



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75R-8-L120-8FS-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] 1-NOV-2019

[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-L120-8FS-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 | 11419 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 148 |
| Total Luminaire Watts | 76.9 |
| 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 | 20238 | 17001 | 16849 |
| 55 | 16798 | 14579 | 14833 |
| 65 | 13964 | 12278 | 12496 |
| 75 | 9623 | 10126 | 10239 |
| 85 | 6121 | 8751 | 8396 |

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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 | 3657.682 | 3657.682 | 3657.682 | 3657.682 | 3657.682 |
| 5 | 3697.837 | 3643.714 | 3645.460 | 3636.731 | 3600.067 |
| 10 | 3636.731 | 3591.337 | 3600.067 | 3594.829 | 3561.656 |
| 15 | 3530.230 | 3497.058 | 3521.501 | 3531.976 | 3497.058 |
| 20 | 3369.606 | 3360.877 | 3402.779 | 3420.238 | 3399.287 |
| 25 | 3181.048 | 3193.269 | 3252.630 | 3292.786 | 3277.073 |
| 30 | 2964.555 | 2982.014 | 3083.277 | 3144.384 | 3140.892 |
| 35 | 2700.923 | 2732.349 | 2879.006 | 2964.555 | 2976.777 |
| 40 | 2419.831 | 2442.528 | 2627.595 | 2756.792 | 2786.472 |
| 45 | 2088.108 | 2145.723 | 2358.724 | 2529.824 | 2571.726 |
| 50 | 1744.164 | 1836.697 | 2096.838 | 2283.650 | 2336.028 |
| 55 | 1414.187 | 1534.655 | 1827.968 | 2023.510 | 2098.584 |
| 60 | 1138.333 | 1250.072 | 1569.573 | 1765.115 | 1843.681 |
| 65 | 874.701 | 996.915 | 1328.638 | 1506.720 | 1574.811 |
| 70 | 612.814 | 776.930 | 1099.923 | 1255.309 | 1321.654 |
| 75 | 377.117 | 586.626 | 888.668 | 1035.325 | 1092.940 |
| 80 | 209.509 | 405.051 | 708.839 | 845.020 | 881.685 |
| 85 | 89.041 | 279.346 | 565.675 | 682.651 | 707.094 |
| 90 | 12.221 | 192.050 | 438.223 | 541.232 | 574.404 |
| 95 | 1.746 | 130.943 | 350.928 | 429.494 | 464.412 |
| 100 | 0.000 | 85.550 | 272.362 | 350.928 | 378.862 |
| 105 | 0.000 | 61.107 | 211.255 | 286.329 | 309.026 |
| 110 | 0.000 | 41.902 | 162.370 | 233.952 | 253.157 |
| 115 | 0.000 | 34.918 | 132.689 | 195.542 | 209.509 |
| 120 | 0.000 | 26.189 | 101.263 | 160.624 | 174.591 |
| 125 | 0.000 | 15.713 | 75.074 | 127.451 | 143.165 |
| 130 | 0.000 | 10.475 | 54.123 | 99.517 | 113.484 |
| 135 | 0.000 | 5.238 | 40.156 | 78.566 | 89.041 |
| 140 | 0.000 | 5.238 | 27.935 | 61.107 | 69.836 |
| 145 | 0.000 | 0.000 | 17.459 | 38.410 | 48.885 |
| 150 | 0.000 | 0.000 | 12.221 | 27.935 | 34.918 |
