

IES INDOOR REPORT

PHOTOMETRIC FILENAME : PXX-44-3-08-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. 20130.0

[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-44-3-08-L10-RGB835-W-xxxx-xxxx-DMX-UNV white only

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3304
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	93
Total Luminaire Watts	35.57
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.96
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	0.94
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.33 ft
Luminous Width (90-270)	3.69 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4137	5961	16097
55	3605	4329	13419
65	2802	3701	10434
75	2083	2561	6931
85	507	304	2028

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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	2229.323	2229.323	2229.323	2229.323	2229.323	2229.323	2229.323	2229.323	2229.323
5	2234.369	2289.875	2282.810	2266.663	2268.682	2274.737	2245.470	2213.176	2204.093
10	2248.498	2301.985	2301.985	2275.746	2253.544	2247.488	2179.872	1997.207	1977.023
15	2202.074	2262.626	2273.728	2262.626	2210.148	2183.909	1931.609	1483.524	1353.337
20	2001.244	2085.007	2184.918	2205.102	2120.329	2045.648	1340.218	889.105	766.992
25	1551.140	1627.840	2021.428	2112.256	2007.299	1842.799	876.995	615.612	547.996
30	856.811	1025.347	1693.438	1988.124	1875.094	1539.030	643.870	469.278	413.772
35	523.775	633.778	1204.985	1827.661	1693.438	1170.672	502.582	360.284	355.238
40	364.321	435.974	755.891	1632.886	1492.607	832.590	383.496	352.211	364.321
45	334.045	347.165	481.388	1352.328	1299.850	583.318	319.916	359.275	357.257
50	280.558	307.806	322.944	1004.154	1091.954	420.836	316.889	344.137	322.944
55	236.153	247.254	283.585	641.851	879.013	312.852	296.705	293.677	278.539
60	184.684	188.720	228.079	364.321	683.228	224.042	254.318	231.107	228.079
65	135.233	140.279	178.628	220.006	503.591	207.895	208.904	178.628	170.555
70	92.846	94.865	123.122	167.527	336.064	178.628	150.371	128.168	112.021
75	61.561	60.552	75.690	103.948	204.868	127.159	96.883	79.727	69.635
80	28.258	28.258	36.331	51.469	100.920	65.598	50.460	39.359	30.276
85	5.046	2.018	3.028	15.138	20.184	17.156	14.129	12.110	5.046
90	0.000	0.000	0.000	1.009	2.018	1.009	0.000	0.000	0.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : PXX-44-3-08-L10-RGB835-W-XXXX-XXXX-DMX-UNV WHITE ONLY_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	781.59	N.A.	23.70
0-30	1476.19	N.A.	44.70
0-40	2095.74	N.A.	63.40
0-60	2951.15	N.A.	89.30
0-80	3284.27	N.A.	99.40
0-90	3304.11	N.A.	100.00
10-90	3090.69	N.A.	93.50
20-40	1314.15	N.A.	39.80
20-50	1808.95	N.A.	54.70
40-70	1079.39	N.A.	32.70
60-80	333.12	N.A.	10.10
70-80	109.14	N.A.	3.30
80-90	19.84	N.A.	0.60
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	3304.11	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	213.42
10-20	568.17
20-30	694.60
30-40	619.55
40-50	494.79
50-60	360.61
60-70	223.98
70-80	109.14
80-90	19.84
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	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88
2	103	96	91	86	101	94	89	85	91	87	83	88	84	81	85	82	79	78
3	96	87	80	75	93	85	79	74	82	77	73	80	75	72	77	74	70	68
4	89	79	71	66	87	78	71	65	75	69	64	73	68	64	71	66	63	61
5	83	72	64	59	81	71	64	58	69	63	58	67	61	57	65	60	57	55
6	77	66	58	53	76	65	58	52	63	57	52	62	56	52	60	55	51	49
7	73	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45
8	68	56	49	44	67	56	49	44	54	48	43	53	47	43	52	47	43	41
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	38
10	61	49	42	37	60	48	42	37	48	41	37	47	41	37	46	41	37	35

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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	13.7	15.1	14.0	15.4	15.7	19.0	20.4	19.3	20.7	21.0
	3H	14.9	16.1	15.2	16.4	16.8	20.7	22.0	21.1	22.3	22.7
	4H	15.3	16.4	15.7	16.8	17.2	21.3	22.5	21.8	22.9	23.2
	6H	15.5	16.5	15.9	16.9	17.3	21.7	22.8	22.1	23.2	23.6
	8H	15.5	16.5	15.9	16.9	17.3	21.8	22.8	22.2	23.2	23.6
	12H	15.5	16.5	15.9	16.8	17.3	21.8	22.8	22.2	23.2	23.6

UGR Viewed Endwise

4H	2H	14.5	15.6	14.9	16.0	16.4	19.0	20.2	19.4	20.6	20.9
	3H	15.8	16.8	16.2	17.2	17.6	20.9	21.9	21.3	22.3	22.7
	4H	16.3	17.1	16.7	17.5	18.0	21.6	22.5	22.0	22.9	23.3
	6H	16.5	17.3	17.0	17.7	18.2	22.1	22.8	22.5	23.3	23.7
	8H	16.5	17.2	17.0	17.7	18.1	22.2	22.9	22.6	23.3	23.8
	12H	16.5	17.1	17.0	17.6	18.1	22.2	22.8	22.7	23.3	23.8

