



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75L-4-L65-835-DMA_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 17956.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 22-JUL-2021

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 44" LED STRIP SURFACE MOUNT LUMINAIRE

[MORE] WHITE REFL w/.104"THK FROSTED ACRYLIC LENS

[LUMCAT] 75L-4-L65-835-DMA-DIM-UNV

[_SEARCH_SOURCETYPE]LED

[_SEARCH_APPLICATION]INDOOR,COMMERCIAL,INDUSTRIAL,DIRECT,LINEAR,MANUFACTURING,WAREHOUSE

[_SEARCH_MOUNTING]CEILING,SURFACE,SUSPENDED,WALL

CHARACTERISTICS

| | |
|---------------------------------|-----------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 6547 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 118 |
| Total Luminaire Watts | 55.7 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.22 |
| Spacing Criterion (90-270) | 1.10 |
| Spacing Criterion (Diagonal) | 1.24 |
| Basic Luminous Shape | Rectangular |
| Luminous Length (0-180) | 3.70 ft |
| Luminous Width (90-270) | 0.17 ft |
| Luminous Height | 0.00 ft |



LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 42178 | 37063 | 32192 |
| 55 | 36383 | 30928 | 26224 |
| 65 | 30633 | 24927 | 20852 |
| 75 | 24067 | 18965 | 15971 |
| 85 | 16468 | 11857 | 11198 |

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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 | 2916.110 | 2916.110 | 2916.110 | 2916.110 | 2916.110 |
| 5 | 2975.454 | 2909.516 | 2899.625 | 2873.250 | 2850.172 |
| 10 | 2919.407 | 2868.305 | 2845.226 | 2822.148 | 2787.531 |
| 15 | 2830.390 | 2789.179 | 2751.265 | 2724.889 | 2677.084 |
| 20 | 2711.702 | 2672.139 | 2622.685 | 2579.826 | 2525.427 |
| 25 | 2560.044 | 2518.833 | 2447.950 | 2398.496 | 2325.964 |
| 30 | 2385.309 | 2335.855 | 2241.893 | 2184.198 | 2091.884 |
| 35 | 2182.549 | 2128.150 | 2014.407 | 1931.985 | 1846.265 |
| 40 | 1953.414 | 1895.719 | 1773.733 | 1671.529 | 1582.513 |
| 45 | 1712.741 | 1641.857 | 1505.036 | 1419.316 | 1307.222 |
| 50 | 1458.879 | 1397.886 | 1254.471 | 1160.509 | 1073.142 |
| 55 | 1198.424 | 1160.509 | 1018.743 | 926.429 | 863.788 |
| 60 | 957.750 | 924.781 | 802.796 | 728.615 | 675.865 |
| 65 | 743.451 | 703.889 | 604.982 | 555.528 | 506.074 |
| 70 | 545.637 | 496.184 | 428.597 | 387.386 | 357.714 |
| 75 | 357.714 | 316.503 | 281.885 | 243.971 | 237.377 |
| 80 | 206.056 | 171.439 | 153.306 | 133.525 | 136.821 |
| 85 | 82.423 | 59.344 | 59.344 | 49.454 | 56.047 |
| 90 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 1050.61 | N.A. | 16.00 |
| 0-30 | 2177.99 | N.A. | 33.30 |
| 0-40 | 3441.04 | N.A. | 52.60 |
| 0-60 | 5544.02 | N.A. | 84.70 |
| 0-80 | 6471.57 | N.A. | 98.90 |
| 0-90 | 6546.72 | N.A. | 100.00 |
| 10-90 | 6271.65 | N.A. | 95.80 |
| 20-40 | 2390.43 | N.A. | 36.50 |
| 20-50 | 3564.28 | N.A. | 54.40 |
| 40-70 | 2722.4 | N.A. | 41.60 |
| 60-80 | 927.54 | N.A. | 14.20 |
| 70-80 | 308.12 | N.A. | 4.70 |
| 80-90 | 75.15 | N.A. | 1.10 |
| 90-110 | 0.00 | N.A. | 0.00 |
| 90-120 | 0.00 | N.A. | 0.00 |
| 90-130 | 0.00 | N.A. | 0.00 |
| 90-150 | 0.00 | N.A. | 0.00 |
| 90-180 | 0.00 | N.A. | 0.00 |
| 110-180 | 0.00 | N.A. | 0.00 |
| 0-180 | 6546.72 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|---------|
| 0-10 | 275.07 |
| 10-20 | 775.54 |
| 20-30 | 1127.38 |
| 30-40 | 1263.05 |
| 40-50 | 1173.85 |
| 50-60 | 929.14 |
| 60-70 | 619.42 |
| 70-80 | 308.12 |
| 80-90 | 75.15 |
| 90-100 | 0.00 |
| 100-110 | 0.00 |
| 110-120 | 0.00 |
| 120-130 | 0.00 |
| 130-140 | 0.00 |
| 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 | 381 | 381 | 381 | 381 | 372 | 372 | 372 | 372 | 356 | 356 | 356 | 341 | 341 | 341 | 327 | 327 | 327 | 320 |
| 1 | 352 | 338 | 325 | 314 | 343 | 331 | 319 | 309 | 317 | 308 | 300 | 305 | 297 | 290 | 293 | 287 | 282 | 275 |
| 2 | 323 | 298 | 278 | 262 | 314 | 292 | 274 | 258 | 281 | 266 | 253 | 271 | 258 | 247 | 261 | 251 | 241 | 235 |
| 3 | 296 | 265 | 241 | 221 | 289 | 260 | 238 | 220 | 251 | 231 | 216 | 242 | 226 | 212 | 234 | 220 | 208 | 202 |
| 4 | 273 | 237 | 211 | 191 | 266 | 233 | 208 | 189 | 225 | 204 | 187 | 218 | 199 | 184 | 211 | 195 | 182 | 175 |
| 5 | 252 | 213 | 186 | 166 | 246 | 210 | 184 | 165 | 203 | 181 | 164 | 197 | 177 | 162 | 191 | 174 | 160 | 154 |
| 6 | 234 | 193 | 166 | 147 | 228 | 190 | 165 | 146 | 185 | 162 | 145 | 179 | 159 | 144 | 175 | 156 | 142 | 136 |
| 7 | 217 | 176 | 150 | 131 | 212 | 174 | 148 | 130 | 169 | 146 | 129 | 164 | 144 | 129 | 160 | 142 | 128 | 122 |
| 8 | 203 | 162 | 136 | 118 | 198 | 159 | 135 | 117 | 155 | 133 | 117 | 151 | 131 | 116 | 148 | 129 | 115 | 109 |
| 9 | 190 | 149 | 124 | 107 | 186 | 147 | 123 | 106 | 143 | 121 | 106 | 140 | 120 | 105 | 137 | 118 | 105 | 99 |
| 10 | 179 | 138 | 113 | 97 | 175 | 136 | 113 | 97 | 133 | 112 | 97 | 130 | 110 | 96 | 127 | 109 | 96 | 90 |

