



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75R-4-L65-835-(L56)-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

[ISSUE DATE] 12-08-2021

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 4' SURFACE MOUNT STRIP LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC ROUND LENS

[LUMCAT] 75R-4-L65-835-(L56)-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 | 5687 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 149 |
| Total Luminaire Watts | 38.2 |
| 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) | 3.72 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 | 19888 | 16815 | 16786 |
| 55 | 16413 | 14391 | 14777 |
| 65 | 13518 | 12087 | 12449 |
| 75 | 9134 | 9932 | 10200 |
| 85 | 5360 | 8531 | 8364 |

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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 | 1821.474 | 1821.474 | 1821.474 | 1821.474 | 1821.474 |
| 5 | 1841.472 | 1814.519 | 1815.388 | 1811.041 | 1792.783 |
| 10 | 1811.041 | 1788.436 | 1792.783 | 1790.175 | 1773.655 |
| 15 | 1758.005 | 1741.486 | 1753.658 | 1758.875 | 1741.486 |
| 20 | 1678.017 | 1673.670 | 1694.536 | 1703.231 | 1692.798 |
| 25 | 1584.118 | 1590.204 | 1619.765 | 1639.762 | 1631.937 |
| 30 | 1476.307 | 1485.002 | 1535.429 | 1565.859 | 1564.121 |
| 35 | 1345.022 | 1360.672 | 1433.705 | 1476.307 | 1482.393 |
| 40 | 1205.042 | 1216.345 | 1308.506 | 1372.844 | 1387.624 |
| 45 | 1039.849 | 1068.540 | 1174.612 | 1259.817 | 1280.683 |
| 50 | 868.569 | 914.650 | 1044.196 | 1137.226 | 1163.309 |
| 55 | 704.245 | 764.237 | 910.303 | 1007.680 | 1045.066 |
| 60 | 566.874 | 622.518 | 781.626 | 879.003 | 918.127 |
| 65 | 435.589 | 496.450 | 661.643 | 750.326 | 784.234 |
| 70 | 305.173 | 386.900 | 547.746 | 625.127 | 658.165 |
| 75 | 187.799 | 292.131 | 442.544 | 515.577 | 544.269 |
| 80 | 104.333 | 201.710 | 352.992 | 420.808 | 439.067 |
| 85 | 44.341 | 139.110 | 281.698 | 339.951 | 352.123 |
| 90 | 6.086 | 95.638 | 218.229 | 269.526 | 286.045 |
| 95 | 0.869 | 65.208 | 174.757 | 213.882 | 231.271 |
| 100 | 0.000 | 42.603 | 135.632 | 174.757 | 188.668 |
| 105 | 0.000 | 30.430 | 105.202 | 142.588 | 153.891 |
| 110 | 0.000 | 20.867 | 80.858 | 116.505 | 126.069 |
| 115 | 0.000 | 17.389 | 66.077 | 97.377 | 104.333 |
| 120 | 0.000 | 13.042 | 50.427 | 79.988 | 86.944 |
| 125 | 0.000 | 7.825 | 37.386 | 63.469 | 71.294 |
| 130 | 0.000 | 5.217 | 26.953 | 49.558 | 56.514 |
| 135 | 0.000 | 2.608 | 19.997 | 39.125 | 44.341 |
| 140 | 0.000 | 2.608 | 13.911 | 30.430 | 34.778 |
| 145 | 0.000 | 0.000 | 8.694 | 19.128 | 24.344 |
| 150 | 0.000 | 0.000 | 6.086 | 13.911 | 17.389 |
| 155 | 0.000 | 0.000 | 4.347 | 6.956 | 11.303 |
| 160 | 0.000 | 0.000 | 1.739 | 5.217 | 6.086 |
| 165 | 0.000 | 0.000 | 0.000 | 1.739 | 2.608 |
| 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 | 666.06 | N.A. | 11.70 |
| 0-30 | 1410.06 | N.A. | 24.80 |
| 0-40 | 2297.88 | N.A. | 40.40 |
| 0-60 | 3994.71 | N.A. | 70.20 |
| 0-80 | 5050.85 | N.A. | 88.80 |
| 0-90 | 5316.3 | N.A. | 93.50 |
| 10-90 | 5143.86 | N.A. | 90.50 |
| 20-40 | 1631.82 | N.A. | 28.70 |
| 20-50 | 2531.39 | N.A. | 44.50 |
| 40-70 | 2322.41 | N.A. | 40.80 |
| 60-80 | 1056.14 | N.A. | 18.60 |
| 70-80 | 430.57 | N.A. | 7.60 |
| 80-90 | 265.45 | N.A. | 4.70 |
| 90-110 | 253.32 | N.A. | 4.50 |
| 90-120 | 311.39 | N.A. | 5.50 |
| 90-130 | 344.36 | N.A. | 6.10 |
| 90-150 | 367.90 | N.A. | 6.50 |
| 90-180 | 370.36 | N.A. | 6.50 |
| 110-180 | 117.04 | N.A. | 2.10 |
| 0-180 | 5686.66 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 172.45 |
| 10-20 | 493.62 |
| 20-30 | 744.00 |
| 30-40 | 887.82 |
| 40-50 | 899.58 |
| 50-60 | 797.25 |
| 60-70 | 625.58 |
| 70-80 | 430.57 |
| 80-90 | 265.45 |
| 90-100 | 158.05 |
| 100-110 | 95.27 |
| 110-120 | 58.08 |
| 120-130 | 32.97 |
| 130-140 | 16.66 |
| 140-150 | 6.88 |
| 150-160 | 2.15 |
| 160-170 | 0.31 |
| 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

