



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75R-8-P73-850-(P69)-POE PR\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM BALLABS TEST NO. 19750.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 11-11-2021

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 89 INCH LENSED LED STRIP LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC ROUND LENS

[MORE] POWER OVER ETHERNET LUMINAIRE

[LUMCAT] 75R-8-P73-850-(P69)-POE PR

[LAMPCAT] HLM 80 CRI 5000K 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                | 7458                |
| Total Luminaire Efficiency      | N.A.                |
| Luminaire Efficacy Rating (LER) | 186                 |
| Total Luminaire Watts           | 40                  |
| Ballast Factor                  | 1.00                |
| CIE Type                        | Direct              |
| Spacing Criterion (0-180)       | 1.22                |
| Spacing Criterion (90-270)      | 1.28                |
| Spacing Criterion (Diagonal)    | 1.36                |
| Basic Luminous Shape            | Rectangular w/Sides |
| Luminous Length (0-180)         | 7.44 ft             |
| Luminous Width (90-270)         | 0.21 ft             |
| Luminous Height                 | 0.10 ft             |

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

| Angle In<br>Degrees | Average<br>0-Deg | Average<br>45-Deg | Average<br>90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45                  | 13217            | 11103             | 11003             |
| 55                  | 10970            | 9521              | 9687              |
| 65                  | 9119             | 8018              | 8161              |
| 75                  | 6285             | 6613              | 6687              |
| 85                  | 3998             | 5715              | 5483              |

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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> |
|------------|------------|-------------|-------------|-------------|-------------|
| <b>0</b>   | 2388.698   | 2388.698    | 2388.698    | 2388.698    | 2388.698    |
| <b>5</b>   | 2414.922   | 2379.577    | 2380.717    | 2375.016    | 2351.072    |
| <b>10</b>  | 2375.016   | 2345.371    | 2351.072    | 2347.651    | 2325.988    |
| <b>15</b>  | 2305.464   | 2283.801    | 2299.763    | 2306.604    | 2283.801    |
| <b>20</b>  | 2200.567   | 2194.866    | 2222.230    | 2233.632    | 2219.950    |
| <b>25</b>  | 2077.426   | 2085.408    | 2124.174    | 2150.398    | 2140.137    |
| <b>30</b>  | 1936.043   | 1947.445    | 2013.576    | 2053.482    | 2051.202    |
| <b>35</b>  | 1763.874   | 1784.397    | 1880.173    | 1936.043    | 1944.024    |
| <b>40</b>  | 1580.303   | 1595.126    | 1715.986    | 1800.360    | 1819.743    |
| <b>45</b>  | 1363.667   | 1401.294    | 1540.397    | 1652.135    | 1679.500    |
| <b>50</b>  | 1139.050   | 1199.480    | 1369.368    | 1491.369    | 1525.574    |
| <b>55</b>  | 923.554    | 1002.227    | 1193.779    | 1321.480    | 1370.508    |
| <b>60</b>  | 743.404    | 816.376     | 1025.031    | 1152.732    | 1204.041    |
| <b>65</b>  | 571.235    | 651.048     | 867.685     | 983.984     | 1028.451    |
| <b>70</b>  | 400.207    | 507.385     | 718.320     | 819.797     | 863.124     |
| <b>75</b>  | 246.281    | 383.104     | 580.357     | 676.133     | 713.759     |
| <b>80</b>  | 136.823    | 264.524     | 462.917     | 551.852     | 575.796     |
| <b>85</b>  | 58.150     | 182.430     | 369.422     | 445.814     | 461.777     |
| <b>90</b>  | 7.981      | 125.421     | 286.188     | 353.459     | 375.123     |
| <b>95</b>  | 1.140      | 85.514      | 229.178     | 280.487     | 303.291     |
| <b>100</b> | 0.000      | 55.869      | 177.870     | 229.178     | 247.421     |
| <b>105</b> | 0.000      | 39.907      | 137.963     | 186.991     | 201.814     |
| <b>110</b> | 0.000      | 27.365      | 106.038     | 152.785     | 165.328     |
| <b>115</b> | 0.000      | 22.804      | 86.654      | 127.701     | 136.823     |
| <b>120</b> | 0.000      | 17.103      | 66.131      | 104.897     | 114.019     |
| <b>125</b> | 0.000      | 10.262      | 49.028      | 83.234      | 93.496      |
| <b>130</b> | 0.000      | 6.841       | 35.346      | 64.991      | 74.112      |
| <b>135</b> | 0.000      | 3.421       | 26.224      | 51.309      | 58.150      |
| <b>140</b> | 0.000      | 3.421       | 18.243      | 39.907      | 45.608      |
| <b>145</b> | 0.000      | 0.000       | 11.402      | 25.084      | 31.925      |
| <b>150</b> | 0.000      | 0.000       | 7.981       | 18.243      | 22.804      |
| <b>155</b> | 0.000      | 0.000       | 5.701       | 9.122       | 14.822      |
| <b>160</b> | 0.000      | 0.000       | 2.280       | 6.841       | 7.981       |
| <b>165</b> | 0.000      | 0.000       | 0.000       | 2.280       | 3.421       |
| <b>170</b> | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       |
| <b>175</b> | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       |
| <b>180</b> | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       |

