



IES INDOOR REPORT
PHOTOMETRIC FILENAME : 75S-8-L130-835-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN from BALLABS TEST NO. 19745.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUEDATE] 1-SEP-2020
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO.64836
 [LUMINAIRE] 8' LED STRIP LUMINAIRE
 [MORE] WITH FROSTED ACRYLIC LENS
 [LUMCAT] 75S-8-L130-835-DIM-UNV
 [LAMPCAT]HLM 80 CRI, 3500K CCT
 [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 | 12353 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 141 |
| Total Luminaire Watts | 87.8 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.20 |
| Spacing Criterion (90-270) | 1.18 |
| Spacing Criterion (Diagonal) | 1.30 |
| Basic Luminous Shape | Rectangular w/Sides |
| Luminous Length (0-180) | 7.44 ft |
| Luminous Width (90-270) | 0.21 ft |
| Luminous Height | 0.08 ft |



LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 22482 | 18053 | 16965 |
| 55 | 19148 | 15162 | 15202 |
| 65 | 15150 | 12987 | 13809 |
| 75 | 10602 | 10655 | 12252 |
| 85 | 5070 | 9099 | 10740 |

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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 | 4167.981 | 4167.981 | 4167.981 | 4167.981 | 4167.981 |
| 5 | 4203.831 | 4151.000 | 4149.113 | 4139.679 | 4090.622 |
| 10 | 4132.132 | 4084.961 | 4088.735 | 4077.414 | 4032.130 |
| 15 | 4017.036 | 3971.752 | 3983.073 | 3971.752 | 3934.016 |
| 20 | 3824.580 | 3790.617 | 3824.580 | 3807.599 | 3767.976 |
| 25 | 3586.841 | 3573.633 | 3603.822 | 3601.936 | 3543.444 |
| 30 | 3324.573 | 3330.234 | 3364.197 | 3364.197 | 3292.497 |
| 35 | 3003.814 | 3049.098 | 3066.079 | 3071.740 | 2998.154 |
| 40 | 2654.753 | 2722.678 | 2707.584 | 2737.773 | 2700.037 |
| 45 | 2313.239 | 2373.617 | 2369.843 | 2424.561 | 2415.127 |
| 50 | 1964.178 | 2018.895 | 2062.292 | 2154.746 | 2173.614 |
| 55 | 1605.682 | 1673.608 | 1769.835 | 1907.573 | 1969.838 |
| 60 | 1267.942 | 1350.962 | 1515.115 | 1684.929 | 1766.062 |
| 65 | 943.409 | 1075.486 | 1281.149 | 1475.492 | 1558.512 |
| 70 | 647.179 | 820.766 | 1041.524 | 1252.847 | 1350.962 |
| 75 | 411.326 | 577.366 | 826.426 | 1037.750 | 1135.864 |
| 80 | 224.531 | 384.911 | 649.065 | 841.521 | 932.088 |
| 85 | 71.699 | 235.852 | 492.460 | 664.160 | 749.067 |
| 90 | 0.000 | 152.832 | 375.477 | 535.856 | 594.348 |
| 95 | 0.000 | 139.625 | 350.948 | 490.573 | 524.535 |
| 100 | 0.000 | 132.077 | 326.420 | 447.176 | 477.365 |
| 105 | 0.000 | 120.756 | 305.665 | 413.213 | 443.402 |
| 110 | 0.000 | 113.209 | 284.910 | 386.798 | 416.987 |
| 115 | 0.000 | 103.775 | 260.381 | 362.269 | 390.571 |
| 120 | 0.000 | 88.680 | 233.965 | 328.306 | 362.269 |
| 125 | 0.000 | 73.586 | 211.324 | 300.004 | 330.193 |
| 130 | 0.000 | 60.378 | 183.021 | 267.928 | 288.683 |
| 135 | 0.000 | 54.718 | 147.172 | 232.079 | 252.834 |
| 140 | 0.000 | 45.284 | 115.096 | 194.342 | 215.097 |
| 145 | 0.000 | 35.850 | 88.680 | 150.945 | 171.700 |
| 150 | 0.000 | 26.415 | 67.925 | 115.096 | 132.077 |
| 155 | 0.000 | 20.755 | 54.718 | 83.020 | 96.228 |
| 160 | 0.000 | 0.000 | 39.623 | 60.378 | 67.925 |
| 165 | 0.000 | 0.000 | 26.415 | 43.397 | 47.170 |
| 170 | 0.000 | 0.000 | 0.000 | 26.415 | 28.302 |
| 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 | 1513.07 | N.A. | 12.20 |
| 0-30 | 3164.97 | N.A. | 25.60 |
| 0-40 | 5066.49 | N.A. | 41.00 |
| 0-60 | 8513.49 | N.A. | 68.90 |
| 0-80 | 10631.56 | N.A. | 86.10 |
| 0-90 | 11137.32 | N.A. | 90.20 |
| 10-90 | 10743.5 | N.A. | 87.00 |
| 20-40 | 3553.43 | N.A. | 28.80 |
| 20-50 | 5397.76 | N.A. | 43.70 |
| 40-70 | 4706.91 | N.A. | 38.10 |
| 60-80 | 2118.07 | N.A. | 17.10 |
| 70-80 | 858.16 | N.A. | 6.90 |
| 80-90 | 505.75 | N.A. | 4.10 |
| 90-110 | 622.32 | N.A. | 5.00 |
| 90-120 | 850.14 | N.A. | 6.90 |
| 90-130 | 1017.97 | N.A. | 8.20 |
| 90-150 | 1184.54 | N.A. | 9.60 |
| 90-180 | 1215.75 | N.A. | 9.80 |
| 110-180 | 593.43 | N.A. | 4.80 |
| 0-180 | 12353.07 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|---------|
| 0-10 | 393.82 |
| 10-20 | 1119.25 |
| 20-30 | 1651.9 |
| 30-40 | 1901.52 |
| 40-50 | 1844.33 |
| 50-60 | 1602.67 |
| 60-70 | 1259.92 |
| 70-80 | 858.16 |
| 80-90 | 505.75 |
| 90-100 | 340.50 |
| 100-110 | 281.81 |
| 110-120 | 227.82 |
| 120-130 | 167.83 |
| 130-140 | 108.77 |
| 140-150 | 57.80 |
| 150-160 | 24.18 |
| 160-170 | 6.67 |
| 170-180 | 0.36 |

