



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75S-4-L85-835-(L70)-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] 06-25-2024

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 4' LED STRIP LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC SQUARE LENS

[LUMCAT] 75S-4-L85-835-(L70)-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 | 6864 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 153 |
| Total Luminaire Watts | 44.8 |
| 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) | 3.72 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 | 24719 | 19946 | 18858 |
| 55 | 20957 | 16721 | 16899 |
| 65 | 16456 | 14288 | 15351 |
| 75 | 11332 | 11679 | 13619 |
| 85 | 5063 | 9907 | 11938 |

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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 | 2315.958 | 2315.958 | 2315.958 | 2315.958 | 2315.958 |
| 5 | 2335.878 | 2306.522 | 2305.473 | 2300.231 | 2272.972 |
| 10 | 2296.038 | 2269.827 | 2271.924 | 2265.633 | 2240.471 |
| 15 | 2232.084 | 2206.922 | 2213.213 | 2206.922 | 2185.954 |
| 20 | 2125.145 | 2106.274 | 2125.145 | 2115.710 | 2093.693 |
| 25 | 1993.045 | 1985.706 | 2002.480 | 2001.432 | 1968.931 |
| 30 | 1847.314 | 1850.460 | 1869.331 | 1869.331 | 1829.491 |
| 35 | 1669.083 | 1694.245 | 1703.681 | 1706.826 | 1665.938 |
| 40 | 1475.126 | 1512.869 | 1504.481 | 1521.256 | 1500.288 |
| 45 | 1285.362 | 1318.911 | 1316.814 | 1347.218 | 1341.976 |
| 50 | 1091.404 | 1121.808 | 1145.922 | 1197.294 | 1207.779 |
| 55 | 892.205 | 929.948 | 983.417 | 1059.952 | 1094.549 |
| 60 | 704.538 | 750.668 | 841.880 | 936.238 | 981.320 |
| 65 | 524.209 | 597.599 | 711.877 | 819.864 | 865.994 |
| 70 | 359.608 | 456.062 | 578.727 | 696.150 | 750.668 |
| 75 | 228.555 | 320.816 | 459.208 | 576.630 | 631.148 |
| 80 | 124.762 | 213.877 | 360.656 | 467.595 | 517.919 |
| 85 | 39.840 | 131.052 | 273.637 | 369.043 | 416.222 |
| 90 | 0.000 | 84.922 | 208.635 | 297.751 | 330.252 |
| 95 | 0.000 | 77.583 | 195.006 | 272.589 | 291.460 |
| 100 | 0.000 | 73.389 | 181.376 | 248.475 | 265.250 |
| 105 | 0.000 | 67.099 | 169.844 | 229.604 | 246.378 |
| 110 | 0.000 | 62.905 | 158.311 | 214.926 | 231.701 |
| 115 | 0.000 | 57.663 | 144.682 | 201.296 | 217.023 |
| 120 | 0.000 | 49.276 | 130.004 | 182.425 | 201.296 |
| 125 | 0.000 | 40.888 | 117.423 | 166.699 | 183.473 |
| 130 | 0.000 | 33.549 | 101.697 | 148.875 | 160.408 |
| 135 | 0.000 | 30.404 | 81.777 | 128.956 | 140.488 |
| 140 | 0.000 | 25.162 | 63.954 | 107.987 | 119.520 |
| 145 | 0.000 | 19.920 | 49.276 | 83.874 | 95.406 |
| 150 | 0.000 | 14.678 | 37.743 | 63.954 | 73.389 |
| 155 | 0.000 | 11.533 | 30.404 | 46.130 | 53.469 |
| 160 | 0.000 | 0.000 | 22.017 | 33.549 | 37.743 |
| 165 | 0.000 | 0.000 | 14.678 | 24.114 | 26.210 |
| 170 | 0.000 | 0.000 | 0.000 | 14.678 | 15.726 |
| 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 | 840.74 | N.A. | 12.20 |
| 0-30 | 1758.63 | N.A. | 25.60 |
| 0-40 | 2815.22 | N.A. | 41.00 |
| 0-60 | 4730.56 | N.A. | 68.90 |
| 0-80 | 5907.48 | N.A. | 86.10 |
| 0-90 | 6188.5 | N.A. | 90.20 |
| 10-90 | 5969.68 | N.A. | 87.00 |
| 20-40 | 1974.48 | N.A. | 28.80 |
| 20-50 | 2999.29 | N.A. | 43.70 |
| 40-70 | 2615.42 | N.A. | 38.10 |
| 60-80 | 1176.92 | N.A. | 17.10 |
| 70-80 | 476.84 | N.A. | 6.90 |
| 80-90 | 281.02 | N.A. | 4.10 |
| 90-110 | 345.79 | N.A. | 5.00 |
| 90-120 | 472.38 | N.A. | 6.90 |
| 90-130 | 565.64 | N.A. | 8.20 |
| 90-150 | 658.19 | N.A. | 9.60 |
| 90-180 | 675.54 | N.A. | 9.80 |
| 110-180 | 329.74 | N.A. | 4.80 |
| 0-180 | 6864.04 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|---------|
| 0-10 | 218.83 |
| 10-20 | 621.92 |
| 20-30 | 917.89 |
| 30-40 | 1056.59 |
| 40-50 | 1024.81 |
| 50-60 | 890.53 |
| 60-70 | 700.08 |
| 70-80 | 476.84 |
| 80-90 | 281.02 |
| 90-100 | 189.20 |
| 100-110 | 156.59 |
| 110-120 | 126.59 |
| 120-130 | 93.26 |
| 130-140 | 60.44 |
| 140-150 | 32.11 |
| 150-160 | 13.44 |
| 160-170 | 3.71 |
| 170-180 | 0.20 |

