

IES INDOOR REPORT

PHOTOMETRIC FILENAME : PXX-42-4-00-L4-830-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] 07-16-2025
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
[LUMINAIRE] 2-56 LED 22"ARRAYS 3'8" PERIMETER LUMINAIRE
[MORE] WHITE ASYM REFLECTOR w/OPEN BOTTOM
[MORE] ADVANCE #XI040C110V054BST1 @ 800mA
[LUMCAT] PXX-42-4-00-L4-830-S-xxxx-xxxx-DIM-UNV
[LAMPCAT] HLM2256-5630 REV B 10560227

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1544
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	97
Total Luminaire Watts	16
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)	4.00 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3798	4862	5765
55	3060	3802	5766
65	2381	2926	5583
75	1446	1898	4989
85	0	315	1379

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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	687.872	687.872	687.872	687.872	687.872	687.872	687.872	687.872	687.872
5	669.580	675.110	682.342	692.551	703.612	696.805	695.104	665.326	683.618
10	655.541	660.646	670.005	685.319	699.783	691.700	686.596	656.392	672.983
15	635.548	641.929	653.414	668.303	687.446	678.088	670.856	638.525	650.862
20	614.278	620.659	630.443	648.735	669.580	658.945	646.183	606.195	608.747
25	590.881	597.262	605.344	624.487	647.459	634.697	610.874	544.937	532.175
30	564.931	568.334	573.865	593.433	618.532	603.643	557.699	438.162	392.644
35	487.083	520.264	541.960	556.423	586.201	566.633	461.984	299.907	251.411
40	402.854	426.676	504.099	519.413	549.191	518.563	341.596	173.989	257.792
45	332.663	355.209	425.825	476.873	504.950	461.559	217.379	113.582	108.052
50	270.129	287.145	341.596	425.825	461.559	387.114	199.513	94.013	92.737
55	217.379	228.014	270.129	375.628	409.660	287.996	90.185	79.975	82.528
60	167.182	179.519	207.595	304.161	355.209	175.690	73.169	75.296	79.975
65	124.642	131.874	153.144	216.103	292.250	98.693	63.385	70.616	74.445
70	80.826	85.931	106.350	140.382	228.865	53.600	57.004	60.407	61.258
75	46.369	49.772	60.832	85.080	159.950	38.711	45.092	45.518	44.667
80	18.292	22.121	27.226	39.988	82.102	29.353	28.502	27.651	26.375
85	0.000	0.851	3.403	8.083	14.889	10.635	10.210	8.933	9.784
90	0.000	0.000	0.000	0.000	0.000	0.000	0.425	0.000	0.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : PXX-42-4-00-L4-830-S-XXXX-XXXX-DIM-UNV_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fxt
0-20	251.36	N.A.	16.30
0-30	527.86	N.A.	34.20
0-40	832.83	N.A.	53.90
0-60	1318.98	N.A.	85.40
0-80	1530.33	N.A.	99.10
0-90	1544.05	N.A.	100.00
10-90	1478.87	N.A.	95.80
20-40	581.47	N.A.	37.70
20-50	853.75	N.A.	55.30
40-70	626.82	N.A.	40.60
60-80	211.34	N.A.	13.70
70-80	70.67	N.A.	4.60
80-90	13.72	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	1544.05	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	65.17
10-20	186.18
20-30	276.51
30-40	304.97
40-50	272.28
50-60	213.87
60-70	140.67
70-80	70.67
80-90	13.72
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	159	159	159	159	155	155	155	155	148	148	148	142	142	142	136	136	136	133
1	147	141	136	131	143	138	133	129	132	129	125	127	124	121	123	120	118	115
2	135	125	117	110	131	122	115	108	118	111	106	113	108	104	109	105	101	99
3	124	111	101	93	121	109	100	92	105	97	91	101	95	89	98	92	88	85
4	114	99	89	80	111	98	88	80	94	86	79	91	84	78	89	82	77	74
5	106	90	78	70	103	88	78	70	85	76	69	83	75	68	80	73	68	65
6	98	81	70	62	95	80	69	62	78	68	61	75	67	61	73	66	60	58
7	91	74	63	55	89	73	63	55	71	62	55	69	61	54	67	60	54	51
8	85	68	57	50	83	67	57	50	65	56	49	64	55	49	62	55	49	46
9	80	63	52	45	78	62	52	45	60	51	45	59	51	45	58	50	44	42
10	75	58	48	41	73	57	48	41	56	47	41	55	47	41	54	46	41	38

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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	15.3	16.8	15.7	17.2	17.5	18.2	19.7	18.6	20.1	20.4
	3H	16.5	17.8	16.8	18.2	18.5	19.9	21.3	20.3	21.6	22.0
	4H	16.8	18.0	17.2	18.4	18.8	20.6	21.9	21.0	22.3	22.7
	6H	16.9	18.1	17.3	18.4	18.8	21.2	22.3	21.6	22.7	23.1
	8H	16.9	18.0	17.3	18.4	18.8	21.3	22.4	21.7	22.8	23.2
	12H	16.8	17.9	17.3	18.3	18.7	21.3	22.4	21.7	22.8	23.2