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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 | 261 | 261 | 261 | 261 | 253 | 253 | 253 | 253 | 236 | 236 | 236 | 222 | 222 | 222 | 208 | 208 | 208 | 202 |
| 1 | 236 | 225 | 215 | 206 | 228 | 218 | 209 | 200 | 204 | 197 | 190 | 192 | 186 | 180 | 180 | 175 | 171 | 165 |
| 2 | 215 | 196 | 180 | 167 | 207 | 190 | 176 | 164 | 178 | 167 | 156 | 168 | 158 | 150 | 158 | 150 | 143 | 137 |
| 3 | 196 | 172 | 154 | 139 | 189 | 167 | 150 | 137 | 157 | 143 | 131 | 148 | 136 | 126 | 140 | 130 | 122 | 116 |
| 4 | 180 | 153 | 133 | 118 | 173 | 148 | 130 | 116 | 140 | 125 | 112 | 132 | 119 | 109 | 125 | 114 | 105 | 99 |
| 5 | 165 | 137 | 117 | 102 | 159 | 133 | 114 | 101 | 126 | 110 | 98 | 119 | 105 | 94 | 113 | 101 | 92 | 86 |
| 6 | 153 | 123 | 104 | 89 | 147 | 120 | 102 | 88 | 114 | 98 | 86 | 108 | 94 | 83 | 103 | 90 | 81 | 76 |
| 7 | 142 | 112 | 93 | 79 | 137 | 109 | 91 | 78 | 104 | 88 | 76 | 99 | 85 | 74 | 94 | 82 | 72 | 67 |
| 8 | 132 | 102 | 84 | 71 | 128 | 100 | 82 | 70 | 95 | 79 | 68 | 91 | 77 | 66 | 86 | 74 | 65 | 60 |
| 9 | 124 | 94 | 76 | 64 | 119 | 92 | 75 | 63 | 88 | 72 | 62 | 84 | 70 | 60 | 80 | 68 | 59 | 54 |
| 10 | 116 | 87 | 69 | 58 | 112 | 85 | 68 | 57 | 81 | 66 | 56 | 78 | 64 | 55 | 74 | 62 | 53 | 49 |

