

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75L-4-L38-835-DMA-(L25)-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 17956.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUE DATE] 07-20-2023

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 44" LED STRIP SURFACE MOUNT LUMINAIRE

[LUMCAT] 75L-4-L38-835-DMA-(L25)-DIM-UNV

[_SEARCH_SOURCE TYPE] 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 | 2603 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 122 |
| Total Luminaire Watts | 21.31 |
| 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 | 16772 | 14738 | 12801 |
| 55 | 14468 | 12298 | 10428 |
| 65 | 12181 | 9912 | 8292 |
| 75 | 9570 | 7541 | 6351 |
| 85 | 6548 | 4715 | 4453 |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : 75L-4-L38-835-DMA-(L25)-DIM-UNV_.IES****CANDELA TABULATION**

| | <u>0.0</u> | <u>22.5</u> | <u>45.0</u> | <u>67.5</u> | <u>90.0</u> |
|-----------|------------|-------------|-------------|-------------|-------------|
| 0 | 1159.584 | 1159.584 | 1159.584 | 1159.584 | 1159.584 |
| 5 | 1183.182 | 1156.962 | 1153.029 | 1142.541 | 1133.364 |
| 10 | 1160.895 | 1140.574 | 1131.397 | 1122.220 | 1108.455 |
| 15 | 1125.498 | 1109.110 | 1094.033 | 1083.545 | 1064.536 |
| 20 | 1078.301 | 1062.569 | 1042.904 | 1025.861 | 1004.230 |
| 25 | 1017.995 | 1001.608 | 973.421 | 953.756 | 924.914 |
| 30 | 948.512 | 928.847 | 891.483 | 868.541 | 831.833 |
| 35 | 867.885 | 846.254 | 801.024 | 768.249 | 734.163 |
| 40 | 776.770 | 753.828 | 705.321 | 664.679 | 629.282 |
| 45 | 681.067 | 652.880 | 598.474 | 564.388 | 519.813 |
| 50 | 580.120 | 555.866 | 498.837 | 461.474 | 426.732 |
| 55 | 476.550 | 461.474 | 405.100 | 368.392 | 343.483 |
| 60 | 380.847 | 367.737 | 319.230 | 289.732 | 268.756 |
| 65 | 295.632 | 279.900 | 240.569 | 220.904 | 201.239 |
| 70 | 216.971 | 197.306 | 170.431 | 154.043 | 142.244 |
| 75 | 142.244 | 125.856 | 112.091 | 97.014 | 94.392 |
| 80 | 81.938 | 68.172 | 60.962 | 53.096 | 54.407 |
| 85 | 32.775 | 23.598 | 23.598 | 19.665 | 22.287 |
| 90 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : 75L-4-L38-835-DMA-(L25)-DIM-UNV_.IES****ZONAL LUMEN SUMMARY**

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 417.77 | N.A. | 16.00 |
| 0-30 | 866.07 | N.A. | 33.30 |
| 0-40 | 1368.32 | N.A. | 52.60 |
| 0-60 | 2204.57 | N.A. | 84.70 |
| 0-80 | 2573.4 | N.A. | 98.90 |
| 0-90 | 2603.29 | N.A. | 100.00 |
| 10-90 | 2493.9 | N.A. | 95.80 |
| 20-40 | 950.55 | N.A. | 36.50 |
| 20-50 | 1417.33 | N.A. | 54.40 |
| 40-70 | 1082.56 | N.A. | 41.60 |
| 60-80 | 368.84 | N.A. | 14.20 |
| 70-80 | 122.52 | N.A. | 4.70 |
| 80-90 | 29.88 | 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 | 2603.29 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 109.38 |
| 10-20 | 308.39 |
| 20-30 | 448.30 |
| 30-40 | 502.25 |
| 40-50 | 466.78 |
| 50-60 | 369.47 |
| 60-70 | 246.31 |
| 70-80 | 122.52 |
| 80-90 | 29.88 |
| 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 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1 | 110 | 106 | 102 | 98 | 107 | 103 | 100 | 97 | 99 | 96 | 94 | 95 | 93 | 91 | 92 | 90 | 88 | 86 |
| 2 | 101 | 93 | 87 | 82 | 98 | 91 | 86 | 81 | 88 | 83 | 79 | 85 | 81 | 77 | 82 | 78 | 75 | 73 |
| 3 | 93 | 83 | 75 | 69 | 90 | 81 | 74 | 69 | 78 | 72 | 67 | 76 | 71 | 66 | 73 | 69 | 65 | 63 |
| 4 | 85 | 74 | 66 | 60 | 83 | 73 | 65 | 59 | 70 | 64 | 58 | 68 | 62 | 58 | 66 | 61 | 57 | 55 |
| 5 | 79 | 67 | 58 | 52 | 77 | 66 | 58 | 52 | 63 | 56 | 51 | 62 | 55 | 51 | 60 | 54 | 50 | 48 |
| 6 | 73 | 60 | 52 | 46 | 71 | 59 | 51 | 46 | 58 | 51 | 45 | 56 | 50 | 45 | 55 | 49 | 44 | 43 |
| 7 | 68 | 55 | 47 | 41 | 66 | 54 | 46 | 41 | 53 | 46 | 40 | 51 | 45 | 40 | 50 | 44 | 40 | 38 |
| 8 | 63 | 50 | 42 | 37 | 62 | 50 | 42 | 37 | 49 | 41 | 36 | 47 | 41 | 36 | 46 | 40 | 36 | 34 |
| 9 | 59 | 47 | 39 | 33 | 58 | 46 | 38 | 33 | 45 | 38 | 33 | 44 | 37 | 33 | 43 | 37 | 33 | 31 |
| 10 | 56 | 43 | 35 | 30 | 55 | 43 | 35 | 30 | 42 | 35 | 30 | 41 | 34 | 30 | 40 | 34 | 30 | 28 |

