



IES INDOOR REPORT

PHOTOMETRIC FILENAME : CX-3-08-L10-840-0-D-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN FROM BALLABS TEST NO. 19927.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUEDATE] 2023-07-14
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO 64836
 [LUMINAIRE] CONTINUOUS COVE LUMINAIRE @ 0 DEGREE
 [MORE] WITH FROSTED ACRYLIC LENS
 [LUMCAT] CX-3-08-L10-840-0-D-DIM-UNV
 [LAMPCAT] 22 INCH LED ARRAYS
 [_SEARCH_SOURCETYPE] LED
 [_SEARCH_APPLICATION] INDOOR, CLASSROOM, EDUCATIONAL, ATRIUM
 [_SEARCH_MOUNTING] COVE

CHARACTERISTICS

| | |
|---------------------------------|-----------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 3883 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 130 |
| Total Luminaire Watts | 29.9 |
| Ballast Factor | 1.00 |
| CIE Type | Indirect |
| Spacing Criterion (0-180) | N.A. |
| Spacing Criterion (90-270) | N.A. |
| Spacing Criterion (Diagonal) | N.A. |
| Basic Luminous Shape | Rectangular |
| Luminous Length (0-180) | 0.22 ft |
| Luminous Width (90-270) | 3.69 ft |
| Luminous Height | 0.00 ft |

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 0 | 0 | 0 |
| 55 | 0 | 0 | 0 |
| 65 | 0 | 0 | 0 |
| 75 | 0 | 0 | 0 |
| 85 | 0 | 0 | 0 |

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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> | <u>112.5</u> | <u>135.0</u> | <u>157.5</u> | <u>180.0</u> |
|------------|------------|-------------|-------------|-------------|-------------|--------------|--------------|--------------|--------------|
| 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 10 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 15 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 20 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 25 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 30 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 35 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 40 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 45 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 50 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 55 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 60 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 65 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 70 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 75 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 80 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 85 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 90 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 95 | 2.004 | 3.006 | 11.022 | 64.125 | 75.147 | 77.151 | 70.137 | 70.137 | 72.141 |
| 100 | 51.100 | 76.149 | 108.211 | 163.319 | 186.364 | 173.339 | 161.315 | 163.319 | 169.331 |
