H.E. WILLIAMS, INC.

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : 75-8-L130-835-DIM-UNV_.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] GEN from BALLABS TEST NO. 17875.0
[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
[ISSUEDATE] 18-AUG-2020
[MANUFAC] H.E. WILLIAMS, INC - CARTHAGE, MO
[LUMINAIRE] 8' STRIP w/WHITE REFLECTOR
[LUMCAT] 75-8-L130-835-DIM-UNV

**CHARACTERISTICS**

| | |
|---|---|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 13011 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 148 |
| Total Luminaire Watts | 87.9 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.32 |
| Spacing Criterion (90-270) | 1.28 |
| Spacing Criterion (Diagonal) | 1.42 |
| Basic Luminous Shape | Rectangular w/Sides |
| Luminous Length (0-180) | 7.62 ft |
| Luminous Width (90-270) | 0.22 ft |
| Luminous Height | 0.01 ft |

**LUMINANCE DATA (cd/sq.m)**

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---|---|---|---|
| 45 | 28075 | 26848 | 26474 |
| 55 | 27377 | 25889 | 25344 |
| 65 | 25530 | 23508 | 22757 |
| 75 | 21550 | 19026 | 18213 |
| 85 | 11366 | 10783 | 8858 |

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**CANDELA TABULATION**

| | 0.0 | 22.5 | 45.0 | 67.5 | 90.0 |
|---|---|---|---|---|---|
| **0** | 4417.439 | 4417.439 | 4417.439 | 4417.439 | 4417.439 |
| **5** | 4449.716 | 4422.050 | 4403.605 | 4391.309 | 4386.698 |
| **10** | 4400.531 | 4372.865 | 4351.346 | 4339.050 | 4332.902 |
| **15** | 4326.753 | 4291.402 | 4269.883 | 4251.439 | 4257.587 |
| **20** | 4209.939 | 4180.735 | 4156.143 | 4137.698 | 4148.457 |
| **25** | 4062.383 | 4037.791 | 4002.439 | 3987.069 | 3980.921 |
| **30** | 3896.384 | 3861.032 | 3821.069 | 3808.773 | 3776.495 |
| **35** | 3684.273 | 3655.069 | 3608.958 | 3599.736 | 3565.921 |
| **40** | 3438.347 | 3376.866 | 3352.273 | 3335.366 | 3326.144 |
| **45** | 3150.922 | 3075.607 | 3060.237 | 3046.403 | 3035.644 |
| **50** | 2832.755 | 2763.589 | 2751.293 | 2745.144 | 2709.793 |
| **55** | 2493.071 | 2420.830 | 2410.071 | 2410.071 | 2379.330 |
| **60** | 2124.182 | 2059.627 | 2028.886 | 2042.719 | 1996.608 |
| **65** | 1713.794 | 1666.146 | 1630.794 | 1659.998 | 1598.516 |
| **70** | 1298.795 | 1238.850 | 1220.406 | 1251.146 | 1203.498 |
| **75** | 886.869 | 828.462 | 828.462 | 828.462 | 810.017 |
| **80** | 471.870 | 462.648 | 462.648 | 454.962 | 436.518 |
| **85** | 158.315 | 166.000 | 176.759 | 169.074 | 153.703 |
| **90** | 13.833 | 13.833 | 21.518 | 13.833 | 13.833 |
| **95** | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| **100** | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| **105** | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| **110** | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| **115** | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| **120** | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| **125** | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| **130** | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| **135** | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| **140** | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| **145** | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| **150** | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| **155** | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| **160** | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| **165** | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| **170** | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| **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 | 1626.81 | N.A. | 12.50 |
| 0-30 | 3476.96 | N.A. | 26.70 |
| 0-40 | 5739.83 | N.A. | 44.10 |
| 0-60 | 10266.13 | N.A. | 78.90 |
| 0-80 | 12786.38 | N.A. | 98.30 |
| 0-90 | 13006.39 | N.A. | 100.00 |
| 10-90 | 12587.28 | N.A. | 96.70 |
| 20-40 | 4113.02 | N.A. | 31.60 |
| 20-50 | 6481.07 | N.A. | 49.80 |
| 40-70 | 6158.76 | N.A. | 47.30 |
| 60-80 | 2520.25 | N.A. | 19.40 |
| 70-80 | 887.79 | N.A. | 6.80 |
| 80-90 | 220.01 | N.A. | 1.70 |
| 90-110 | 4.31 | N.A. | 0.00 |
| 90-120 | 4.31 | N.A. | 0.00 |
| 90-130 | 4.31 | N.A. | 0.00 |
| 90-150 | 4.31 | N.A. | 0.00 |
| 90-180 | 4.31 | N.A. | 0.00 |
| 110-180 | 0.00 | N.A. | 0.00 |
| 0-180 | 13010.71 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

