

IES INDOOR REPORT

PHOTOMETRIC FILENAME : PXX-44-6-00-L4-935-W-XXXX-XXXX-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]GEN from BALLABS TEST NO. 20130.0
[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
[ISSUE DATE] 2/21/2025
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
[LUMINAIRE] 22"ARRAYS RECESSED PERIMETER CONTINUOUS PX
[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC LENS
[LUMCAT] PXX-44-6-00-L4-935-W-xxxx-xxxx-DIM-UNV

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1843
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	77
Total Luminaire Watts	24
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.96
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	0.94
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.33 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	2307	3324	8977
55	2011	2414	7484
65	1563	2064	5819
75	1161	1428	3865
85	283	170	1131

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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	1243.220	1243.220	1243.220	1243.220	1243.220	1243.220	1243.220	1243.220	1243.220
5	1246.034	1276.988	1273.049	1264.044	1265.169	1268.546	1252.225	1234.216	1229.150
10	1253.913	1283.742	1283.742	1269.109	1256.727	1253.351	1215.643	1113.777	1102.521
15	1228.025	1261.793	1267.983	1261.793	1232.527	1217.894	1077.195	827.313	754.712
20	1116.028	1162.740	1218.457	1229.713	1182.438	1140.791	747.395	495.825	427.726
25	865.020	907.793	1127.284	1177.936	1119.405	1027.669	489.071	343.307	305.599
30	477.815	571.803	944.375	1108.712	1045.678	858.267	359.065	261.701	230.747
35	292.092	353.437	671.981	1019.227	944.375	652.845	280.273	200.919	198.105
40	203.170	243.129	421.536	910.607	832.378	464.308	213.863	196.416	203.170
45	186.286	193.602	268.455	754.149	724.884	325.297	178.407	200.356	199.230
50	156.458	171.653	180.095	559.984	608.947	234.687	176.719	191.914	180.095
55	131.695	137.885	158.146	357.939	490.197	174.467	165.463	163.774	155.332
60	102.992	105.243	127.192	203.170	381.014	124.941	141.825	128.881	127.192
65	75.415	78.229	99.615	122.690	280.836	115.936	116.499	99.615	95.113
70	51.777	52.903	68.661	93.424	187.412	99.615	83.857	71.475	62.471
75	34.331	33.768	42.210	57.968	114.248	70.913	54.029	44.461	38.833
80	15.758	15.758	20.261	28.703	56.280	36.582	28.140	21.949	16.884
85	2.814	1.126	1.688	8.442	11.256	9.568	7.879	6.754	2.814
90	0.000	0.000	0.000	0.563	1.126	0.563	0.000	0.000	0.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : PXX-44-6-00-L4-935-W-XXXX-XXXX-DIM-UNV_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	435.87	N.A.	23.70
0-30	823.22	N.A.	44.70
0-40	1168.73	N.A.	63.40
0-60	1645.76	N.A.	89.30
0-80	1831.53	N.A.	99.40
0-90	1842.59	N.A.	100.00
10-90	1723.58	N.A.	93.50
20-40	732.86	N.A.	39.80
20-50	1008.79	N.A.	54.70
40-70	601.94	N.A.	32.70
60-80	185.77	N.A.	10.10
70-80	60.87	N.A.	3.30
80-90	11.06	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	1842.59	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	119.02
10-20	316.85
20-30	387.36
30-40	345.50
40-50	275.93
50-60	201.10
60-70	124.91
70-80	60.87
80-90	11.06
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	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88
2	103	96	91	86	100	94	89	85	91	87	83	88	84	81	85	82	79	78
3	96	87	80	75	93	85	79	74	82	77	73	80	75	72	77	74	70	68
4	89	79	71	66	87	77	71	65	75	69	64	73	68	64	71	66	63	61
5	83	72	64	59	81	71	64	58	69	63	58	67	61	57	65	60	57	55
6	77	66	58	53	76	65	58	52	63	57	52	62	56	52	60	55	51	49
7	73	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45
8	68	56	49	44	67	56	49	44	54	48	43	53	47	43	52	47	43	41
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	38
10	61	49	42	37	60	48	42	37	48	41	37	47	41	37	46	41	37	35

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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

X=2H	Y=2H	11.6	13.0	11.9	13.3	13.6	16.9	18.3	17.2	18.6	18.9
	3H	12.8	14.0	13.1	14.3	14.7	18.6	19.9	19.0	20.2	20.6
	4H	13.2	14.3	13.6	14.7	15.1	19.3	20.4	19.7	20.8	21.1
	6H	13.4	14.4	13.8	14.8	15.2	19.6	20.7	20.0	21.1	21.5
	8H	13.4	14.4	13.8	14.8	15.2	19.7	20.7	20.1	21.1	21.5
	12H	13.4	14.4	13.8	14.7	15.2	19.7	20.7	20.1	21.1	21.5

