



IES INDOOR REPORT

PHOTOMETRIC FILENAME : PXF-62-03-08-P6-8TW-W-XXXX-XXXX-POE 4000K.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]GEN from BALLABS TEST NO. 20132.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUE DATE] 01-DEC-2017

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 2 LED 22" ARRAYS 4' RECESSED PERIMETER CONTINUOUS PX

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC LENS

[LUMCAT] PXF-62-03-08-P6-8TW-W-xxxx-xxxx-PoE 4000k

CHARACTERISTICS

| | |
|---------------------------------|-----------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 2194 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 115 |
| Total Luminaire Watts | 19.1 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.06 |
| Spacing Criterion (90-270) | 1.24 |
| Spacing Criterion (Diagonal) | 1.12 |
| Basic Luminous Shape | Rectangular |
| Luminous Length (0-180) | 0.50 ft |
| Luminous Width (90-270) | 3.71 ft |
| Luminous Height | 0.00 ft |

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 4257 | 4850 | 5546 |
| 55 | 3549 | 4285 | 4589 |
| 65 | 2081 | 4035 | 3389 |
| 75 | 1337 | 1754 | 2037 |
| 85 | 437 | 619 | 765 |

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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 | 1188.477 | 1188.477 | 1188.477 | 1188.477 | 1188.477 | 1188.477 | 1188.477 | 1188.477 | 1188.477 |
| 5 | 1206.543 | 1186.835 | 1187.930 | 1185.740 | 1184.645 | 1201.616 | 1187.930 | 1173.149 | 1170.412 |
| 10 | 1197.236 | 1172.054 | 1181.361 | 1183.003 | 1176.434 | 1187.930 | 1161.106 | 1128.807 | 1124.975 |
| 15 | 1150.157 | 1127.165 | 1151.799 | 1162.748 | 1156.179 | 1154.537 | 1111.289 | 1063.115 | 1059.831 |
| 20 | 1056.546 | 1047.787 | 1095.414 | 1126.070 | 1118.406 | 1094.866 | 1025.890 | 942.133 | 942.680 |
| 25 | 933.374 | 939.943 | 1022.605 | 1068.042 | 1064.210 | 1028.080 | 916.403 | 781.735 | 770.786 |
| 30 | 804.179 | 831.004 | 936.111 | 999.613 | 991.949 | 943.227 | 775.713 | 603.819 | 562.214 |
| 35 | 692.503 | 724.254 | 817.318 | 912.024 | 904.360 | 841.405 | 620.789 | 395.794 | 335.577 |
| 40 | 600.534 | 619.694 | 699.620 | 800.347 | 793.778 | 724.254 | 423.166 | 238.681 | 200.361 |
| 45 | 518.967 | 529.368 | 591.228 | 684.839 | 676.080 | 578.089 | 275.906 | 145.070 | 115.508 |
| 50 | 441.231 | 453.275 | 499.259 | 570.425 | 564.951 | 426.450 | 171.894 | 83.757 | 61.313 |
| 55 | 350.905 | 392.510 | 423.713 | 463.128 | 453.822 | 290.687 | 102.370 | 42.700 | 38.320 |
| 60 | 247.440 | 323.533 | 360.758 | 372.255 | 341.051 | 182.843 | 50.911 | 37.773 | 36.678 |
| 65 | 151.639 | 204.740 | 293.972 | 294.519 | 246.892 | 98.538 | 33.393 | 36.678 | 35.036 |
| 70 | 92.516 | 103.465 | 174.631 | 219.521 | 161.493 | 36.131 | 31.204 | 33.941 | 33.393 |
| 75 | 59.670 | 60.218 | 78.283 | 142.880 | 90.874 | 20.255 | 29.014 | 29.014 | 25.729 |
| 80 | 29.014 | 31.204 | 38.320 | 44.890 | 43.795 | 16.423 | 21.350 | 18.065 | 16.423 |
| 85 | 6.569 | 6.569 | 9.306 | 7.664 | 11.496 | 6.569 | 12.591 | 7.664 | 5.474 |
| 90 | 0.000 | 0.000 | 1.095 | 1.095 | 1.095 | 2.190 | 1.095 | 0.000 | 0.000 |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : PXF-62-03-08-P6-8TW-W-XXXX-XXXX-POE 4000K.IES****ZONAL LUMEN SUMMARY**

