

IES INDOOR REPORT

PHOTOMETRIC FILENAME : PXX-42-3-00-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-42-3-00-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	1158
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	97
Total Luminaire Watts	12
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)	3.00 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3799	4863	5766
55	3060	3803	5767
65	2381	2926	5584
75	1447	1898	4990
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	515.985	515.985	515.985	515.985	515.985	515.985	515.985	515.985	515.985
5	502.263	506.412	511.836	519.495	527.791	522.686	521.409	499.072	512.794
10	491.733	495.562	502.582	514.070	524.919	518.857	515.027	492.371	504.816
15	476.735	481.522	490.138	501.306	515.666	508.645	503.221	478.969	488.223
20	460.780	465.567	472.906	486.627	502.263	494.286	484.713	454.717	456.632
25	443.230	448.016	454.079	468.439	485.670	476.097	458.228	408.767	399.194
30	423.765	426.318	430.466	445.144	463.971	452.803	418.340	328.673	294.529
35	365.369	390.259	406.533	417.383	439.720	425.041	346.543	224.965	188.588
40	302.188	320.057	378.133	389.621	411.958	388.983	256.237	130.512	193.375
45	249.536	266.448	319.419	357.711	378.772	346.223	163.060	85.200	81.051
50	202.628	215.392	256.237	319.419	346.223	290.381	149.658	70.521	69.564
55	163.060	171.038	202.628	281.765	307.293	216.031	67.649	59.991	61.905
60	125.406	134.660	155.721	228.156	266.448	131.788	54.885	56.481	59.991
65	93.496	98.921	114.876	162.103	219.222	74.031	47.546	52.971	55.842
70	60.629	64.458	79.775	105.303	171.676	40.207	42.759	45.312	45.950
75	34.782	37.335	45.631	63.820	119.982	29.038	33.825	34.144	33.505
80	13.721	16.593	20.422	29.995	61.586	22.018	21.380	20.741	19.784
85	0.000	0.638	2.553	6.063	11.168	7.977	7.658	6.701	7.339
90	0.000	0.000	0.000	0.000	0.000	0.000	0.319	0.000	0.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : PXX-42-3-00-L4-830-S-XXXX-XXXX-DIM-UNV_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fxt
0-20	188.55	N.A.	16.30
0-30	395.96	N.A.	34.20
0-40	624.72	N.A.	53.90
0-60	989.39	N.A.	85.40
0-80	1147.92	N.A.	99.10
0-90	1158.22	N.A.	100.00
10-90	1109.33	N.A.	95.80
20-40	436.17	N.A.	37.70
20-50	640.41	N.A.	55.30
40-70	470.19	N.A.	40.60
60-80	158.53	N.A.	13.70
70-80	53.01	N.A.	4.60
80-90	10.29	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	1158.22	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	48.89
10-20	139.66
20-30	207.41
30-40	228.76
40-50	204.24
50-60	160.43
60-70	105.52
70-80	53.01
80-90	10.29
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 RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	72	72	72	72	70	70	70	70	67	67	67	64	64	64	62	62	62	60
1	66	64	62	59	65	62	60	59	60	58	57	58	56	55	55	54	53	52
2	61	56	53	50	59	55	52	49	53	50	48	51	49	47	50	48	46	45
3	56	50	46	42	55	49	45	42	48	44	41	46	43	40	44	42	40	38
4	52	45	40	36	50	44	40	36	43	39	36	41	38	35	40	37	35	33
5	48	41	35	32	47	40	35	32	39	34	31	37	34	31	36	33	31	29
6	44	37	32	28	43	36	31	28	35	31	28	34	30	27	33	30	27	26
7	41	34	29	25	40	33	28	25	32	28	25	31	27	25	31	27	24	23
8	38	31	26	23	38	30	26	22	30	25	22	29	25	22	28	25	22	21
9	36	28	24	20	35	28	23	20	27	23	20	27	23	20	26	23	20	19
10	34	26	22	19	33	26	22	19	25	21	19	25	21	18	24	21	18	17

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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

