



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75S-4-L50-835-EM10WLP-DIM-UNV(EMER MODE).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] 04-11-2024

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO. 64836

[LUMINAIRE] 4' SURFACE MOUNT STRIP LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC SQUARE LENS

[LUMCAT] 75S-4-L50-835-EM10WLP-DIM-UNV(EMER MODE)

[\_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                | 1480                |
| Total Luminaire Efficiency      | N.A.                |
| Luminaire Efficacy Rating (LER) | 148                 |
| Total Luminaire Watts           | 10                  |
| 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)         | 3.72 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                  | 5330             | 4301              | 4066              |
| 55                  | 4519             | 3605              | 3644              |
| 65                  | 3548             | 3081              | 3310              |
| 75                  | 2443             | 2518              | 2936              |
| 85                  | 1092             | 2136              | 2574              |

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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   | 499.361    | 499.361     | 499.361     | 499.361     | 499.361     |
| 5   | 503.657    | 497.327     | 497.101     | 495.971     | 490.093     |
| 10  | 495.066    | 489.415     | 489.867     | 488.511     | 483.085     |
| 15  | 481.277    | 475.851     | 477.208     | 475.851     | 471.330     |
| 20  | 458.219    | 454.150     | 458.219     | 456.184     | 451.437     |
| 25  | 429.736    | 428.153     | 431.770     | 431.544     | 424.536     |
| 30  | 398.314    | 398.992     | 403.061     | 403.061     | 394.471     |
| 35  | 359.884    | 365.309     | 367.344     | 368.022     | 359.206     |
| 40  | 318.063    | 326.201     | 324.393     | 328.010     | 323.489     |
| 45  | 277.147    | 284.381     | 283.928     | 290.484     | 289.354     |
| 50  | 235.326    | 241.882     | 247.081     | 258.158     | 260.418     |
| 55  | 192.375    | 200.513     | 212.042     | 228.544     | 236.004     |
| 60  | 151.911    | 161.857     | 181.524     | 201.870     | 211.590     |
| 65  | 113.029    | 128.853     | 153.493     | 176.777     | 186.724     |
| 70  | 77.538     | 98.335      | 124.784     | 150.102     | 161.857     |
| 75  | 49.281     | 69.174      | 99.013      | 124.332     | 136.087     |
| 80  | 26.901     | 46.116      | 77.764      | 100.822     | 111.673     |
| 85  | 8.590      | 28.257      | 59.001      | 79.572      | 89.745      |
| 90  | 0.000      | 18.311      | 44.985      | 64.200      | 71.208      |
| 95  | 0.000      | 16.728      | 42.047      | 58.775      | 62.844      |
| 100 | 0.000      | 15.824      | 39.108      | 53.576      | 57.193      |
| 105 | 0.000      | 14.468      | 36.621      | 49.507      | 53.124      |
| 110 | 0.000      | 13.563      | 34.135      | 46.342      | 49.959      |
| 115 | 0.000      | 12.433      | 31.196      | 43.403      | 46.794      |
| 120 | 0.000      | 10.625      | 28.031      | 39.334      | 43.403      |
| 125 | 0.000      | 8.816       | 25.318      | 35.943      | 39.560      |
| 130 | 0.000      | 7.234       | 21.928      | 32.100      | 34.587      |
| 135 | 0.000      | 6.556       | 17.633      | 27.805      | 30.292      |
| 140 | 0.000      | 5.425       | 13.790      | 23.284      | 25.771      |
| 145 | 0.000      | 4.295       | 10.625      | 18.085      | 20.571      |
| 150 | 0.000      | 3.165       | 8.138       | 13.790      | 15.824      |
| 155 | 0.000      | 2.487       | 6.556       | 9.947       | 11.529      |
| 160 | 0.000      | 0.000       | 4.747       | 7.234       | 8.138       |
| 165 | 0.000      | 0.000       | 3.165       | 5.199       | 5.651       |
| 170 | 0.000      | 0.000       | 0.000       | 3.165       | 3.391       |
| 175 | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       |
| 180 | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       |

