

IES INDOOR REPORT

PHOTOMETRIC FILENAME : PXX-62-3-08-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. 20132.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUE DATE] 8 DEC 2023

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 3'8" RECESSED PERIMETER CONTINUOUS PX

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC LENS

[LUMCAT] PXX-62-3-08-L10-RGB835-W-xxxx-xxxx-DMX-UNV white only

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3935
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	111
Total Luminaire Watts	35.57
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.06
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.12
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	7634	8697	9945
55	6364	7684	8230
65	3732	7235	6077
75	2398	3146	3652
85	784	1111	1372

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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	2131.271	2131.271	2131.271	2131.271	2131.271	2131.271	2131.271	2131.271	2131.271
5	2163.667	2128.326	2130.289	2126.362	2124.399	2154.832	2130.289	2103.783	2098.875
10	2146.978	2101.820	2118.509	2121.454	2109.673	2130.289	2082.186	2024.265	2017.394
15	2062.552	2021.320	2065.497	2085.131	2073.350	2070.405	1992.851	1906.461	1900.571
20	1894.681	1878.974	1964.382	2019.357	2005.613	1963.400	1839.706	1689.506	1690.487
25	1673.799	1685.579	1833.816	1915.297	1908.425	1843.633	1643.366	1401.868	1382.234
30	1442.117	1490.221	1678.707	1792.584	1778.840	1691.469	1391.069	1082.815	1008.206
35	1241.851	1298.789	1465.678	1635.512	1621.768	1508.873	1113.248	709.769	601.782
40	1076.925	1111.284	1254.613	1435.245	1423.465	1298.789	758.854	428.021	359.302
45	930.652	949.304	1060.236	1228.107	1212.400	1036.675	494.777	260.151	207.139
50	791.250	812.848	895.310	1022.931	1013.114	764.744	308.254	150.200	109.950
55	629.270	703.879	759.836	830.518	813.829	521.283	183.578	76.573	68.719
60	443.728	580.185	646.940	667.556	611.599	327.888	91.298	67.737	65.774
65	271.931	367.156	527.173	528.155	442.747	176.706	59.884	65.774	62.829
70	165.907	185.541	313.162	393.662	289.602	64.792	55.957	60.865	59.884
75	107.005	107.987	140.383	256.224	162.962	36.323	52.030	52.030	46.140
80	52.030	55.957	68.719	80.499	78.536	29.451	38.286	32.396	29.451
85	11.780	11.780	16.689	13.744	20.616	11.780	22.579	13.744	9.817
90	0.000	0.000	1.963	1.963	1.963	3.927	1.963	0.000	0.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : PXX-62-3-08-L10-RGB835-W-XXXX-XXXX-DMX-UNV WHITE ONLY_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	769.48	N.A.	19.60
0-30	1558.1	N.A.	39.60
0-40	2360.61	N.A.	60.00
0-60	3500.95	N.A.	89.00
0-80	3912.16	N.A.	99.40
0-90	3935.29	N.A.	100.00
10-90	3733.22	N.A.	94.90
20-40	1591.14	N.A.	40.40
20-50	2252.71	N.A.	57.20
40-70	1430.62	N.A.	36.40
60-80	411.21	N.A.	10.40
70-80	120.93	N.A.	3.10
80-90	23.13	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	3935.29	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	202.07
10-20	567.41
20-30	788.63
30-40	802.51
40-50	661.57
50-60	478.76
60-70	290.29
70-80	120.93
80-90	23.13
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	103	100	108	105	101	99	100	98	96	97	95	93	93	91	90	88
2	102	95	90	85	100	94	88	84	90	86	82	87	83	80	84	81	78	77
3	95	86	79	73	92	84	78	72	81	76	71	79	74	70	76	72	69	67
4	88	77	70	64	86	76	69	63	74	67	63	71	66	62	69	65	61	59
5	81	70	62	56	80	69	62	56	67	60	55	65	59	55	63	58	54	52
6	76	64	56	50	74	63	56	50	61	55	50	60	54	49	58	53	49	47
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	54	48	44	42
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	38
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35
10	59	46	39	34	57	46	39	34	45	39	34	44	38	34	43	38	34	32

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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	18.9	20.4	19.3	20.7	21.0
	3H	19.5	20.8	19.9	21.1	21.5
	4H	19.7	20.9	20.1	21.2	21.6
	6H	19.8	20.9	20.2	21.2	21.6
	8H	19.7	20.8	20.2	21.2	21.6
	12H	19.7	20.7	20.2	21.1	21.5

UGR Viewed Endwise

18.9	20.4	19.3	20.7	21.0
20.2	21.4	20.5	21.8	22.1
20.5	21.7	20.9	22.1	22.4
20.7	21.8	21.1	22.1	22.5
20.7	21.7	21.1	22.1	22.5
20.7	21.7	21.1	22.1	22.5

4H	2H	19.8	21.0	20.2	21.3	21.7	19.3	20.5	19.7	20.8	21.2
	3H	20.5	21.5	20.9	21.9	22.3	20.7	21.7	21.1	22.1	22.5
	4H	20.6	21.5	21.1	21.9	22.4	21.2	22.1	21.6	22.5	22.9
	6H	20.8	21.5	21.2	22.0	22.4	21.4	22.2	21.9	22.6	23.1
	8H	20.8	21.5	21.2	21.9	22.4	21.4	22.1	21.9	22.6	23.1
	12H	20.7	21.4	21.2	21.9	22.3	21.4	22.1	21.9	22.5	23.0