8H	4H	16.6	17.3	17.0	17.7	18.2	21.6	22.3	22.0	22.7	23.2
	6H	16.9	17.4	17.4	17.9	18.4	22.1	22.7	22.6	23.2	23.6
	8H	16.9	17.4	17.4	17.9	18.4	22.2	22.7	22.7	23.3	23.7
	12H	16.9	17.4	17.4	17.9	18.4	22.3	22.7	22.8	23.2	23.8

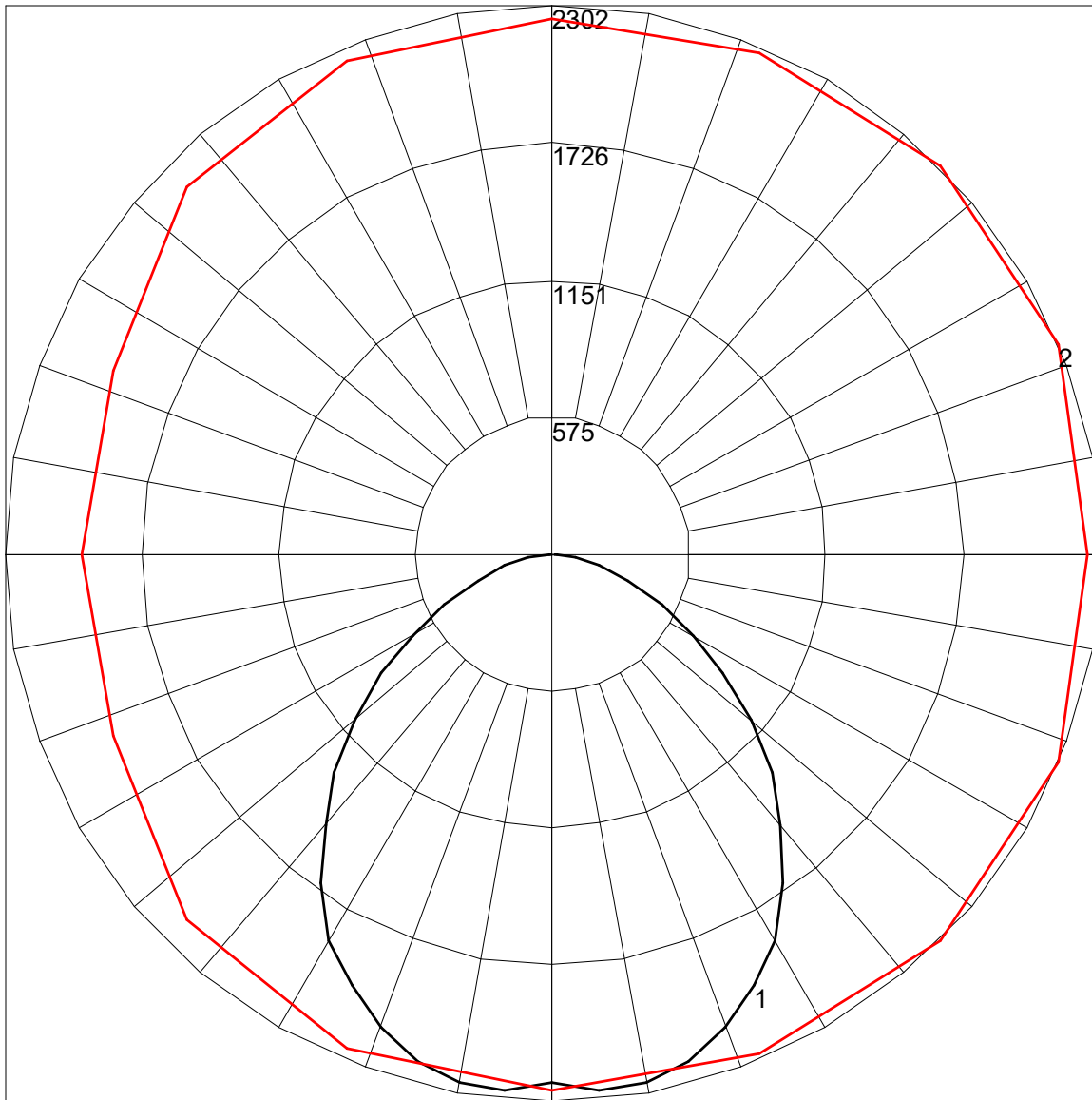
12H	4H	16.6	17.2	17.1	17.7	18.2	21.5	22.2	22.0	22.6	23.1
	6H	16.9	17.4	17.4	17.9	18.4	22.1	22.6	22.6	23.0	23.6
	8H	17.0	17.4	17.5	17.9	18.5	22.2	22.7	22.7	23.2	23.7

Maximum UGR = 23.8

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POLAR GRAPH



Maximum Candela = 2301.985 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.)