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : 75S-4-L50-835-EM10WLP-DIM-UNV(EMER MODE).IES****ZONAL LUMEN SUMMARY**

| Zone    | Lumens  | %Lamp | %Fixt  |
|---------|---------|-------|--------|
| 0-20    | 181.28  | N.A.  | 12.20  |
| 0-30    | 379.19  | N.A.  | 25.60  |
| 0-40    | 607.01  | N.A.  | 41.00  |
| 0-60    | 1019.99 | N.A.  | 68.90  |
| 0-80    | 1273.76 | N.A.  | 86.10  |
| 0-90    | 1334.35 | N.A.  | 90.20  |
| 10-90   | 1287.17 | N.A.  | 87.00  |
| 20-40   | 425.73  | N.A.  | 28.80  |
| 20-50   | 646.70  | N.A.  | 43.70  |
| 40-70   | 563.93  | N.A.  | 38.10  |
| 60-80   | 253.76  | N.A.  | 17.10  |
| 70-80   | 102.81  | N.A.  | 6.90   |
| 80-90   | 60.59   | N.A.  | 4.10   |
| 90-110  | 74.56   | N.A.  | 5.00   |
| 90-120  | 101.85  | N.A.  | 6.90   |
| 90-130  | 121.96  | N.A.  | 8.20   |
| 90-150  | 141.92  | N.A.  | 9.60   |
| 90-180  | 145.66  | N.A.  | 9.80   |
| 110-180 | 71.10   | N.A.  | 4.80   |
| 0-180   | 1480.01 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens |
|---------|--------|
| 0-10    | 47.18  |
| 10-20   | 134.10 |
| 20-30   | 197.91 |
| 30-40   | 227.82 |
| 40-50   | 220.97 |
| 50-60   | 192.01 |
| 60-70   | 150.95 |
| 70-80   | 102.81 |
| 80-90   | 60.59  |
| 90-100  | 40.80  |
| 100-110 | 33.76  |
| 110-120 | 27.29  |
| 120-130 | 20.11  |
| 130-140 | 13.03  |
| 140-150 | 6.92   |
| 150-160 | 2.90   |
| 160-170 | 0.80   |
| 170-180 | 0.04   |

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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 | 113 | 113 | 113 | 113 | 106 | 106 | 106 | 99 | 99 | 99 | 93 | 93 | 93 | 90 |
| 1  | 106 | 101 | 96  | 92  | 102 | 97  | 93  | 89  | 91  | 88  | 85  | 86 | 83 | 81 | 81 | 78 | 76 | 74 |
| 2  | 96  | 88  | 81  | 75  | 92  | 85  | 78  | 73  | 80  | 74  | 70  | 75 | 71 | 67 | 71 | 67 | 64 | 61 |
| 3  | 88  | 77  | 69  | 62  | 84  | 75  | 67  | 61  | 70  | 64  | 59  | 66 | 61 | 56 | 62 | 58 | 54 | 52 |
| 4  | 80  | 68  | 60  | 53  | 77  | 66  | 58  | 52  | 63  | 56  | 50  | 59 | 53 | 48 | 56 | 51 | 47 | 44 |
| 5  | 74  | 61  | 52  | 46  | 71  | 59  | 51  | 45  | 56  | 49  | 44  | 53 | 47 | 42 | 50 | 45 | 41 | 39 |
| 6  | 68  | 55  | 46  | 40  | 66  | 54  | 45  | 39  | 51  | 44  | 38  | 48 | 42 | 37 | 46 | 40 | 36 | 34 |
| 7  | 63  | 50  | 41  | 35  | 61  | 49  | 41  | 35  | 46  | 39  | 34  | 44 | 38 | 33 | 42 | 36 | 32 | 30 |
| 8  | 59  | 46  | 37  | 32  | 57  | 45  | 37  | 31  | 43  | 35  | 30  | 41 | 34 | 30 | 39 | 33 | 29 | 27 |
| 9  | 55  | 42  | 34  | 28  | 53  | 41  | 33  | 28  | 39  | 32  | 27  | 37 | 31 | 27 | 36 | 30 | 26 | 24 |
| 10 | 52  | 39  | 31  | 26  | 50  | 38  | 31  | 26  | 36  | 30  | 25  | 35 | 29 | 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

