



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75L-8-L70-8TW-DMA-DIM-UNV 4000K_.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] 23-JUL-2021

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 89" LED STRIP SURFACE MOUNT LUMINAIRE

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

[LUMCAT] 75L-8-L70-8TW-DMA-DIM-UNV 4000k

[_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 | 7004 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 102 |
| Total Luminaire Watts | 68.5 |
| 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) | 7.44 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 | 22428 | 19708 | 17118 |
| 55 | 19346 | 16446 | 13944 |
| 65 | 16289 | 13255 | 11088 |
| 75 | 12797 | 10085 | 8492 |
| 85 | 8757 | 6305 | 5954 |

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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 | 3119.695 | 3119.695 | 3119.695 | 3119.695 | 3119.695 |
| 5 | 3183.182 | 3112.641 | 3102.060 | 3073.843 | 3049.154 |
| 10 | 3123.222 | 3068.553 | 3043.863 | 3019.174 | 2982.139 |
| 15 | 3027.991 | 2983.903 | 2943.342 | 2915.125 | 2863.982 |
| 20 | 2901.017 | 2858.692 | 2805.786 | 2759.934 | 2701.737 |
| 25 | 2738.771 | 2694.683 | 2618.851 | 2565.945 | 2488.349 |
| 30 | 2551.837 | 2498.930 | 2398.409 | 2336.685 | 2237.927 |
| 35 | 2334.922 | 2276.725 | 2155.041 | 2066.864 | 1975.160 |
| 40 | 2089.790 | 2028.066 | 1897.565 | 1788.225 | 1692.995 |
| 45 | 1832.314 | 1756.482 | 1610.108 | 1518.404 | 1398.484 |
| 50 | 1560.729 | 1495.479 | 1342.051 | 1241.529 | 1148.062 |
| 55 | 1282.091 | 1241.529 | 1089.865 | 991.107 | 924.093 |
| 60 | 1024.614 | 989.344 | 858.842 | 779.483 | 723.050 |
| 65 | 795.355 | 753.030 | 647.218 | 594.312 | 541.406 |
| 70 | 583.730 | 530.824 | 458.519 | 414.431 | 382.687 |
| 75 | 382.687 | 338.599 | 301.565 | 261.003 | 253.949 |
| 80 | 220.442 | 183.408 | 164.009 | 142.846 | 146.373 |
| 85 | 88.177 | 63.487 | 63.487 | 52.906 | 59.960 |
| 90 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 1123.96 | N.A. | 16.00 |
| 0-30 | 2330.05 | N.A. | 33.30 |
| 0-40 | 3681.27 | N.A. | 52.60 |
| 0-60 | 5931.07 | N.A. | 84.70 |
| 0-80 | 6923.37 | N.A. | 98.90 |
| 0-90 | 7003.77 | N.A. | 100.00 |
| 10-90 | 6709.49 | N.A. | 95.80 |
| 20-40 | 2557.32 | N.A. | 36.50 |
| 20-50 | 3813.11 | N.A. | 54.40 |
| 40-70 | 2912.46 | N.A. | 41.60 |
| 60-80 | 992.30 | N.A. | 14.20 |
| 70-80 | 329.63 | N.A. | 4.70 |
| 80-90 | 80.40 | 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 | 7003.77 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|---------|
| 0-10 | 294.28 |
| 10-20 | 829.68 |
| 20-30 | 1206.09 |
| 30-40 | 1351.23 |
| 40-50 | 1255.8 |
| 50-60 | 994.00 |
| 60-70 | 662.66 |
| 70-80 | 329.63 |
| 80-90 | 80.40 |
| 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 | 210 | 210 | 210 | 210 | 205 | 205 | 205 | 205 | 196 | 196 | 196 | 187 | 187 | 187 | 180 | 180 | 180 | 176 |
| 1 | 194 | 186 | 179 | 173 | 189 | 182 | 176 | 170 | 175 | 169 | 165 | 168 | 164 | 160 | 161 | 158 | 155 | 152 |
| 2 | 178 | 164 | 153 | 144 | 173 | 161 | 151 | 142 | 155 | 146 | 139 | 149 | 142 | 136 | 144 | 138 | 133 | 129 |
| 3 | 163 | 146 | 133 | 122 | 159 | 143 | 131 | 121 | 138 | 127 | 119 | 133 | 124 | 117 | 129 | 121 | 115 | 111 |
| 4 | 150 | 130 | 116 | 105 | 146 | 128 | 115 | 104 | 124 | 112 | 103 | 120 | 110 | 101 | 116 | 107 | 100 | 96 |
| 5 | 139 | 117 | 103 | 92 | 135 | 115 | 101 | 91 | 112 | 99 | 90 | 108 | 98 | 89 | 105 | 96 | 88 | 85 |
| 6 | 129 | 106 | 91 | 81 | 125 | 105 | 91 | 80 | 102 | 89 | 80 | 99 | 88 | 79 | 96 | 86 | 78 | 75 |
| 7 | 120 | 97 | 82 | 72 | 117 | 96 | 82 | 72 | 93 | 80 | 71 | 90 | 79 | 71 | 88 | 78 | 70 | 67 |
| 8 | 112 | 89 | 75 | 65 | 109 | 88 | 74 | 65 | 85 | 73 | 64 | 83 | 72 | 64 | 81 | 71 | 63 | 60 |
| 9 | 105 | 82 | 68 | 59 | 102 | 81 | 68 | 59 | 79 | 67 | 58 | 77 | 66 | 58 | 75 | 65 | 58 | 55 |
| 10 | 98 | 76 | 62 | 54 | 96 | 75 | 62 | 53 | 73 | 61 | 53 | 72 | 61 | 53 | 70 | 60 | 53 | 50 |

