



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75L-4-L65-840-A12125\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 17755.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 11-01-2023

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 4' LED SURFACE MOUNT LUMINAIRE

[MORE] WHITE REFLECTOR w/CLEAR PRISMATIC LENS

[LUMCAT] 75L-4-L65-840-AF12125-DIM-UNV

[\_SEARCH\_SOURCETYPE]LED

[\_SEARCH\_APPLICATION]INDOOR,COMMERCIAL,INDUSTRIAL,DIRECT,LINEAR,MANUFACTURING,WAREHOUSE

[\_SEARCH\_MOUNTING]CEILING,SURFACE,SUSPENDED,WALL

### CHARACTERISTICS

|                                 |                 |
|---------------------------------|-----------------|
| Lumens Per Lamp                 | N.A. (absolute) |
| Total Lamp Lumens               | N.A. (absolute) |
| Luminaire Lumens                | 7759            |
| Total Luminaire Efficiency      | N.A.            |
| Luminaire Efficacy Rating (LER) | 139             |
| Total Luminaire Watts           | 55.7            |
| Ballast Factor                  | 1.00            |
| CIE Type                        | Direct          |
| Spacing Criterion (0-180)       | 1.28            |
| Spacing Criterion (90-270)      | 1.16            |
| Spacing Criterion (Diagonal)    | 1.22            |
| Basic Luminous Shape            | Rectangular     |
| Luminous Length (0-180)         | 3.71 ft         |
| Luminous Width (90-270)         | 0.17 ft         |
| Luminous Height                 | 0.00 ft         |

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

| Angle In<br>Degrees | Average<br>0-Deg | Average<br>45-Deg | Average<br>90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45                  | 51917            | 40142             | 32114             |
| 55                  | 41569            | 28133             | 23514             |
| 65                  | 29389            | 18806             | 19620             |
| 75                  | 22333            | 14357             | 18345             |
| 85                  | 22896            | 16975             | 19343             |

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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>  | 3738.185   | 3738.185    | 3738.185    | 3738.185    | 3738.185    |
| <b>5</b>  | 3801.440   | 3734.104    | 3713.699    | 3699.416    | 3689.213    |
| <b>10</b> | 3752.468   | 3693.294    | 3679.011    | 3662.687    | 3644.322    |
| <b>15</b> | 3679.011   | 3613.715    | 3583.107    | 3601.472    | 3572.905    |
| <b>20</b> | 3560.662   | 3497.407    | 3470.880    | 3481.083    | 3470.880    |
| <b>25</b> | 3389.260   | 3340.289    | 3303.560    | 3262.750    | 3256.628    |
| <b>30</b> | 3201.535   | 3138.280    | 3026.053    | 2936.271    | 2873.016    |
| <b>35</b> | 2956.676   | 2864.854    | 2671.007    | 2440.431    | 2250.665    |
| <b>40</b> | 2595.508   | 2509.808    | 2175.167    | 1820.121    | 1689.529    |
| <b>45</b> | 2177.207   | 2124.154    | 1683.408    | 1403.860    | 1346.726    |
| <b>50</b> | 1779.311   | 1689.529    | 1281.430    | 1097.786    | 1046.773    |
| <b>55</b> | 1414.062   | 1228.377    | 956.992     | 840.684     | 799.874     |
| <b>60</b> | 1044.733   | 840.684     | 706.011     | 626.432     | 624.391     |
| <b>65</b> | 736.618    | 585.622     | 471.354     | 473.395     | 491.759     |
| <b>70</b> | 506.043    | 395.856     | 316.277     | 369.329     | 377.491     |
| <b>75</b> | 342.803    | 271.386     | 220.373     | 269.345     | 281.588     |
| <b>80</b> | 240.778    | 193.847     | 171.401     | 187.725     | 193.847     |
| <b>85</b> | 118.349    | 110.187     | 87.741      | 99.984      | 99.984      |
| <b>90</b> | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       |

