

IES INDOOR REPORT

PHOTOMETRIC FILENAME : PXX-42-4-00-L5-940-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] 07-18-2025
[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-L5-940-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	1806
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	101
Total Luminaire Watts	17.8
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	4442	5686	6743
55	3578	4447	6744
65	2785	3422	6529
75	1692	2219	5835
85	0	369	1613

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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	804.490	804.490	804.490	804.490	804.490	804.490	804.490	804.490	804.490
5	783.096	789.564	798.022	809.963	822.898	814.938	812.948	778.121	799.515
10	766.678	772.649	783.594	801.505	818.420	808.968	802.997	767.673	787.077
15	743.295	750.758	764.191	781.604	803.992	793.047	784.589	746.778	761.206
20	718.419	725.882	737.325	758.718	783.096	770.658	755.733	708.966	711.951
25	691.055	698.518	707.971	730.359	757.225	742.300	714.439	637.323	622.398
30	660.707	664.687	671.154	694.040	723.394	705.981	652.249	512.446	459.211
35	569.660	608.467	633.840	650.756	685.583	662.697	540.307	350.752	294.034
40	471.151	499.013	589.561	607.472	642.298	606.477	399.509	203.486	301.497
45	389.061	415.429	498.018	557.720	590.556	539.809	254.233	132.838	126.370
50	315.925	335.826	399.509	498.018	539.809	452.743	233.337	109.952	108.459
55	254.233	266.671	315.925	439.310	479.112	336.821	105.474	93.534	96.519
60	195.525	209.953	242.790	355.727	415.429	205.476	85.573	88.061	93.534
65	145.773	154.231	179.107	252.740	341.796	115.425	74.130	82.588	87.066
70	94.529	100.499	124.380	164.182	267.666	62.688	66.668	70.648	71.643
75	54.230	58.210	71.145	99.504	187.068	45.274	52.737	53.235	52.240
80	21.393	25.871	31.841	46.767	96.021	34.329	33.334	32.339	30.846
85	0.000	0.995	3.980	9.453	17.413	12.438	11.940	10.448	11.443
90	0.000	0.000	0.000	0.000	0.000	0.000	0.498	0.000	0.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : PXX-42-4-00-L5-940-S-XXXX-XXXX-DIM-UNV_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	293.97	N.A.	16.30
0-30	617.35	N.A.	34.20
0-40	974.03	N.A.	53.90
0-60	1542.6	N.A.	85.40
0-80	1789.77	N.A.	99.10
0-90	1805.82	N.A.	100.00
10-90	1729.59	N.A.	95.80
20-40	680.05	N.A.	37.70
20-50	998.49	N.A.	55.30
40-70	733.09	N.A.	40.60
60-80	247.17	N.A.	13.70
70-80	82.65	N.A.	4.60
80-90	16.05	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	1805.82	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	76.22
10-20	217.75
20-30	323.38
30-40	356.67
40-50	318.44
50-60	250.13
60-70	164.52
70-80	82.65
80-90	16.05
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	139	139	139	139	136	136	136	136	130	130	130	124	124	124	119	119	119	117
1	129	124	119	115	126	121	117	113	116	113	110	112	109	107	108	105	103	101
2	118	109	102	96	115	107	101	95	103	98	93	99	95	91	96	92	89	86
3	109	97	89	82	106	96	87	81	92	85	80	89	83	78	86	81	77	74
4	100	87	78	70	98	86	77	70	83	75	69	80	73	68	78	72	67	65
5	93	79	69	62	90	77	68	61	75	67	61	73	65	60	71	64	59	57
6	86	71	61	54	84	70	61	54	68	60	54	66	59	53	64	58	53	51
7	80	65	55	49	78	64	55	48	62	54	48	61	53	48	59	52	47	45
8	75	60	50	44	73	59	50	44	57	49	43	56	48	43	55	48	43	41
9	70	55	46	40	68	54	46	40	53	45	39	52	44	39	51	44	39	37
10	66	51	42	36	64	50	42	36	49	41	36	48	41	36	47	40	36	34

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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	22.6
	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