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 429.09 | N.A. | 19.60 |
| 0-30 | 868.86 | N.A. | 39.60 |
| 0-40 | 1316.37 | N.A. | 60.00 |
| 0-60 | 1952.26 | N.A. | 89.00 |
| 0-80 | 2181.57 | N.A. | 99.40 |
| 0-90 | 2194.46 | N.A. | 100.00 |
| 10-90 | 2081.78 | N.A. | 94.90 |
| 20-40 | 887.28 | N.A. | 40.40 |
| 20-50 | 1256.19 | N.A. | 57.20 |
| 40-70 | 797.77 | N.A. | 36.40 |
| 60-80 | 229.31 | N.A. | 10.40 |
| 70-80 | 67.43 | N.A. | 3.10 |
| 80-90 | 12.90 | N.A. | 0.60 |
| 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 | 2194.46 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 112.68 |
| 10-20 | 316.41 |
| 20-30 | 439.77 |
| 30-40 | 447.51 |
| 40-50 | 368.92 |
| 50-60 | 266.98 |
| 60-70 | 161.88 |
| 70-80 | 67.43 |
| 80-90 | 12.90 |
| 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

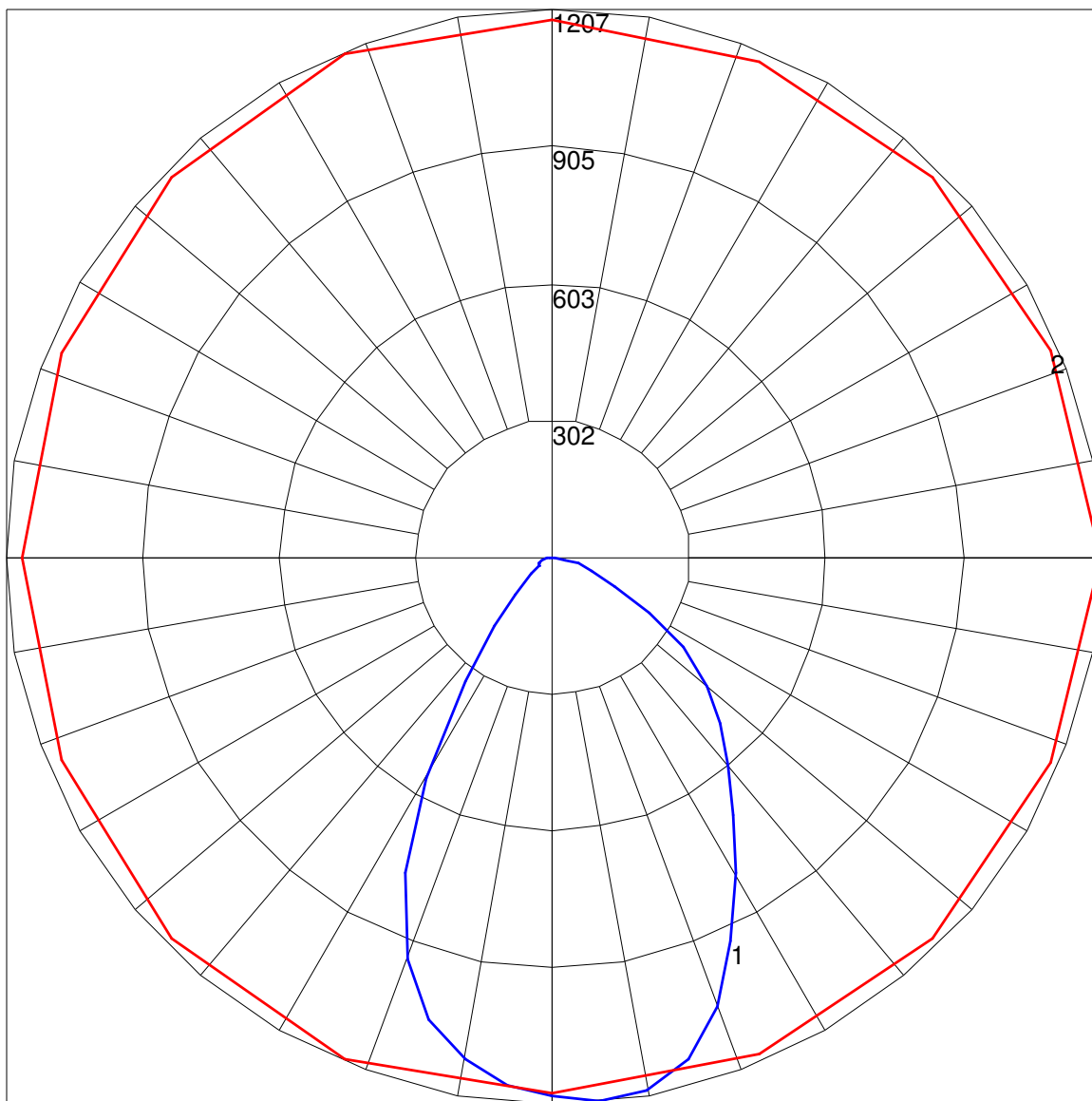
Effective Floor Cavity Reflectance 0.20

| 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 | 102 | 102 | 102 | 102 | 100 | 100 | 100 | 100 | 95 | 95 | 95 | 91 | 91 | 91 | 88 | 88 | 88 | 86 |