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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 | 117 | 117 | 117 | 117 | 113 | 113 | 113 | 113 | 106 | 106 | 106 | 99 | 99 | 99 | 93 | 93 | 93 | 90 |
| 1 | 106 | 101 | 96 | 92 | 102 | 97 | 93 | 89 | 91 | 88 | 85 | 86 | 83 | 81 | 81 | 78 | 76 | 74 |
| 2 | 96 | 88 | 81 | 75 | 92 | 85 | 78 | 73 | 80 | 74 | 70 | 75 | 71 | 67 | 71 | 67 | 64 | 61 |
| 3 | 88 | 77 | 69 | 62 | 84 | 75 | 67 | 61 | 70 | 64 | 59 | 66 | 61 | 56 | 62 | 58 | 54 | 52 |
| 4 | 80 | 68 | 60 | 53 | 77 | 66 | 58 | 52 | 63 | 56 | 50 | 59 | 53 | 48 | 56 | 51 | 47 | 44 |
| 5 | 74 | 61 | 52 | 46 | 71 | 59 | 51 | 45 | 56 | 49 | 44 | 53 | 47 | 42 | 50 | 45 | 41 | 39 |
| 6 | 68 | 55 | 46 | 40 | 66 | 54 | 45 | 39 | 51 | 44 | 38 | 48 | 42 | 37 | 46 | 40 | 36 | 34 |
| 7 | 63 | 50 | 41 | 35 | 61 | 49 | 41 | 35 | 46 | 39 | 34 | 44 | 38 | 33 | 42 | 36 | 32 | 30 |
| 8 | 59 | 46 | 37 | 32 | 57 | 45 | 37 | 31 | 43 | 35 | 30 | 41 | 34 | 30 | 39 | 33 | 29 | 27 |
| 9 | 55 | 42 | 34 | 28 | 53 | 41 | 33 | 28 | 39 | 32 | 27 | 37 | 31 | 27 | 36 | 30 | 26 | 24 |
| 10 | 52 | 39 | 31 | 26 | 50 | 38 | 31 | 26 | 36 | 30 | 25 | 35 | 29 | 24 | 33 | 28 | 24 | 22 |

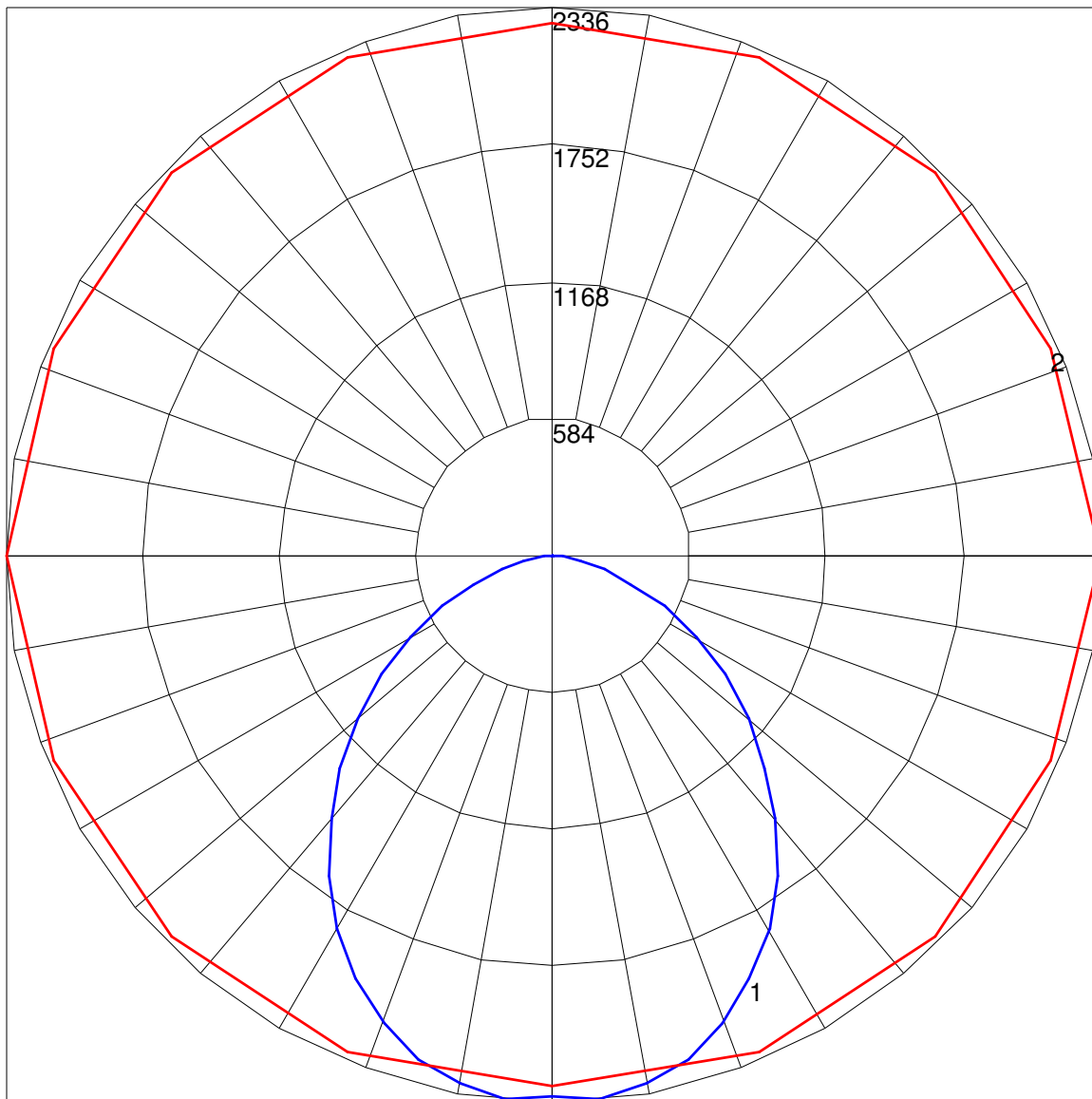
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UGR TABLE - CORRECTED

