



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75S-4-L85-940-(L70)-EM10W-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] 04-01-2021

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 4' LED STRIP LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC SQUARE LENS

[LUMCAT] 75S-4-L85-940-(L70)-EM10W-DIM-UNV (EMER MODE)

[LAMPCAT] HLM 90 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 | 1280 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 128 |
| 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 Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 4610 | 3720 | 3517 |
| 55 | 3908 | 3118 | 3151 |
| 65 | 3069 | 2664 | 2863 |
| 75 | 2113 | 2178 | 2540 |
| 85 | 944 | 1848 | 2226 |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : 75S-4-L85-940-(L70)-EM10W-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 | 431.880 | 431.880 | 431.880 | 431.880 | 431.880 |
| 5 | 435.595 | 430.121 | 429.925 | 428.948 | 423.864 |
| 10 | 428.166 | 423.278 | 423.669 | 422.496 | 417.804 |
| 15 | 416.240 | 411.547 | 412.720 | 411.547 | 407.637 |
| 20 | 396.298 | 392.778 | 396.298 | 394.538 | 390.432 |
| 25 | 371.663 | 370.295 | 373.423 | 373.227 | 367.167 |
| 30 | 344.488 | 345.074 | 348.593 | 348.593 | 341.164 |
| 35 | 311.251 | 315.943 | 317.703 | 318.289 | 310.664 |
| 40 | 275.082 | 282.120 | 280.556 | 283.684 | 279.774 |
| 45 | 239.695 | 245.951 | 245.560 | 251.230 | 250.252 |
| 50 | 203.525 | 209.195 | 213.692 | 223.272 | 225.227 |
| 55 | 166.379 | 173.417 | 183.388 | 197.660 | 204.112 |
| 60 | 131.382 | 139.985 | 156.994 | 174.590 | 182.997 |
| 65 | 97.755 | 111.440 | 132.751 | 152.888 | 161.491 |
| 70 | 67.060 | 85.047 | 107.921 | 129.818 | 139.985 |
| 75 | 42.621 | 59.826 | 85.633 | 107.530 | 117.697 |
| 80 | 23.266 | 39.884 | 67.255 | 87.197 | 96.582 |
| 85 | 7.429 | 24.439 | 51.028 | 68.819 | 77.617 |
| 90 | 0.000 | 15.836 | 38.906 | 55.525 | 61.585 |
| 95 | 0.000 | 14.468 | 36.365 | 50.832 | 54.352 |
| 100 | 0.000 | 13.686 | 33.823 | 46.336 | 49.464 |
| 105 | 0.000 | 12.513 | 31.673 | 42.817 | 45.945 |
| 110 | 0.000 | 11.731 | 29.522 | 40.079 | 43.208 |
| 115 | 0.000 | 10.753 | 26.980 | 37.538 | 40.470 |
| 120 | 0.000 | 9.189 | 24.243 | 34.019 | 37.538 |
| 125 | 0.000 | 7.625 | 21.897 | 31.086 | 34.214 |
| 130 | 0.000 | 6.256 | 18.964 | 27.762 | 29.913 |
| 135 | 0.000 | 5.670 | 15.250 | 24.048 | 26.198 |
| 140 | 0.000 | 4.692 | 11.926 | 20.137 | 22.288 |
| 145 | 0.000 | 3.715 | 9.189 | 15.641 | 17.791 |
| 150 | 0.000 | 2.737 | 7.038 | 11.926 | 13.686 |
| 155 | 0.000 | 2.151 | 5.670 | 8.602 | 9.971 |
| 160 | 0.000 | 0.000 | 4.106 | 6.256 | 7.038 |
| 165 | 0.000 | 0.000 | 2.737 | 4.497 | 4.888 |
| 170 | 0.000 | 0.000 | 0.000 | 2.737 | 2.933 |
| 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-L85-940-(L70)-EM10W-DIM-UNV_(EMER MODE).IES****ZONAL LUMEN SUMMARY**