| 1 | 95 | 92 | 89 | 86 | 93 | 90 | 87 | 85 | 86 | 84 | 82 | 83 | 81 | 79 | 80 | 78 | 77 | 75 |
| 2 | 88 | 82 | 77 | 73 | 86 | 80 | 76 | 72 | 77 | 74 | 70 | 75 | 72 | 69 | 72 | 70 | 67 | 66 |
| 3 | 81 | 73 | 67 | 63 | 79 | 72 | 67 | 62 | 70 | 65 | 61 | 67 | 63 | 60 | 65 | 62 | 59 | 57 |
| 4 | 75 | 66 | 60 | 55 | 73 | 65 | 59 | 54 | 63 | 58 | 54 | 61 | 57 | 53 | 59 | 56 | 52 | 51 |
| 5 | 70 | 60 | 53 | 48 | 68 | 59 | 53 | 48 | 57 | 52 | 48 | 56 | 51 | 47 | 54 | 50 | 47 | 45 |
| 6 | 65 | 55 | 48 | 43 | 64 | 54 | 48 | 43 | 53 | 47 | 43 | 51 | 46 | 42 | 50 | 45 | 42 | 40 |
| 7 | 61 | 50 | 44 | 39 | 59 | 50 | 43 | 39 | 48 | 43 | 38 | 47 | 42 | 38 | 46 | 41 | 38 | 36 |
| 8 | 57 | 46 | 40 | 35 | 56 | 46 | 39 | 35 | 45 | 39 | 35 | 44 | 38 | 35 | 43 | 38 | 34 | 33 |
| 9 | 53 | 43 | 36 | 32 | 52 | 42 | 36 | 32 | 41 | 36 | 32 | 41 | 35 | 32 | 40 | 35 | 32 | 30 |
| 10 | 50 | 40 | 34 | 29 | 49 | 39 | 33 | 29 | 39 | 33 | 29 | 38 | 33 | 29 | 37 | 32 | 29 | 28 |

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POLAR GRAPH



Maximum Candela = 1206.543 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.)