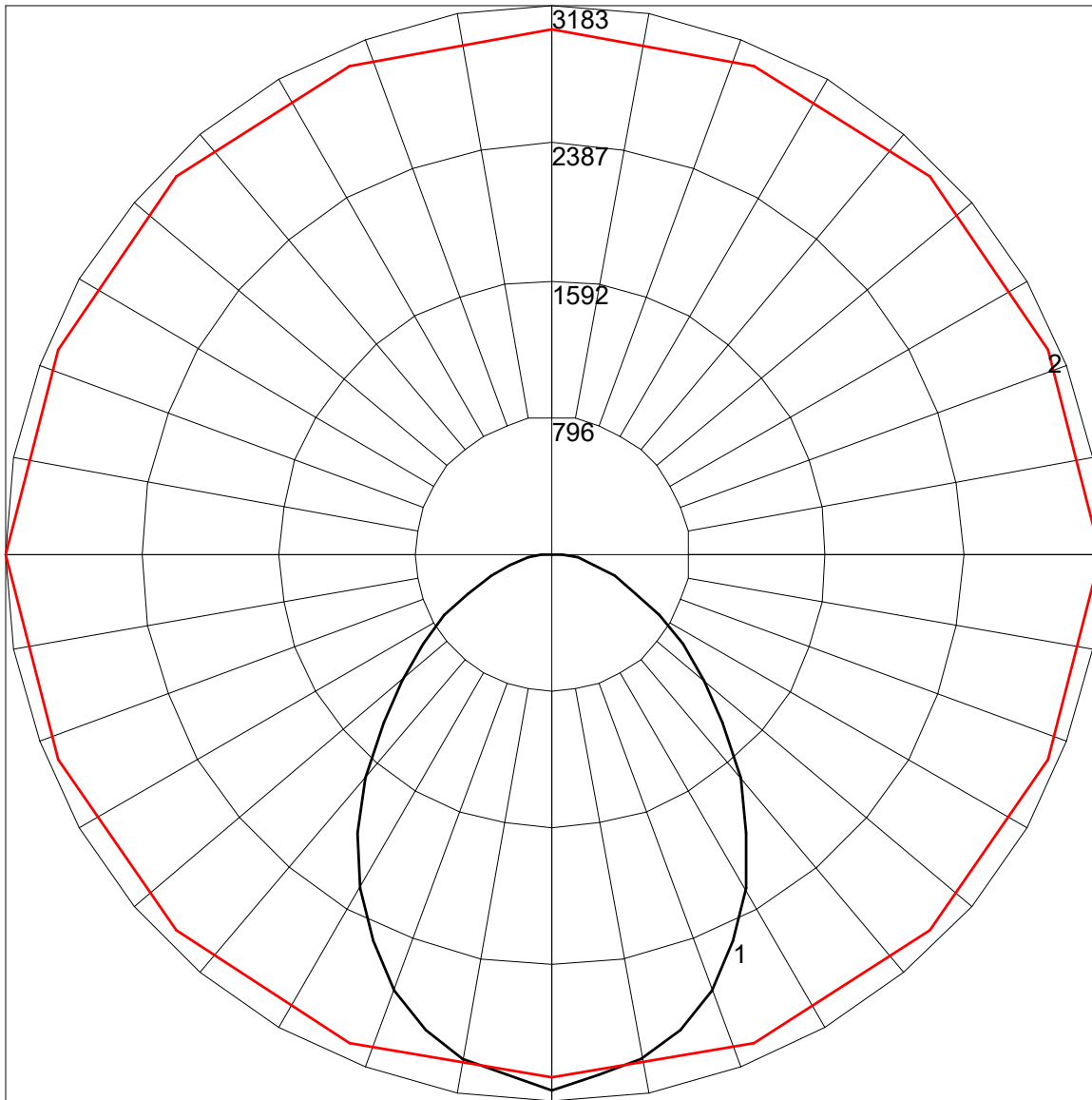
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UGR TABLE - CORRECTED

