



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75L-2-L40-835-A12125_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 17755.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUE DATE] 4-AUG-2021

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 22" LED SURFACE MOUNT LUMINAIRE

[MORE] WHITE REFLECTOR w/CLEAR PRISMATIC LENS

[LUMCAT] 75L-2-L40-835-AF12125-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 | 4619 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 137 |
| Total Luminaire Watts | 33.8 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.28 |
| Spacing Criterion (90-270) | 1.16 |
| Spacing Criterion (Diagonal) | 1.22 |
| Basic Luminous Shape | Rectangular |
| Luminous Length (0-180) | 1.71 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 | 67103 | 51884 | 41507 |
| 55 | 53728 | 36362 | 30392 |
| 65 | 37986 | 24307 | 25359 |
| 75 | 28865 | 18556 | 23711 |
| 85 | 29593 | 21940 | 25001 |

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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 | 2225.569 | 2225.569 | 2225.569 | 2225.569 | 2225.569 |
| 5 | 2263.228 | 2223.139 | 2210.991 | 2202.487 | 2196.413 |
| 10 | 2234.072 | 2198.842 | 2190.339 | 2180.620 | 2169.686 |
| 15 | 2190.339 | 2151.464 | 2133.242 | 2144.175 | 2127.167 |
| 20 | 2119.878 | 2082.219 | 2066.426 | 2072.500 | 2066.426 |
| 25 | 2017.833 | 1988.677 | 1966.810 | 1942.513 | 1938.869 |
| 30 | 1906.068 | 1868.409 | 1801.593 | 1748.140 | 1710.481 |
| 35 | 1760.289 | 1705.621 | 1590.213 | 1452.937 | 1339.958 |
| 40 | 1545.264 | 1494.241 | 1295.009 | 1083.628 | 1005.879 |
| 45 | 1296.224 | 1264.638 | 1002.235 | 835.803 | 801.788 |
| 50 | 1059.332 | 1005.879 | 762.913 | 653.579 | 623.208 |
| 55 | 841.877 | 731.328 | 569.755 | 500.510 | 476.213 |
| 60 | 621.993 | 500.510 | 420.331 | 372.953 | 371.738 |
| 65 | 438.554 | 348.656 | 280.626 | 281.841 | 292.774 |
| 70 | 301.278 | 235.677 | 188.299 | 219.884 | 224.744 |
| 75 | 204.091 | 161.572 | 131.202 | 160.358 | 167.647 |
| 80 | 143.350 | 115.409 | 102.046 | 111.764 | 115.409 |
| 85 | 70.460 | 65.601 | 52.238 | 59.527 | 59.527 |
| 90 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 816.52 | N.A. | 17.70 |
| 0-30 | 1718.86 | N.A. | 37.20 |
| 0-40 | 2694.26 | N.A. | 58.30 |
| 0-60 | 4056.19 | N.A. | 87.80 |
| 0-80 | 4555.28 | N.A. | 98.60 |
| 0-90 | 4619.49 | N.A. | 100.00 |
| 10-90 | 4408.64 | N.A. | 95.40 |
| 20-40 | 1877.74 | N.A. | 40.60 |
| 20-50 | 2682.83 | N.A. | 58.10 |
| 40-70 | 1686.58 | N.A. | 36.50 |
| 60-80 | 499.09 | N.A. | 10.80 |
| 70-80 | 174.44 | N.A. | 3.80 |
| 80-90 | 64.21 | N.A. | 1.40 |
| 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 | 4619.49 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 210.85 |
| 10-20 | 605.67 |
| 20-30 | 902.34 |
| 30-40 | 975.40 |
| 40-50 | 805.09 |
| 50-60 | 556.83 |
| 60-70 | 324.65 |
| 70-80 | 174.44 |
| 80-90 | 64.21 |
| 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 | 115 | 115 | 115 | 115 | 112 | 112 | 112 | 112 | 107 | 107 | 107 | 103 | 103 | 103 | 98 | 98 | 98 | 96 |
| 1 | 106 | 102 | 99 | 96 | 104 | 100 | 97 | 94 | 96 | 94 | 91 | 92 | 90 | 88 | 89 | 87 | 86 | 84 |
| 2 | 98 | 91 | 85 | 81 | 96 | 89 | 84 | 80 | 86 | 82 | 78 | 83 | 79 | 76 | 80 | 77 | 74 | 73 |
| 3 | 91 | 82 | 75 | 69 | 88 | 80 | 74 | 69 | 77 | 72 | 67 | 75 | 70 | 66 | 72 | 68 | 65 | 63 |
| 4 | 84 | 73 | 66 | 60 | 82 | 72 | 65 | 60 | 70 | 64 | 59 | 68 | 62 | 58 | 66 | 61 | 57 | 56 |
| 5 | 78 | 67 | 59 | 53 | 76 | 65 | 58 | 53 | 64 | 57 | 52 | 62 | 56 | 52 | 60 | 55 | 51 | 49 |
| 6 | 72 | 61 | 53 | 47 | 70 | 60 | 52 | 47 | 58 | 51 | 46 | 56 | 51 | 46 | 55 | 50 | 46 | 44 |
| 7 | 67 | 55 | 48 | 42 | 66 | 55 | 47 | 42 | 53 | 47 | 42 | 52 | 46 | 42 | 51 | 45 | 41 | 39 |
| 8 | 63 | 51 | 43 | 38 | 62 | 50 | 43 | 38 | 49 | 43 | 38 | 48 | 42 | 38 | 47 | 41 | 37 | 36 |
| 9 | 59 | 47 | 40 | 35 | 58 | 46 | 39 | 35 | 45 | 39 | 34 | 44 | 39 | 34 | 44 | 38 | 34 | 33 |
| 10 | 56 | 44 | 37 | 32 | 54 | 43 | 36 | 32 | 42 | 36 | 32 | 41 | 36 | 31 | 41 | 35 | 31 | 30 |