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**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  | %Lamp | %Fixt  |
|---------|---------|-------|--------|
| 0-20    | 873.48  | N.A.  | 11.70  |
| 0-30    | 1849.17 | N.A.  | 24.80  |
| 0-40    | 3013.46 | N.A.  | 40.40  |
| 0-60    | 5238.7  | N.A.  | 70.20  |
| 0-80    | 6623.74 | N.A.  | 88.80  |
| 0-90    | 6971.85 | N.A.  | 93.50  |
| 10-90   | 6745.7  | N.A.  | 90.50  |
| 20-40   | 2139.98 | N.A.  | 28.70  |
| 20-50   | 3319.69 | N.A.  | 44.50  |
| 40-70   | 3045.63 | N.A.  | 40.80  |
| 60-80   | 1385.04 | N.A.  | 18.60  |
| 70-80   | 564.65  | N.A.  | 7.60   |
| 80-90   | 348.11  | N.A.  | 4.70   |
| 90-110  | 332.20  | N.A.  | 4.50   |
| 90-120  | 408.36  | N.A.  | 5.50   |
| 90-130  | 451.60  | N.A.  | 6.10   |
| 90-150  | 482.46  | N.A.  | 6.50   |
| 90-180  | 485.69  | N.A.  | 6.50   |
| 110-180 | 153.49  | N.A.  | 2.10   |
| 0-180   | 7457.54 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  |
|---------|---------|
| 0-10    | 226.15  |
| 10-20   | 647.34  |
| 20-30   | 975.68  |
| 30-40   | 1164.29 |
| 40-50   | 1179.72 |
| 50-60   | 1045.52 |
| 60-70   | 820.39  |
| 70-80   | 564.65  |
| 80-90   | 348.11  |
| 90-100  | 207.26  |
| 100-110 | 124.94  |
| 110-120 | 76.16   |
| 120-130 | 43.23   |
| 130-140 | 21.84   |
| 140-150 | 9.02    |
| 150-160 | 2.82    |
| 160-170 | 0.41    |
| 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  | 117 | 117 | 117 | 117 | 114 | 114 | 114 | 114 | 107 | 107 | 107 | 102 | 102 | 102 | 96 | 96 | 96 | 93 |
| 1  | 106 | 101 | 96  | 92  | 103 | 98  | 94  | 90  | 92  | 89  | 86  | 87  | 84  | 82  | 83 | 80 | 78 | 76 |
| 2  | 96  | 87  | 80  | 74  | 93  | 85  | 78  | 73  | 80  | 75  | 70  | 76  | 72  | 68  | 72 | 68 | 65 | 62 |
| 3  | 88  | 77  | 68  | 61  | 84  | 75  | 67  | 60  | 71  | 64  | 59  | 67  | 61  | 57  | 64 | 59 | 55 | 52 |
| 4  | 80  | 68  | 59  | 52  | 77  | 66  | 58  | 51  | 63  | 56  | 50  | 60  | 53  | 48  | 57 | 51 | 47 | 45 |
| 5  | 74  | 61  | 51  | 45  | 71  | 59  | 51  | 44  | 56  | 49  | 43  | 54  | 47  | 42  | 51 | 45 | 41 | 39 |
| 6  | 68  | 55  | 46  | 39  | 66  | 53  | 45  | 39  | 51  | 43  | 38  | 48  | 42  | 37  | 46 | 41 | 36 | 34 |
| 7  | 63  | 49  | 41  | 34  | 61  | 48  | 40  | 34  | 46  | 39  | 33  | 44  | 38  | 33  | 42 | 36 | 32 | 30 |
| 8  | 59  | 45  | 37  | 31  | 57  | 44  | 36  | 30  | 42  | 35  | 30  | 41  | 34  | 29  | 39 | 33 | 29 | 27 |
| 9  | 55  | 41  | 33  | 28  | 53  | 41  | 33  | 27  | 39  | 32  | 27  | 37  | 31  | 26  | 36 | 30 | 26 | 24 |
| 10 | 51  | 38  | 30  | 25  | 50  | 37  | 30  | 25  | 36  | 29  | 24  | 35  | 28  | 24  | 33 | 28 | 24 | 22 |

