



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75S-8-P73-8TW-POE\_.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] 04-NOV-2019

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 8' SURFACE MOUNT STRIP LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC SQUARE LENS

[LUMCAT] 75S-8-P73-8TW-PoE

[\_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                | 6893                |
| Total Luminaire Efficiency      | N.A.                |
| Luminaire Efficacy Rating (LER) | 165                 |
| Total Luminaire Watts           | 41.9                |
| 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)         | 7.44 ft             |
| Luminous Width (90-270)         | 0.21 ft             |
| Luminous Height                 | 0.08 ft             |

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

| Angle In<br>Degrees | Average<br>0-Deg | Average<br>45-Deg | Average<br>90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45                  | 12545            | 10074             | 9466              |
| 55                  | 10685            | 8460              | 8483              |
| 65                  | 8454             | 7247              | 7706              |
| 75                  | 5916             | 5946              | 6836              |
| 85                  | 2829             | 5077              | 5993              |

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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   | 2325.744   | 2325.744    | 2325.744    | 2325.744    | 2325.744    |
| 5   | 2345.748   | 2316.268    | 2315.215    | 2309.951    | 2282.577    |
| 10  | 2305.739   | 2279.418    | 2281.524    | 2275.207    | 2249.938    |
| 15  | 2241.516   | 2216.247    | 2222.564    | 2216.247    | 2195.190    |
| 20  | 2134.125   | 2115.174    | 2134.125    | 2124.649    | 2102.540    |
| 25  | 2001.466   | 1994.096    | 2010.942    | 2009.889    | 1977.251    |
| 30  | 1855.120   | 1858.279    | 1877.230    | 1877.230    | 1837.222    |
| 35  | 1676.136   | 1701.404    | 1710.880    | 1714.038    | 1672.977    |
| 40  | 1481.359   | 1519.261    | 1510.838    | 1527.684    | 1506.627    |
| 45  | 1290.793   | 1324.484    | 1322.378    | 1352.911    | 1347.647    |
| 50  | 1096.016   | 1126.548    | 1150.764    | 1202.354    | 1212.882    |
| 55  | 895.975    | 933.877     | 987.572     | 1064.430    | 1099.174    |
| 60  | 707.515    | 753.840     | 845.438     | 940.194     | 985.467     |
| 65  | 526.425    | 600.124     | 714.885     | 823.328     | 869.653     |
| 70  | 361.127    | 457.989     | 581.173     | 699.092     | 753.840     |
| 75  | 229.521    | 322.172     | 461.148     | 579.067     | 633.815     |
| 80  | 125.289    | 214.781     | 362.180     | 469.571     | 520.107     |
| 85  | 40.008     | 131.606     | 274.794     | 370.603     | 417.981     |
| 90  | 0.000      | 85.281      | 209.517     | 299.009     | 331.647     |
| 95  | 0.000      | 77.911      | 195.830     | 273.741     | 292.692     |
| 100 | 0.000      | 73.699      | 182.143     | 249.525     | 266.371     |
| 105 | 0.000      | 67.382      | 170.562     | 230.574     | 247.420     |
| 110 | 0.000      | 63.171      | 158.980     | 215.834     | 232.680     |
| 115 | 0.000      | 57.907      | 145.293     | 202.147     | 217.940     |
| 120 | 0.000      | 49.484      | 130.553     | 183.196     | 202.147     |
