



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : PXF-42-3-08-P6-935-W-POE PR\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM BALLABS TEST NO. 20126.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 10/27/2022

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 4'RECESSED PERIMETER CONTINUOUS PX

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC LENS

[LUMCAT] PXF-42-3-08-P6-935-W-POE PR

[LAMPCAT] HLM 90 CRI 3500K CCT

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1882
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	104
Total Luminaire Watts	18.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.10
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.12
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.32 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	4467	7848	7885
55	2539	4971	6447
65	1713	2315	5128
75	1220	1864	2932
85	302	1158	755

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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>
<b>0</b>	1063.211	1063.211	1063.211	1063.211	1063.211	1063.211	1063.211	1063.211	1063.211
<b>5</b>	1074.387	1079.732	1079.732	1072.929	1077.303	1070.986	1047.661	1029.196	1020.935
<b>10</b>	1056.894	1085.564	1085.078	1074.387	1074.387	1052.035	1008.301	971.856	959.222
<b>15</b>	1018.020	1070.986	1065.641	1064.183	1056.894	1006.843	932.010	841.142	817.331
<b>20</b>	945.130	1025.309	1020.935	1037.457	1020.935	947.560	822.676	670.095	613.727
<b>25</b>	855.234	968.455	965.539	991.294	963.596	881.960	688.074	507.795	430.046
<b>30</b>	752.217	884.875	892.650	926.665	898.481	788.661	550.071	351.326	300.304
<b>35</b>	641.911	778.943	810.528	852.318	818.303	655.517	394.088	246.852	220.125
<b>40</b>	495.647	630.735	726.949	769.710	722.089	548.613	280.867	186.596	163.272
<b>45</b>	349.868	443.652	614.699	668.151	617.615	440.737	207.491	138.975	119.538
<b>50</b>	234.703	280.867	468.921	557.360	511.196	329.945	151.610	102.045	84.066
<b>55</b>	161.328	193.885	315.853	452.399	409.637	237.619	102.045	76.777	78.234
<b>60</b>	107.876	136.546	186.596	346.953	321.684	155.983	67.544	72.889	70.460
<b>65</b>	80.178	92.326	108.362	254.140	240.049	90.869	61.713	63.171	57.825
<b>70</b>	57.825	76.777	71.431	168.131	155.497	51.508	55.882	46.649	43.248
<b>75</b>	34.987	53.452	53.452	88.439	84.066	36.931	39.360	29.156	25.268
<b>80</b>	15.064	32.557	29.642	39.360	40.332	23.810	17.979	11.176	7.289
<b>85</b>	2.916	15.550	11.176	15.550	7.289	5.831	3.887	2.430	0.972
<b>90</b>	1.458	1.458	0.000	1.458	1.458	1.458	0.972	0.972	0.972

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	379.22	N.A.	20.10
0-30	758.49	N.A.	40.30
0-40	1148.92	N.A.	61.00
0-60	1690.03	N.A.	89.80
0-80	1870.49	N.A.	99.40
0-90	1882.14	N.A.	100.00
10-90	1781.31	N.A.	94.60
20-40	769.70	N.A.	40.90
20-50	1094.41	N.A.	58.10
40-70	665.15	N.A.	35.30
60-80	180.47	N.A.	9.60
70-80	56.43	N.A.	3.00
80-90	11.65	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	1882.14	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	100.83
10-20	278.38
20-30	379.28
30-40	390.42
40-50	324.71
50-60	216.40
60-70	124.04
70-80	56.43
80-90	11.65
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	111	107	104	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88
2	103	96	90	85	100	94	89	84	91	86	82	87	84	81	85	82	79	77
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	69	68
4	88	78	70	64	86	77	70	64	74	68	63	72	67	62	70	65	62	60
5	82	71	63	57	80	70	62	57	68	61	56	66	60	56	64	59	55	53
6	76	65	57	51	75	64	56	51	62	55	50	60	54	50	59	54	50	48
7	71	59	51	46	70	58	51	46	57	50	45	56	50	45	54	49	45	43
8	67	55	47	42	65	54	47	42	53	46	41	52	46	41	50	45	41	39
9	63	51	43	38	61	50	43	38	49	42	38	48	42	38	47	42	37	36
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	38	35	33