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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 | 24.9 | 26.4 | 25.3 | 26.7 | 27.0 | 22.3 | 23.7 | 22.6 | 24.0 | 24.4 |
| | 3H | 26.1 | 27.4 | 26.4 | 27.7 | 28.1 | 23.8 | 25.1 | 24.1 | 25.4 | 25.8 |
| | 4H | 26.5 | 27.7 | 26.9 | 28.1 | 28.5 | 24.4 | 25.6 | 24.8 | 26.0 | 26.4 |
| | 6H | 27.0 | 28.1 | 27.4 | 28.4 | 28.8 | 25.0 | 26.1 | 25.4 | 26.5 | 26.9 |
| | 8H | 27.1 | 28.2 | 27.6 | 28.6 | 29.0 | 25.2 | 26.3 | 25.7 | 26.7 | 27.1 |
| | 12H | 27.3 | 28.3 | 27.7 | 28.7 | 29.1 | 25.4 | 26.4 | 25.8 | 26.8 | 27.3 |

UGR Viewed Endwise

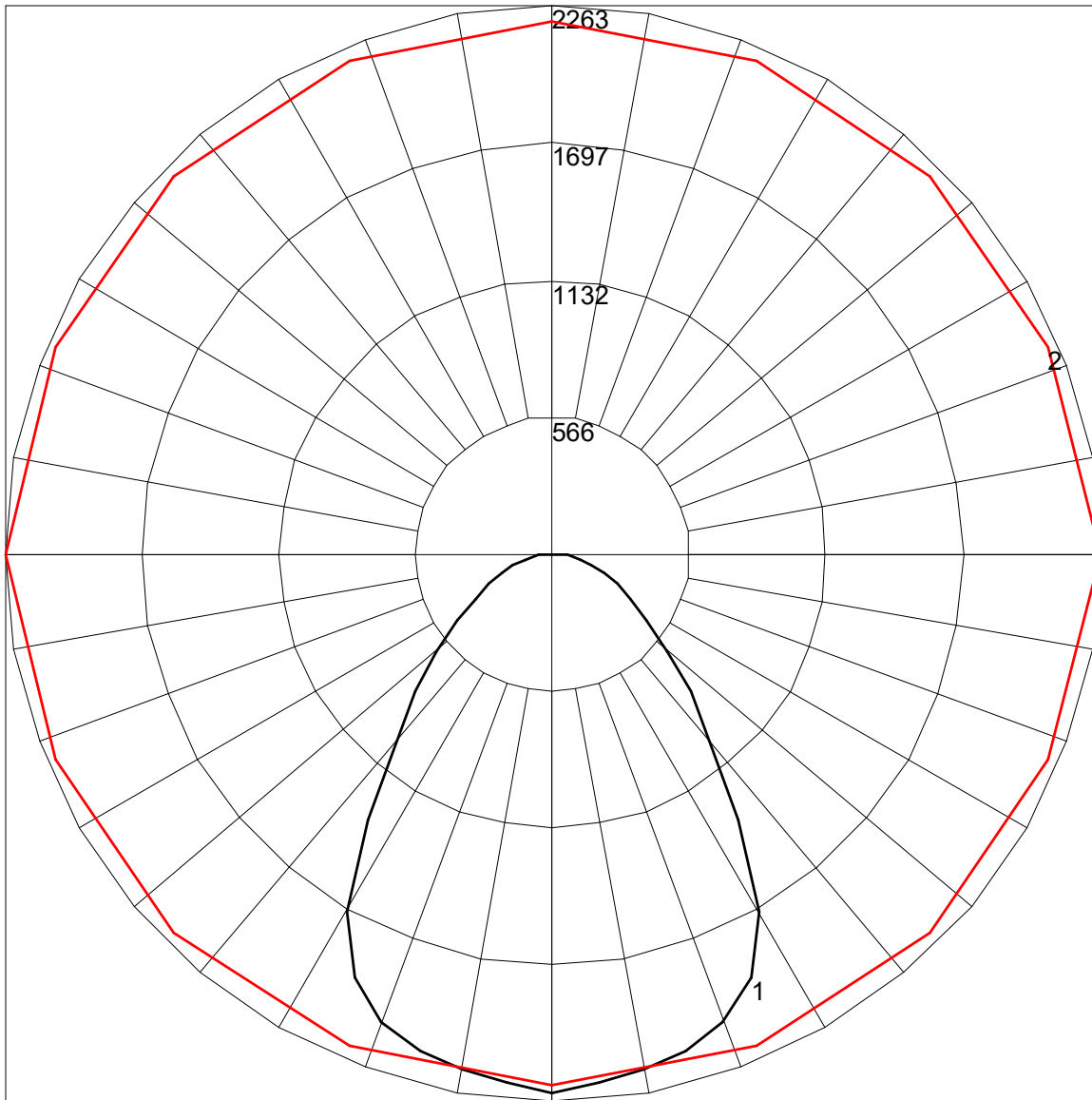
| | | | | | | | | | | | |
|----|-----|------|------|------|------|------|------|------|------|------|------|
| 4H | 2H | 25.0 | 26.2 | 25.4 | 26.6 | 27.0 | 22.7 | 23.9 | 23.1 | 24.3 | 24.7 |
| | 3H | 26.3 | 27.4 | 26.8 | 27.8 | 28.2 | 24.4 | 25.4 | 24.8 | 25.8 | 26.2 |
| | 4H | 26.9 | 27.8 | 27.3 | 28.2 | 28.7 | 25.2 | 26.1 | 25.7 | 26.6 | 27.0 |
| | 6H | 27.5 | 28.3 | 28.0 | 28.7 | 29.2 | 26.0 | 26.8 | 26.4 | 27.2 | 27.7 |