|      |      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|------|
| X=2H | Y=2H | 14.5 | 15.9 | 15.0 | 16.4 | 17.0 | 16.7 | 18.2 | 17.3 | 18.7 | 19.2 |
|      | 3H   | 15.7 | 16.9 | 16.2 | 17.5 | 18.0 | 19.1 | 20.4 | 19.7 | 20.9 | 21.5 |
|      | 4H   | 16.0 | 17.2 | 16.5 | 17.7 | 18.3 | 20.3 | 21.5 | 20.8 | 22.0 | 22.6 |
|      | 6H   | 16.1 | 17.3 | 16.7 | 17.8 | 18.4 | 21.4 | 22.5 | 22.0 | 23.1 | 23.7 |
|      | 8H   | 16.1 | 17.2 | 16.7 | 17.8 | 18.4 | 22.0 | 23.1 | 22.6 | 23.6 | 24.3 |
|      | 12H  | 16.1 | 17.2 | 16.7 | 17.7 | 18.4 | 22.6 | 23.6 | 23.2 | 24.2 | 24.9 |

### UGR Viewed Endwise

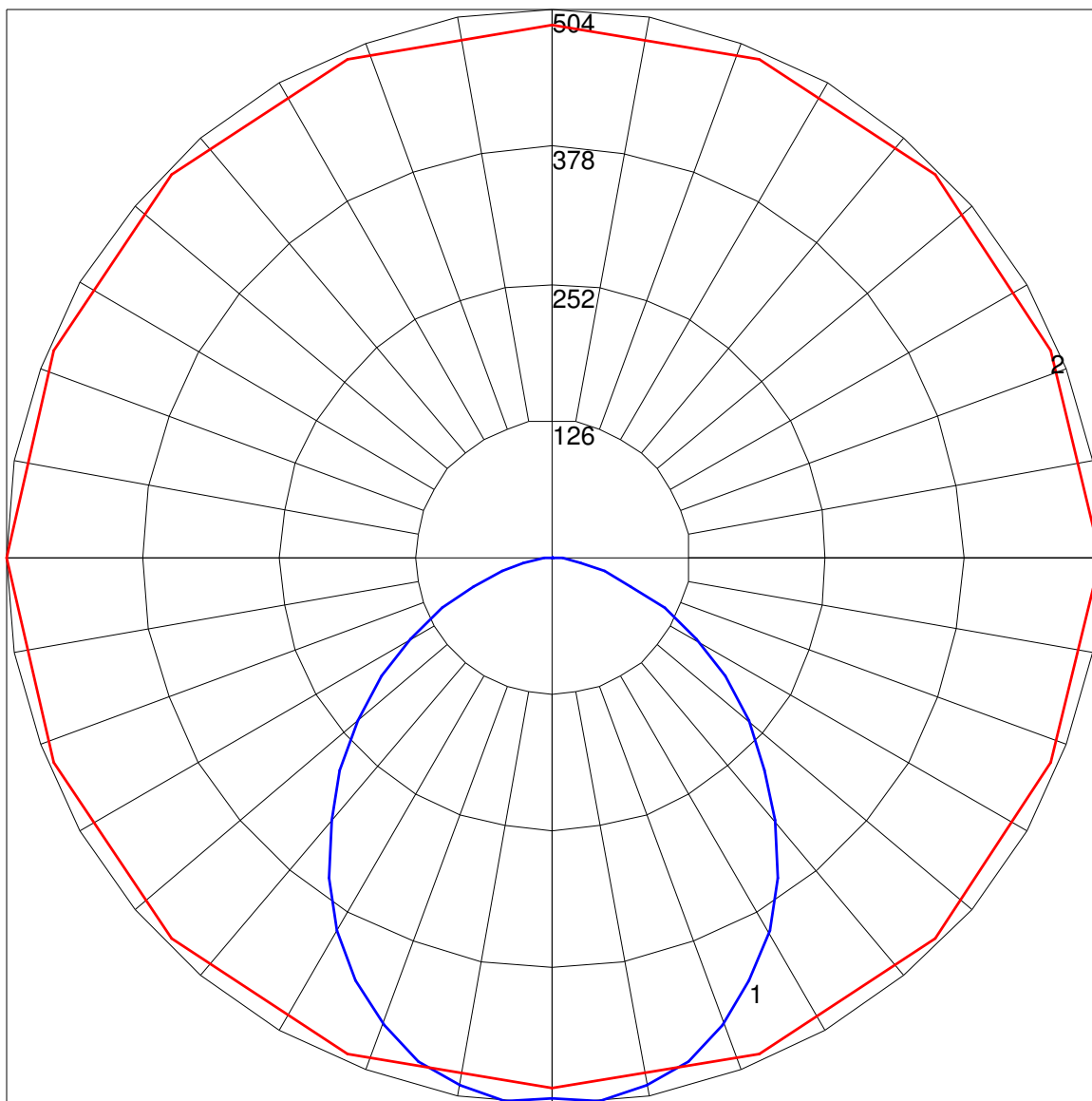
|    |     |      |      |      |      |      |      |      |      |      |      |
|----|-----|------|------|------|------|------|------|------|------|------|------|
| 4H | 2H  | 15.3 | 16.5 | 15.8 | 17.1 | 17.7 | 17.1 | 18.3 | 17.6 | 18.9 | 19.5 |
|    | 3H  | 16.7 | 17.7 | 17.3 | 18.3 | 19.0 | 19.7 | 20.7 | 20.3 | 21.3 | 21.9 |
|    | 4H  | 17.2 | 18.1 | 17.7 | 18.7 | 19.3 | 21.0 | 21.9 | 21.6 | 22.5 | 23.2 |
|    | 6H  | 17.4 | 18.2 | 18.0 | 18.9 | 19.5 | 22.3 | 23.1 | 22.9 | 23.7 | 24.4 |
|    | 8H  | 17.5 | 18.3 | 18.1 | 18.9 | 19.5 | 23.0 | 23.8 | 23.6 | 24.4 | 25.1 |
|    | 12H | 17.5 | 18.2 | 18.1 | 18.8 | 19.5 | 23.7 | 24.4 | 24.4 | 25.1 | 25.8 |

