



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75-8-P73-8TW-POEN 4000K_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 17875.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUE DATE] 25-OCT-2019

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

[LUMINAIRE] 8' PoE STRIP w/WHITE REFLECTOR

[LUMCAT] 75-8-P73/8TW-PoEN 4000k

CHARACTERISTICS

| | |
|---------------------------------|---------------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 7333 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 175 |
| Total Luminaire Watts | 41.88 |
| 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 | 15823 | 15132 | 14921 |
| 55 | 15430 | 14591 | 14284 |
| 65 | 14388 | 13249 | 12826 |
| 75 | 12146 | 10723 | 10265 |
| 85 | 6406 | 6077 | 4992 |

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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 | 2489.668 | 2489.668 | 2489.668 | 2489.668 | 2489.668 |
| 5 | 2507.860 | 2492.267 | 2481.872 | 2474.941 | 2472.343 |
| 10 | 2480.139 | 2464.546 | 2452.418 | 2445.488 | 2442.023 |
| 15 | 2438.558 | 2418.634 | 2406.506 | 2396.111 | 2399.576 |
| 20 | 2372.721 | 2356.262 | 2342.402 | 2332.006 | 2338.070 |
| 25 | 2289.559 | 2275.699 | 2255.774 | 2247.112 | 2243.647 |
| 30 | 2196.002 | 2176.077 | 2153.554 | 2146.624 | 2128.432 |
| 35 | 2076.456 | 2059.997 | 2034.009 | 2028.811 | 2009.753 |
| 40 | 1937.852 | 1903.201 | 1889.341 | 1879.812 | 1874.614 |
| 45 | 1775.859 | 1733.412 | 1724.749 | 1716.953 | 1710.889 |
| 50 | 1596.541 | 1557.559 | 1550.628 | 1547.163 | 1527.239 |
| 55 | 1405.094 | 1364.380 | 1358.316 | 1358.316 | 1340.990 |
| 60 | 1197.189 | 1160.806 | 1143.480 | 1151.277 | 1125.288 |
| 65 | 965.894 | 939.040 | 919.115 | 935.575 | 900.924 |
| 70 | 732.001 | 698.216 | 687.821 | 705.146 | 678.292 |
| 75 | 499.839 | 466.921 | 466.921 | 466.921 | 456.526 |
| 80 | 265.946 | 260.748 | 260.748 | 256.417 | 246.021 |
| 85 | 89.226 | 93.557 | 99.621 | 95.290 | 86.627 |
| 90 | 7.796 | 7.796 | 12.128 | 7.796 | 7.796 |
| 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 | 916.87 | N.A. | 12.50 |
| 0-30 | 1959.61 | N.A. | 26.70 |
| 0-40 | 3234.97 | N.A. | 44.10 |
| 0-60 | 5785.99 | N.A. | 78.90 |
| 0-80 | 7206.4 | N.A. | 98.30 |
| 0-90 | 7330.4 | N.A. | 100.00 |
| 10-90 | 7094.19 | N.A. | 96.70 |
| 20-40 | 2318.1 | N.A. | 31.60 |
| 20-50 | 3652.73 | N.A. | 49.80 |
| 40-70 | 3471.08 | N.A. | 47.30 |
| 60-80 | 1420.41 | N.A. | 19.40 |
| 70-80 | 500.36 | N.A. | 6.80 |
| 80-90 | 124.00 | N.A. | 1.70 |
| 90-110 | 2.43 | N.A. | 0.00 |
| 90-120 | 2.43 | N.A. | 0.00 |
| 90-130 | 2.43 | N.A. | 0.00 |
| 90-150 | 2.43 | N.A. | 0.00 |
| 90-180 | 2.43 | N.A. | 0.00 |
| 110-180 | 0.00 | N.A. | 0.00 |
| 0-180 | 7332.83 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|---------|
| 0-10 | 236.21 |
| 10-20 | 680.66 |
| 20-30 | 1042.75 |
| 30-40 | 1275.35 |
| 40-50 | 1334.63 |
| 50-60 | 1216.39 |
| 60-70 | 920.05 |
| 70-80 | 500.36 |
| 80-90 | 124.00 |
| 90-100 | 2.43 |
| 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 | 255 | 255 | 255 | 255 | 249 | 249 | 249 | 249 | 238 | 238 | 238 | 228 | 228 | 228 | 219 | 219 | 219 | 214 |
| 1 | 233 | 223 | 214 | 205 | 227 | 218 | 210 | 202 | 209 | 202 | 196 | 200 | 195 | 190 | 193 | 188 | 184 | 179 |
| 2 | 212 | 194 | 179 | 167 | 206 | 190 | 176 | 165 | 182 | 171 | 161 | 175 | 166 | 157 | 169 | 161 | 154 | 149 |
| 3 | 193 | 170 | 152 | 138 | 187 | 167 | 150 | 137 | 160 | 146 | 135 | 154 | 142 | 132 | 149 | 139 | 130 | 125 |
| 4 | 176 | 150 | 131 | 117 | 171 | 148 | 130 | 116 | 142 | 127 | 114 | 137 | 124 | 113 | 132 | 121 | 111 | 107 |
| 5 | 162 | 134 | 115 | 100 | 157 | 132 | 113 | 100 | 127 | 111 | 99 | 123 | 109 | 98 | 119 | 106 | 96 | 92 |
| 6 | 149 | 121 | 101 | 87 | 145 | 119 | 100 | 87 | 115 | 98 | 86 | 111 | 96 | 85 | 108 | 95 | 85 | 80 |
| 7 | 138 | 109 | 90 | 77 | 135 | 107 | 89 | 77 | 104 | 88 | 76 | 101 | 86 | 76 | 98 | 85 | 75 | 71 |
| 8 | 129 | 100 | 81 | 69 | 125 | 98 | 81 | 68 | 95 | 79 | 68 | 93 | 78 | 67 | 90 | 77 | 67 | 63 |
| 9 | 120 | 91 | 74 | 62 | 117 | 90 | 73 | 61 | 88 | 72 | 61 | 85 | 71 | 61 | 83 | 70 | 60 | 56 |
| 10 | 113 | 84 | 67 | 56 | 110 | 83 | 67 | 56 | 81 | 66 | 55 | 79 | 65 | 55 | 77 | 64 | 55 | 51 |

