



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75R-4-L50-840-EM10WLP-DIM-UNV_(EMER MODE).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] 05-27-2021

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 4' SURFACE MOUNT LED STRIP LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC ROUND LENS

[LUMCAT] 75R-4-L50-840-EM10WLP-DIM-UNV(EMERGENCY MODE)

[LAMPCAT] HLM 80 CRI 4000K 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 | 1519 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 152 |
| Total Luminaire Watts | 10 |
| 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) | 3.72 ft |
| Luminous Width (90-270) | 0.21 ft |
| Luminous Height | 0.10 ft |

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 5312 | 4491 | 4483 |
| 55 | 4384 | 3844 | 3947 |
| 65 | 3611 | 3229 | 3325 |
| 75 | 2440 | 2653 | 2724 |
| 85 | 1432 | 2279 | 2234 |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : 75R-4-L50-840-EM10WLP-DIM-UNV_(EMER MODE).IES****CANDELA TABULATION**

| | <u>0.0</u> | <u>22.5</u> | <u>45.0</u> | <u>67.5</u> | <u>90.0</u> |
|------------|------------|-------------|-------------|-------------|-------------|
| 0 | 486.517 | 486.517 | 486.517 | 486.517 | 486.517 |
| 5 | 491.858 | 484.659 | 484.891 | 483.730 | 478.853 |
| 10 | 483.730 | 477.692 | 478.853 | 478.156 | 473.744 |
| 15 | 469.564 | 465.152 | 468.403 | 469.796 | 465.152 |
| 20 | 448.199 | 447.038 | 452.611 | 454.934 | 452.147 |
| 25 | 423.119 | 424.744 | 432.640 | 437.981 | 435.891 |
| 30 | 394.322 | 396.645 | 410.114 | 418.242 | 417.777 |
| 35 | 359.256 | 363.436 | 382.943 | 394.322 | 395.948 |
| 40 | 321.867 | 324.886 | 349.502 | 366.687 | 370.635 |
| 45 | 277.744 | 285.408 | 313.739 | 336.498 | 342.071 |
| 50 | 231.995 | 244.303 | 278.905 | 303.754 | 310.720 |
| 55 | 188.104 | 204.128 | 243.142 | 269.152 | 279.137 |
| 60 | 151.412 | 166.275 | 208.773 | 234.782 | 245.232 |
| 65 | 116.346 | 132.602 | 176.725 | 200.412 | 209.469 |
| 70 | 81.512 | 103.341 | 146.303 | 166.972 | 175.796 |
| 75 | 50.161 | 78.028 | 118.204 | 137.711 | 145.374 |
| 80 | 27.867 | 53.877 | 94.284 | 112.398 | 117.275 |
| 85 | 11.844 | 37.156 | 75.242 | 90.801 | 94.052 |
| 90 | 1.626 | 25.545 | 58.289 | 71.991 | 76.403 |
| 95 | 0.232 | 17.417 | 46.678 | 57.128 | 61.773 |
| 100 | 0.000 | 11.379 | 36.227 | 46.678 | 50.393 |
| 105 | 0.000 | 8.128 | 28.100 | 38.085 | 41.104 |
| 110 | 0.000 | 5.573 | 21.597 | 31.118 | 33.673 |
| 115 | 0.000 | 4.645 | 17.649 | 26.009 | 27.867 |
| 120 | 0.000 | 3.483 | 13.469 | 21.365 | 23.223 |
| 125 | 0.000 | 2.090 | 9.986 | 16.953 | 19.043 |
| 130 | 0.000 | 1.393 | 7.199 | 13.237 | 15.095 |
| 135 | 0.000 | 0.697 | 5.341 | 10.450 | 11.844 |
| 140 | 0.000 | 0.697 | 3.716 | 8.128 | 9.289 |
| 145 | 0.000 | 0.000 | 2.322 | 5.109 | 6.502 |
| 150 | 0.000 | 0.000 | 1.626 | 3.716 | 4.645 |
| 155 | 0.000 | 0.000 | 1.161 | 1.858 | 3.019 |
| 160 | 0.000 | 0.000 | 0.464 | 1.393 | 1.626 |
| 165 | 0.000 | 0.000 | 0.000 | 0.464 | 0.697 |
| 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 |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : 75R-4-L50-840-EM10WLP-DIM-UNV_(EMER MODE).IES****ZONAL LUMEN SUMMARY**