| 105 | 205.401 | 231.452 | 237.464 | 270.528 | 291.570 | 294.575 | 276.540 | 273.534 | 276.540 |
| 110 | 346.677 | 344.673 | 353.691 | 378.740 | 383.750 | 418.818 | 398.779 | 388.759 | 379.742 |
| 115 | 437.855 | 448.877 | 462.904 | 471.922 | 481.941 | 533.041 | 503.984 | 495.969 | 490.959 |
| 120 | 542.059 | 552.078 | 570.114 | 579.131 | 592.157 | 638.247 | 613.198 | 611.194 | 597.166 |
| 125 | 645.260 | 660.290 | 669.307 | 690.348 | 705.378 | 727.421 | 724.415 | 720.407 | 701.370 |
| 130 | 746.458 | 777.519 | 774.513 | 797.558 | 809.581 | 830.622 | 831.624 | 829.620 | 803.570 |
| 135 | 836.634 | 877.714 | 868.697 | 897.754 | 912.783 | 936.830 | 924.806 | 934.826 | 906.771 |
| 140 | 927.812 | 963.883 | 965.887 | 986.928 | 1003.961 | 1034.020 | 1020.994 | 1015.984 | 1003.961 |
| 145 | 1009.973 | 1037.026 | 1049.049 | 1065.080 | 1085.119 | 1116.180 | 1104.157 | 1088.125 | 1093.135 |
| 150 | 1085.119 | 1120.188 | 1126.200 | 1140.227 | 1162.270 | 1204.352 | 1184.313 | 1159.264 | 1178.302 |
| 155 | 1167.280 | 1198.341 | 1201.347 | 1208.360 | 1235.413 | 1274.489 | 1254.450 | 1226.395 | 1243.429 |
| 160 | 1231.405 | 1264.470 | 1258.458 | 1262.466 | 1291.523 | 1324.587 | 1308.556 | 1276.493 | 1287.515 |
| 165 | 1275.491 | 1318.575 | 1313.566 | 1308.556 | 1334.607 | 1361.660 | 1345.628 | 1313.566 | 1319.577 |
| 170 | 1304.548 | 1344.626 | 1344.626 | 1341.621 | 1365.667 | 1386.709 | 1370.677 | 1329.597 | 1334.607 |
| 175 | 1308.556 | 1357.652 | 1364.666 | 1362.662 | 1386.709 | 1403.742 | 1384.705 | 1331.601 | 1333.605 |
| 180 | 1360.658 | 1360.658 | 1360.658 | 1360.658 | 1360.658 | 1360.658 | 1360.658 | 1360.658 | 1360.658 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 0.00 | N.A. | 0.00 |
| 0-30 | 0.00 | N.A. | 0.00 |
| 0-40 | 0.00 | N.A. | 0.00 |
| 0-60 | 0.00 | N.A. | 0.00 |
| 0-80 | 0.00 | N.A. | 0.00 |
| 0-90 | 0.00 | N.A. | 0.00 |
| 10-90 | 0.00 | N.A. | 0.00 |
| 20-40 | 0.00 | N.A. | 0.00 |
| 20-50 | 0.00 | N.A. | 0.00 |
| 40-70 | 0.00 | N.A. | 0.00 |
| 60-80 | 0.00 | N.A. | 0.00 |
| 70-80 | 0.00 | N.A. | 0.00 |
| 80-90 | 0.00 | N.A. | 0.00 |
| 90-110 | 343.77 | N.A. | 8.90 |
| 90-120 | 822.95 | N.A. | 21.20 |
| 90-130 | 1446.52 | N.A. | 37.30 |
| 90-150 | 2816.06 | N.A. | 72.50 |
| 90-180 | 3883.02 | N.A. | 100.00 |
| 110-180 | 3539.25 | N.A. | 91.10 |
| 0-180 | 3883.02 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 0.00 |
| 10-20 | 0.00 |
| 20-30 | 0.00 |
| 30-40 | 0.00 |
| 40-50 | 0.00 |
| 50-60 | 0.00 |
| 60-70 | 0.00 |
| 70-80 | 0.00 |
| 80-90 | 0.00 |
| 90-100 | 66.60 |
| 100-110 | 277.17 |
| 110-120 | 479.18 |
| 120-130 | 623.57 |
| 130-140 | 696.20 |
| 140-150 | 673.34 |
| 150-160 | 563.94 |
| 160-170 | 373.34 |
| 170-180 | 129.68 |