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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 | 21.6 | 23.3 | 22.0 | 23.6 | 23.9 | 21.5 | 23.2 | 21.9 | 23.5 | 23.8 |
| | 3H | 23.4 | 24.9 | 23.8 | 25.2 | 25.6 | 23.3 | 24.8 | 23.6 | 25.1 | 25.4 |
| | 4H | 24.1 | 25.5 | 24.5 | 25.8 | 26.2 | 23.9 | 25.3 | 24.3 | 25.6 | 26.0 |
| | 6H | 24.5 | 25.8 | 24.9 | 26.1 | 26.5 | 24.2 | 25.5 | 24.6 | 25.9 | 26.3 |
| | 8H | 24.6 | 25.8 | 25.0 | 26.2 | 26.6 | 24.3 | 25.6 | 24.8 | 26.0 | 26.4 |
| | 12H | 24.6 | 25.8 | 25.1 | 26.2 | 26.6 | 24.4 | 25.6 | 24.8 | 26.0 | 26.4 |

UGR Viewed Endwise

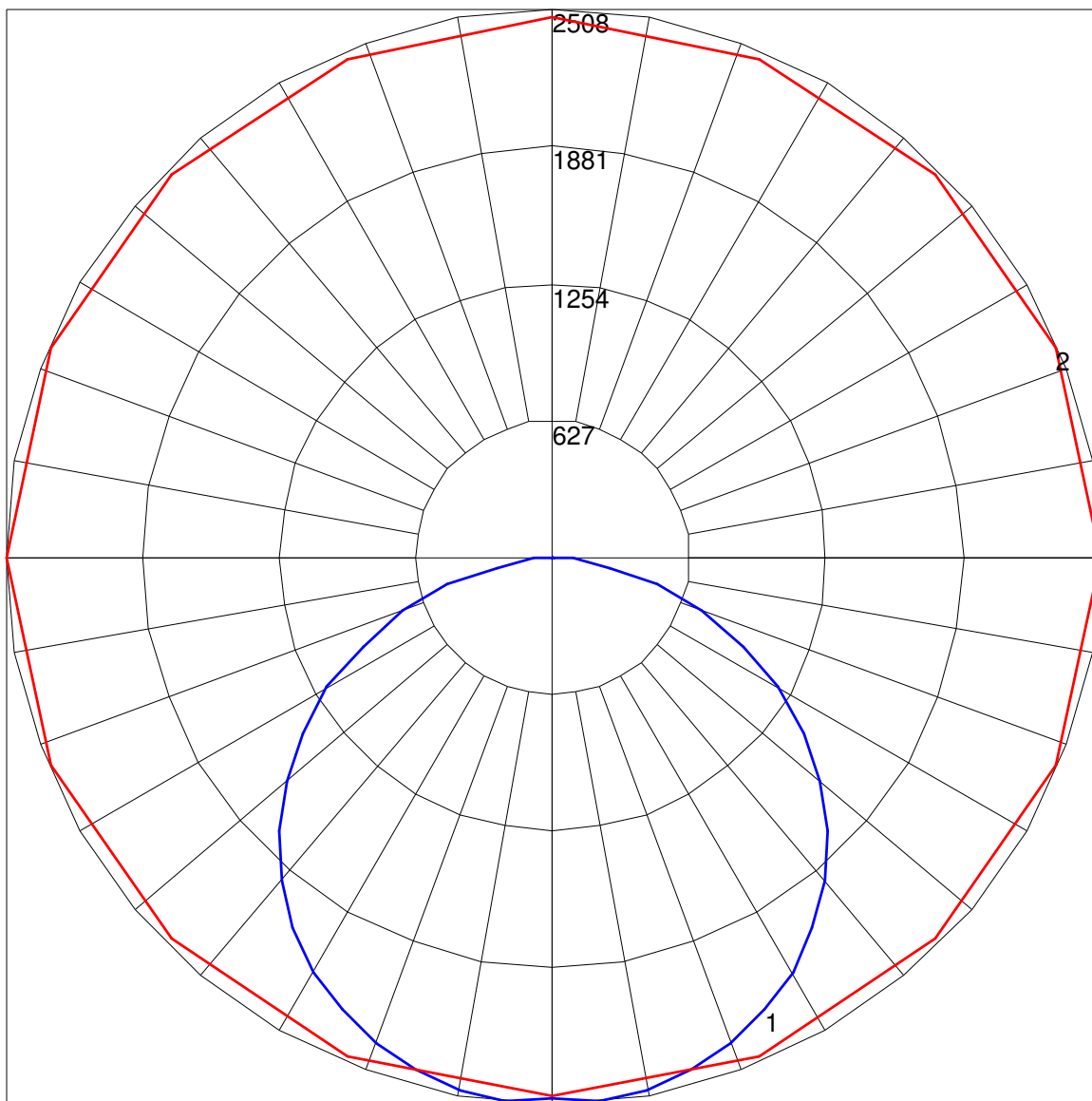
| | | | | | | | | | | | |
|----|-----|------|------|------|------|------|------|------|------|------|------|
| 4H | 2H | 22.2 | 23.6 | 22.6 | 24.0 | 24.3 | 22.1 | 23.5 | 22.5 | 23.9 | 24.3 |
| | 3H | 24.2 | 25.4 | 24.6 | 25.8 | 26.2 | 24.1 | 25.3 | 24.5 | 25.7 | 26.1 |
| | 4H | 25.0 | 26.0 | 25.4 | 26.4 | 26.9 | 24.8 | 25.9 | 25.2 | 26.3 | 26.7 |
| | 6H | 25.5 | 26.4 | 25.9 | 26.8 | 27.3 | 25.3 | 26.2 | 25.8 | 26.7 | 27.1 |