| 155 | 0.000 | 0.000 | 8.730 | 13.967 | 22.697 |
| 160 | 0.000 | 0.000 | 3.492 | 10.475 | 12.221 |
| 165 | 0.000 | 0.000 | 0.000 | 3.492 | 5.238 |
| 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 | 1337.52 | N.A. | 11.70 |
| 0-30 | 2831.53 | N.A. | 24.80 |
| 0-40 | 4614.34 | N.A. | 40.40 |
| 0-60 | 8021.73 | N.A. | 70.20 |
| 0-80 | 10142.56 | N.A. | 88.80 |
| 0-90 | 10675.6 | N.A. | 93.50 |
| 10-90 | 10329.32 | N.A. | 90.50 |
| 20-40 | 3276.83 | N.A. | 28.70 |
| 20-50 | 5083.26 | N.A. | 44.50 |
| 40-70 | 4663.6 | N.A. | 40.80 |
| 60-80 | 2120.83 | N.A. | 18.60 |
| 70-80 | 864.61 | N.A. | 7.60 |
| 80-90 | 533.04 | N.A. | 4.70 |
| 90-110 | 508.68 | N.A. | 4.50 |
| 90-120 | 625.30 | N.A. | 5.50 |
| 90-130 | 691.50 | N.A. | 6.10 |
| 90-150 | 738.77 | N.A. | 6.50 |
| 90-180 | 743.72 | N.A. | 6.50 |
| 110-180 | 235.03 | N.A. | 2.10 |
| 0-180 | 11419.32 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|---------|
| 0-10 | 346.29 |
| 10-20 | 991.23 |
| 20-30 | 1494.01 |
| 30-40 | 1782.82 |
| 40-50 | 1806.44 |
| 50-60 | 1600.95 |
| 60-70 | 1256.22 |
| 70-80 | 864.61 |
| 80-90 | 533.04 |
| 90-100 | 317.37 |
| 100-110 | 191.31 |
| 110-120 | 116.62 |
| 120-130 | 66.20 |
| 130-140 | 33.45 |
| 140-150 | 13.82 |
| 150-160 | 4.32 |
| 160-170 | 0.63 |
| 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 | 250 | 250 | 250 | 250 | 243 | 243 | 243 | 243 | 229 | 229 | 229 | 216 | 216 | 216 | 204 | 204 | 204 | 199 |
| 1 | 226 | 214 | 204 | 195 | 218 | 208 | 199 | 191 | 197 | 189 | 182 | 186 | 180 | 174 | 176 | 171 | 167 | 161 |
| 2 | 205 | 186 | 171 | 158 | 198 | 181 | 167 | 155 | 171 | 159 | 149 | 162 | 152 | 144 | 153 | 146 | 138 | 133 |
| 3 | 186 | 163 | 145 | 131 | 180 | 159 | 142 | 129 | 150 | 136 | 125 | 143 | 131 | 121 | 135 | 125 | 117 | 112 |
| 4 | 171 | 144 | 125 | 111 | 164 | 141 | 123 | 109 | 133 | 118 | 106 | 127 | 114 | 103 | 121 | 110 | 100 | 95 |
| 5 | 157 | 129 | 110 | 95 | 151 | 126 | 108 | 94 | 120 | 104 | 92 | 114 | 100 | 89 | 109 | 97 | 87 | 82 |
| 6 | 145 | 116 | 97 | 83 | 140 | 113 | 95 | 82 | 108 | 92 | 80 | 103 | 89 | 79 | 99 | 86 | 77 | 72 |
| 7 | 134 | 105 | 86 | 73 | 130 | 103 | 85 | 73 | 98 | 83 | 71 | 94 | 80 | 70 | 90 | 78 | 68 | 64 |
| 8 | 125 | 96 | 78 | 65 | 121 | 94 | 77 | 65 | 90 | 75 | 63 | 86 | 72 | 62 | 83 | 70 | 61 | 57 |
| 9 | 117 | 88 | 71 | 59 | 113 | 86 | 70 | 58 | 83 | 68 | 57 | 80 | 66 | 56 | 76 | 64 | 55 | 51 |
| 10 | 109 | 81 | 64 | 53 | 106 | 80 | 64 | 53 | 77 | 62 | 52 | 74 | 60 | 51 | 71 | 59 | 50 | 46 |

