



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75R-8-L100-835-(L75)-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM BALLABS TEST NO. 19750.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 01/27/2023

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 8' SURFACE MOUNT STRIP LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC ROUND LENS

[LUMCAT] 75R-8-L100-835-(L75)-DIM-UNV

[SEARCH_SOURCETYPE] LED

[_SEARCH_APPLICATION] Indoor, Commercial, Industrial, Manufacturing, Utility, Warehouse, Linear

[_SEARCH_MOUNTING] Surface, Suspended

CHARACTERISTICS

| | |
|---------------------------------|---------------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 7642 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 144 |
| Total Luminaire Watts | 53.2 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.22 |
| Spacing Criterion (90-270) | 1.28 |
| Spacing Criterion (Diagonal) | 1.36 |
| Basic Luminous Shape | Rectangular w/Sides |
| Luminous Length (0-180) | 7.44 ft |
| Luminous Width (90-270) | 0.21 ft |
| Luminous Height | 0.10 ft |

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 13543 | 11377 | 11275 |
| 55 | 11241 | 9756 | 9926 |
| 65 | 9344 | 8216 | 8362 |
| 75 | 6440 | 6776 | 6852 |
| 85 | 4096 | 5856 | 5618 |

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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 | 2447.637 | 2447.637 | 2447.637 | 2447.637 | 2447.637 |
| 5 | 2474.508 | 2438.290 | 2439.459 | 2433.617 | 2409.082 |
| 10 | 2433.617 | 2403.240 | 2409.082 | 2405.577 | 2383.379 |
| 15 | 2362.349 | 2340.151 | 2356.508 | 2363.518 | 2340.151 |
| 20 | 2254.863 | 2249.022 | 2277.062 | 2288.745 | 2274.725 |
| 25 | 2128.685 | 2136.863 | 2176.586 | 2203.457 | 2192.942 |
| 30 | 1983.813 | 1995.496 | 2063.258 | 2104.150 | 2101.813 |
| 35 | 1807.396 | 1828.426 | 1926.565 | 1983.813 | 1991.991 |
| 40 | 1619.296 | 1634.484 | 1758.326 | 1844.782 | 1864.644 |
| 45 | 1397.314 | 1435.869 | 1578.404 | 1692.900 | 1720.940 |
| 50 | 1167.155 | 1229.076 | 1403.156 | 1528.167 | 1563.216 |
| 55 | 946.342 | 1026.956 | 1223.234 | 1354.086 | 1404.324 |
| 60 | 761.747 | 836.519 | 1050.322 | 1181.175 | 1233.749 |
| 65 | 585.330 | 667.112 | 889.094 | 1008.263 | 1053.827 |
| 70 | 410.081 | 519.904 | 736.044 | 840.024 | 884.421 |
| 75 | 252.358 | 392.557 | 594.676 | 692.816 | 731.370 |
| 80 | 140.199 | 271.051 | 474.339 | 565.468 | 590.003 |
| 85 | 59.584 | 186.932 | 378.537 | 456.814 | 473.171 |
| 90 | 8.178 | 128.516 | 293.249 | 362.180 | 384.378 |
| 95 | 1.168 | 87.624 | 234.833 | 287.407 | 310.774 |
| 100 | 0.000 | 57.248 | 182.258 | 234.833 | 253.526 |
| 105 | 0.000 | 40.891 | 141.367 | 191.605 | 206.793 |
| 110 | 0.000 | 28.040 | 108.654 | 156.555 | 169.407 |
| 115 | 0.000 | 23.366 | 88.793 | 130.852 | 140.199 |