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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

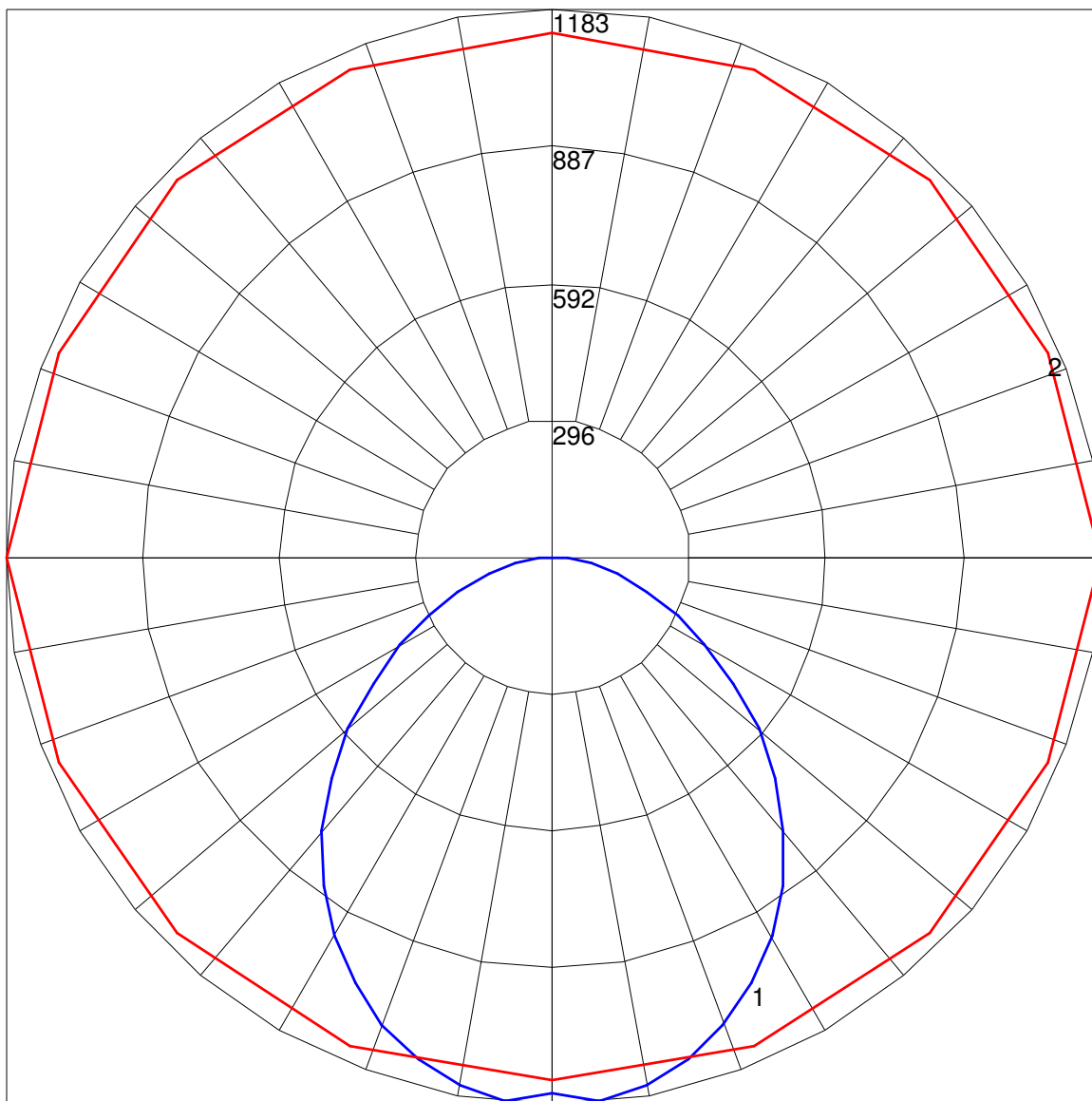
| X=2H | Y=2H | 21.2 | 22.7 | 21.6 | 23.1 | 23.4 | 19.5 | 21.0 | 19.8 | 21.3 | 21.6 |
|------|------|------|------|------|------|------|------|------|------|------|------|
| | 3H | 22.7 | 24.1 | 23.1 | 24.4 | 24.8 | 20.8 | 22.2 | 21.1 | 22.5 | 22.8 |
| | 4H | 23.2 | 24.5 | 23.6 | 24.9 | 25.2 | 21.2 | 22.5 | 21.6 | 22.8 | 23.2 |
| | 6H | 23.6 | 24.8 | 24.0 | 25.1 | 25.5 | 21.5 | 22.7 | 21.9 | 23.1 | 23.5 |
| | 8H | 23.7 | 24.8 | 24.1 | 25.2 | 25.6 | 21.6 | 22.7 | 22.0 | 23.1 | 23.5 |
| | 12H | 23.7 | 24.8 | 24.2 | 25.2 | 25.6 | 21.6 | 22.7 | 22.1 | 23.1 | 23.5 |

