8 | 23.1 | 24.3 | 24.8 |
| | 4H | 21.0 | 22.1 | 21.5 | 22.6 | 23.1 | 23.9 | 25.0 | 24.4 | 25.5 | 26.0 |
| | 6H | 21.4 | 22.4 | 21.9 | 22.9 | 23.4 | 25.3 | 26.2 | 25.8 | 26.7 | 27.3 |
| | 8H | 21.5 | 22.4 | 22.0 | 22.9 | 23.5 | 26.0 | 26.8 | 26.5 | 27.3 | 27.9 |
| | 12H | 21.6 | 22.4 | 22.1 | 22.9 | 23.5 | 26.7 | 27.5 | 27.3 | 28.1 | 28.6 |
| 8H | 4H | 21.6 | 22.5 | 22.1 | 23.0 | 23.5 | 24.1 | 25.0 | 24.6 | 25.5 | 26.1 |
| | 6H | 22.1 | 22.9 | 22.7 | 23.4 | 24.0 | 25.6 | 26.3 | 26.1 | 26.9 | 27.5 |
| | 8H | 22.3 | 23.0 | 22.8 | 23.5 | 24.1 | 26.4 | 27.1 | 27.0 | 27.7 | 28.2 |
| | 12H | 22.4 | 23.0 | 23.0 | 23.5 | 24.2 | 27.4 | 28.0 | 27.9 | 28.5 | 29.2 |
| 12H | 4H | 21.7 | 22.5 | 22.3 | 23.1 | 23.6 | 24.1 | 24.9 | 24.7 | 25.5 | 26.0 |
| | 6H | 22.3 | 23.0 | 22.9 | 23.6 | 24.2 | 25.6 | 26.3 | 26.2 | 26.8 | 27.5 |
| | 8H | 22.6 | 23.2 | 23.2 | 23.7 | 24.4 | 26.5 | 27.1 | 27.1 | 27.7 | 28.3 |

Maximum UGR = 29.2

POLAR GRAPH



Maximum Candela = 814.955 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.)