

IES INDOOR REPORT

PHOTOMETRIC FILENAME : PXX-64-3-08-L10-RGB835-W-XXXX-XXXX-DMX-UNV WHITE ONLY_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 20133.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 8 DEC 2023

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO

[LUMINAIRE] 3'08" RECESSED PERIMETER CONTINUOUS PX

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC LENS

[LUMCAT] PXX-64-3-08-L10-RGB835-W-xxxx-xxxx-DMX-UNV white only

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3649
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	103
Total Luminaire Watts	35.57
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.16
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.00
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.50 ft
Luminous Width (90-270)	3.71 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5596	10192	10620
55	3141	5537	8519
65	2563	3157	6503
75	1961	2269	4053
85	1636	1308	1178

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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	2235.342	2235.342	2235.342	2235.342	2235.342	2235.342	2235.342	2235.342	2235.342
5	2264.832	2300.220	2290.390	2261.883	2238.291	2256.968	2226.495	2195.039	2195.039
10	2284.492	2308.084	2302.186	2272.696	2218.631	2217.648	2167.515	2054.470	2071.181
15	2237.308	2261.883	2265.815	2245.172	2178.328	2142.940	1987.626	1666.185	1628.831
20	2103.620	2126.229	2168.498	2180.294	2102.637	2023.014	1555.106	936.799	786.400
25	1914.884	1950.272	2046.606	2081.994	2007.286	1847.057	968.255	535.735	473.806
30	1693.709	1738.927	1895.224	1956.170	1884.411	1628.831	575.055	347.982	304.730
35	1481.381	1541.344	1690.760	1795.941	1714.352	1272.985	380.421	207.413	203.481
40	1150.110	1297.560	1452.874	1607.205	1504.973	891.581	225.107	196.600	201.515
45	682.202	804.094	1242.512	1393.894	1294.611	565.225	180.872	196.600	201.515
50	443.333	467.908	951.544	1180.583	1073.436	339.135	176.940	196.600	201.515
55	310.628	302.764	547.531	982.017	842.431	190.702	173.008	194.634	197.583
60	256.563	253.614	318.492	776.570	640.916	131.722	165.144	186.770	176.940
65	186.770	192.668	230.022	577.021	473.806	121.892	154.331	160.229	148.433
70	127.790	128.773	160.229	289.002	310.628	108.130	128.773	122.875	115.994
75	87.487	81.589	101.249	123.858	180.872	92.402	92.402	79.623	79.623
80	54.065	43.252	56.031	57.014	80.606	56.031	55.048	43.252	47.184
85	24.575	13.762	19.660	13.762	17.694	16.711	20.643	9.830	13.762
90	1.966	0.983	0.983	3.932	3.932	1.966	3.932	0.000	0.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : PXX-64-3-08-L10-RGB835-W-XXXX-XXXX-DMX-UNV WHITE ONLY_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	790.02	N.A.	21.60
0-30	1520.44	N.A.	41.70
0-40	2258.01	N.A.	61.90
0-60	3256.11	N.A.	89.20
0-80	3624.91	N.A.	99.30
0-90	3649.43	N.A.	100.00
10-90	3436.09	N.A.	94.20
20-40	1467.99	N.A.	40.20
20-50	2064.85	N.A.	56.60
40-70	1252.1	N.A.	34.30
60-80	368.80	N.A.	10.10
70-80	114.80	N.A.	3.10
80-90	24.53	N.A.	0.70
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	3649.43	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	213.34
10-20	576.68
20-30	730.43
30-40	737.56
40-50	596.86
50-60	401.23
60-70	254.00
70-80	114.80
80-90	24.53
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	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77
3	95	86	79	74	93	85	78	73	82	77	72	79	75	71	77	73	70	68
4	88	78	71	65	86	77	70	64	74	68	64	72	67	63	70	66	62	60
5	82	71	63	58	80	70	63	57	68	62	57	66	61	56	64	59	56	54
6	77	65	57	52	75	64	57	51	62	56	51	61	55	51	59	54	50	48
7	72	60	52	47	70	59	52	46	58	51	46	56	50	46	55	50	46	44
8	67	55	48	42	66	55	47	42	53	47	42	52	46	42	51	46	42	40
9	63	51	44	39	62	51	44	39	50	43	39	49	43	38	48	42	38	37
10	60	48	41	36	59	47	40	36	46	40	36	45	40	35	45	39	35	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	13.6	15.0	14.0	15.3	15.7	19.3	20.7	19.7	21.0	21.3
	3H	14.9	16.2	15.3	16.5	16.9	20.4	21.7	20.8	22.0	22.4
	4H	15.4	16.6	15.8	16.9	17.3	20.8	21.9	21.2	22.3	22.7
	6H	15.7	16.8	16.2	17.2	17.6	20.9	22.0	21.3	22.4	22.8
	8H	15.8	16.9	16.3	17.3	17.7	20.9	22.0	21.4	22.4	22.8
	12H	15.9	16.9	16.3	17.3	17.7	20.9	21.9	21.4	22.3	22.7