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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

| | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|
| X=2H | Y=2H | 16.6 | 18.0 | 17.1 | 18.5 | 19.1 | 18.9 | 20.3 | 19.4 | 20.8 | 21.4 |
| | 3H | 17.8 | 19.0 | 18.3 | 19.6 | 20.1 | 21.3 | 22.6 | 21.8 | 23.1 | 23.7 |
| | 4H | 18.1 | 19.3 | 18.6 | 19.8 | 20.4 | 22.4 | 23.6 | 23.0 | 24.2 | 24.8 |
| | 6H | 18.2 | 19.4 | 18.8 | 19.9 | 20.5 | 23.6 | 24.7 | 24.2 | 25.3 | 25.9 |
| | 8H | 18.2 | 19.3 | 18.8 | 19.9 | 20.5 | 24.2 | 25.3 | 24.8 | 25.8 | 26.5 |
| | 12H | 18.2 | 19.3 | 18.8 | 19.8 | 20.5 | 24.8 | 25.9 | 25.4 | 26.4 | 27.1 |

UGR Viewed Endwise

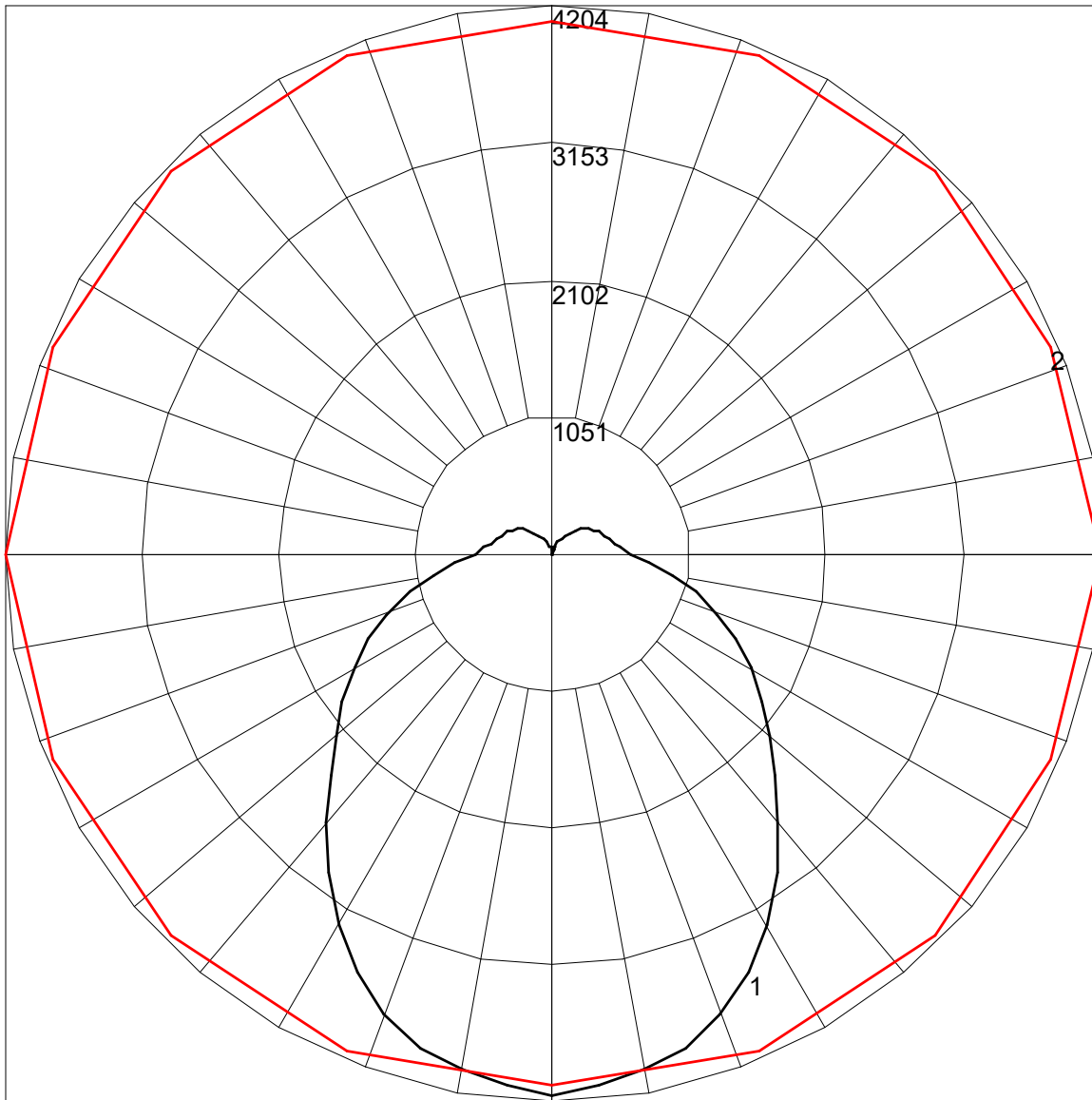
| | | | | | | | | | | | |
|----|-----|------|------|------|------|------|------|------|------|------|------|
| 4H | 2H | 17.4 | 18.6 | 18.0 | 19.2 | 19.8 | 19.2 | 20.4 | 19.8 | 21.0 | 21.6 |
| | 3H | 18.8 | 19.9 | 19.4 | 20.4 | 21.1 | 21.8 | 22.9 | 22.4 | 23.5 | 24.1 |
| | 4H | 19.3 | 20.2 | 19.9 | 20.8 | 21.5 | 23.2 | 24.1 | 23.7 | 24.7 | 25.3 |
| | 6H | 19.5 | 20.4 | 20.1 | 21.0 | 21.6 | 24.5 | 25.3 | 25.1 | 25.9 | 26.6 |
| | 8H | 19.6 | 20.4 | 20.2 | 21.0 | 21.7 | 25.2 | 26.0 | 25.8 | 26.6 | 27.3 |
| | 12H | 19.6 | 20.3 | 20.2 | 20.9 | 21.6 | 26.0 | 26.7 | 26.6 | 27.3 | 28.0 |