| | 8H | 27.8 | 28.5 | 28.2 | 29.0 | 29.4 | 26.3 | 27.0 | 26.7 | 27.5 | 27.9 |
| | 12H | 28.0 | 28.7 | 28.5 | 29.1 | 29.6 | 26.5 | 27.2 | 27.0 | 27.7 | 28.2 |

| | | | | | | | | | | | |
|----|-----|------|------|------|------|------|------|------|------|------|------|
| 8H | 4H | 27.0 | 27.7 | 27.5 | 28.2 | 28.7 | 25.4 | 26.2 | 25.9 | 26.6 | 27.1 |
| | 6H | 27.7 | 28.3 | 28.2 | 28.8 | 29.3 | 26.4 | 27.0 | 26.9 | 27.5 | 27.9 |
| | 8H | 28.1 | 28.6 | 28.6 | 29.1 | 29.6 | 26.8 | 27.3 | 27.3 | 27.8 | 28.3 |
| | 12H | 28.4 | 28.9 | 28.9 | 29.4 | 30.0 | 27.1 | 27.6 | 27.7 | 28.1 | 28.7 |

| | | | | | | | | | | | |
|-----|----|------|------|------|------|------|------|------|------|------|------|
| 12H | 4H | 27.0 | 27.7 | 27.5 | 28.1 | 28.6 | 25.5 | 26.1 | 26.0 | 26.6 | 27.1 |
| | 6H | 27.8 | 28.3 | 28.3 | 28.8 | 29.3 | 26.4 | 27.0 | 27.0 | 27.5 | 28.0 |
| | 8H | 28.2 | 28.6 | 28.7 | 29.1 | 29.7 | 26.9 | 27.4 | 27.4 | 27.9 | 28.5 |

Maximum UGR = 30.0

POLAR GRAPH



Maximum Candela = 2263.228 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.)