



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75S-2-L15-8FS-DIM-UNV_.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] 2' SURFACE MOUNT STRIP LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC SQUARE LENS

[LUMCAT] 75S-2-L15-8FS-DIM-UNV

[_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 | 1491 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 142 |
| Total Luminaire Watts | 10.5 |
| 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) | 1.88 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 | 10400 | 8470 | 8103 |
| 55 | 8741 | 7075 | 7261 |
| 65 | 6769 | 6018 | 6596 |
| 75 | 4529 | 4885 | 5852 |
| 85 | 1815 | 4093 | 5130 |

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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 | 503.073 | 503.073 | 503.073 | 503.073 | 503.073 |
| 5 | 507.400 | 501.023 | 500.795 | 499.657 | 493.736 |
| 10 | 498.746 | 493.052 | 493.508 | 492.141 | 486.676 |
| 15 | 484.854 | 479.388 | 480.754 | 479.388 | 474.833 |
| 20 | 461.625 | 457.525 | 461.625 | 459.575 | 454.792 |
| 25 | 432.930 | 431.335 | 434.979 | 434.751 | 427.692 |
| 30 | 401.274 | 401.957 | 406.056 | 406.056 | 397.402 |
| 35 | 362.559 | 368.024 | 370.074 | 370.757 | 361.875 |
| 40 | 320.427 | 328.626 | 326.804 | 330.448 | 325.893 |
| 45 | 279.207 | 286.494 | 286.039 | 292.643 | 291.504 |
| 50 | 237.075 | 243.679 | 248.917 | 260.077 | 262.354 |
| 55 | 193.805 | 202.003 | 213.618 | 230.243 | 237.758 |
| 60 | 153.040 | 163.060 | 182.873 | 203.370 | 213.163 |
| 65 | 113.869 | 129.811 | 154.634 | 178.091 | 188.111 |
| 70 | 78.114 | 99.066 | 125.711 | 151.218 | 163.060 |
| 75 | 49.647 | 69.688 | 99.749 | 125.256 | 137.098 |
| 80 | 27.101 | 46.459 | 78.342 | 101.571 | 112.502 |
| 85 | 8.654 | 28.467 | 59.440 | 80.164 | 90.412 |
| 90 | 0.000 | 18.447 | 45.320 | 64.678 | 71.737 |
| 95 | 0.000 | 16.853 | 42.359 | 59.212 | 63.311 |
| 100 | 0.000 | 15.942 | 39.399 | 53.974 | 57.618 |
| 105 | 0.000 | 14.575 | 36.894 | 49.875 | 53.518 |
| 110 | 0.000 | 13.664 | 34.388 | 46.686 | 50.330 |
| 115 | 0.000 | 12.526 | 31.428 | 43.726 | 47.142 |
| 120 | 0.000 | 10.704 | 28.239 | 39.626 | 43.726 |
| 125 | 0.000 | 8.882 | 25.507 | 36.210 | 39.854 |
| 130 | 0.000 | 7.288 | 22.091 | 32.339 | 34.844 |
| 135 | 0.000 | 6.604 | 17.764 | 28.012 | 30.517 |
| 140 | 0.000 | 5.466 | 13.892 | 23.457 | 25.962 |
| 145 | 0.000 | 4.327 | 10.704 | 18.219 | 20.724 |
| 150 | 0.000 | 3.188 | 8.199 | 13.892 | 15.942 |
| 155 | 0.000 | 2.505 | 6.604 | 10.020 | 11.615 |
| 160 | 0.000 | 0.000 | 4.782 | 7.288 | 8.199 |
| 165 | 0.000 | 0.000 | 3.188 | 5.238 | 5.693 |
| 170 | 0.000 | 0.000 | 0.000 | 3.188 | 3.416 |
| 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 | 182.63 | N.A. | 12.20 |
| 0-30 | 382.01 | N.A. | 25.60 |
| 0-40 | 611.52 | N.A. | 41.00 |
| 0-60 | 1027.57 | N.A. | 68.90 |
| 0-80 | 1283.22 | N.A. | 86.10 |
| 0-90 | 1344.27 | N.A. | 90.20 |
| 10-90 | 1296.73 | N.A. | 87.00 |
| 20-40 | 428.90 | N.A. | 28.80 |
| 20-50 | 651.51 | N.A. | 43.70 |
| 40-70 | 568.12 | N.A. | 38.10 |
| 60-80 | 255.65 | N.A. | 17.10 |
| 70-80 | 103.58 | N.A. | 6.90 |
| 80-90 | 61.04 | N.A. | 4.10 |
| 90-110 | 75.11 | N.A. | 5.00 |
| 90-120 | 102.61 | N.A. | 6.90 |
| 90-130 | 122.87 | N.A. | 8.20 |
| 90-150 | 142.97 | N.A. | 9.60 |
| 90-180 | 146.74 | N.A. | 9.80 |
| 110-180 | 71.63 | N.A. | 4.80 |
| 0-180 | 1491.01 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 47.53 |
| 10-20 | 135.09 |
| 20-30 | 199.38 |
| 30-40 | 229.51 |
| 40-50 | 222.61 |
| 50-60 | 193.44 |
| 60-70 | 152.07 |
| 70-80 | 103.58 |
| 80-90 | 61.04 |
| 90-100 | 41.10 |
| 100-110 | 34.01 |
| 110-120 | 27.50 |
| 120-130 | 20.26 |
| 130-140 | 13.13 |
| 140-150 | 6.98 |
| 150-160 | 2.92 |
| 160-170 | 0.81 |
| 170-180 | 0.04 |