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**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  | %Lamp | %Fixt  |
|---------|---------|-------|--------|
| 0-20    | 1371.48 | N.A.  | 17.70  |
| 0-30    | 2887.1  | N.A.  | 37.20  |
| 0-40    | 4525.43 | N.A.  | 58.30  |
| 0-60    | 6812.99 | N.A.  | 87.80  |
| 0-80    | 7651.29 | N.A.  | 98.60  |
| 0-90    | 7759.14 | N.A.  | 100.00 |
| 10-90   | 7404.99 | N.A.  | 95.40  |
| 20-40   | 3153.96 | N.A.  | 40.60  |
| 20-50   | 4506.23 | N.A.  | 58.10  |
| 40-70   | 2832.87 | N.A.  | 36.50  |
| 60-80   | 838.30  | N.A.  | 10.80  |
| 70-80   | 293.00  | N.A.  | 3.80   |
| 80-90   | 107.84  | N.A.  | 1.40   |
| 90-110  | 0.00    | N.A.  | 0.00   |
| 90-120  | 0.00    | N.A.  | 0.00   |
| 90-130  | 0.00    | N.A.  | 0.00   |
| 90-150  | 0.00    | N.A.  | 0.00   |
| 90-180  | 0.00    | N.A.  | 0.00   |
| 110-180 | 0.00    | N.A.  | 0.00   |
| 0-180   | 7759.14 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  |
|---------|---------|
| 0-10    | 354.15  |
| 10-20   | 1017.32 |
| 20-30   | 1515.62 |
| 30-40   | 1638.33 |
| 40-50   | 1352.28 |
| 50-60   | 935.28  |
| 60-70   | 545.31  |
| 70-80   | 293.00  |
| 80-90   | 107.84  |
| 90-100  | 0.00    |
| 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    |

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : 75L-4-L65-840-A12125\_.IES****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  | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1  | 110 | 106 | 102 | 99  | 108 | 104 | 101 | 98  | 100 | 97  | 95  | 96  | 94  | 92  | 92  | 91  | 89  | 87  |
| 2  | 102 | 95  | 89  | 84  | 99  | 93  | 87  | 83  | 89  | 85  | 81  | 86  | 82  | 79  | 83  | 80  | 77  | 75  |
| 3  | 94  | 85  | 77  | 72  | 92  | 83  | 76  | 71  | 80  | 75  | 70  | 78  | 73  | 69  | 75  | 71  | 68  | 66  |
| 4  | 87  | 76  | 68  | 62  | 85  | 75  | 68  | 62  | 73  | 66  | 61  | 70  | 65  | 60  | 68  | 63  | 60  | 58  |
| 5  | 81  | 69  | 61  | 55  | 79  | 68  | 60  | 55  | 66  | 59  | 54  | 64  | 58  | 54  | 62  | 57  | 53  | 51  |
| 6  | 75  | 63  | 55  | 49  | 73  | 62  | 54  | 49  | 60  | 53  | 48  | 59  | 52  | 48  | 57  | 52  | 47  | 46  |
| 7  | 70  | 57  | 49  | 44  | 68  | 57  | 49  | 44  | 55  | 48  | 43  | 54  | 48  | 43  | 53  | 47  | 43  | 41  |
| 8  | 65  | 53  | 45  | 40  | 64  | 52  | 45  | 39  | 51  | 44  | 39  | 50  | 44  | 39  | 49  | 43  | 39  | 37  |
| 9  | 61  | 49  | 41  | 36  | 60  | 48  | 41  | 36  | 47  | 40  | 36  | 46  | 40  | 36  | 45  | 40  | 35  | 34  |
| 10 | 58  | 45  | 38  | 33  | 56  | 45  | 38  | 33  | 44  | 37  | 33  | 43  | 37  | 33  | 42  | 37  | 33  | 31  |