| | | | | | | | | | | | |
|----------------|------|----------------------|------|------|------|------|--------------------|------|------|------|------|
| 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 | 19.8 | 21.2 | 20.3 | 21.7 | 22.3 | 22.0 | 23.5 | 22.6 | 24.0 | 24.5 |
| | 3H | 21.0 | 22.2 | 21.5 | 22.8 | 23.3 | 24.4 | 25.7 | 25.0 | 26.2 | 26.8 |
| | 4H | 21.3 | 22.5 | 21.8 | 23.0 | 23.6 | 25.6 | 26.8 | 26.1 | 27.3 | 27.9 |
| | 6H | 21.4 | 22.6 | 22.0 | 23.1 | 23.7 | 26.7 | 27.8 | 27.3 | 28.4 | 29.0 |
| | 8H | 21.4 | 22.5 | 22.0 | 23.1 | 23.7 | 27.3 | 28.4 | 27.9 | 28.9 | 29.6 |
| | 12H | 21.4 | 22.5 | 22.0 | 23.0 | 23.7 | 27.9 | 28.9 | 28.5 | 29.5 | 30.2 |
| 4H | 2H | 20.6 | 21.8 | 21.1 | 22.3 | 23.0 | 22.4 | 23.6 | 22.9 | 24.1 | 24.8 |
| | 3H | 22.0 | 23.0 | 22.6 | 23.6 | 24.3 | 25.0 | 26.0 | 25.6 | 26.6 | 27.2 |
| | 4H | 22.5 | 23.4 | 23.0 | 24.0 | 24.6 | 26.3 | 27.2 | 26.9 | 27.8 | 28.5 |
| | 6H | 22.7 | 23.5 | 23.3 | 24.2 | 24.8 | 27.6 | 28.4 | 28.2 | 29.0 | 29.7 |
| | 8H | 22.8 | 23.5 | 23.4 | 24.2 | 24.8 | 28.3 | 29.1 | 28.9 | 29.7 | 30.4 |
| | 12H | 22.8 | 23.5 | 23.4 | 24.1 | 24.8 | 29.0 | 29.7 | 29.6 | 30.4 | 31.1 |
| 8H | 4H | 23.1 | 23.9 | 23.7 | 24.5 | 25.2 | 26.4 | 27.2 | 27.0 | 27.8 | 28.5 |
| | 6H | 23.5 | 24.2 | 24.2 | 24.8 | 25.5 | 27.9 | 28.6 | 28.6 | 29.2 | 29.9 |
| | 8H | 23.7 | 24.2 | 24.3 | 24.9 | 25.6 | 28.7 | 29.3 | 29.4 | 30.0 | 30.7 |
| | 12H | 23.7 | 24.2 | 24.4 | 24.9 | 25.7 | 29.6 | 30.1 | 30.3 | 30.8 | 31.6 |
| 12H | 4H | 23.3 | 24.0 | 23.9 | 24.6 | 25.3 | 26.4 | 27.1 | 27.0 | 27.8 | 28.5 |
| | 6H | 23.8 | 24.4 | 24.5 | 25.0 | 25.8 | 27.9 | 28.5 | 28.6 | 29.1 | 29.9 |
| | 8H | 24.0 | 24.5 | 24.7 | 25.2 | 26.0 | 28.8 | 29.3 | 29.4 | 30.0 | 30.7 |

Maximum UGR = 31.6

POLAR GRAPH



Maximum Candela = 2335.878 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.)