| | 8H | 25.6 | 26.5 | 26.1 | 26.9 | 27.4 | 25.4 | 26.3 | 25.9 | 26.8 | 27.2 |
| | 12H | 25.7 | 26.5 | 26.2 | 27.0 | 27.4 | 25.5 | 26.3 | 26.0 | 26.8 | 27.2 |

| | | | | | | | | | | | |
|----|-----|------|------|------|------|------|------|------|------|------|------|
| 8H | 4H | 25.2 | 26.1 | 25.7 | 26.5 | 27.0 | 25.1 | 25.9 | 25.5 | 26.4 | 26.8 |
| | 6H | 25.8 | 26.5 | 26.3 | 27.0 | 27.5 | 25.7 | 26.4 | 26.2 | 26.9 | 27.4 |
| | 8H | 26.0 | 26.7 | 26.5 | 27.2 | 27.7 | 25.9 | 26.5 | 26.4 | 27.0 | 27.5 |
| | 12H | 26.1 | 26.7 | 26.7 | 27.2 | 27.8 | 26.0 | 26.6 | 26.5 | 27.1 | 27.6 |

| | | | | | | | | | | | |
|-----|----|------|------|------|------|------|------|------|------|------|------|
| 12H | 4H | 25.2 | 26.0 | 25.7 | 26.5 | 26.9 | 25.1 | 25.9 | 25.6 | 26.3 | 26.8 |
| | 6H | 25.9 | 26.5 | 26.4 | 27.0 | 27.5 | 25.7 | 26.4 | 26.2 | 26.8 | 27.4 |
| | 8H | 26.1 | 26.7 | 26.6 | 27.2 | 27.7 | 25.9 | 26.5 | 26.4 | 27.0 | 27.6 |

Maximum UGR = 27.8

POLAR GRAPH



Maximum Candela = 2507.86 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.)