| 120 | 0.000 | 17.525 | 67.763 | 107.486 | 116.832 |
| 125 | 0.000 | 10.515 | 50.238 | 85.288 | 95.802 |
| 130 | 0.000 | 7.010 | 36.218 | 66.594 | 75.941 |
| 135 | 0.000 | 3.505 | 26.871 | 52.575 | 59.584 |
| 140 | 0.000 | 3.505 | 18.693 | 40.891 | 46.733 |
| 145 | 0.000 | 0.000 | 11.683 | 25.703 | 32.713 |
| 150 | 0.000 | 0.000 | 8.178 | 18.693 | 23.366 |
| 155 | 0.000 | 0.000 | 5.842 | 9.347 | 15.188 |
| 160 | 0.000 | 0.000 | 2.337 | 7.010 | 8.178 |
| 165 | 0.000 | 0.000 | 0.000 | 2.337 | 3.505 |
| 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 | 895.04 | N.A. | 11.70 |
| 0-30 | 1894.79 | N.A. | 24.80 |
| 0-40 | 3087.81 | N.A. | 40.40 |
| 0-60 | 5367.96 | N.A. | 70.20 |
| 0-80 | 6787.17 | N.A. | 88.80 |
| 0-90 | 7143.87 | N.A. | 93.50 |
| 10-90 | 6912.14 | N.A. | 90.50 |
| 20-40 | 2192.78 | N.A. | 28.70 |
| 20-50 | 3401.6 | N.A. | 44.50 |
| 40-70 | 3120.78 | N.A. | 40.80 |
| 60-80 | 1419.21 | N.A. | 18.60 |
| 70-80 | 578.58 | N.A. | 7.60 |
| 80-90 | 356.70 | N.A. | 4.70 |
| 90-110 | 340.40 | N.A. | 4.50 |
| 90-120 | 418.44 | N.A. | 5.50 |
| 90-130 | 462.74 | N.A. | 6.10 |
| 90-150 | 494.37 | N.A. | 6.50 |
| 90-180 | 497.68 | N.A. | 6.50 |
| 110-180 | 157.28 | N.A. | 2.10 |
| 0-180 | 7641.55 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|---------|
| 0-10 | 231.73 |
| 10-20 | 663.31 |
| 20-30 | 999.76 |
| 30-40 | 1193.02 |
| 40-50 | 1208.83 |
| 50-60 | 1071.32 |
| 60-70 | 840.63 |
| 70-80 | 578.58 |
| 80-90 | 356.70 |
| 90-100 | 212.38 |
| 100-110 | 128.02 |
| 110-120 | 78.04 |
| 120-130 | 44.30 |
| 130-140 | 22.38 |
| 140-150 | 9.25 |
| 150-160 | 2.89 |
| 160-170 | 0.42 |
| 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 | 117 | 117 | 117 | 117 | 114 | 114 | 114 | 114 | 107 | 107 | 107 | 102 | 102 | 102 | 96 | 96 | 96 | 93 |
| 1 | 106 | 101 | 96 | 92 | 103 | 98 | 94 | 90 | 92 | 89 | 86 | 87 | 84 | 82 | 83 | 80 | 78 | 76 |
| 2 | 96 | 87 | 80 | 74 | 93 | 85 | 78 | 73 | 80 | 75 | 70 | 76 | 72 | 68 | 72 | 68 | 65 | 62 |
| 3 | 88 | 77 | 68 | 61 | 84 | 75 | 67 | 60 | 71 | 64 | 59 | 67 | 61 | 57 | 64 | 59 | 55 | 52 |
| 4 | 80 | 68 | 59 | 52 | 77 | 66 | 58 | 51 | 63 | 56 | 50 | 60 | 53 | 48 | 57 | 51 | 47 | 45 |
| 5 | 74 | 61 | 51 | 45 | 71 | 59 | 51 | 44 | 56 | 49 | 43 | 54 | 47 | 42 | 51 | 45 | 41 | 39 |
| 6 | 68 | 55 | 46 | 39 | 66 | 53 | 45 | 39 | 51 | 43 | 38 | 48 | 42 | 37 | 46 | 41 | 36 | 34 |
| 7 | 63 | 49 | 41 | 34 | 61 | 48 | 40 | 34 | 46 | 39 | 33 | 44 | 38 | 33 | 42 | 36 | 32 | 30 |
| 8 | 59 | 45 | 37 | 31 | 57 | 44 | 36 | 30 | 42 | 35 | 30 | 41 | 34 | 29 | 39 | 33 | 29 | 27 |
| 9 | 55 | 41 | 33 | 28 | 53 | 41 | 33 | 27 | 39 | 32 | 27 | 37 | 31 | 26 | 36 | 30 | 26 | 24 |
| 10 | 51 | 38 | 30 | 25 | 50 | 37 | 30 | 25 | 36 | 29 | 24 | 35 | 28 | 24 | 33 | 28 | 24 | 22 |