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 177.91 | N.A. | 11.70 |
| 0-30 | 376.63 | N.A. | 24.80 |
| 0-40 | 613.76 | N.A. | 40.40 |
| 0-60 | 1066.99 | N.A. | 70.20 |
| 0-80 | 1349.09 | N.A. | 88.80 |
| 0-90 | 1419.99 | N.A. | 93.50 |
| 10-90 | 1373.93 | N.A. | 90.50 |
| 20-40 | 435.86 | N.A. | 28.70 |
| 20-50 | 676.14 | N.A. | 44.50 |
| 40-70 | 620.32 | N.A. | 40.80 |
| 60-80 | 282.10 | N.A. | 18.60 |
| 70-80 | 115.00 | N.A. | 7.60 |
| 80-90 | 70.90 | N.A. | 4.70 |
| 90-110 | 67.66 | N.A. | 4.50 |
| 90-120 | 83.17 | N.A. | 5.50 |
| 90-130 | 91.98 | N.A. | 6.10 |
| 90-150 | 98.26 | N.A. | 6.50 |
| 90-180 | 98.92 | N.A. | 6.50 |
| 110-180 | 31.26 | N.A. | 2.10 |
| 0-180 | 1518.91 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 46.06 |
| 10-20 | 131.85 |
| 20-30 | 198.72 |
| 30-40 | 237.14 |
| 40-50 | 240.28 |
| 50-60 | 212.95 |
| 60-70 | 167.09 |
| 70-80 | 115.00 |
| 80-90 | 70.90 |
| 90-100 | 42.21 |
| 100-110 | 25.45 |
| 110-120 | 15.51 |
| 120-130 | 8.81 |
| 130-140 | 4.45 |
| 140-150 | 1.84 |
| 150-160 | 0.57 |
| 160-170 | 0.08 |
| 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

| X=2H | Y=2H | 14.3 | 15.8 | 14.7 | 16.2 | 16.7 | 17.7 | 19.1 | 18.1 | 19.6 | 20.1 |
|------|------|------|------|------|------|------|------|------|------|------|------|
| | 3H | 15.5 | 16.8 | 15.9 | 17.3 | 17.8 | 19.9 | 21.2 | 20.3 | 21.7 | 22.2 |
| | 4H | 15.8 | 17.1 | 16.3 | 17.6 | 18.1 | 20.9 | 22.2 | 21.4 | 22.7 | 23.2 |
| | 6H | 16.0 | 17.2 | 16.5 | 17.7 | 18.2 | 21.9 | 23.1 | 22.4 | 23.6 | 24.2 |
| | 8H | 16.0 | 17.1 | 16.5 | 17.7 | 18.2 | 22.5 | 23.6 | 23.0 | 24.1 | 24.7 |
| | 12H | 16.0 | 17.1 | 16.5 | 17.6 | 18.2 | 23.0 | 24.1 | 23.6 | 24.6 | 25.2 |

