

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : PXX-42-3-08-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. 20126.0

[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-42-3-08-L10-RGB835-W-xxxx-xxxx-DMX-UNV white only

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3777
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	106
Total Luminaire Watts	35.57
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.10
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.12
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.32 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	8964	15750	15824
55	5096	9977	12939
65	3437	4645	10291
75	2449	3742	5885
85	606	2323	1515

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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>
<b>0</b>	2133.738	2133.738	2133.738	2133.738	2133.738	2133.738	2133.738	2133.738	2133.738
<b>5</b>	2156.167	2166.894	2166.894	2153.242	2162.018	2149.341	2102.531	2065.474	2048.895
<b>10</b>	2121.060	2178.597	2177.622	2156.167	2156.167	2111.308	2023.540	1950.400	1925.045
<b>15</b>	2043.044	2149.341	2138.614	2135.688	2121.060	2020.614	1870.434	1688.071	1640.286
<b>20</b>	1896.764	2057.672	2048.895	2082.052	2048.895	1901.640	1651.014	1344.801	1231.678
<b>25</b>	1716.352	1943.574	1937.722	1989.408	1933.822	1769.988	1380.883	1019.084	863.052
<b>30</b>	1509.610	1775.839	1791.442	1859.706	1803.145	1582.750	1103.926	705.070	602.674
<b>35</b>	1288.239	1563.246	1626.634	1710.501	1642.237	1315.545	790.887	495.402	441.766
<b>40</b>	994.704	1265.810	1458.899	1544.717	1449.147	1101.001	563.666	374.477	327.667
<b>45</b>	702.144	890.358	1233.628	1340.900	1239.479	884.506	416.410	278.907	239.899
<b>50</b>	471.022	563.666	941.068	1118.554	1025.910	662.161	304.262	204.792	168.710
<b>55</b>	323.766	389.105	633.880	907.911	822.094	476.873	204.792	154.082	157.007
<b>60</b>	216.494	274.031	374.477	696.293	645.582	313.039	135.553	146.280	141.404
<b>65</b>	160.908	185.288	217.470	510.030	481.749	182.362	123.850	126.776	116.049
<b>70</b>	116.049	154.082	143.354	337.419	312.064	103.371	112.148	93.619	86.793
<b>75</b>	70.214	107.272	107.272	177.486	168.710	74.115	78.991	58.512	50.710
<b>80</b>	30.231	65.338	59.487	78.991	80.942	47.785	36.082	22.430	14.628
<b>85</b>	5.851	31.206	22.430	31.206	14.628	11.702	7.802	4.876	1.950
<b>90</b>	2.926	2.926	0.000	2.926	2.926	2.926	1.950	1.950	1.950

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : PXX-42-3-08-L10-RGB835-W-XXXX-XXXX-DMX-UNV WHITE ONLY\_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	761.04	N.A.	20.10
0-30	1522.21	N.A.	40.30
0-40	2305.74	N.A.	61.00
0-60	3391.68	N.A.	89.80
0-80	3753.86	N.A.	99.40
0-90	3777.23	N.A.	100.00
10-90	3574.87	N.A.	94.60
20-40	1544.7	N.A.	40.90
20-50	2196.35	N.A.	58.10
40-70	1334.87	N.A.	35.30
60-80	362.18	N.A.	9.60
70-80	113.25	N.A.	3.00
80-90	23.37	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	3777.23	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	202.36
10-20	558.68
20-30	761.16
30-40	783.53
40-50	651.66
50-60	434.28
60-70	248.93
70-80	113.25
80-90	23.37
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	85	100	94	89	84	91	86	82	87	84	81	85	82	79	77
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	69	68
4	88	78	70	64	86	77	69	64	74	68	63	72	67	62	70	65	62	60
5	82	71	63	57	80	70	62	57	68	61	56	66	60	56	64	59	55	53
6	76	65	57	51	75	64	56	51	62	55	50	60	54	50	59	54	50	48
7	71	59	51	46	70	58	51	46	57	50	45	56	50	45	54	49	45	43
8	67	55	47	42	65	54	47	42	53	46	41	52	46	41	50	45	41	39
9	63	51	43	38	61	50	43	38	49	42	38	48	42	38	47	41	37	36
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	38	35	33

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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	15.9	17.3	16.3	17.7	18.0	20.8	22.2	21.2	22.5	22.9
	3H	17.0	18.2	17.4	18.6	18.9	22.0	23.3	22.4	23.6	24.0
	4H	17.3	18.5	17.7	18.9	19.3	22.3	23.5	22.7	23.8	24.2
	6H	17.5	18.6	17.9	19.0	19.4	22.5	23.6	22.9	23.9	24.3
	8H	17.5	18.6	18.0	19.0	19.4	22.5	23.5	22.9	23.9	24.3
	12H	17.5	18.5	17.9	18.9	19.3	22.5	23.5	22.9	23.8	24.3