| 125 | 0.000      | 41.061      | 117.919     | 167.403     | 184.249     |
| 130 | 0.000      | 33.691      | 102.126     | 149.505     | 161.086     |
| 135 | 0.000      | 30.533      | 82.122      | 129.500     | 141.082     |
| 140 | 0.000      | 25.268      | 64.224      | 108.443     | 120.025     |
| 145 | 0.000      | 20.004      | 49.484      | 84.228      | 95.809      |
| 150 | 0.000      | 14.740      | 37.903      | 64.224      | 73.699      |
| 155 | 0.000      | 11.581      | 30.533      | 46.325      | 53.695      |
| 160 | 0.000      | 0.000       | 22.110      | 33.691      | 37.903      |
| 165 | 0.000      | 0.000       | 14.740      | 24.216      | 26.321      |
| 170 | 0.000      | 0.000       | 0.000       | 14.740      | 15.793      |
| 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    | 844.29  | N.A.  | 12.20  |
| 0-30    | 1766.06 | N.A.  | 25.60  |
| 0-40    | 2827.12 | N.A.  | 41.00  |
| 0-60    | 4750.55 | N.A.  | 68.90  |
| 0-80    | 5932.44 | N.A.  | 86.10  |
| 0-90    | 6214.65 | N.A.  | 90.20  |
| 10-90   | 5994.9  | N.A.  | 87.00  |
| 20-40   | 1982.82 | N.A.  | 28.80  |
| 20-50   | 3011.96 | N.A.  | 43.70  |
| 40-70   | 2626.47 | N.A.  | 38.10  |
| 60-80   | 1181.89 | N.A.  | 17.10  |
| 70-80   | 478.85  | N.A.  | 6.90   |
| 80-90   | 282.21  | N.A.  | 4.10   |
| 90-110  | 347.26  | N.A.  | 5.00   |
| 90-120  | 474.38  | N.A.  | 6.90   |
| 90-130  | 568.03  | N.A.  | 8.20   |
| 90-150  | 660.97  | N.A.  | 9.60   |
| 90-180  | 678.39  | N.A.  | 9.80   |
| 110-180 | 331.14  | N.A.  | 4.80   |
| 0-180   | 6893.04 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  |
|---------|---------|
| 0-10    | 219.75  |
| 10-20   | 624.54  |
| 20-30   | 921.77  |
| 30-40   | 1061.06 |
| 40-50   | 1029.14 |
| 50-60   | 894.29  |
| 60-70   | 703.04  |
| 70-80   | 478.85  |
| 80-90   | 282.21  |
| 90-100  | 190.00  |
| 100-110 | 157.25  |
| 110-120 | 127.12  |
| 120-130 | 93.65   |
| 130-140 | 60.69   |
| 140-150 | 32.25   |
| 150-160 | 13.49   |
| 160-170 | 3.72    |
| 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  | 250 | 250 | 250 | 250 | 242 | 242 | 242 | 242 | 227 | 227 | 227 | 212 | 212 | 212 | 199 | 199 | 199 | 193 |
| 1  | 227 | 216 | 206 | 197 | 218 | 209 | 200 | 192 | 196 | 189 | 182 | 184 | 178 | 173 | 173 | 168 | 164 | 158 |
| 2  | 206 | 188 | 173 | 160 | 198 | 182 | 168 | 157 | 171 | 160 | 150 | 161 | 151 | 143 | 151 | 144 | 137 | 131 |
| 3  | 188 | 165 | 147 | 133 | 181 | 160 | 144 | 131 | 151 | 137 | 126 | 142 | 131 | 121 | 134 | 125 | 116 | 111 |
| 4  | 172 | 147 | 128 | 113 | 166 | 142 | 125 | 111 | 134 | 119 | 108 | 127 | 114 | 104 | 120 | 109 | 100 | 95  |
| 5  | 159 | 131 | 112 | 98  | 153 | 127 | 110 | 96  | 121 | 105 | 93  | 114 | 101 | 91  | 108 | 97  | 88  | 83  |
| 6  | 147 | 118 | 99  | 86  | 141 | 115 | 97  | 84  | 109 | 94  | 82  | 104 | 90  | 80  | 98  | 87  | 77  | 73  |
| 7  | 136 | 107 | 89  | 76  | 131 | 105 | 87  | 75  | 99  | 84  | 73  | 95  | 81  | 71  | 90  | 78  | 69  | 64  |
| 8  | 127 | 98  | 80  | 68  | 122 | 96  | 79  | 67  | 91  | 76  | 65  | 87  | 73  | 64  | 83  | 71  | 62  | 58  |
| 9  | 118 | 90  | 73  | 61  | 114 | 88  | 72  | 60  | 84  | 69  | 59  | 80  | 67  | 58  | 77  | 65  | 56  | 52  |
| 10 | 111 | 83  | 67  | 55  | 107 | 81  | 65  | 55  | 78  | 63  | 54  | 74  | 62  | 52  | 71  | 60  | 51  | 47  |