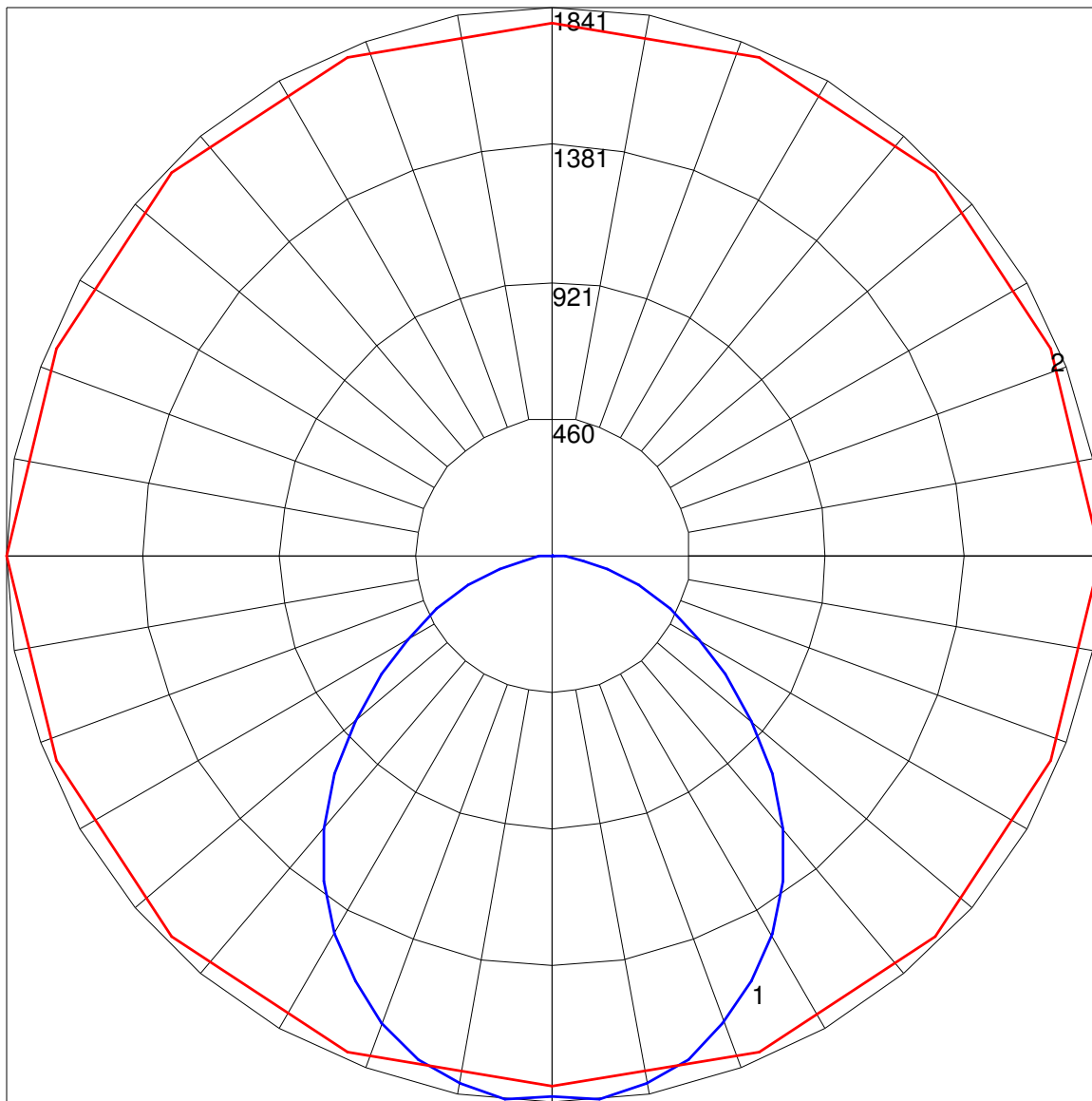
Reflectances

| | | | | | | | | | | |
|----------------|----|----|----|----|----|----|----|----|----|----|
| 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 | 18.8 | 20.3 | 19.2 | 20.7 | 21.2 | 22.2 | 23.7 | 22.6 | 24.1 | 24.6 |
| | 3H | 20.0 | 21.3 | 20.4 | 21.8 | 22.3 | 24.4 | 25.7 | 24.8 | 26.2 | 26.7 |
| | 4H | 20.3 | 21.6 | 20.8 | 22.1 | 22.6 | 25.4 | 26.7 | 25.9 | 27.2 | 27.7 |
| | 6H | 20.5 | 21.7 | 21.0 | 22.2 | 22.7 | 26.4 | 27.6 | 27.0 | 28.1 | 28.7 |
| | 8H | 20.5 | 21.6 | 21.0 | 22.2 | 22.7 | 27.0 | 28.1 | 27.5 | 28.6 | 29.2 |
| | 12H | 20.5 | 21.6 | 21.0 | 22.1 | 22.7 | 27.5 | 28.6 | 28.1 | 29.1 | 29.7 |
| 4H | 2H | 19.8 | 21.1 | 20.3 | 21.6 | 22.1 | 22.5 | 23.8 | 23.0 | 24.3 | 24.8 |
| | 3H | 21.3 | 22.4 | 21.8 | 22.9 | 23.4 | 24.9 | 26.0 | 25.4 | 26.5 | 27.1 |
| | 4H | 21.7 | 22.7 | 22.3 | 23.3 | 23.9 | 26.1 | 27.1 | 26.6 | 27.6 | 28.2 |