| 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 | 20.3 | 21.8 | 20.7 | 22.1 | 22.4 | 18.5 | 20.1 | 18.9 | 20.4 | 20.7 |
| | 3H | 21.8 | 23.1 | 22.1 | 23.5 | 23.8 | 19.8 | 21.2 | 20.2 | 21.5 | 21.9 |
| | 4H | 22.3 | 23.6 | 22.7 | 23.9 | 24.3 | 20.3 | 21.6 | 20.7 | 21.9 | 22.3 |
| | 6H | 22.6 | 23.8 | 23.0 | 24.2 | 24.6 | 20.6 | 21.8 | 21.0 | 22.1 | 22.5 |
| | 8H | 22.8 | 23.9 | 23.2 | 24.3 | 24.7 | 20.7 | 21.8 | 21.1 | 22.2 | 22.6 |
| | 12H | 22.8 | 23.9 | 23.2 | 24.3 | 24.7 | 20.7 | 21.8 | 21.1 | 22.2 | 22.6 |
| 4H | 2H | 20.6 | 21.9 | 21.0 | 22.3 | 22.6 | 19.2 | 20.5 | 19.6 | 20.8 | 21.2 |
| | 3H | 22.3 | 23.4 | 22.7 | 23.8 | 24.2 | 20.7 | 21.8 | 21.1 | 22.2 | 22.6 |
| | 4H | 22.9 | 23.9 | 23.3 | 24.3 | 24.7 | 21.2 | 22.2 | 21.6 | 22.6 | 23.0 |
| | 6H | 23.4 | 24.2 | 23.8 | 24.7 | 25.1 | 21.6 | 22.4 | 22.0 | 22.9 | 23.3 |
| | 8H | 23.5 | 24.3 | 24.0 | 24.8 | 25.2 | 21.7 | 22.5 | 22.2 | 22.9 | 23.4 |
| | 12H | 23.6 | 24.3 | 24.1 | 24.8 | 25.3 | 21.8 | 22.5 | 22.3 | 23.0 | 23.4 |
| 8H | 4H | 23.0 | 23.8 | 23.5 | 24.3 | 24.7 | 21.5 | 22.3 | 21.9 | 22.7 | 23.2 |
| | 6H | 23.6 | 24.2 | 24.1 | 24.7 | 25.2 | 21.9 | 22.6 | 22.4 | 23.1 | 23.6 |
| | 8H | 23.8 | 24.4 | 24.3 | 24.9 | 25.4 | 22.1 | 22.7 | 22.6 | 23.2 | 23.7 |
| | 12H | 23.9 | 24.4 | 24.4 | 24.9 | 25.5 | 22.2 | 22.7 | 22.7 | 23.2 | 23.8 |
| 12H | 4H | 23.0 | 23.7 | 23.5 | 24.2 | 24.7 | 21.5 | 22.2 | 22.0 | 22.7 | 23.2 |
| | 6H | 23.6 | 24.2 | 24.1 | 24.7 | 25.2 | 22.0 | 22.6 | 22.5 | 23.0 | 23.6 |
| | 8H | 23.8 | 24.3 | 24.3 | 24.8 | 25.4 | 22.2 | 22.7 | 22.7 | 23.2 | 23.8 |

Maximum UGR = 25.5

POLAR GRAPH



Maximum Candela = 3183.182 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.)