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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 | 23.9 | 25.4 | 24.3 | 25.7 | 26.0 | 21.3 | 22.7 | 21.6 | 23.0 | 23.4 |
|      | 3H   | 25.1 | 26.4 | 25.4 | 26.7 | 27.1 | 22.8 | 24.1 | 23.2 | 24.4 | 24.8 |
|      | 4H   | 25.5 | 26.7 | 25.9 | 27.1 | 27.5 | 23.4 | 24.6 | 23.8 | 25.0 | 25.4 |
|      | 6H   | 26.0 | 27.1 | 26.4 | 27.5 | 27.8 | 24.0 | 25.1 | 24.4 | 25.5 | 25.9 |
|      | 8H   | 26.1 | 27.2 | 26.6 | 27.6 | 28.0 | 24.2 | 25.3 | 24.7 | 25.7 | 26.1 |
|      | 12H  | 26.3 | 27.3 | 26.7 | 27.7 | 28.1 | 24.4 | 25.5 | 24.9 | 25.8 | 26.3 |

UGR Viewed Endwise

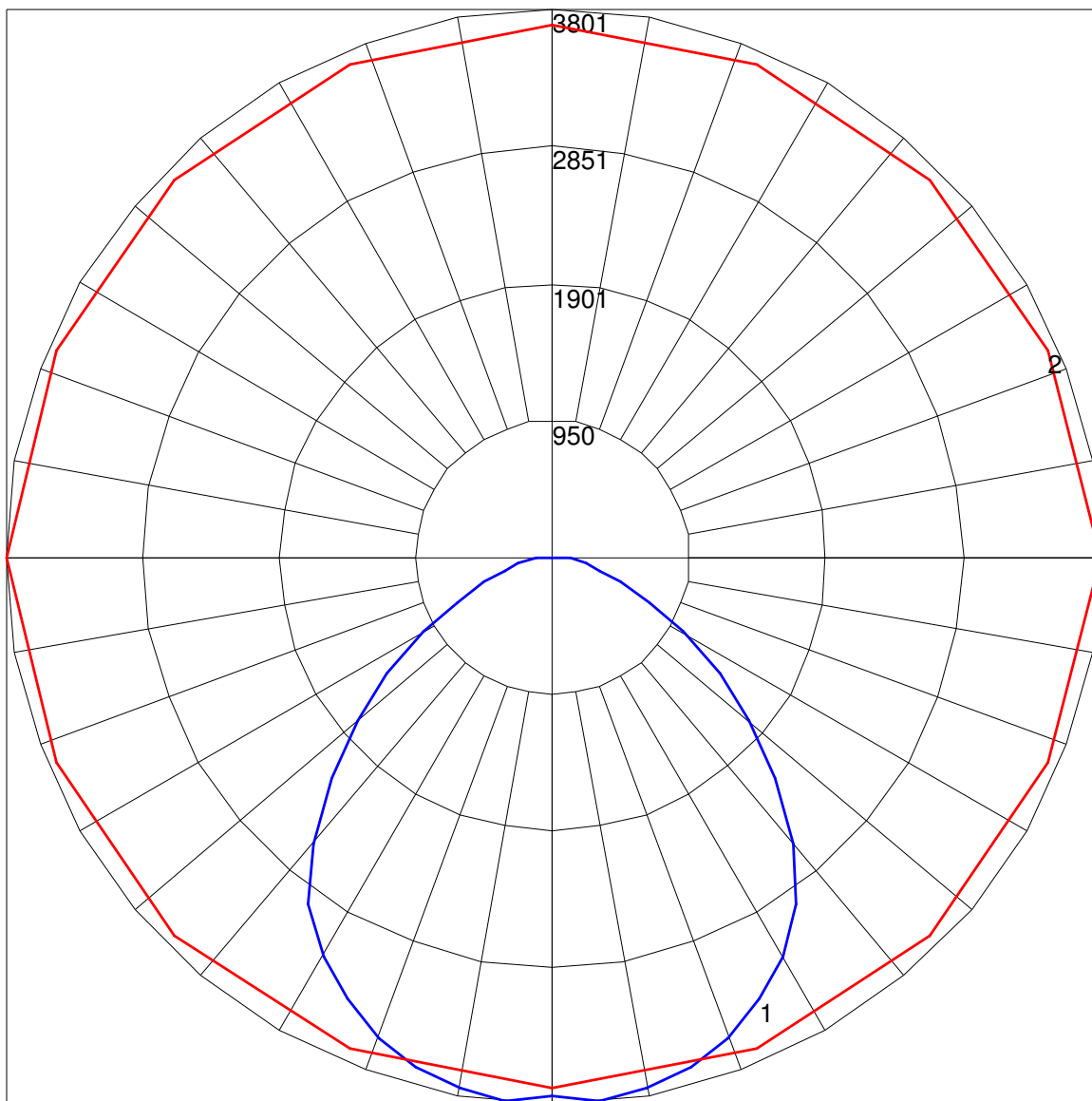
|    |     |      |      |      |      |      |      |      |      |      |      |
|----|-----|------|------|------|------|------|------|------|------|------|------|
| 4H | 2H  | 24.0 | 25.3 | 24.4 | 25.6 | 26.0 | 21.7 | 23.0 | 22.1 | 23.3 | 23.7 |
|    | 3H  | 25.4 | 26.4 | 25.8 | 26.8 | 27.2 | 23.4 | 24.4 | 23.8 | 24.8 | 25.2 |
|    | 4H  | 25.9 | 26.8 | 26.3 | 27.2 | 27.7 | 24.2 | 25.1 | 24.7 | 25.6 | 26.0 |
|    | 6H  | 26.5 | 27.3 | 27.0 | 27.8 | 28.2 | 25.0 | 25.8 | 25.5 | 26.2 | 26.7 |
|    | 8H  | 26.8 | 27.5 | 27.2 | 28.0 | 28.4 | 25.3 | 26.0 | 25.7 | 26.5 | 26.9 |
|    | 12H | 27.0 | 27.7 | 27.5 | 28.1 | 28.6 | 25.5 | 26.2 | 26.0 | 26.7 | 27.2 |

