



IES INDOOR REPORT

PHOTOMETRIC FILENAME : PTS-22-L36-8FS-SA.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]GEN from BALLABS TEST NO. 20789.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUE DATE] 30-APR-2019
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
 [LUMINAIRE] 1-84 LED 22"ARRAY 2x2 LUMINAIRE
 [MORE] WHITE REFLECTOR w/FROST SQUARED RIBBED LENS
 [MORE] ADVANCE #C1042C092V045CNN1
 [LUMCAT] PTS-22-L36-8FS-SA-DIM-UNV

CHARACTERISTICS

| | |
|---------------------------------|-----------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 3703 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 120 |
| Total Luminaire Watts | 30.9 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.18 |
| Spacing Criterion (90-270) | 1.14 |
| Spacing Criterion (Diagonal) | 1.28 |
| Basic Luminous Shape | Rectangular |
| Luminous Length (0-180) | 1.92 ft |
| Luminous Width (90-270) | 1.98 ft |
| Luminous Height | 0.00 ft |

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 3311 | 3262 | 3216 |
| 55 | 2975 | 3002 | 3085 |
| 65 | 2604 | 2840 | 3189 |
| 75 | 2030 | 2859 | 3696 |
| 85 | 1056 | 2662 | 3586 |

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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 | 1467.673 | 1467.673 | 1467.673 | 1467.673 | 1467.673 |
| 5 | 1467.673 | 1458.204 | 1452.117 | 1452.793 | 1451.441 |
| 10 | 1436.561 | 1429.121 | 1423.034 | 1420.329 | 1418.300 |
| 15 | 1385.835 | 1380.424 | 1373.661 | 1368.250 | 1366.897 |
| 20 | 1328.346 | 1319.553 | 1303.321 | 1299.939 | 1296.557 |
| 25 | 1244.479 | 1241.097 | 1222.159 | 1212.690 | 1206.603 |
| 30 | 1149.114 | 1143.703 | 1130.852 | 1115.973 | 1105.827 |
| 35 | 1041.574 | 1042.927 | 1026.695 | 1011.815 | 1005.728 |
| 40 | 931.330 | 934.712 | 918.479 | 908.334 | 904.276 |
| 45 | 825.820 | 823.791 | 813.645 | 810.264 | 802.148 |
| 50 | 713.546 | 715.575 | 706.106 | 714.222 | 707.459 |
| 55 | 601.949 | 608.036 | 607.360 | 624.268 | 624.268 |
| 60 | 492.381 | 496.439 | 514.024 | 537.020 | 547.165 |
| 65 | 388.223 | 398.368 | 423.393 | 456.534 | 475.472 |
| 70 | 282.713 | 300.298 | 342.232 | 384.841 | 407.837 |
| 75 | 185.319 | 216.431 | 261.070 | 310.443 | 337.497 |
| 80 | 98.070 | 133.240 | 183.290 | 231.987 | 257.012 |
| 85 | 32.465 | 54.108 | 81.838 | 100.099 | 110.245 |
| 90 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 525.23 | N.A. | 14.20 |
| 0-30 | 1089.03 | N.A. | 29.40 |
| 0-40 | 1731.17 | N.A. | 46.70 |
| 0-60 | 2910.28 | N.A. | 78.60 |
| 0-80 | 3612.03 | N.A. | 97.50 |
| 0-90 | 3703.28 | N.A. | 100.00 |
| 10-90 | 3565.28 | N.A. | 96.30 |
| 20-40 | 1205.95 | N.A. | 32.60 |
| 20-50 | 1835.8 | N.A. | 49.60 |
| 40-70 | 1603.82 | N.A. | 43.30 |
| 60-80 | 701.75 | N.A. | 18.90 |
| 70-80 | 277.03 | N.A. | 7.50 |
| 80-90 | 91.25 | N.A. | 2.50 |
| 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 | 3703.28 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 138.00 |
| 10-20 | 387.23 |
| 20-30 | 563.80 |
| 30-40 | 642.15 |
| 40-50 | 629.85 |
| 50-60 | 549.25 |
| 60-70 | 424.72 |
| 70-80 | 277.03 |
| 80-90 | 91.25 |
| 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 |

