

IES INDOOR REPORT

PHOTOMETRIC FILENAME : PXX-42-7-04-L4-940-S-XXXX-XXXX-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]GEN FROM BALLABS TEST NO. 20584.0
[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
[ISSUE DATE] 03-13-2026
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
[LUMINAIRE] 2-56 LED 22"ARRAYS 7'4" PERIMETER LUMINAIRE
[MORE] WHITE ASYM REFLECTOR w/OPEN BOTTOM
[LUMCAT] PXX-42-7-04-L4-940-S-xxxx-xxxx-DIM-UNV

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2460
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	84
Total Luminaire Watts	29.3
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.34
Spacing Criterion (Diagonal)	1.24
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.33 ft
Luminous Width (90-270)	7.33 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3301	4225	5010
55	2659	3304	5011
65	2069	2542	4852
75	1257	1649	4336
85	0	274	1199

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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	1095.854	1095.854	1095.854	1095.854	1095.854	1095.854	1095.854	1095.854	1095.854
5	1066.712	1075.523	1087.044	1103.309	1120.929	1110.086	1107.375	1059.935	1089.077
10	1044.348	1052.481	1067.390	1091.788	1114.830	1101.953	1093.821	1045.703	1072.134
15	1012.496	1022.661	1040.960	1064.679	1095.176	1080.267	1068.746	1017.240	1036.893
20	978.610	988.776	1004.363	1033.505	1066.712	1049.770	1029.438	965.734	969.800
25	941.336	951.502	964.379	994.875	1031.472	1011.140	973.189	868.144	847.813
30	899.996	905.418	914.228	945.403	985.387	961.668	888.475	698.039	625.525
35	775.976	828.837	863.400	886.442	933.882	902.707	735.991	477.784	400.525
40	641.790	679.741	803.084	827.482	874.921	826.126	544.200	277.183	410.691
45	529.968	565.886	678.386	759.711	804.439	735.313	346.309	180.948	172.138
50	430.345	457.453	544.200	678.386	735.313	616.714	317.845	149.773	147.740
55	346.309	363.252	430.345	598.416	652.633	458.808	143.674	127.409	131.475
60	266.339	285.993	330.722	484.561	565.886	279.893	116.566	119.954	127.409
65	198.568	210.089	243.975	344.276	465.585	157.228	100.978	112.500	118.599
70	128.765	136.897	169.427	223.644	364.607	85.391	90.813	96.235	97.590
75	73.870	79.292	96.912	135.542	254.818	61.671	71.837	72.515	71.159
80	29.141	35.241	43.373	63.705	130.798	46.762	45.406	44.051	42.018
85	0.000	1.355	5.422	12.876	23.720	16.943	16.265	14.232	15.587
90	0.000	0.000	0.000	0.000	0.000	0.000	0.678	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	400.44	N.A.	16.30
0-30	840.94	N.A.	34.20
0-40	1326.79	N.A.	53.90
0-60	2101.28	N.A.	85.40
0-80	2437.97	N.A.	99.10
0-90	2459.83	N.A.	100.00
10-90	2356.00	N.A.	95.80
20-40	926.35	N.A.	37.70
20-50	1360.12	N.A.	55.30
40-70	998.60	N.A.	40.60
60-80	336.69	N.A.	13.70
70-80	112.59	N.A.	4.60
80-90	21.86	N.A.	0.90
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	2459.83	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	103.83
10-20	296.61
20-30	440.50
30-40	485.85
40-50	433.77
50-60	340.72
60-70	224.10
70-80	112.59
80-90	21.86
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	110	106	102	99	107	104	100	97	99	97	94	95	93	91	92	90	88	86
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	74	69	66	64
4	86	75	66	60	83	73	66	60	71	64	59	69	63	58	66	62	57	55
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	73	61	53	46	72	60	52	46	58	51	46	57	50	46	55	49	45	43
7	68	56	47	41	67	55	47	41	53	46	41	52	46	41	51	45	41	39
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29