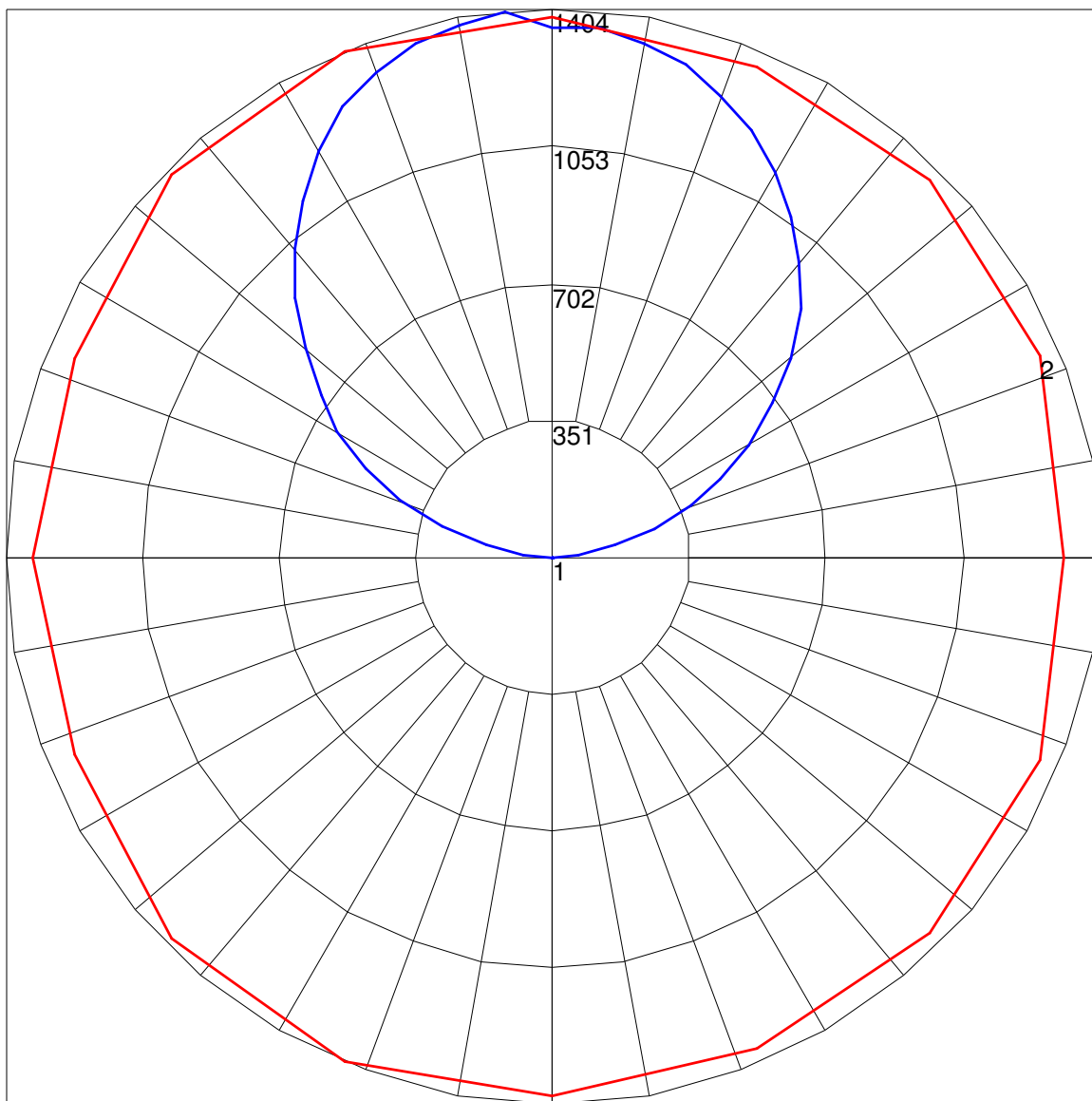
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 | 95 | 95 | 95 | 95 | 81 | 81 | 81 | 81 | 56 | 56 | 56 | 32 | 32 | 32 | 10 | 10 | 10 | 0 |
| 1 | 87 | 83 | 79 | 76 | 74 | 71 | 68 | 65 | 48 | 47 | 45 | 28 | 27 | 26 | 9 | 9 | 8 | 0 |
| 2 | 79 | 72 | 66 | 62 | 67 | 62 | 57 | 53 | 42 | 40 | 37 | 24 | 23 | 22 | 8 | 7 | 7 | 0 |
| 3 | 72 | 63 | 56 | 51 | 61 | 54 | 49 | 44 | 37 | 34 | 31 | 21 | 20 | 18 | 7 | 6 | 6 | 0 |
| 4 | 65 | 56 | 48 | 43 | 56 | 48 | 42 | 37 | 33 | 29 | 26 | 19 | 17 | 16 | 6 | 6 | 5 | 0 |
| 5 | 60 | 49 | 42 | 36 | 51 | 42 | 36 | 32 | 29 | 25 | 22 | 17 | 15 | 13 | 5 | 5 | 4 | 0 |
| 6 | 55 | 44 | 36 | 31 | 47 | 38 | 32 | 27 | 26 | 22 | 19 | 15 | 13 | 11 | 5 | 4 | 4 | 0 |
| 7 | 50 | 39 | 32 | 27 | 43 | 34 | 28 | 23 | 23 | 19 | 17 | 14 | 11 | 10 | 4 | 4 | 3 | 0 |
| 8 | 47 | 35 | 28 | 23 | 40 | 30 | 24 | 20 | 21 | 17 | 14 | 12 | 10 | 9 | 4 | 3 | 3 | 0 |
| 9 | 43 | 32 | 25 | 20 | 37 | 28 | 22 | 18 | 19 | 15 | 13 | 11 | 9 | 8 | 4 | 3 | 3 | 0 |
| 10 | 40 | 29 | 22 | 18 | 34 | 25 | 19 | 16 | 17 | 14 | 11 | 10 | 8 | 7 | 3 | 3 | 2 | 0 |

POLAR GRAPH



Maximum Candela = 1403.742 Located At Horizontal Angle = 112.5, Vertical Angle = 175
1 - Vertical Plane Through Horizontal Angles (112.5 - 292.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (175) (Through Max. Cd.)