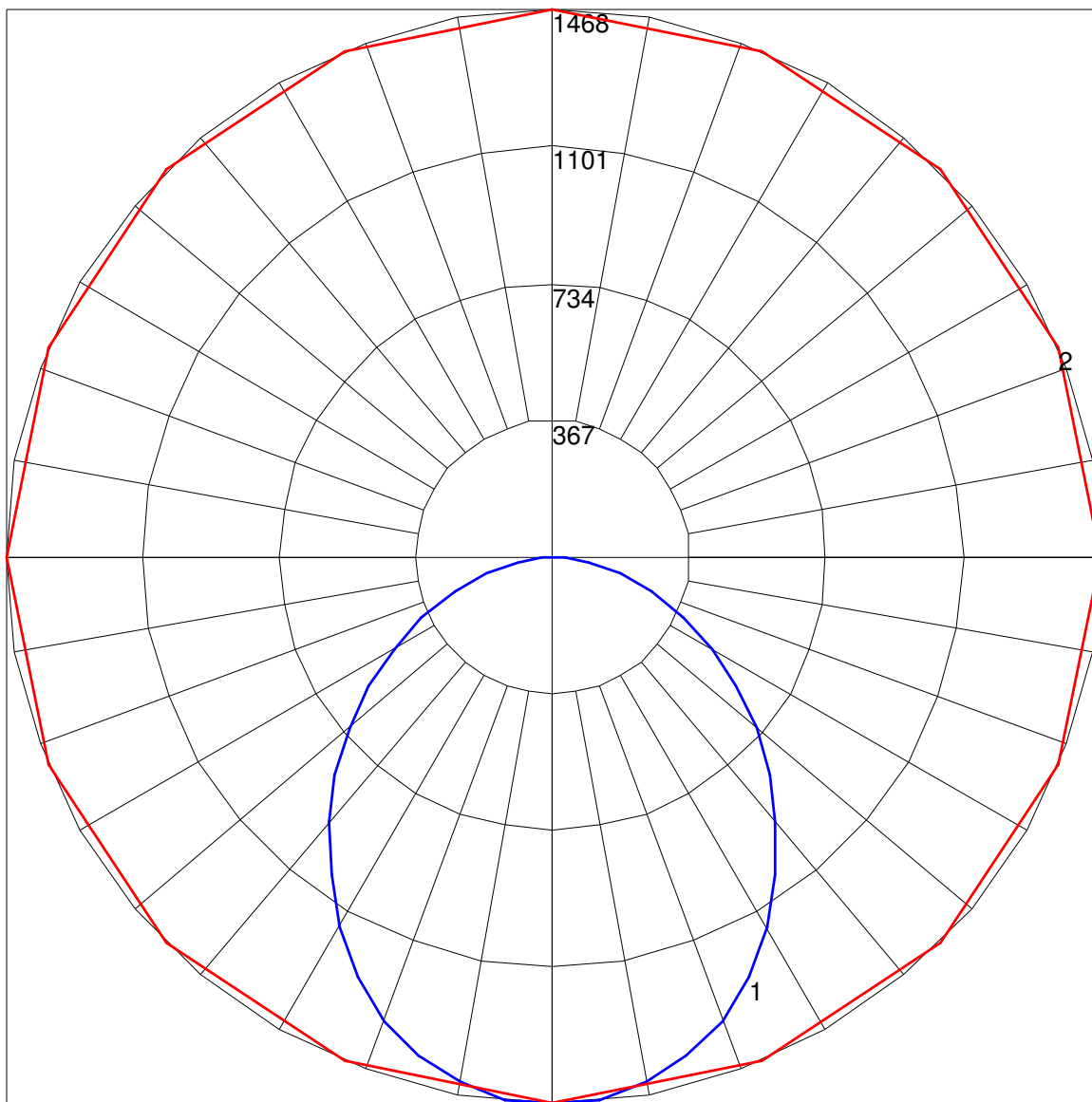
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1 | 109 | 104 | 99 | 95 | 106 | 101 | 97 | 94 | 97 | 94 | 91 | 93 | 91 | 88 | 90 | 87 | 85 | 83 |
| 2 | 99 | 91 | 84 | 78 | 96 | 89 | 82 | 77 | 85 | 80 | 75 | 82 | 77 | 73 | 79 | 75 | 72 | 70 |
| 3 | 90 | 80 | 72 | 65 | 88 | 78 | 71 | 64 | 75 | 69 | 63 | 72 | 67 | 62 | 70 | 65 | 61 | 59 |
| 4 | 83 | 71 | 62 | 55 | 80 | 69 | 61 | 55 | 67 | 60 | 54 | 65 | 58 | 53 | 62 | 57 | 53 | 51 |
| 5 | 76 | 63 | 55 | 48 | 74 | 62 | 54 | 48 | 60 | 53 | 47 | 58 | 52 | 47 | 56 | 51 | 46 | 44 |
| 6 | 71 | 57 | 48 | 42 | 69 | 56 | 48 | 42 | 55 | 47 | 41 | 53 | 46 | 41 | 51 | 45 | 41 | 39 |
| 7 | 66 | 52 | 43 | 37 | 64 | 51 | 43 | 37 | 50 | 42 | 37 | 48 | 42 | 37 | 47 | 41 | 36 | 34 |
| 8 | 61 | 48 | 39 | 33 | 60 | 47 | 39 | 33 | 46 | 38 | 33 | 44 | 38 | 33 | 43 | 37 | 33 | 31 |
| 9 | 57 | 44 | 36 | 30 | 56 | 43 | 35 | 30 | 42 | 35 | 30 | 41 | 34 | 30 | 40 | 34 | 30 | 28 |
| 10 | 54 | 41 | 33 | 27 | 52 | 40 | 32 | 27 | 39 | 32 | 27 | 38 | 32 | 27 | 37 | 31 | 27 | 25 |

POLAR GRAPH



Maximum Candela = 1467.673 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)