|    |     |      |      |      |      |      |      |      |      |      |      |
|----|-----|------|------|------|------|------|------|------|------|------|------|
| 8H | 4H  | 17.8 | 18.6 | 18.4 | 19.2 | 19.9 | 21.1 | 21.9 | 21.7 | 22.5 | 23.2 |
|    | 6H  | 18.2 | 18.9 | 18.9 | 19.5 | 20.2 | 22.6 | 23.3 | 23.3 | 23.9 | 24.6 |
|    | 8H  | 18.4 | 18.9 | 19.0 | 19.6 | 20.3 | 23.4 | 24.0 | 24.1 | 24.7 | 25.4 |
|    | 12H | 18.4 | 18.9 | 19.1 | 19.6 | 20.4 | 24.3 | 24.8 | 25.0 | 25.5 | 26.3 |

|     |    |      |      |      |      |      |      |      |      |      |      |
|-----|----|------|------|------|------|------|------|------|------|------|------|
| 12H | 4H | 18.0 | 18.7 | 18.6 | 19.3 | 20.0 | 21.1 | 21.8 | 21.7 | 22.5 | 23.2 |
|     | 6H | 18.5 | 19.1 | 19.2 | 19.7 | 20.5 | 22.6 | 23.2 | 23.3 | 23.8 | 24.6 |
|     | 8H | 18.7 | 19.2 | 19.4 | 19.9 | 20.7 | 23.5 | 24.0 | 24.1 | 24.7 | 25.4 |

Maximum UGR = 26.3

POLAR GRAPH



Maximum Candela = 503.657 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.)