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

| RC RW | 80 | | | | 70 | | | | 50 | | | 30 | | | 10 | | | 0 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 |
| 0 | 69 | 69 | 69 | 69 | 66 | 66 | 66 | 66 | 62 | 62 | 62 | 58 | 58 | 58 | 55 | 55 | 55 | 53 |
| 1 | 62 | 59 | 56 | 54 | 60 | 57 | 55 | 53 | 54 | 52 | 50 | 50 | 49 | 47 | 47 | 46 | 45 | 43 |
| 2 | 56 | 51 | 47 | 44 | 54 | 50 | 46 | 43 | 47 | 44 | 41 | 44 | 42 | 39 | 41 | 39 | 38 | 36 |
| 3 | 51 | 45 | 40 | 37 | 50 | 44 | 39 | 36 | 41 | 38 | 35 | 39 | 36 | 33 | 37 | 34 | 32 | 30 |
| 4 | 47 | 40 | 35 | 31 | 45 | 39 | 34 | 31 | 37 | 33 | 30 | 35 | 31 | 28 | 33 | 30 | 28 | 26 |
| 5 | 43 | 36 | 31 | 27 | 42 | 35 | 30 | 26 | 33 | 29 | 26 | 31 | 28 | 25 | 30 | 27 | 24 | 23 |
| 6 | 40 | 32 | 27 | 23 | 39 | 32 | 27 | 23 | 30 | 26 | 22 | 28 | 25 | 22 | 27 | 24 | 21 | 20 |
| 7 | 37 | 29 | 24 | 21 | 36 | 29 | 24 | 21 | 27 | 23 | 20 | 26 | 22 | 19 | 25 | 21 | 19 | 18 |
| 8 | 35 | 27 | 22 | 19 | 33 | 26 | 22 | 18 | 25 | 21 | 18 | 24 | 20 | 17 | 23 | 19 | 17 | 16 |
| 9 | 32 | 25 | 20 | 17 | 31 | 24 | 20 | 17 | 23 | 19 | 16 | 22 | 18 | 16 | 21 | 18 | 15 | 14 |
| 10 | 30 | 23 | 18 | 15 | 29 | 22 | 18 | 15 | 21 | 17 | 15 | 20 | 17 | 14 | 20 | 16 | 14 | 13 |