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 156.78 | N.A. | 12.20 |
| 0-30 | 327.95 | N.A. | 25.60 |
| 0-40 | 524.98 | N.A. | 41.00 |
| 0-60 | 882.16 | N.A. | 68.90 |
| 0-80 | 1101.63 | N.A. | 86.10 |
| 0-90 | 1154.03 | N.A. | 90.20 |
| 10-90 | 1113.23 | N.A. | 87.00 |
| 20-40 | 368.20 | N.A. | 28.80 |
| 20-50 | 559.31 | N.A. | 43.70 |
| 40-70 | 487.72 | N.A. | 38.10 |
| 60-80 | 219.47 | N.A. | 17.10 |
| 70-80 | 88.92 | N.A. | 6.90 |
| 80-90 | 52.41 | N.A. | 4.10 |
| 90-110 | 64.48 | N.A. | 5.00 |
| 90-120 | 88.09 | N.A. | 6.90 |
| 90-130 | 105.48 | N.A. | 8.20 |
| 90-150 | 122.74 | N.A. | 9.60 |
| 90-180 | 125.97 | N.A. | 9.80 |
| 110-180 | 61.49 | N.A. | 4.80 |
| 0-180 | 1280.01 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 40.81 |
| 10-20 | 115.98 |
| 20-30 | 171.17 |
| 30-40 | 197.03 |
| 40-50 | 191.11 |
| 50-60 | 166.07 |
| 60-70 | 130.55 |
| 70-80 | 88.92 |
| 80-90 | 52.41 |
| 90-100 | 35.28 |
| 100-110 | 29.20 |
| 110-120 | 23.61 |
| 120-130 | 17.39 |
| 130-140 | 11.27 |
| 140-150 | 5.99 |
| 150-160 | 2.51 |
| 160-170 | 0.69 |
| 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 | 14.0 | 15.4 | 14.5 | 15.9 | 16.5 | 16.2 | 17.7 | 16.8 | 18.2 | 18.7 |
| | 3H | 15.2 | 16.4 | 15.7 | 17.0 | 17.6 | 18.6 | 19.9 | 19.2 | 20.4 | 21.0 |
| | 4H | 15.5 | 16.7 | 16.0 | 17.2 | 17.8 | 19.8 | 21.0 | 20.3 | 21.5 | 22.1 |
| | 6H | 15.6 | 16.8 | 16.2 | 17.3 | 17.9 | 20.9 | 22.0 | 21.5 | 22.6 | 23.2 |
| | 8H | 15.6 | 16.7 | 16.2 | 17.3 | 17.9 | 21.5 | 22.6 | 22.1 | 23.1 | 23.8 |
| | 12H | 15.6 | 16.7 | 16.2 | 17.2 | 17.9 | 22.1 | 23.1 | 22.7 | 23.7 | 24.4 |

UGR Viewed Endwise

| | | | | | | | | | | | |
|----|-----|------|------|------|------|------|------|------|------|------|------|
| 4H | 2H | 14.8 | 16.0 | 15.3 | 16.6 | 17.2 | 16.6 | 17.8 | 17.1 | 18.4 | 19.0 |
| | 3H | 16.2 | 17.2 | 16.8 | 17.8 | 18.5 | 19.2 | 20.2 | 19.8 | 20.8 | 21.4 |
| | 4H | 16.7 | 17.6 | 17.2 | 18.2 | 18.8 | 20.5 | 21.4 | 21.1 | 22.0 | 22.7 |
| | 6H | 16.9 | 17.7 | 17.5 | 18.4 | 19.0 | 21.8 | 22.6 | 22.4 | 23.2 | 23.9 |
| | 8H | 17.0 | 17.8 | 17.6 | 18.4 | 19.0 | 22.5 | 23.3 | 23.1 | 23.9 | 24.6 |
| | 12H | 17.0 | 17.7 | 17.6 | 18.3 | 19.0 | 23.2 | 23.9 | 23.9 | 24.6 | 25.3 |

| | | | | | | | | | | | |
|----|-----|------|------|------|------|------|------|------|------|------|------|
| 8H | 4H | 17.3 | 18.1 | 17.9 | 18.7 | 19.4 | 20.6 | 21.4 | 21.2 | 22.0 | 22.7 |
| | 6H | 17.7 | 18.4 | 18.4 | 19.0 | 19.7 | 22.1 | 22.8 | 22.8 | 23.4 | 24.1 |
| | 8H | 17.9 | 18.4 | 18.5 | 19.1 | 19.8 | 22.9 | 23.5 | 23.6 | 24.2 | 24.9 |
| | 12H | 17.9 | 18.4 | 18.6 | 19.1 | 19.9 | 23.8 | 24.3 | 24.5 | 25.0 | 25.8 |