8H	4H	20.9	21.6	21.3	22.0	22.5	21.2	21.9	21.7	22.3	22.8
	6H	21.0	21.6	21.5	22.1	22.5	21.4	22.0	21.9	22.5	23.0
	8H	21.0	21.5	21.5	22.0	22.5	21.5	22.0	22.0	22.5	23.0
	12H	21.0	21.5	21.5	22.0	22.5	21.5	22.0	22.0	22.4	23.0

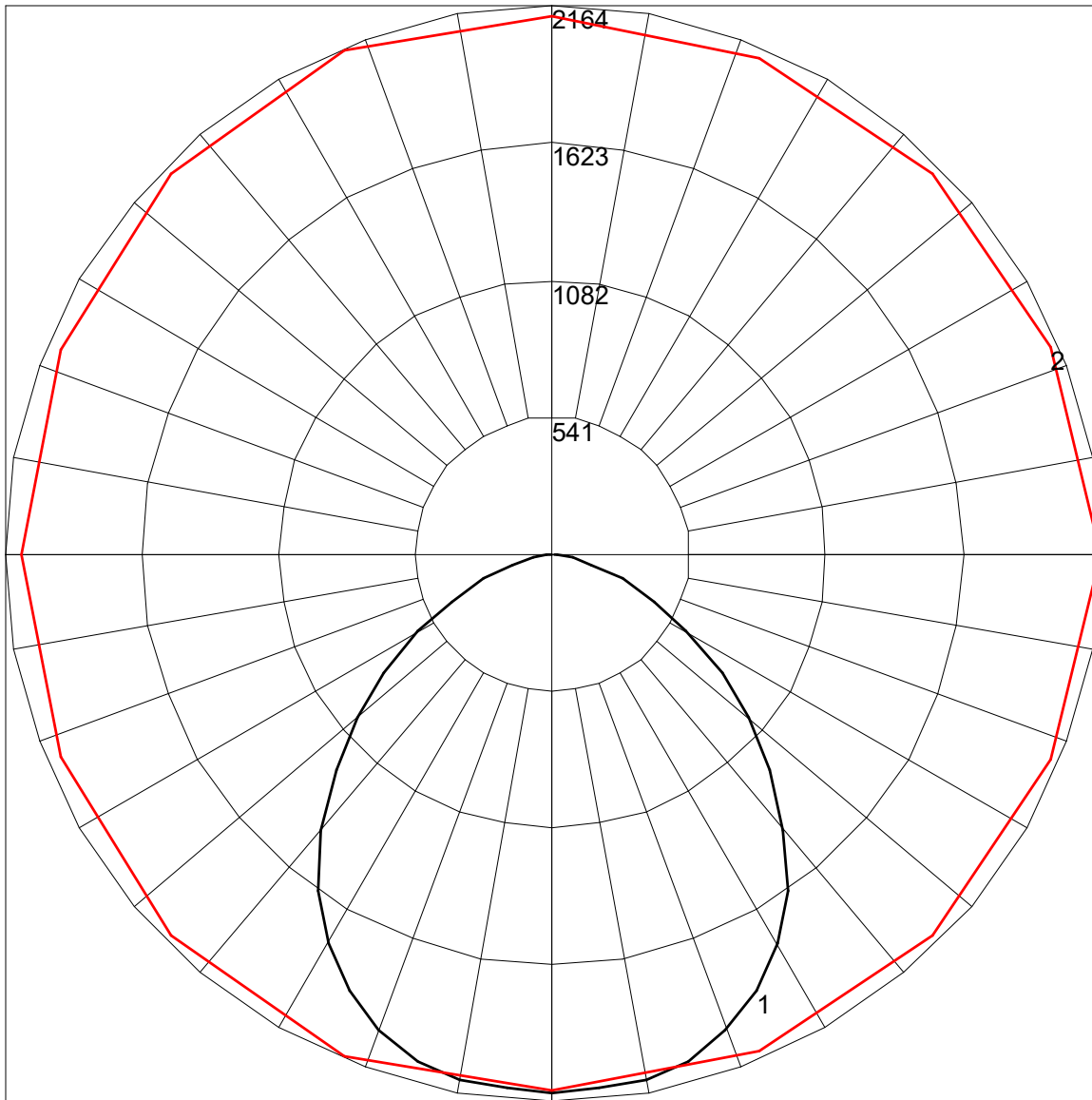
12H	4H	20.8	21.5	21.3	22.0	22.4	21.1	21.8	21.6	22.3	22.7
	6H	21.0	21.5	21.5	22.0	22.5	21.4	21.9	21.9	22.4	22.9
	8H	21.0	21.5	21.5	22.0	22.5	21.5	21.9	22.0	22.4	23.0

Maximum UGR = 23.1

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POLAR GRAPH



Maximum Candela = 2163.667 Located At Horizontal Angle = 0, Vertical Angle = 5

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

2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)