UGR Viewed Endwise

4H	2H	14.4	15.6	14.8	15.9	16.3	19.2	20.4	19.6	20.8	21.1
	3H	15.9	16.8	16.3	17.2	17.7	20.5	21.5	21.0	21.9	22.3
	4H	16.4	17.2	16.8	17.7	18.1	20.9	21.8	21.3	22.2	22.6
	6H	16.8	17.5	17.2	18.0	18.4	21.1	21.9	21.6	22.3	22.8
	8H	16.9	17.6	17.4	18.0	18.5	21.2	21.9	21.6	22.3	22.8
	12H	17.0	17.6	17.5	18.1	18.6	21.2	21.8	21.7	22.3	22.8

8H	4H	16.7	17.4	17.2	17.9	18.4	20.9	21.6	21.3	22.0	22.5
	6H	17.2	17.8	17.7	18.3	18.7	21.2	21.7	21.7	22.2	22.7
	8H	17.4	17.9	17.9	18.4	18.9	21.2	21.7	21.7	22.2	22.7
	12H	17.5	17.9	18.0	18.4	19.0	21.2	21.7	21.8	22.2	22.8

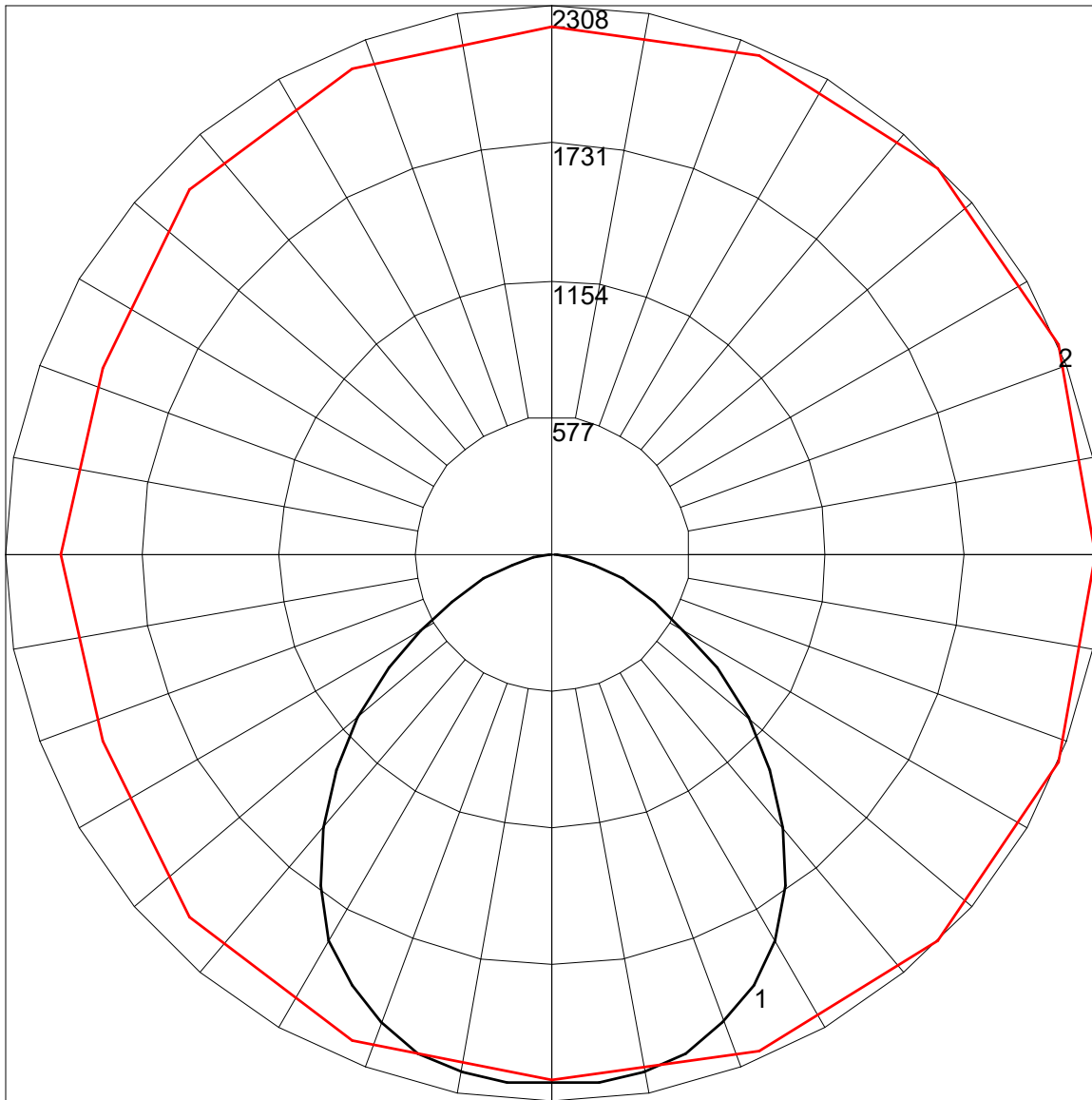
12H	4H	16.8	17.4	17.2	17.9	18.3	20.9	21.5	21.3	22.0	22.4
	6H	17.2	17.7	17.7	18.2	18.8	21.1	21.6	21.6	22.1	22.7
	8H	17.4	17.9	17.9	18.4	18.9	21.2	21.7	21.7	22.2	22.7

Maximum UGR = 22.8

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POLAR GRAPH



Maximum Candela = 2308.084 Located At Horizontal Angle = 22.5, Vertical Angle = 10

1 - Vertical Plane Through Horizontal Angles (90 - 270)

2 - Horizontal Cone Through Vertical Angle (10) (Through Max. Cd.)