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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 | 18.1 | 19.5 | 18.6 | 20.0 | 20.6 | 19.4 | 20.9 | 20.0 | 21.4 | 21.9 |
|      | 3H   | 19.5 | 20.8 | 20.0 | 21.3 | 21.9 | 21.8 | 23.1 | 22.4 | 23.6 | 24.2 |
|      | 4H   | 20.0 | 21.2 | 20.5 | 21.7 | 22.3 | 23.0 | 24.2 | 23.5 | 24.7 | 25.3 |
|      | 6H   | 20.2 | 21.4 | 20.8 | 21.9 | 22.5 | 24.1 | 25.2 | 24.7 | 25.8 | 26.4 |
|      | 8H   | 20.3 | 21.4 | 20.9 | 22.0 | 22.6 | 24.7 | 25.8 | 25.3 | 26.3 | 27.0 |
|      | 12H  | 20.3 | 21.4 | 20.9 | 21.9 | 22.6 | 25.3 | 26.3 | 25.9 | 26.9 | 27.6 |

UGR Viewed Endwise

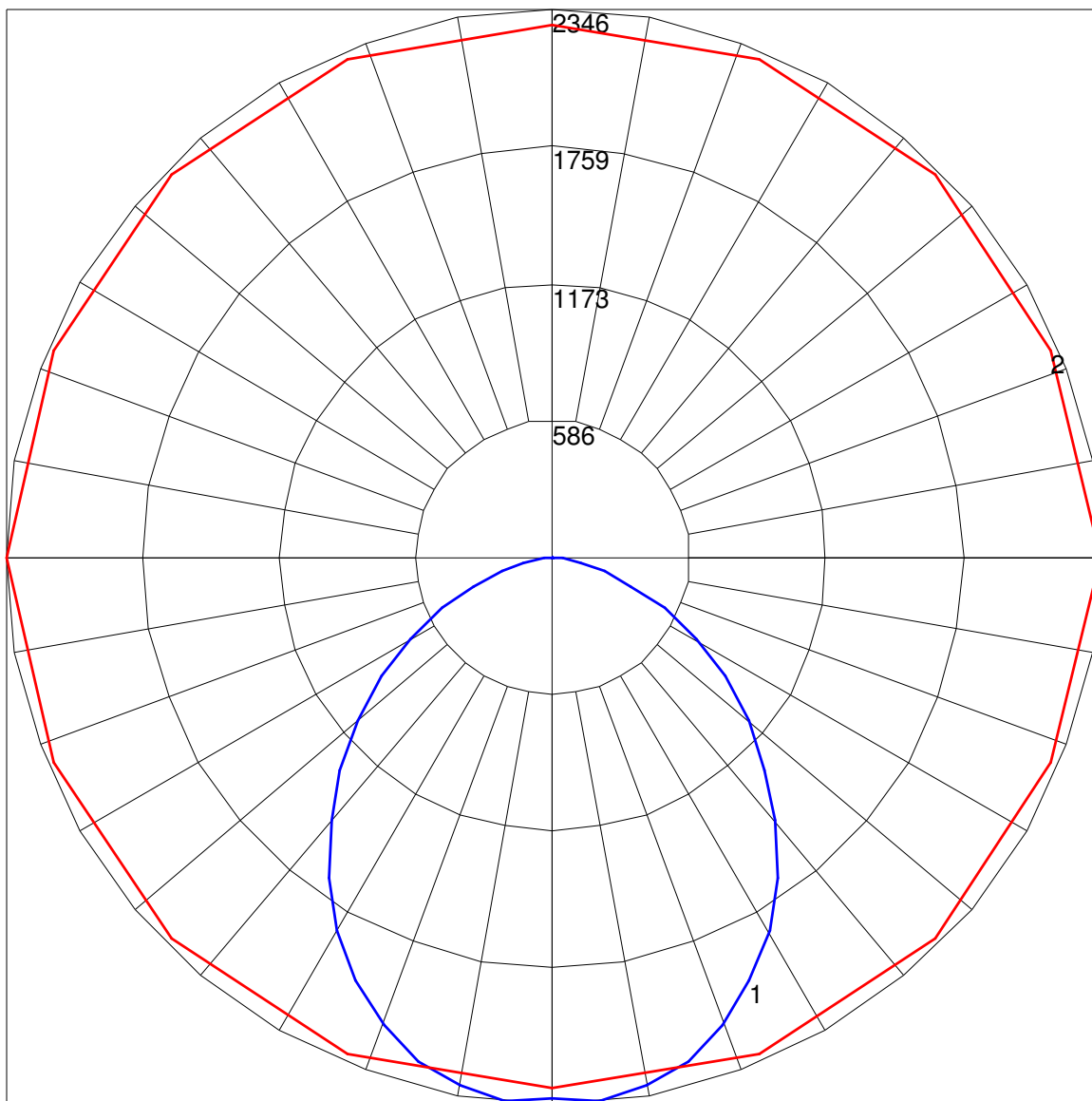
|    |     |      |      |      |      |      |      |      |      |      |      |
|----|-----|------|------|------|------|------|------|------|------|------|------|
| 4H | 2H  | 18.7 | 19.9 | 19.3 | 20.5 | 21.1 | 19.8 | 21.0 | 20.3 | 21.5 | 22.2 |
|    | 3H  | 20.3 | 21.4 | 20.9 | 22.0 | 22.6 | 22.4 | 23.4 | 23.0 | 24.0 | 24.6 |
|    | 4H  | 20.9 | 21.9 | 21.5 | 22.4 | 23.1 | 23.7 | 24.6 | 24.3 | 25.2 | 25.9 |
|    | 6H  | 21.3 | 22.2 | 21.9 | 22.8 | 23.4 | 25.0 | 25.8 | 25.6 | 26.4 | 27.1 |
|    | 8H  | 21.4 | 22.2 | 22.0 | 22.8 | 23.5 | 25.7 | 26.5 | 26.3 | 27.1 | 27.8 |
|    | 12H | 21.5 | 22.2 | 22.1 | 22.8 | 23.5 | 26.4 | 27.1 | 27.0 | 27.8 | 28.5 |