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UGR TABLE - CORRECTED

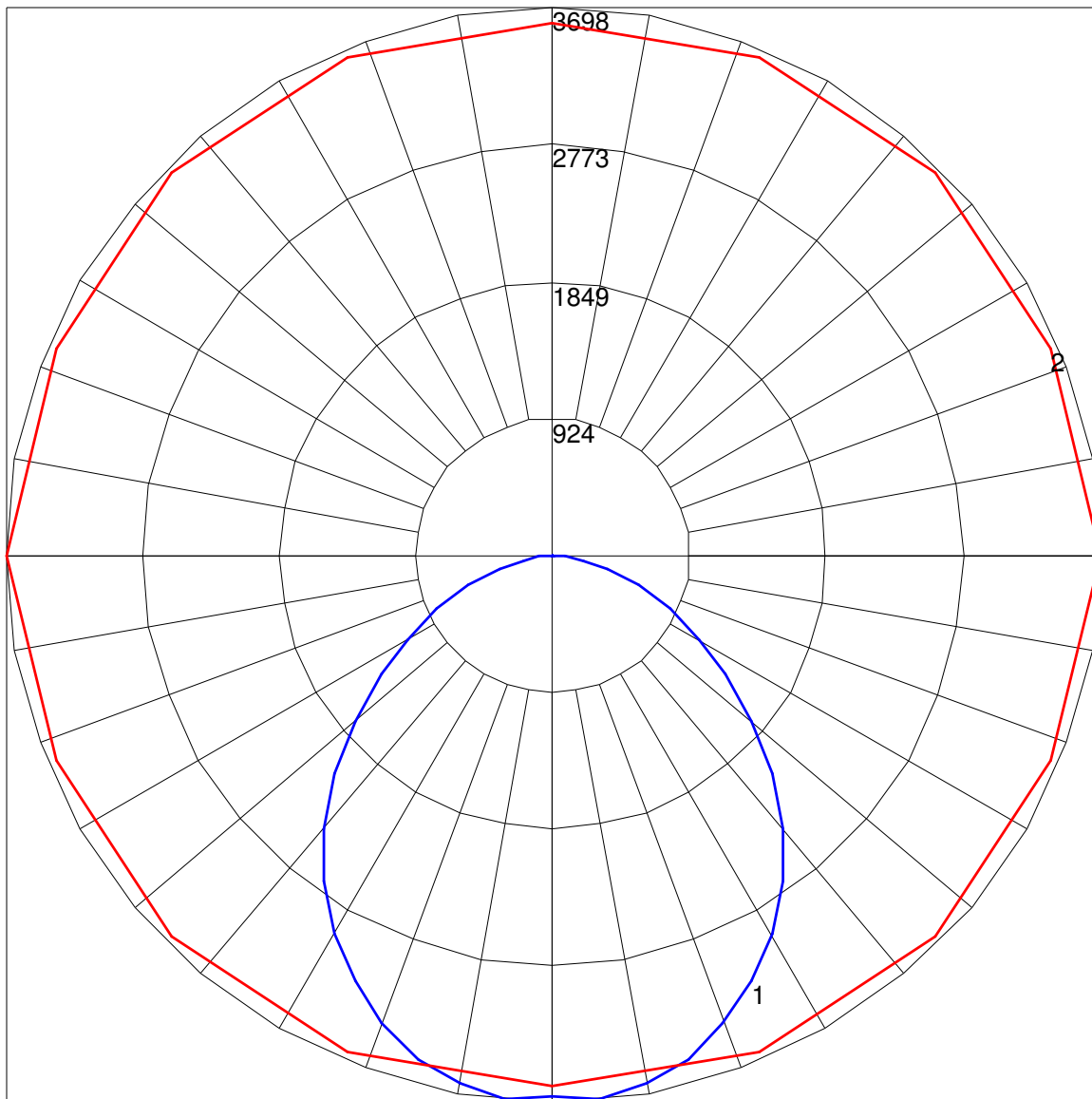
Reflectances

| | | | | | | | | | | |
|----------------|----|----|----|----|----|----|----|----|----|----|
| 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 | 17.3 | 18.8 | 17.8 | 19.2 | 19.7 | 19.6 | 21.1 | 20.1 | 21.6 | 22.0 |
| | 3H | 18.8 | 20.1 | 19.3 | 20.6 | 21.1 | 21.8 | 23.2 | 22.3 | 23.7 | 24.2 |
| | 4H | 19.3 | 20.6 | 19.8 | 21.0 | 21.6 | 22.9 | 24.2 | 23.4 | 24.6 | 25.2 |
| | 6H | 19.6 | 20.8 | 20.1 | 21.3 | 21.8 | 23.9 | 25.1 | 24.5 | 25.6 | 26.2 |
| | 8H | 19.7 | 20.8 | 20.2 | 21.4 | 21.9 | 24.5 | 25.6 | 25.0 | 26.1 | 26.7 |
| | 12H | 19.8 | 20.8 | 20.3 | 21.4 | 22.0 | 25.1 | 26.2 | 25.6 | 26.7 | 27.3 |
| 4H | 2H | 18.1 | 19.3 | 18.6 | 19.8 | 20.4 | 19.9 | 21.2 | 20.4 | 21.7 | 22.2 |
| | 3H | 19.8 | 20.9 | 20.3 | 21.4 | 21.9 | 22.4 | 23.5 | 22.9 | 24.0 | 24.5 |
| | 4H | 20.4 | 21.4 | 20.9 | 21.9 | 22.5 | 23.6 | 24.6 | 24.1 | 25.1 | 25.7 |
| | 6H | 20.8 | 21.7 | 21.4 | 22.3 | 22.9 | 24.8 | 25.7 | 25.4 | 26.3 | 26.9 |
| | 8H | 21.0 | 21.8 | 21.6 | 22.4 | 23.0 | 25.5 | 26.3 | 26.0 | 26.8 | 27.5 |
| | 12H | 21.1 | 21.8 | 21.7 | 22.4 | 23.1 | 26.2 | 26.9 | 26.8 | 27.5 | 28.1 |
| 8H | 4H | 20.9 | 21.7 | 21.5 | 22.3 | 22.9 | 23.7 | 24.5 | 24.3 | 25.1 | 25.7 |
| | 6H | 21.5 | 22.2 | 22.1 | 22.8 | 23.5 | 25.1 | 25.8 | 25.7 | 26.4 | 27.0 |
| | 8H | 21.8 | 22.4 | 22.4 | 23.0 | 23.7 | 25.9 | 26.5 | 26.5 | 27.1 | 27.8 |
| | 12H | 22.0 | 22.5 | 22.6 | 23.1 | 23.8 | 26.8 | 27.3 | 27.4 | 27.9 | 28.6 |
| 12H | 4H | 21.0 | 21.7 | 21.6 | 22.3 | 23.0 | 23.7 | 24.5 | 24.3 | 25.1 | 25.7 |
| | 6H | 21.7 | 22.3 | 22.3 | 22.9 | 23.6 | 25.2 | 25.8 | 25.8 | 26.4 | 27.0 |
| | 8H | 22.0 | 22.6 | 22.7 | 23.2 | 23.9 | 26.0 | 26.5 | 26.6 | 27.1 | 27.8 |

Maximum UGR = 28.6

POLAR GRAPH



Maximum Candela = 3697.837 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.)