|    |     |      |      |      |      |      |      |      |      |      |      |
|----|-----|------|------|------|------|------|------|------|------|------|------|
| 8H | 4H  | 26.0 | 26.7 | 26.5 | 27.2 | 27.7 | 24.4 | 25.2 | 24.9 | 25.6 | 26.1 |
|    | 6H  | 26.7 | 27.3 | 27.2 | 27.8 | 28.3 | 25.4 | 26.0 | 25.9 | 26.5 | 27.0 |
|    | 8H  | 27.1 | 27.6 | 27.6 | 28.1 | 28.6 | 25.8 | 26.3 | 26.3 | 26.8 | 27.3 |
|    | 12H | 27.4 | 27.9 | 27.9 | 28.4 | 29.0 | 26.2 | 26.6 | 26.7 | 27.1 | 27.7 |

|     |    |      |      |      |      |      |      |      |      |      |      |
|-----|----|------|------|------|------|------|------|------|------|------|------|
| 12H | 4H | 26.0 | 26.7 | 26.5 | 27.2 | 27.6 | 24.5 | 25.2 | 25.0 | 25.6 | 26.1 |
|     | 6H | 26.8 | 27.3 | 27.3 | 27.8 | 28.3 | 25.4 | 26.0 | 26.0 | 26.5 | 27.0 |
|     | 8H | 27.2 | 27.7 | 27.7 | 28.1 | 28.7 | 25.9 | 26.4 | 26.4 | 26.9 | 27.5 |

Maximum UGR = 29.0

POLAR GRAPH



Maximum Candela = 3801.44 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.)