UGR Viewed Endwise

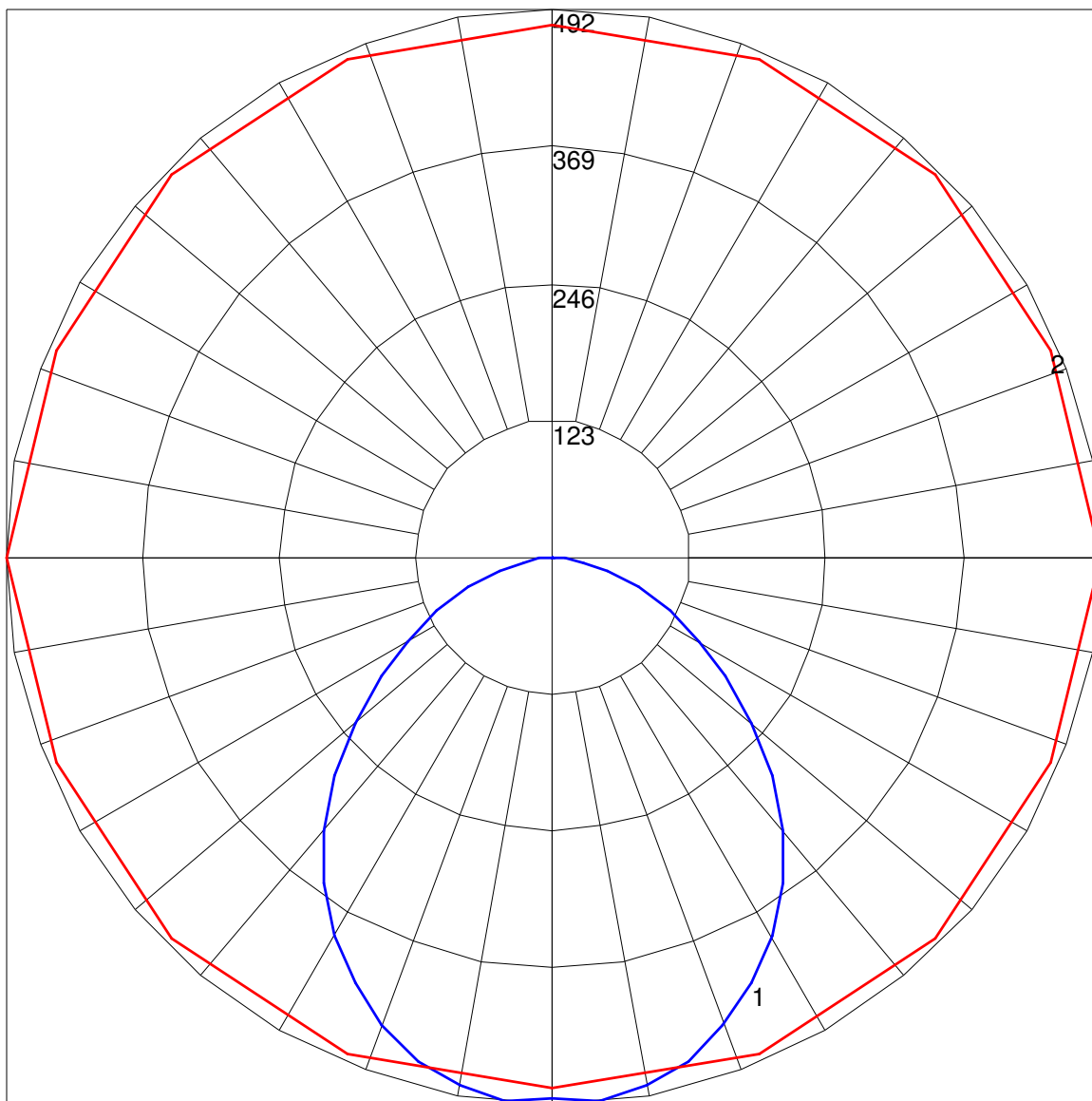
| | | | | | | | | | | | |
|----|-----|------|------|------|------|------|------|------|------|------|------|
| 4H | 2H | 15.3 | 16.6 | 15.8 | 17.1 | 17.6 | 18.0 | 19.3 | 18.5 | 19.7 | 20.3 |
| | 3H | 16.8 | 17.9 | 17.3 | 18.4 | 18.9 | 20.4 | 21.5 | 20.9 | 22.0 | 22.6 |
| | 4H | 17.2 | 18.2 | 17.8 | 18.8 | 19.4 | 21.6 | 22.6 | 22.1 | 23.1 | 23.7 |
| | 6H | 17.5 | 18.4 | 18.1 | 18.9 | 19.6 | 22.8 | 23.7 | 23.4 | 24.3 | 24.9 |
| | 8H | 17.6 | 18.4 | 18.1 | 19.0 | 19.6 | 23.4 | 24.3 | 24.0 | 24.8 | 25.4 |
| | 12H | 17.6 | 18.3 | 18.2 | 18.9 | 19.6 | 24.1 | 24.9 | 24.7 | 25.5 | 26.1 |

| | | | | | | | | | | | |
|----|-----|------|------|------|------|------|------|------|------|------|------|
| 8H | 4H | 18.0 | 18.8 | 18.6 | 19.4 | 20.0 | 21.7 | 22.6 | 22.3 | 23.1 | 23.8 |
| | 6H | 18.5 | 19.2 | 19.1 | 19.8 | 20.4 | 23.1 | 23.8 | 23.7 | 24.4 | 25.0 |
| | 8H | 18.6 | 19.2 | 19.2 | 19.9 | 20.5 | 23.9 | 24.5 | 24.5 | 25.1 | 25.8 |
| | 12H | 18.7 | 19.3 | 19.3 | 19.9 | 20.6 | 24.7 | 25.3 | 25.3 | 25.9 | 26.6 |

| | | | | | | | | | | | |
|-----|----|------|------|------|------|------|------|------|------|------|------|
| 12H | 4H | 18.2 | 18.9 | 18.8 | 19.5 | 20.2 | 21.7 | 22.5 | 22.3 | 23.1 | 23.7 |
| | 6H | 18.8 | 19.4 | 19.4 | 20.0 | 20.7 | 23.2 | 23.8 | 23.8 | 24.4 | 25.0 |
| | 8H | 19.0 | 19.6 | 19.6 | 20.2 | 20.9 | 23.9 | 24.5 | 24.6 | 25.1 | 25.8 |

Maximum UGR = 26.6

POLAR GRAPH



Maximum Candela = 491.858 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.)