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UGR TABLE - CORRECTED

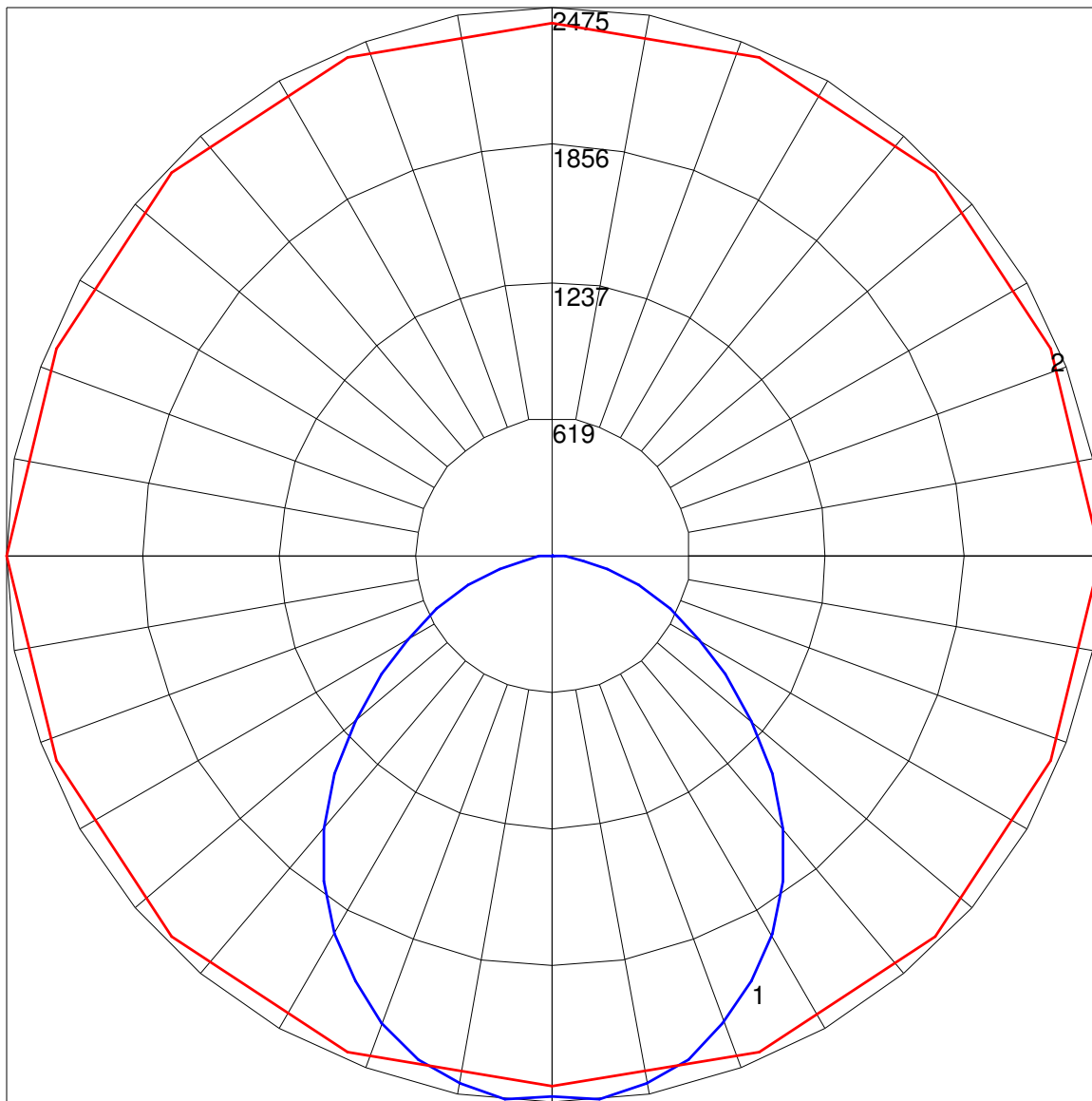
Reflectances

| | | | | | | | | | | |
|----------------|----|----|----|----|----|----|----|----|----|----|
| 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 | 17.5 | 19.0 | 17.9 | 19.4 | 19.9 | 20.9 | 22.4 | 21.4 | 22.9 | 23.3 |
| | 3H | 18.7 | 20.0 | 19.1 | 20.5 | 21.0 | 23.1 | 24.5 | 23.6 | 25.0 | 25.5 |
| | 4H | 19.0 | 20.3 | 19.5 | 20.8 | 21.3 | 24.2 | 25.5 | 24.7 | 25.9 | 26.5 |
| | 6H | 19.2 | 20.4 | 19.7 | 20.9 | 21.4 | 25.2 | 26.4 | 25.8 | 26.9 | 27.5 |
| | 8H | 19.2 | 20.3 | 19.7 | 20.9 | 21.4 | 25.8 | 26.9 | 26.3 | 27.4 | 28.0 |
| | 12H | 19.2 | 20.3 | 19.7 | 20.8 | 21.4 | 26.4 | 27.5 | 26.9 | 28.0 | 28.6 |
| 4H | 2H | 18.5 | 19.8 | 19.1 | 20.3 | 20.9 | 21.2 | 22.5 | 21.7 | 23.0 | 23.5 |
| | 3H | 20.0 | 21.1 | 20.5 | 21.6 | 22.2 | 23.7 | 24.8 | 24.2 | 25.3 | 25.8 |
| | 4H | 20.4 | 21.4 | 21.0 | 22.0 | 22.6 | 24.9 | 25.9 | 25.4 | 26.4 | 27.0 |