### UGR Viewed Endwise

4H	2H	16.5	17.6	16.9	18.0	18.4	20.7	21.9	21.1	22.3	22.6
	3H	17.8	18.7	18.2	19.1	19.6	22.1	23.1	22.5	23.5	23.9
	4H	18.3	19.2	18.7	19.6	20.0	22.5	23.4	22.9	23.8	24.2
	6H	18.6	19.4	19.1	19.8	20.3	22.7	23.5	23.2	23.9	24.4
	8H	18.7	19.4	19.2	19.9	20.3	22.8	23.5	23.2	23.9	24.4
	12H	18.7	19.3	19.2	19.8	20.3	22.8	23.4	23.3	23.9	24.4

8H	4H	18.7	19.4	19.2	19.9	20.3	22.5	23.2	22.9	23.6	24.1
	6H	19.2	19.8	19.7	20.3	20.7	22.8	23.3	23.3	23.8	24.3
	8H	19.3	19.9	19.9	20.4	20.9	22.8	23.3	23.4	23.9	24.3
	12H	19.4	19.9	20.0	20.4	20.9	22.9	23.3	23.4	23.8	24.4

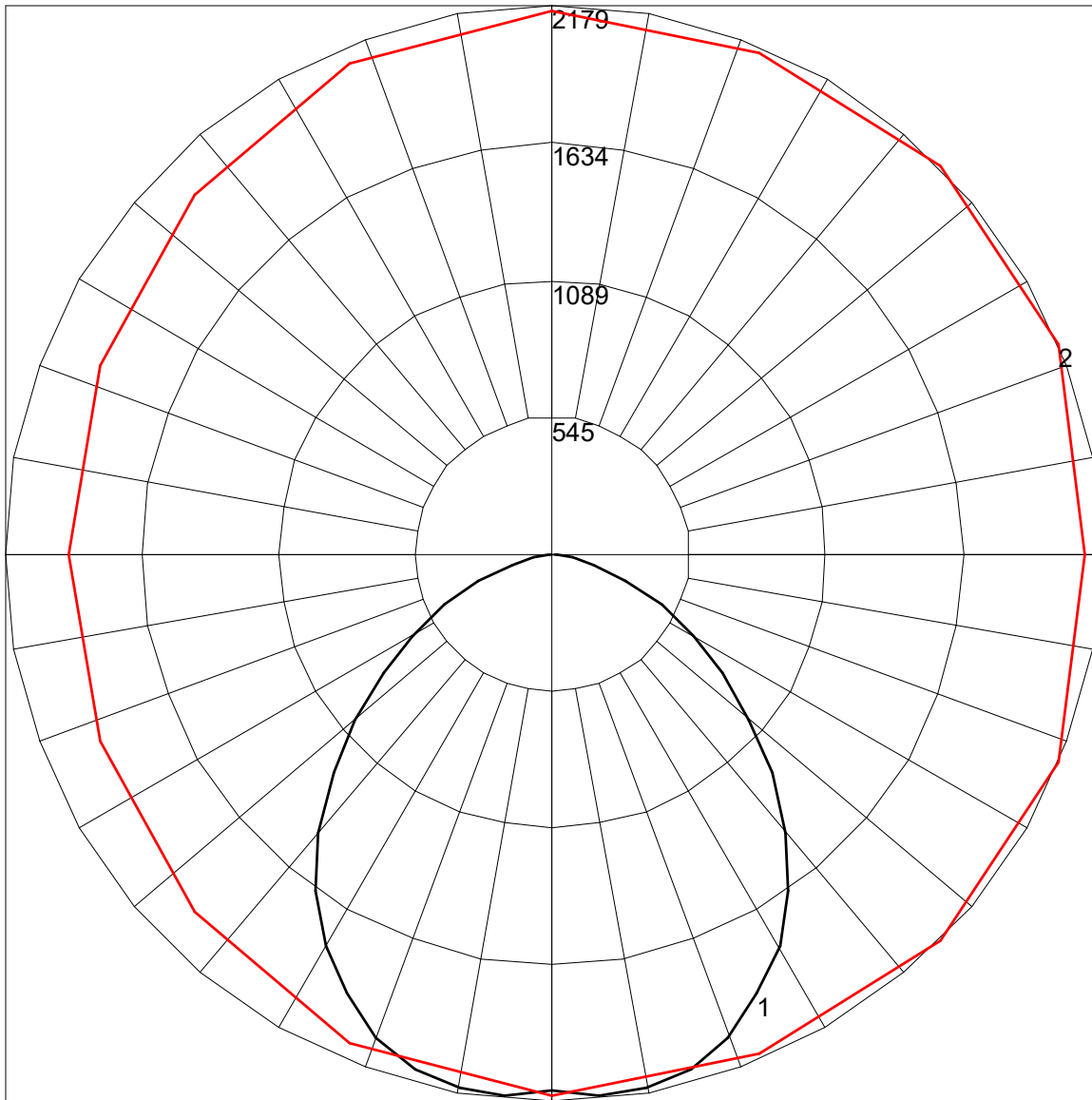
12H	4H	18.8	19.4	19.3	19.9	20.3	22.4	23.1	22.9	23.5	24.0
	6H	19.3	19.8	19.8	20.2	20.8	22.7	23.2	23.3	23.7	24.3
	8H	19.5	19.9	20.0	20.4	21.0	22.8	23.3	23.3	23.8	24.3

Maximum UGR = 24.4

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## POLAR GRAPH



Maximum Candela = 2178.597 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.)