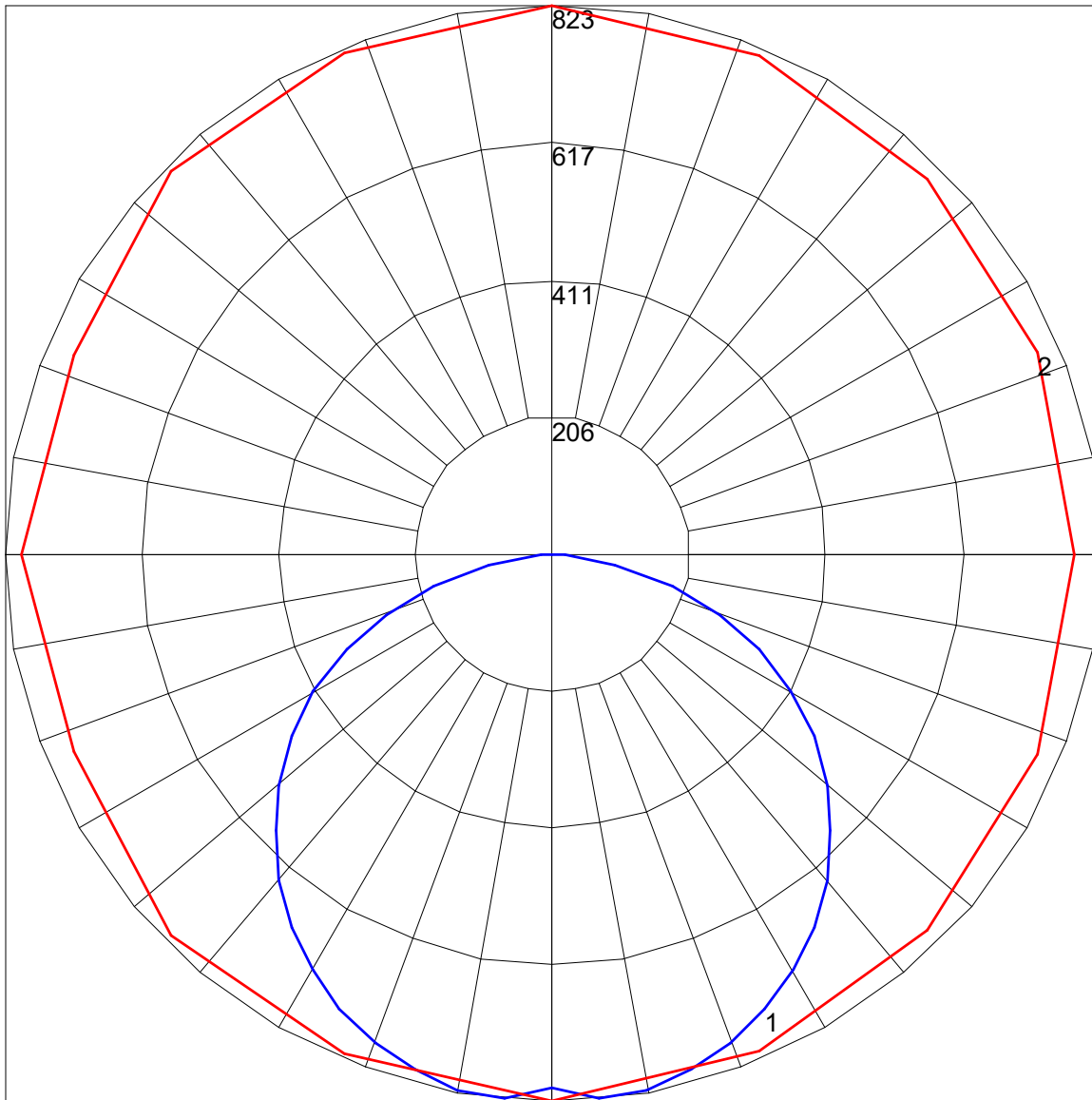
4H	2H	16.0	17.3	16.4	17.6	18.0	18.3	19.5	18.7	19.9	20.3
	3H	17.3	18.4	17.7	18.8	19.2	20.1	21.1	20.5	21.5	21.9
	4H	17.7	18.6	18.1	19.0	19.5	20.8	21.8	21.3	22.2	22.6
	6H	17.8	18.7	18.3	19.1	19.6	21.4	22.3	21.9	22.7	23.2
	8H	17.8	18.6	18.3	19.1	19.5	21.6	22.4	22.1	22.8	23.3
	12H	17.8	18.5	18.3	19.0	19.4	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	17.9	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 = 822.898 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.)