| Zone | Lumens |
|---|---|
| 0-10 | 419.11 |
| 10-20 | 1207.69 |
| 20-30 | 1850.15 |
| 30-40 | 2262.87 |
| 40-50 | 2368.04 |
| 50-60 | 2158.26 |
| 60-70 | 1632.46 |
| 70-80 | 887.79 |
| 80-90 | 220.01 |
| 90-100 | 4.31 |
| 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 | 122 | 122 | 122 | 122 | 119 | 119 | 119 | 119 | 114 | 114 | 114 | 109 | 109 | 109 | 105 | 105 | 105 | 102 |
| 1 | 111 | 107 | 102 | 98 | 109 | 104 | 100 | 97 | 100 | 97 | 94 | 96 | 93 | 91 | 92 | 90 | 88 | 86 |
| 2 | 101 | 93 | 86 | 80 | 99 | 91 | 84 | 79 | 87 | 82 | 77 | 84 | 79 | 75 | 81 | 77 | 74 | 71 |
| 3 | 92 | 81 | 73 | 66 | 90 | 80 | 72 | 66 | 77 | 70 | 64 | 74 | 68 | 63 | 71 | 66 | 62 | 60 |
| 4 | 84 | 72 | 63 | 56 | 82 | 71 | 62 | 55 | 68 | 61 | 55 | 66 | 59 | 54 | 63 | 58 | 53 | 51 |
| 5 | 77 | 64 | 55 | 48 | 75 | 63 | 54 | 48 | 61 | 53 | 47 | 59 | 52 | 47 | 57 | 51 | 46 | 44 |
| 6 | 71 | 58 | 48 | 42 | 69 | 57 | 48 | 42 | 55 | 47 | 41 | 53 | 46 | 41 | 51 | 45 | 40 | 38 |
| 7 | 66 | 52 | 43 | 37 | 64 | 51 | 43 | 37 | 50 | 42 | 36 | 48 | 41 | 36 | 47 | 41 | 36 | 34 |
| 8 | 62 | 48 | 39 | 33 | 60 | 47 | 39 | 33 | 46 | 38 | 32 | 44 | 37 | 32 | 43 | 37 | 32 | 30 |
| 9 | 58 | 44 | 35 | 29 | 56 | 43 | 35 | 29 | 42 | 34 | 29 | 41 | 34 | 29 | 40 | 33 | 29 | 27 |
| 10 | 54 | 40 | 32 | 27 | 53 | 40 | 32 | 27 | 39 | 31 | 26 | 38 | 31 | 26 | 37 | 31 | 26 | 24 |

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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 | 23.5 | 25.1 | 23.8 | 25.4 | 25.7 | 23.4 | 25.1 | 23.8 | 25.4 | 25.7 |
| | 3H | 25.2 | 26.7 | 25.6 | 27.1 | 27.4 | 25.2 | 26.7 | 25.6 | 27.0 | 27.4 |
| | 4H | 25.8 | 27.3 | 26.2 | 27.6 | 28.0 | 25.8 | 27.2 | 26.2 | 27.5 | 27.9 |
| | 6H | 26.2 | 27.5 | 26.6 | 27.9 | 28.3 | 26.2 | 27.5 | 26.6 | 27.8 | 28.2 |
| | 8H | 26.3 | 27.6 | 26.8 | 28.0 | 28.4 | 26.3 | 27.5 | 26.7 | 27.9 | 28.3 |
| | 12H | 26.4 | 27.6 | 26.8 | 28.0 | 28.4 | 26.3 | 27.5 | 26.8 | 27.9 | 28.3 |
| 4H | 2H | 24.1 | 25.5 | 24.5 | 25.8 | 26.2 | 24.0 | 25.5 | 24.4 | 25.8 | 26.2 |
| | 3H | 26.0 | 27.2 | 26.5 | 27.6 | 28.0 | 26.0 | 27.2 | 26.4 | 27.6 | 28.0 |
| | 4H | 26.8 | 27.8 | 27.2 | 28.2 | 28.7 | 26.7 | 27.8 | 27.2 | 28.2 | 28.6 |
| | 6H | 27.3 | 28.2 | 27.7 | 28.6 | 29.1 | 27.2 | 28.1 | 27.7 | 28.6 | 29.0 |
| | 8H | 27.4 | 28.3 | 27.8 | 28.7 | 29.2 | 27.4 | 28.2 | 27.8 | 28.7 | 29.1 |
| | 12H | 27.5 | 28.2 | 27.9 | 28.7 | 29.2 | 27.4 | 28.2 | 27.9 | 28.7 | 29.2 |
| 8H | 4H | 27.0 | 27.9 | 27.5 | 28.3 | 28.8 | 27.0 | 27.9 | 27.4 | 28.3 | 28.8 |
| | 6H | 27.6 | 28.3 | 28.1 | 28.8 | 29.3 | 27.6 | 28.3 | 28.1 | 28.8 | 29.3 |
| | 8H | 27.8 | 28.5 | 28.3 | 29.0 | 29.4 | 27.8 | 28.4 | 28.3 | 28.9 | 29.4 |
| | 12H | 27.9 | 28.5 | 28.4 | 29.0 | 29.5 | 27.9 | 28.5 | 28.4 | 29.0 | 29.5 |
| 12H | 4H | 27.0 | 27.8 | 27.5 | 28.3 | 28.8 | 27.0 | 27.8 | 27.5 | 28.3 | 28.7 |
| | 6H | 27.7 | 28.3 | 28.2 | 28.8 | 29.3 | 27.6 | 28.3 | 28.2 | 28.7 | 29.3 |
| | 8H | 27.9 | 28.5 | 28.4 | 28.9 | 29.5 | 27.9 | 28.4 | 28.4 | 28.9 | 29.5 |