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UGR TABLE - CORRECTED

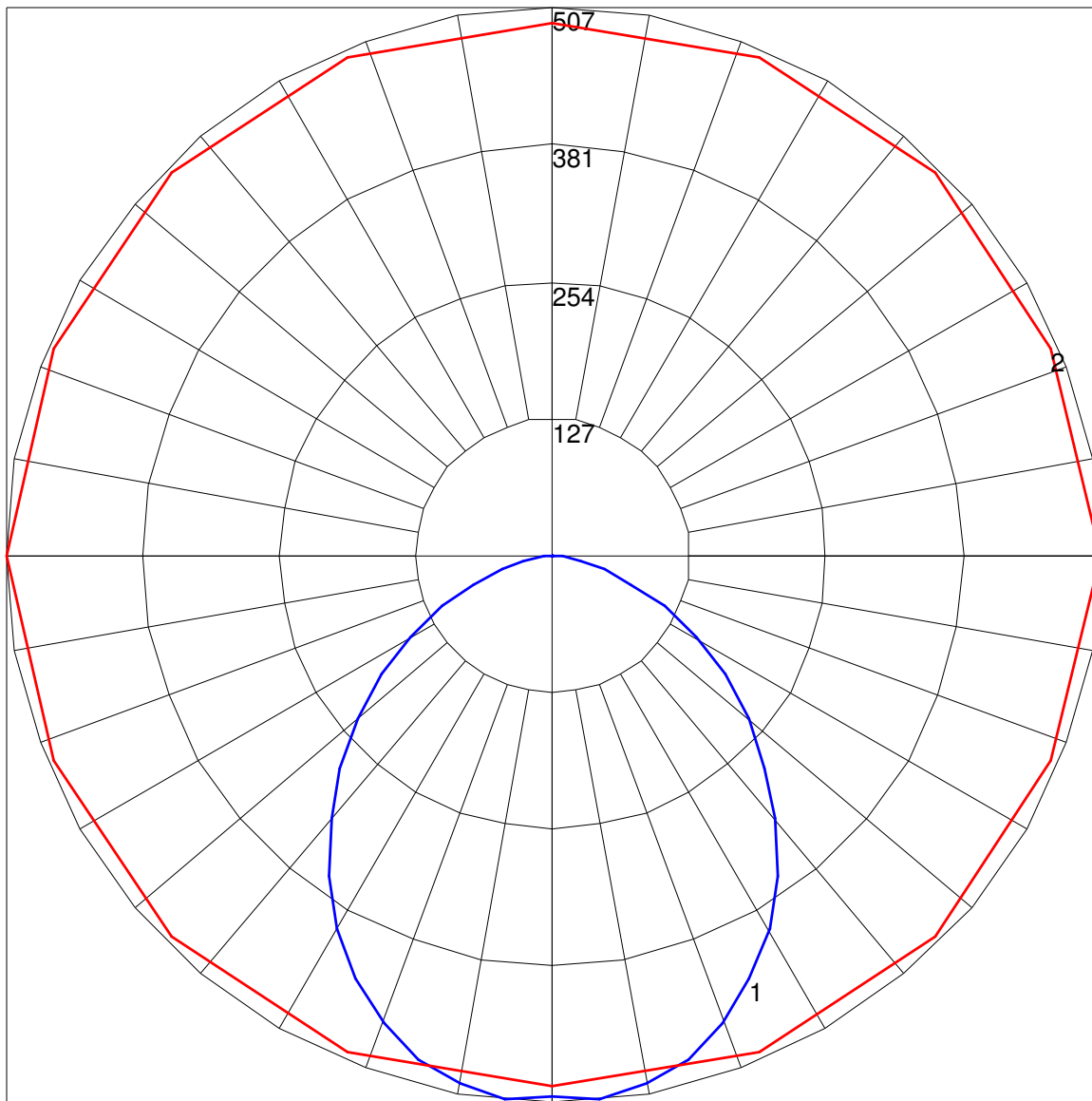
Reflectances

| | | | | | | | | | | |
|----------------|----|----|----|----|----|----|----|----|----|----|
| 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 | | | | | UGR Viewed Endwise | | | | |
|-----------|------|----------------------|------|------|------|------|--------------------|------|------|------|------|
| X=2H | Y=2H | 17.2 | 18.6 | 17.7 | 19.1 | 19.7 | 18.5 | 20.0 | 19.1 | 20.5 | 21.0 |
| | 3H | 18.6 | 19.9 | 19.1 | 20.4 | 21.0 | 20.9 | 22.2 | 21.5 | 22.7 | 23.3 |
| | 4H | 19.1 | 20.3 | 19.6 | 20.8 | 21.4 | 22.1 | 23.3 | 22.6 | 23.8 | 24.4 |
| | 6H | 19.3 | 20.5 | 19.9 | 21.0 | 21.6 | 23.2 | 24.3 | 23.8 | 24.9 | 25.5 |
| | 8H | 19.4 | 20.5 | 20.0 | 21.1 | 21.7 | 23.8 | 24.9 | 24.4 | 25.4 | 26.1 |
| | 12H | 19.4 | 20.5 | 20.0 | 21.0 | 21.7 | 24.4 | 25.4 | 25.0 | 26.0 | 26.7 |
| 4H | 2H | 17.8 | 19.0 | 18.4 | 19.6 | 20.2 | 18.9 | 20.1 | 19.4 | 20.6 | 21.3 |
| | 3H | 19.4 | 20.5 | 20.0 | 21.1 | 21.7 | 21.5 | 22.5 | 22.1 | 23.1 | 23.7 |
| | 4H | 20.0 | 21.0 | 20.6 | 21.5 | 22.2 | 22.8 | 23.7 | 23.4 | 24.3 | 25.0 |
| | 6H | 20.4 | 21.3 | 21.0 | 21.9 | 22.5 | 24.1 | 24.9 | 24.7 | 25.5 | 26.2 |
| | 8H | 20.5 | 21.3 | 21.1 | 21.9 | 22.6 | 24.8 | 25.6 | 25.4 | 26.2 | 26.9 |
| | 12H | 20.6 | 21.3 | 21.2 | 21.9 | 22.6 | 25.5 | 26.2 | 26.1 | 26.9 | 27.6 |
| 8H | 4H | 20.4 | 21.2 | 21.1 | 21.8 | 22.5 | 22.9 | 23.7 | 23.5 | 24.3 | 25.0 |
| | 6H | 21.0 | 21.7 | 21.7 | 22.3 | 23.0 | 24.4 | 25.1 | 25.1 | 25.7 | 26.4 |
| | 8H | 21.2 | 21.8 | 21.9 | 22.5 | 23.2 | 25.2 | 25.8 | 25.9 | 26.5 | 27.2 |
| | 12H | 21.4 | 21.9 | 22.0 | 22.5 | 23.3 | 26.1 | 26.6 | 26.8 | 27.3 | 28.1 |
| 12H | 4H | 20.5 | 21.2 | 21.2 | 21.9 | 22.6 | 22.9 | 23.6 | 23.5 | 24.3 | 25.0 |
| | 6H | 21.2 | 21.8 | 21.9 | 22.4 | 23.2 | 24.4 | 25.0 | 25.1 | 25.6 | 26.4 |
| | 8H | 21.5 | 22.0 | 22.1 | 22.6 | 23.4 | 25.3 | 25.8 | 25.9 | 26.5 | 27.2 |

Maximum UGR = 28.1

POLAR GRAPH



Maximum Candela = 507.4 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.)