| | 6H | 20.7 | 21.6 | 21.3 | 22.2 | 22.8 | 26.1 | 27.0 | 26.7 | 27.6 | 28.2 |
| | 8H | 20.8 | 21.6 | 21.4 | 22.2 | 22.8 | 26.8 | 27.6 | 27.3 | 28.1 | 28.8 |
| | 12H | 20.8 | 21.6 | 21.4 | 22.2 | 22.8 | 27.5 | 28.2 | 28.1 | 28.8 | 29.4 |
| 8H | 4H | 21.2 | 22.0 | 21.8 | 22.6 | 23.2 | 25.0 | 25.8 | 25.6 | 26.4 | 27.0 |
| | 6H | 21.7 | 22.4 | 22.3 | 23.0 | 23.6 | 26.4 | 27.1 | 27.0 | 27.7 | 28.3 |
| | 8H | 21.8 | 22.5 | 22.5 | 23.1 | 23.7 | 27.2 | 27.8 | 27.8 | 28.4 | 29.1 |
| | 12H | 21.9 | 22.5 | 22.5 | 23.1 | 23.8 | 28.1 | 28.6 | 28.7 | 29.2 | 29.9 |
| 12H | 4H | 21.4 | 22.2 | 22.0 | 22.8 | 23.4 | 25.0 | 25.8 | 25.6 | 26.4 | 27.0 |
| | 6H | 22.0 | 22.6 | 22.6 | 23.2 | 23.9 | 26.5 | 27.1 | 27.1 | 27.7 | 28.3 |
| | 8H | 22.2 | 22.8 | 22.9 | 23.4 | 24.1 | 27.3 | 27.8 | 27.9 | 28.4 | 29.1 |

Maximum UGR = 29.9

POLAR GRAPH



Maximum Candela = 2474.508 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.)