Maximum UGR = 29.5

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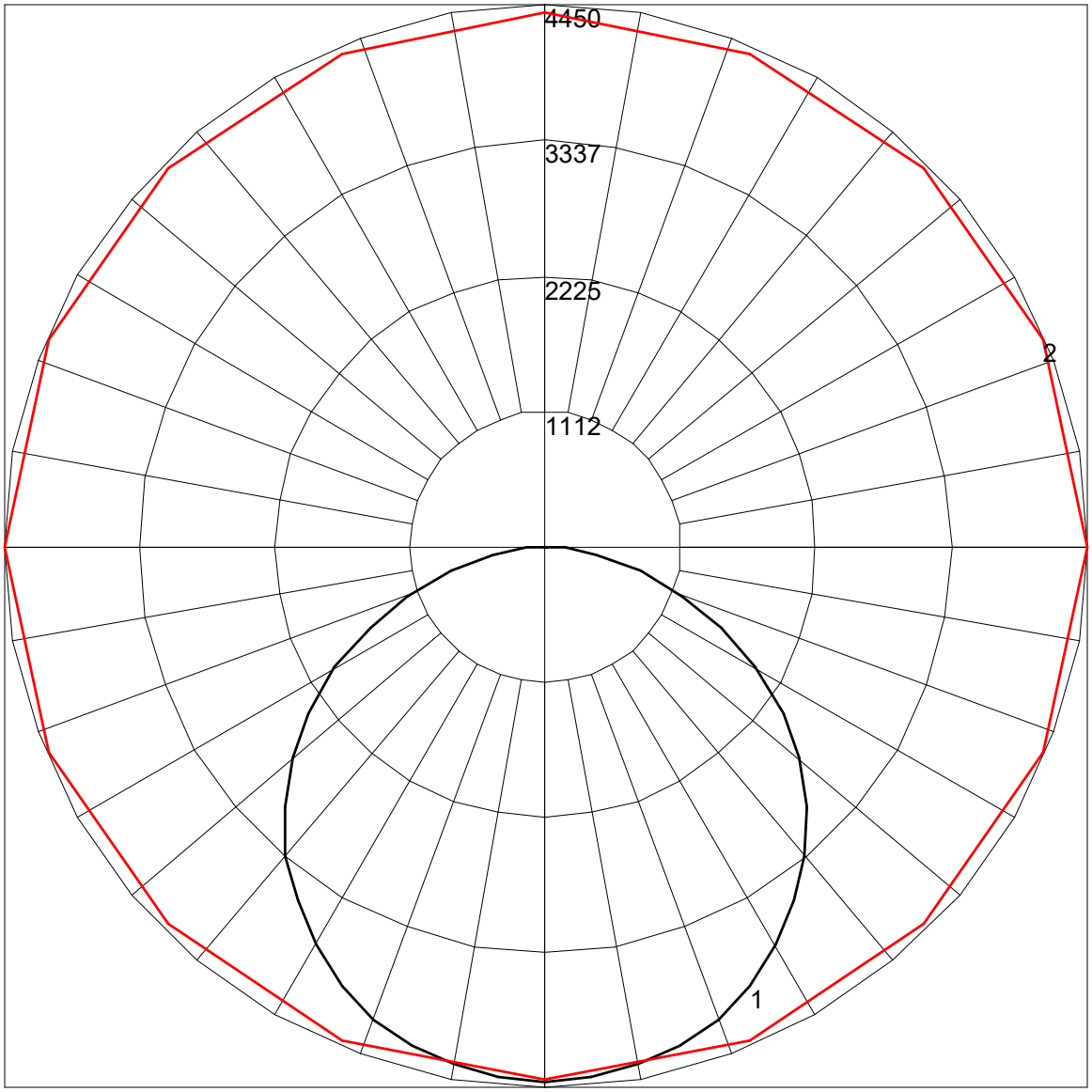
**POLAR GRAPH**




Maximum Candela = 4449.716  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.)

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