| | | | | | | | | | | | |
|----|-----|------|------|------|------|------|------|------|------|------|------|
| 8H | 4H | 19.9 | 20.7 | 20.5 | 21.3 | 22.0 | 23.3 | 24.1 | 23.9 | 24.7 | 25.4 |
| | 6H | 20.4 | 21.0 | 21.0 | 21.7 | 22.3 | 24.8 | 25.4 | 25.4 | 26.1 | 26.8 |
| | 8H | 20.5 | 21.1 | 21.1 | 21.7 | 22.4 | 25.6 | 26.2 | 26.3 | 26.9 | 27.6 |
| | 12H | 20.5 | 21.1 | 21.2 | 21.7 | 22.5 | 26.5 | 27.1 | 27.2 | 27.7 | 28.5 |

| | | | | | | | | | | | |
|-----|----|------|------|------|------|------|------|------|------|------|------|
| 12H | 4H | 20.1 | 20.8 | 20.7 | 21.4 | 22.1 | 23.3 | 24.0 | 23.9 | 24.6 | 25.3 |
| | 6H | 20.6 | 21.2 | 21.3 | 21.9 | 22.6 | 24.8 | 25.4 | 25.5 | 26.0 | 26.8 |
| | 8H | 20.8 | 21.4 | 21.5 | 22.0 | 22.8 | 25.7 | 26.2 | 26.3 | 26.8 | 27.6 |

Maximum UGR = 28.5

POLAR GRAPH



Maximum Candela = 4203.831 Located At Horizontal Angle = 0, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (90 - 270)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)