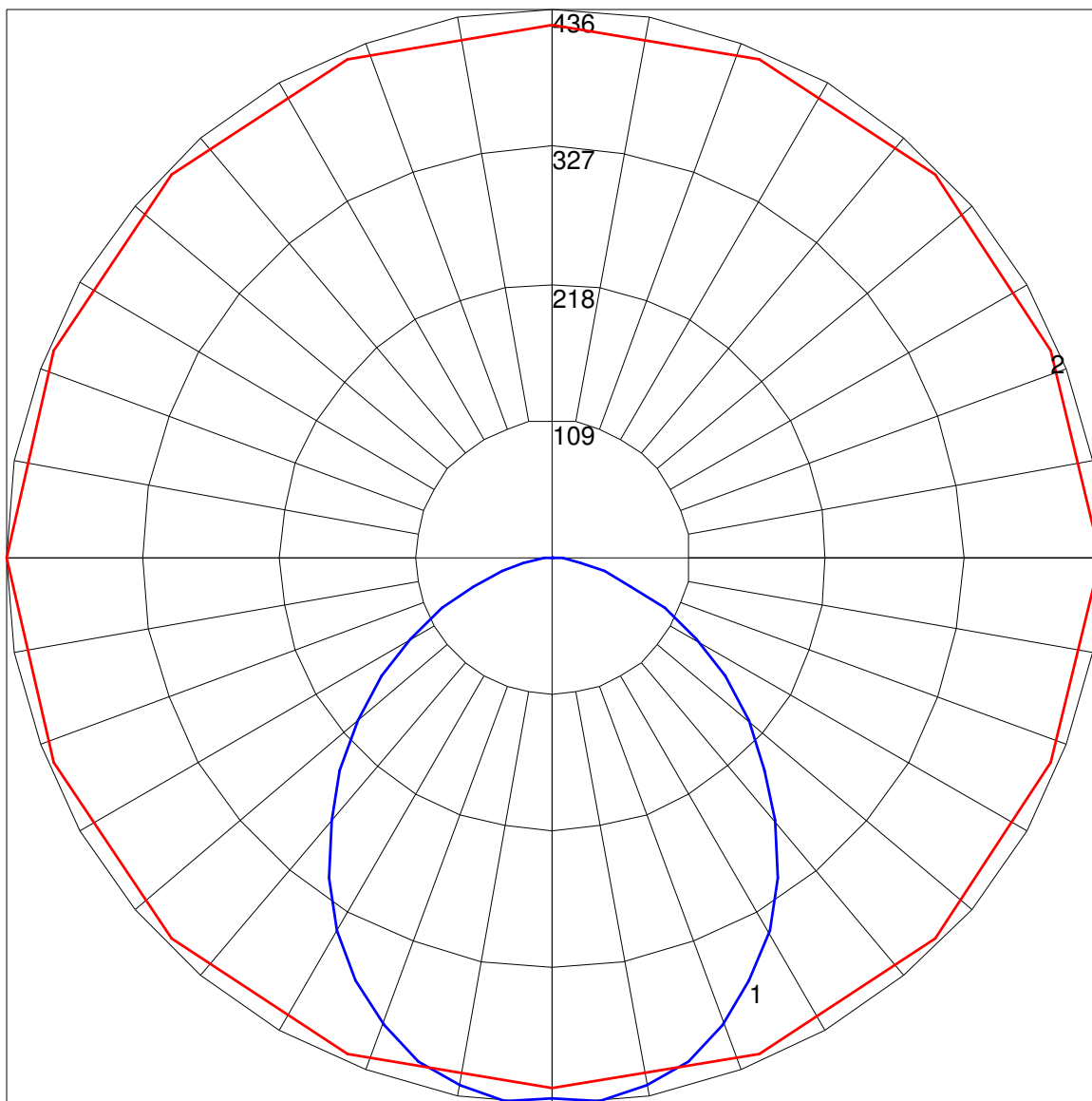
| | | | | | | | | | | | |
|-----|----|------|------|------|------|------|------|------|------|------|------|
| 12H | 4H | 17.5 | 18.2 | 18.1 | 18.8 | 19.5 | 20.6 | 21.3 | 21.3 | 22.0 | 22.7 |
| | 6H | 18.0 | 18.6 | 18.7 | 19.2 | 20.0 | 22.1 | 22.7 | 22.8 | 23.3 | 24.1 |
| | 8H | 18.2 | 18.7 | 18.9 | 19.4 | 20.2 | 23.0 | 23.5 | 23.6 | 24.2 | 24.9 |

Maximum UGR = 25.8

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POLAR GRAPH



Maximum Candela = 435.595 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.)