UGR Viewed Endwise

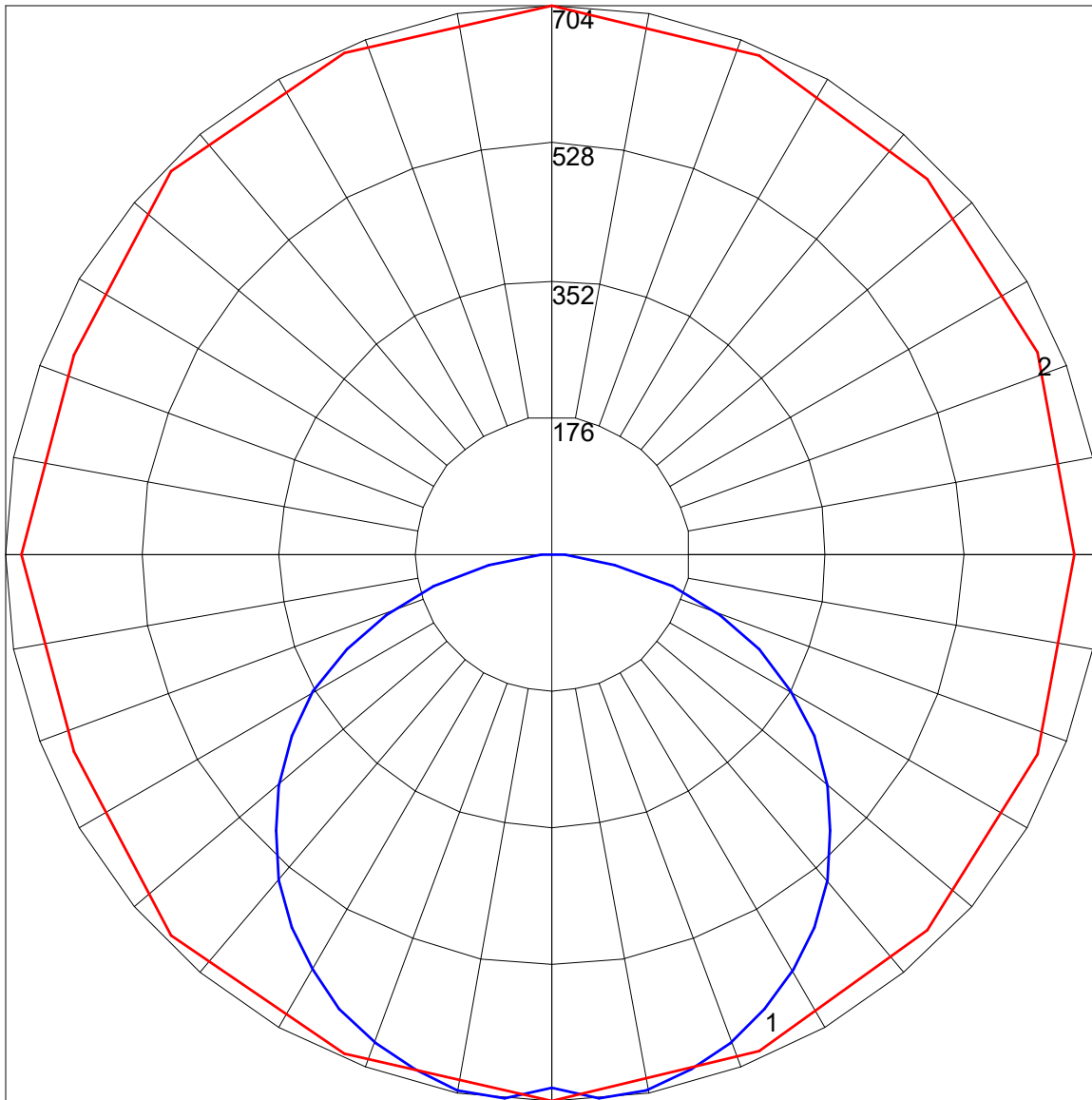
4H	2H	16.0	17.3	16.4	17.6	18.0	18.3	19.5	18.7	19.9	20.3
	3H	17.3	18.4	17.7	18.8	19.2	20.1	21.1	20.5	21.5	21.9
	4H	17.7	18.6	18.1	19.0	19.5	20.8	21.8	21.3	22.2	22.6
	6H	17.8	18.7	18.3	19.1	19.6	21.4	22.3	21.9	22.7	23.2
	8H	17.8	18.6	18.3	19.1	19.5	21.6	22.4	22.1	22.8	23.3
	12H	17.8	18.5	18.3	19.0	19.5	21.7	22.3	22.1	22.8	23.3

8H	4H	17.9	18.7	18.4	19.1	19.6	20.8	21.6	21.3	22.0	22.5
	6H	18.1	18.8	18.6	19.3	19.7	21.5	22.1	22.0	22.6	23.1
	8H	18.1	18.7	18.7	19.2	19.7	21.6	22.2	22.1	22.7	23.2
	12H	18.1	18.6	18.6	19.1	19.7	21.7	22.2	22.2	22.7	23.3

12H	4H	18.0	18.6	18.4	19.1	19.6	20.8	21.5	21.3	22.0	22.4
	6H	18.2	18.7	18.7	19.2	19.7	21.4	22.0	22.0	22.5	23.0
	8H	18.2	18.7	18.7	19.2	19.8	21.6	22.1	22.1	22.6	23.2

Maximum UGR = 23.3

POLAR GRAPH



Maximum Candela = 703.612 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.)