|    |     |      |      |      |      |      |      |      |      |      |      |
|----|-----|------|------|------|------|------|------|------|------|------|------|
| 8H | 4H  | 21.3 | 22.1 | 22.0 | 22.7 | 23.4 | 23.8 | 24.6 | 24.4 | 25.2 | 25.9 |
|    | 6H  | 21.9 | 22.6 | 22.6 | 23.2 | 23.9 | 25.3 | 26.0 | 26.0 | 26.6 | 27.3 |
|    | 8H  | 22.1 | 22.7 | 22.8 | 23.4 | 24.1 | 26.1 | 26.7 | 26.8 | 27.4 | 28.1 |
|    | 12H | 22.3 | 22.8 | 22.9 | 23.4 | 24.2 | 27.0 | 27.5 | 27.7 | 28.2 | 29.0 |

|     |    |      |      |      |      |      |      |      |      |      |      |
|-----|----|------|------|------|------|------|------|------|------|------|------|
| 12H | 4H | 21.4 | 22.1 | 22.1 | 22.8 | 23.5 | 23.8 | 24.5 | 24.4 | 25.2 | 25.9 |
|     | 6H | 22.1 | 22.7 | 22.8 | 23.3 | 24.1 | 25.3 | 25.9 | 26.0 | 26.5 | 27.3 |
|     | 8H | 22.4 | 22.9 | 23.0 | 23.5 | 24.3 | 26.2 | 26.7 | 26.8 | 27.4 | 28.1 |

Maximum UGR = 29.0

POLAR GRAPH



Maximum Candela = 2345.748 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.)