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UGR TABLE - CORRECTED

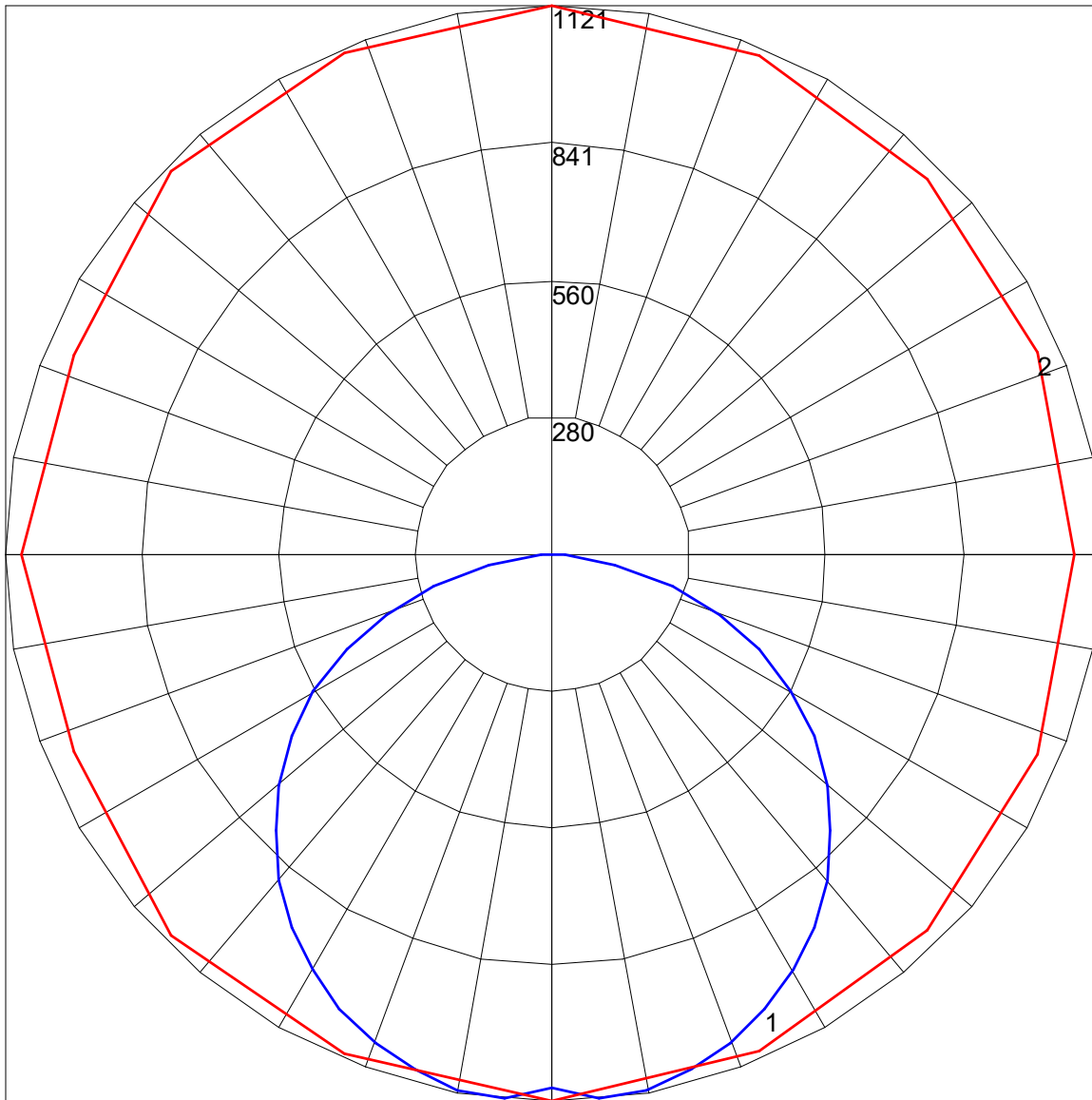
Reflectances

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	14.8	16.3	15.2	16.6	17.0	17.7	19.2	18.1	19.5	19.9
	3H	16.0	17.3	16.3	17.6	18.0	19.4	20.8	19.8	21.1	21.5
	4H	16.3	17.5	16.7	17.9	18.3	20.1	21.4	20.5	21.8	22.1
	6H	16.4	17.6	16.8	17.9	18.3	20.7	21.8	21.1	22.2	22.6
	8H	16.4	17.5	16.8	17.9	18.3	20.8	21.9	21.2	22.3	22.7
	12H	16.3	17.4	16.8	17.8	18.2	20.8	21.9	21.2	22.3	22.7
4H	2H	15.5	16.8	15.9	17.1	17.5	17.8	19.0	18.2	19.4	19.8
	3H	16.8	17.9	17.2	18.3	18.7	19.6	20.6	20.0	21.0	21.4
	4H	17.1	18.1	17.6	18.5	19.0	20.3	21.3	20.7	21.7	22.1
	6H	17.3	18.2	17.8	18.6	19.1	20.9	21.8	21.4	22.2	22.7
	8H	17.3	18.1	17.8	18.5	19.0	21.1	21.9	21.6	22.3	22.8
	12H	17.3	18.0	17.8	18.5	18.9	21.2	21.8	21.6	22.3	22.8
8H	4H	17.4	18.2	17.9	18.6	19.1	20.3	21.1	20.8	21.5	22.0
	6H	17.6	18.3	18.1	18.8	19.2	20.9	21.6	21.4	22.1	22.6
	8H	17.6	18.2	18.2	18.7	19.2	21.1	21.7	21.6	22.2	22.7
	12H	17.6	18.1	18.1	18.6	19.2	21.2	21.7	21.7	22.2	22.8
12H	4H	17.4	18.1	17.9	18.6	19.1	20.3	21.0	20.8	21.5	21.9
	6H	17.7	18.2	18.2	18.7	19.2	20.9	21.5	21.4	22.0	22.5
	8H	17.7	18.2	18.2	18.7	19.2	21.1	21.6	21.6	22.1	22.7

Maximum UGR = 22.8

POLAR GRAPH



Maximum Candela = 1120.929 Located At Horizontal Angle = 90, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)