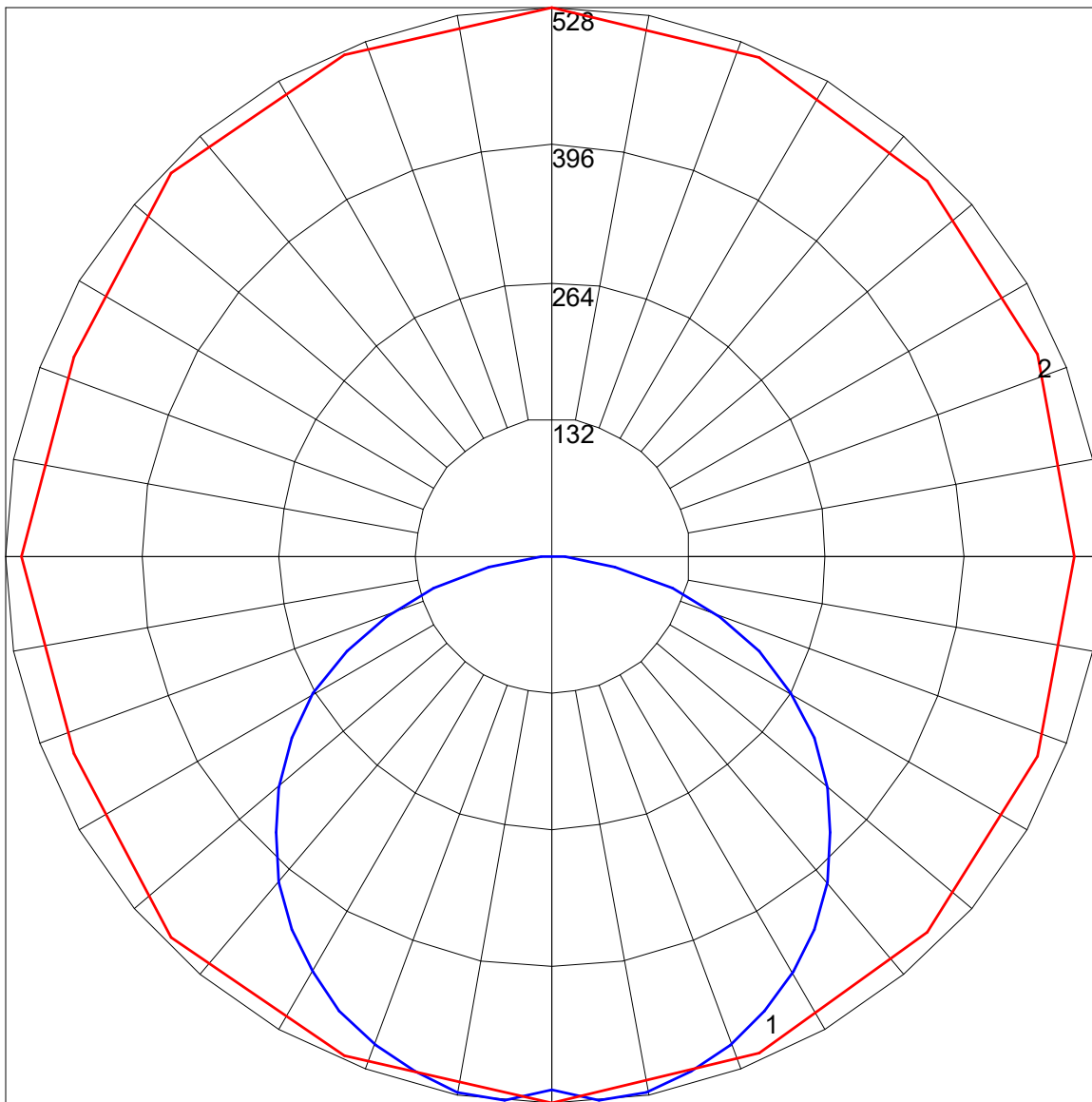
X=2H	Y=2H	17.4	18.9	17.8	19.3	19.6	20.3	21.8	20.7	22.2	22.5
	3H	18.6	19.9	18.9	20.3	20.6	22.0	23.4	22.4	23.7	24.1
	4H	18.9	20.1	19.3	20.5	20.9	22.7	24.0	23.1	24.4	24.8
	6H	19.0	20.2	19.4	20.5	20.9	23.3	24.4	23.7	24.8	25.2
	8H	19.0	20.1	19.4	20.5	20.9	23.4	24.5	23.8	24.9	25.3
	12H	18.9	20.0	19.4	20.4	20.8	23.4	24.5	23.8	24.9	25.3

UGR Viewed Endwise

4H	2H	18.1	19.4	18.5	19.7	20.1	20.4	21.6	20.8	22.0	22.4
	3H	19.4	20.5	19.8	20.9	21.3	22.2	23.2	22.6	23.6	24.0
	4H	19.8	20.7	20.2	21.1	21.6	22.9	23.9	23.4	24.3	24.7
	6H	19.9	20.8	20.4	21.2	21.7	23.5	24.4	24.0	24.8	25.3
	8H	19.9	20.7	20.4	21.2	21.6	23.7	24.5	24.2	24.9	25.4
	12H	19.9	20.6	20.4	21.1	21.6	23.8	24.4	24.2	24.9	25.4
8H	4H	20.0	20.8	20.5	21.2	21.7	22.9	23.7	23.4	24.1	24.6
	6H	20.2	20.9	20.7	21.4	21.8	23.6	24.2	24.1	24.7	25.2
	8H	20.2	20.8	20.8	21.3	21.8	23.7	24.3	24.3	24.8	25.3
	12H	20.2	20.7	20.7	21.2	21.8	23.8	24.3	24.3	24.8	25.4
12H	4H	20.1	20.7	20.5	21.2	21.7	22.9	23.6	23.4	24.1	24.5
	6H	20.3	20.8	20.8	21.3	21.8	23.5	24.1	24.1	24.6	25.1
	8H	20.3	20.8	20.8	21.3	21.9	23.7	24.2	24.2	24.7	25.3

Maximum UGR = 25.4

POLAR GRAPH



Maximum Candela = 527.791 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.)