| | 6H | 22.0 | 22.9 | 22.6 | 23.4 | 24.1 | 27.3 | 28.2 | 27.9 | 28.8 | 29.4 |
| | 8H | 22.1 | 22.9 | 22.6 | 23.5 | 24.1 | 27.9 | 28.8 | 28.5 | 29.3 | 29.9 |
| | 12H | 22.1 | 22.8 | 22.7 | 23.4 | 24.1 | 28.6 | 29.4 | 29.2 | 30.0 | 30.6 |
| 8H | 4H | 22.5 | 23.3 | 23.1 | 23.9 | 24.5 | 26.3 | 27.1 | 26.8 | 27.6 | 28.3 |
| | 6H | 23.0 | 23.7 | 23.6 | 24.3 | 24.9 | 27.6 | 28.3 | 28.2 | 28.9 | 29.5 |
| | 8H | 23.1 | 23.7 | 23.7 | 24.4 | 25.0 | 28.4 | 29.0 | 29.0 | 29.6 | 30.3 |
| | 12H | 23.2 | 23.8 | 23.8 | 24.4 | 25.1 | 29.2 | 29.8 | 29.8 | 30.4 | 31.1 |
| 12H | 4H | 22.7 | 23.4 | 23.3 | 24.0 | 24.7 | 26.2 | 27.0 | 26.8 | 27.6 | 28.2 |
| | 6H | 23.3 | 23.9 | 23.9 | 24.5 | 25.2 | 27.7 | 28.3 | 28.3 | 28.9 | 29.6 |
| | 8H | 23.5 | 24.1 | 24.1 | 24.7 | 25.4 | 28.4 | 29.0 | 29.1 | 29.6 | 30.3 |

Maximum UGR = 31.1

POLAR GRAPH



Maximum Candela = 1841.472 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.)