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**UGR TABLE - CORRECTED**

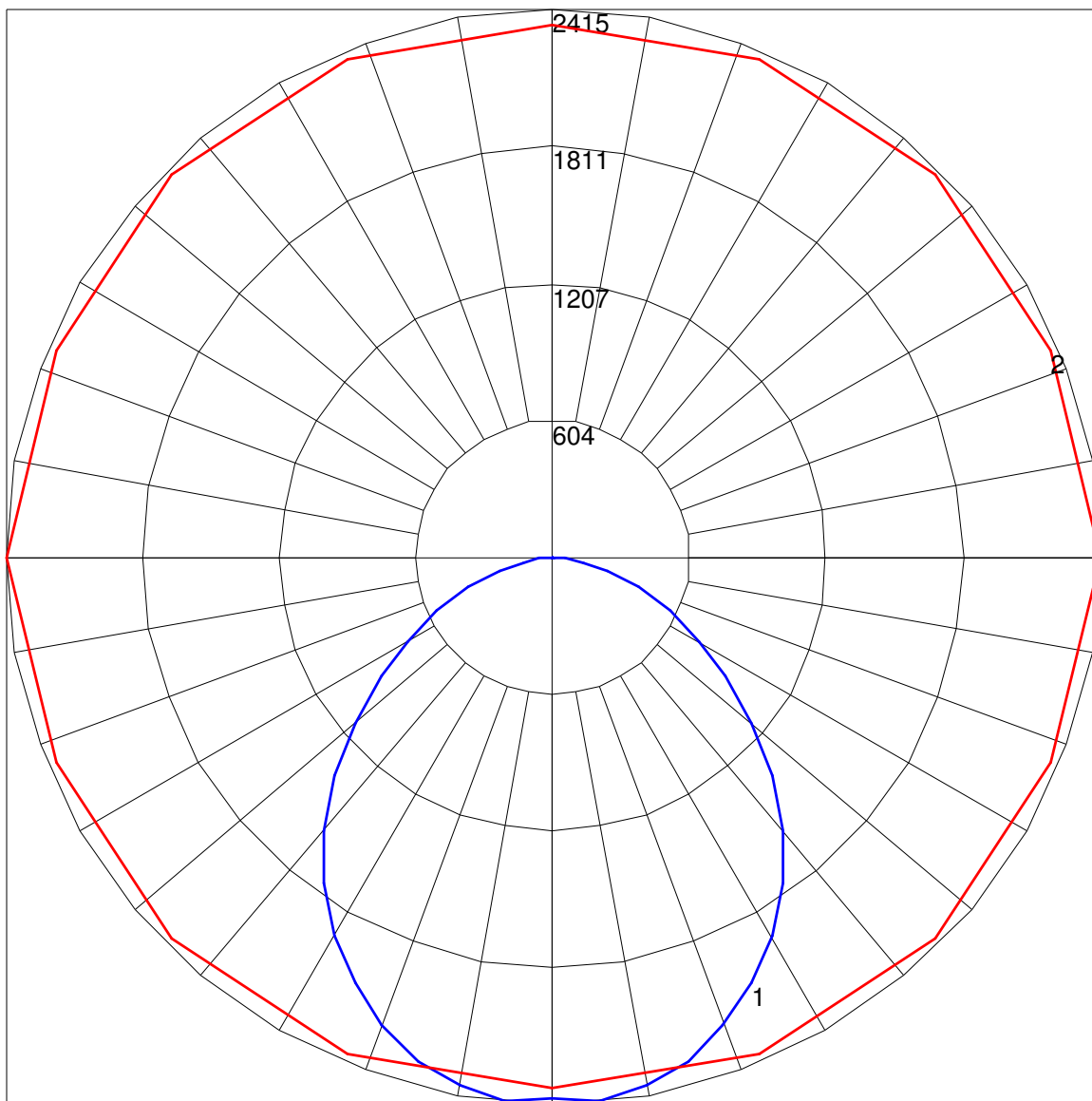
Reflectances

|                |    |    |    |    |    |    |    |    |    |    |
|----------------|----|----|----|----|----|----|----|----|----|----|
| 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 | 17.4                 | 18.9 | 17.8 | 19.3 | 19.8 | 20.8               | 22.3 | 21.3 | 22.8 | 23.2 |
|           | 3H   | 18.6                 | 19.9 | 19.0 | 20.4 | 20.9 | 23.0               | 24.4 | 23.5 | 24.9 | 25.4 |
|           | 4H   | 18.9                 | 20.2 | 19.4 | 20.7 | 21.2 | 24.1               | 25.4 | 24.6 | 25.8 | 26.4 |
|           | 6H   | 19.1                 | 20.3 | 19.6 | 20.8 | 21.3 | 25.1               | 26.3 | 25.7 | 26.8 | 27.4 |
|           | 8H   | 19.1                 | 20.2 | 19.6 | 20.8 | 21.3 | 25.7               | 26.8 | 26.2 | 27.3 | 27.9 |
|           | 12H  | 19.1                 | 20.2 | 19.6 | 20.7 | 21.3 | 26.3               | 27.4 | 26.8 | 27.9 | 28.5 |
| 4H        | 2H   | 18.4                 | 19.7 | 19.0 | 20.2 | 20.8 | 21.1               | 22.4 | 21.6 | 22.9 | 23.4 |
|           | 3H   | 19.9                 | 21.0 | 20.4 | 21.5 | 22.1 | 23.6               | 24.7 | 24.1 | 25.2 | 25.7 |
|           | 4H   | 20.3                 | 21.3 | 20.9 | 21.9 | 22.5 | 24.8               | 25.8 | 25.3 | 26.3 | 26.9 |