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**UGR TABLE - CORRECTED**

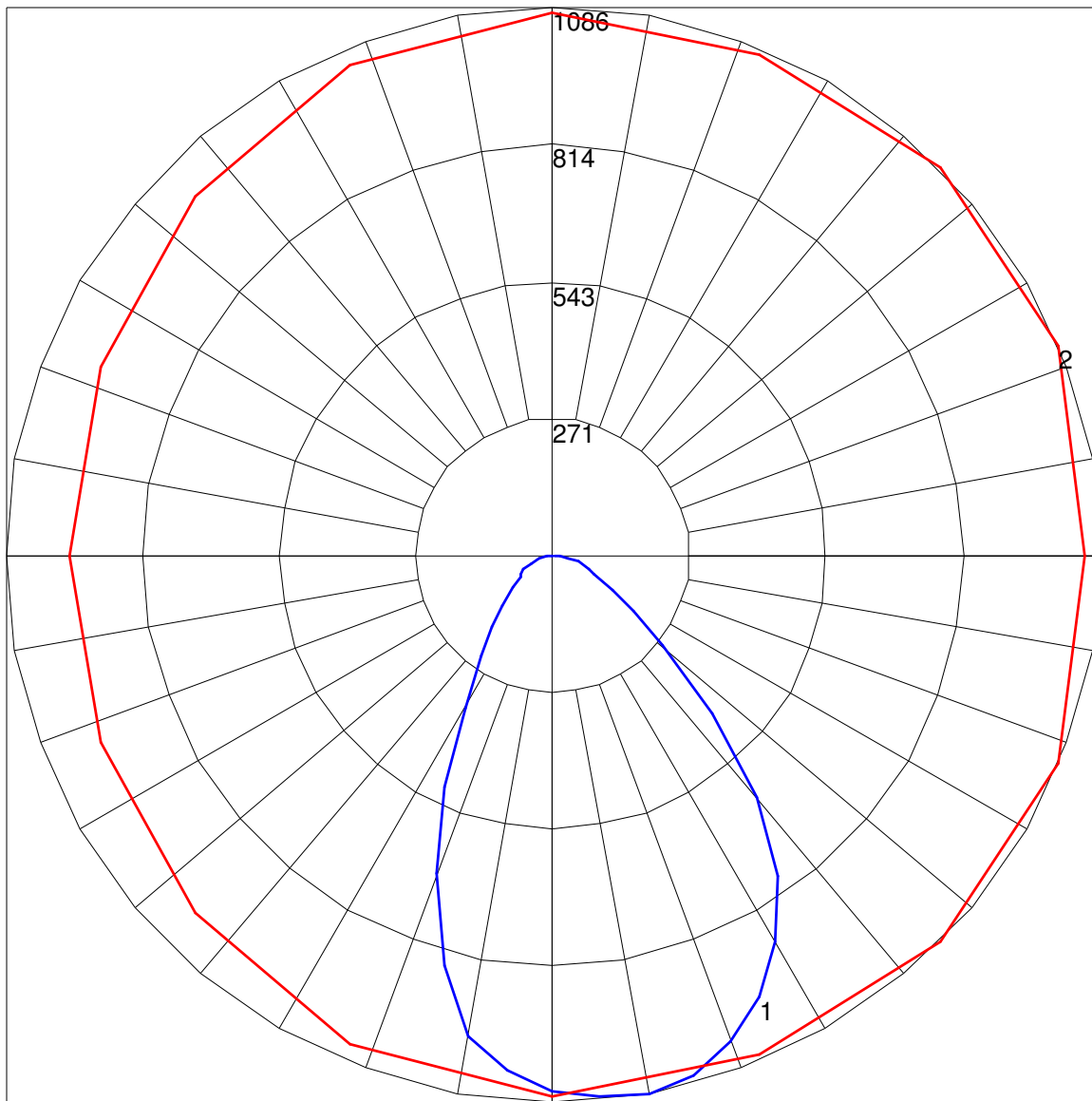
Reflectances

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	13.5	14.9	13.9	15.3	15.6	18.4	19.8	18.8	20.1	20.5
	3H	14.6	15.8	15.0	16.2	16.5	19.6	20.9	20.0	21.2	21.6
	4H	14.9	16.1	15.3	16.5	16.9	19.9	21.1	20.3	21.4	21.8
	6H	15.1	16.2	15.5	16.6	17.0	20.1	21.2	20.5	21.5	21.9
	8H	15.1	16.2	15.6	16.6	17.0	20.1	21.1	20.5	21.5	21.9
	12H	15.1	16.1	15.5	16.5	16.9	20.1	21.1	20.5	21.4	21.9
4H	2H	14.1	15.2	14.5	15.6	16.0	18.3	19.5	18.7	19.9	20.2
	3H	15.4	16.3	15.8	16.7	17.2	19.7	20.7	20.1	21.1	21.5
	4H	15.9	16.8	16.3	17.2	17.6	20.1	21.0	20.5	21.4	21.8
	6H	16.2	17.0	16.7	17.4	17.9	20.3	21.1	20.8	21.5	22.0
	8H	16.3	17.0	16.8	17.5	17.9	20.4	21.1	20.8	21.5	22.0
	12H	16.3	16.9	16.8	17.4	17.9	20.4	21.0	20.9	21.5	22.0
8H	4H	16.3	17.0	16.8	17.5	17.9	20.1	20.8	20.5	21.2	21.7
	6H	16.8	17.4	17.3	17.9	18.3	20.4	20.9	20.9	21.4	21.9
	8H	16.9	17.5	17.5	18.0	18.5	20.4	20.9	21.0	21.5	21.9
	12H	17.0	17.5	17.6	18.0	18.5	20.5	20.9	21.0	21.4	22.0
12H	4H	16.4	17.0	16.9	17.5	17.9	20.0	20.7	20.5	21.1	21.6
	6H	16.9	17.4	17.4	17.8	18.4	20.3	20.8	20.9	21.3	21.9
	8H	17.1	17.5	17.6	18.0	18.6	20.4	20.9	20.9	21.4	21.9

Maximum UGR = 22.0

POLAR GRAPH



Maximum Candela = 1085.564 Located At Horizontal Angle = 22.5, Vertical Angle = 10  
# 1 - Vertical Plane Through Horizontal Angles (22.5 - 202.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (10) (Through Max. Cd.)