UGR Viewed Endwise

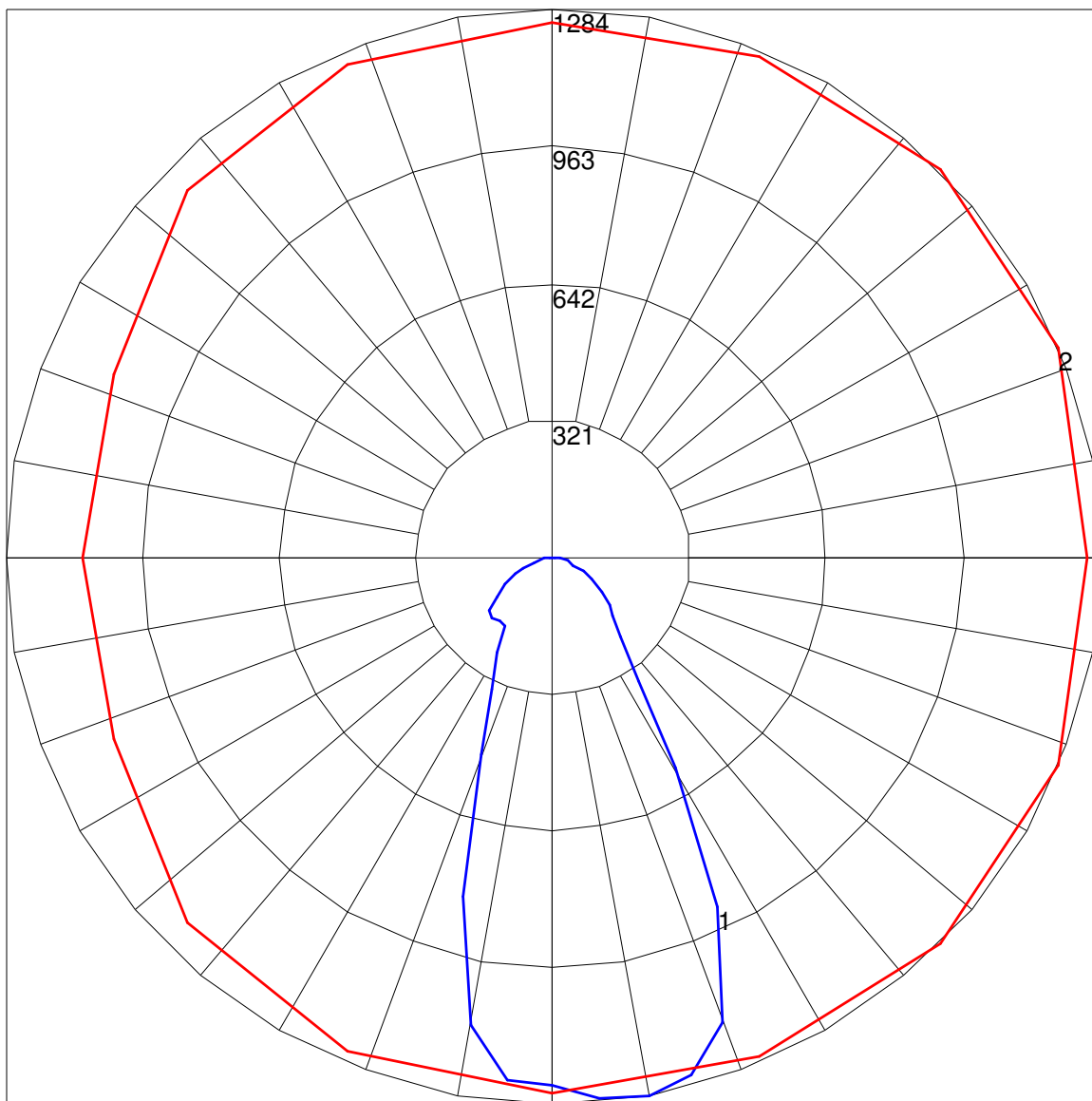
4H	2H	12.4	13.5	12.8	13.9	14.3	16.9	18.1	17.3	18.5	18.8
	3H	13.7	14.7	14.1	15.1	15.5	18.8	19.8	19.2	20.2	20.6
	4H	14.2	15.0	14.6	15.4	15.9	19.5	20.4	19.9	20.8	21.2
	6H	14.4	15.2	14.9	15.6	16.1	20.0	20.7	20.4	21.2	21.6
	8H	14.4	15.1	14.9	15.6	16.0	20.1	20.8	20.5	21.2	21.7
	12H	14.4	15.0	14.9	15.5	16.0	20.1	20.7	20.6	21.2	21.7

8H	4H	14.5	15.2	14.9	15.6	16.1	19.5	20.2	19.9	20.6	21.1
	6H	14.8	15.3	15.3	15.8	16.3	20.0	20.6	20.5	21.1	21.5
	8H	14.8	15.3	15.3	15.8	16.3	20.1	20.6	20.7	21.2	21.6
	12H	14.8	15.3	15.3	15.8	16.3	20.2	20.6	20.7	21.1	21.7

12H	4H	14.5	15.1	15.0	15.6	16.1	19.4	20.1	19.9	20.5	21.0
	6H	14.8	15.3	15.3	15.8	16.3	20.0	20.5	20.5	20.9	21.5
	8H	14.9	15.3	15.4	15.8	16.4	20.1	20.6	20.6	21.1	21.6

Maximum UGR = 21.7

POLAR GRAPH



Maximum Candela = 1283.742 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.)