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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 | 20.4 | 21.9 | 20.8 | 22.3 | 22.6 | 18.7 | 20.2 | 19.0 | 20.5 | 20.8 |
| | 3H | 21.9 | 23.3 | 22.3 | 23.6 | 24.0 | 20.0 | 21.4 | 20.3 | 21.7 | 22.0 |
| | 4H | 22.4 | 23.7 | 22.8 | 24.1 | 24.4 | 20.4 | 21.7 | 20.8 | 22.0 | 22.4 |
| | 6H | 22.8 | 24.0 | 23.2 | 24.3 | 24.7 | 20.7 | 21.9 | 21.1 | 22.3 | 22.7 |
| | 8H | 22.9 | 24.0 | 23.3 | 24.4 | 24.8 | 20.8 | 21.9 | 21.2 | 22.3 | 22.7 |
| | 12H | 22.9 | 24.0 | 23.4 | 24.4 | 24.8 | 20.8 | 21.9 | 21.3 | 22.3 | 22.7 |

UGR Viewed Endwise

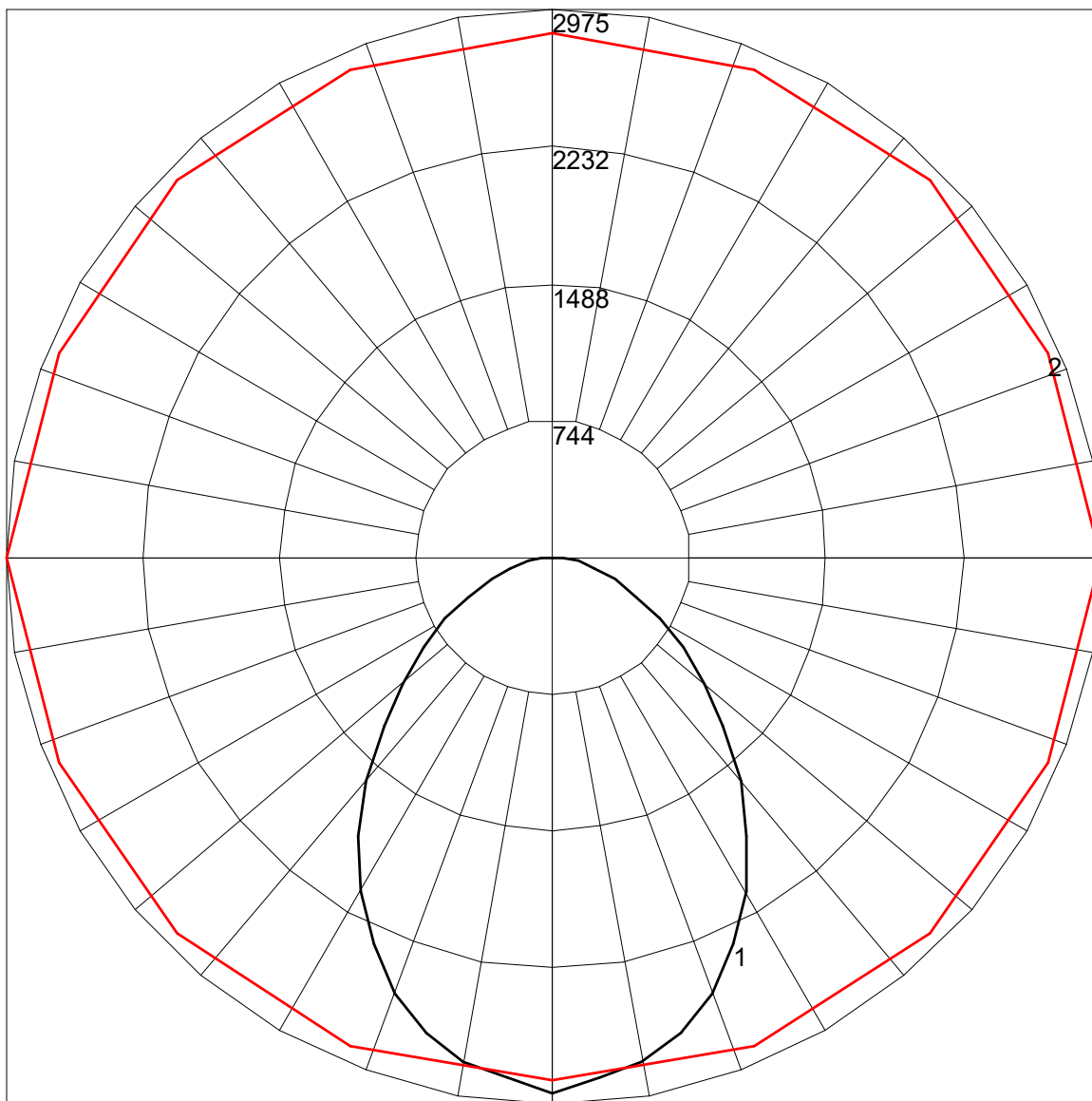
| | | | | | | | | | | | |
|----|-----|------|------|------|------|------|------|------|------|------|------|
| 4H | 2H | 20.7 | 22.0 | 21.1 | 22.4 | 22.8 | 19.3 | 20.6 | 19.7 | 20.9 | 21.3 |
| | 3H | 22.4 | 23.5 | 22.8 | 23.9 | 24.3 | 20.8 | 21.9 | 21.2 | 22.3 | 22.7 |
| | 4H | 23.1 | 24.0 | 23.5 | 24.4 | 24.9 | 21.3 | 22.3 | 21.8 | 22.7 | 23.1 |
| | 6H | 23.5 | 24.4 | 24.0 | 24.8 | 25.3 | 21.7 | 22.5 | 22.2 | 23.0 | 23.5 |