|           | 6H   | 20.6                 | 21.5 | 21.2 | 22.1 | 22.7 | 26.0               | 26.9 | 26.6 | 27.5 | 28.1 |
|           | 8H   | 20.7                 | 21.5 | 21.3 | 22.1 | 22.7 | 26.7               | 27.5 | 27.2 | 28.0 | 28.7 |
|           | 12H  | 20.7                 | 21.5 | 21.3 | 22.0 | 22.7 | 27.4               | 28.1 | 28.0 | 28.7 | 29.3 |
| 8H        | 4H   | 21.1                 | 21.9 | 21.7 | 22.5 | 23.1 | 24.9               | 25.7 | 25.5 | 26.3 | 26.9 |
|           | 6H   | 21.6                 | 22.3 | 22.2 | 22.9 | 23.5 | 26.3               | 27.0 | 26.9 | 27.6 | 28.2 |
|           | 8H   | 21.7                 | 22.4 | 22.4 | 23.0 | 23.6 | 27.1               | 27.7 | 27.7 | 28.3 | 29.0 |
|           | 12H  | 21.8                 | 22.4 | 22.4 | 23.0 | 23.7 | 28.0               | 28.5 | 28.6 | 29.1 | 29.8 |
| 12H       | 4H   | 21.3                 | 22.1 | 21.9 | 22.7 | 23.3 | 24.9               | 25.7 | 25.5 | 26.3 | 26.9 |
|           | 6H   | 21.9                 | 22.5 | 22.5 | 23.1 | 23.8 | 26.4               | 27.0 | 27.0 | 27.6 | 28.2 |
|           | 8H   | 22.1                 | 22.7 | 22.8 | 23.3 | 24.0 | 27.2               | 27.7 | 27.8 | 28.3 | 29.0 |

Maximum UGR = 29.8

POLAR GRAPH



Maximum Candela = 2414.922 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.)