UGR Viewed Endwise

| | | | | | | | | | | | |
|-----|-----|------|------|------|------|------|------|------|------|------|------|
| 4H | 2H | 21.5 | 22.8 | 21.9 | 23.2 | 23.6 | 20.1 | 21.4 | 20.5 | 21.7 | 22.1 |
| | 3H | 23.2 | 24.3 | 23.6 | 24.7 | 25.1 | 21.6 | 22.7 | 22.0 | 23.1 | 23.5 |
| | 4H | 23.9 | 24.8 | 24.3 | 25.2 | 25.7 | 22.1 | 23.1 | 22.6 | 23.5 | 23.9 |
| | 6H | 24.3 | 25.2 | 24.8 | 25.6 | 26.1 | 22.5 | 23.3 | 23.0 | 23.8 | 24.3 |
| | 8H | 24.5 | 25.2 | 24.9 | 25.7 | 26.2 | 22.6 | 23.4 | 23.1 | 23.9 | 24.3 |
| | 12H | 24.6 | 25.3 | 25.0 | 25.7 | 26.2 | 22.7 | 23.4 | 23.2 | 23.9 | 24.4 |
| 8H | 4H | 24.0 | 24.8 | 24.4 | 25.2 | 25.7 | 22.4 | 23.2 | 22.9 | 23.6 | 24.1 |
| | 6H | 24.5 | 25.2 | 25.0 | 25.7 | 26.1 | 22.9 | 23.5 | 23.4 | 24.0 | 24.5 |
| | 8H | 24.7 | 25.3 | 25.2 | 25.8 | 26.3 | 23.0 | 23.6 | 23.6 | 24.1 | 24.6 |
| | 12H | 24.9 | 25.4 | 25.4 | 25.9 | 26.4 | 23.2 | 23.7 | 23.7 | 24.2 | 24.7 |
| 12H | 4H | 24.0 | 24.7 | 24.5 | 25.2 | 25.6 | 22.4 | 23.1 | 22.9 | 23.6 | 24.1 |
| | 6H | 24.5 | 25.1 | 25.1 | 25.6 | 26.1 | 22.9 | 23.5 | 23.5 | 24.0 | 24.5 |
| | 8H | 24.8 | 25.3 | 25.3 | 25.8 | 26.3 | 23.1 | 23.6 | 23.6 | 24.1 | 24.7 |

Maximum UGR = 26.4

POLAR GRAPH



Maximum Candela = 1183.182 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.)