| | 8H | 23.7 | 24.4 | 24.1 | 24.9 | 25.4 | 21.8 | 22.6 | 22.3 | 23.1 | 23.5 |
| | 12H | 23.8 | 24.5 | 24.2 | 24.9 | 25.4 | 21.9 | 22.6 | 22.4 | 23.1 | 23.6 |

| | | | | | | | | | | | |
|----|-----|------|------|------|------|------|------|------|------|------|------|
| 8H | 4H | 23.2 | 24.0 | 23.6 | 24.4 | 24.9 | 21.6 | 22.4 | 22.1 | 22.8 | 23.3 |
| | 6H | 23.7 | 24.4 | 24.2 | 24.9 | 25.3 | 22.1 | 22.7 | 22.6 | 23.2 | 23.7 |
| | 8H | 23.9 | 24.5 | 24.4 | 25.0 | 25.5 | 22.2 | 22.8 | 22.8 | 23.3 | 23.8 |
| | 12H | 24.1 | 24.6 | 24.6 | 25.1 | 25.6 | 22.4 | 22.9 | 22.9 | 23.4 | 23.9 |

| | | | | | | | | | | | |
|-----|----|------|------|------|------|------|------|------|------|------|------|
| 12H | 4H | 23.2 | 23.9 | 23.7 | 24.4 | 24.8 | 21.6 | 22.3 | 22.1 | 22.8 | 23.3 |
| | 6H | 23.7 | 24.3 | 24.3 | 24.8 | 25.3 | 22.1 | 22.7 | 22.7 | 23.2 | 23.7 |
| | 8H | 24.0 | 24.5 | 24.5 | 25.0 | 25.5 | 22.3 | 22.8 | 22.8 | 23.3 | 23.9 |

Maximum UGR = 25.6

POLAR GRAPH



Maximum Candela = 2975.454 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.)