

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : PXX-66-3-08-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. 20134.0

[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-66-3-08-L10-RGB835-W-xxxx-xxxx-DMX-UNV white only

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3209
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	90
Total Luminaire Watts	35.57
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.16
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	0.96
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	3094	5328	10227
55	2265	3010	8392
65	1863	2209	6640
75	1499	1521	3867
85	774	452	839

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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>	2170.711	2170.711	2170.711	2170.711	2170.711	2170.711	2170.711	2170.711	2170.711
<b>5</b>	2214.338	2230.820	2217.247	2202.704	2177.497	2202.704	2184.284	2156.168	2141.626
<b>10</b>	2230.820	2241.484	2254.088	2216.277	2164.894	2184.284	2078.608	1849.806	1736.375
<b>15</b>	2178.467	2206.582	2220.155	2191.070	2119.327	2118.358	1632.638	1082.932	854.130
<b>20</b>	2063.096	2094.120	2143.565	2131.931	2040.798	1964.207	851.221	517.713	435.306
<b>25</b>	1882.769	1925.427	2005.896	2038.859	1929.305	1706.320	500.262	307.332	288.911
<b>30</b>	1660.754	1720.863	1820.721	1915.732	1790.667	1289.435	311.210	288.911	292.789
<b>35</b>	969.500	1131.407	1601.614	1775.155	1627.791	843.465	269.521	291.820	296.667
<b>40</b>	515.774	587.517	1214.784	1596.767	1448.433	529.347	269.521	296.667	301.515
<b>45</b>	377.136	377.136	649.565	1367.965	1246.777	342.234	266.613	297.637	298.606
<b>50</b>	307.332	320.905	379.075	1114.925	1037.365	219.107	260.796	281.155	274.369
<b>55</b>	223.955	238.497	297.637	873.520	829.892	199.717	248.192	249.162	235.589
<b>60</b>	168.693	176.449	218.138	518.683	649.565	187.114	216.199	210.382	193.900
<b>65</b>	135.730	131.852	160.937	269.521	483.781	172.571	181.297	173.541	153.181
<b>70</b>	99.859	88.225	109.554	181.297	326.722	145.425	133.791	128.944	110.523
<b>75</b>	66.896	61.079	67.865	108.584	172.571	101.798	87.255	88.225	74.652
<b>80</b>	33.933	33.933	30.055	51.384	61.079	53.323	43.628	45.567	38.780
<b>85</b>	11.634	11.634	6.787	19.390	12.604	15.512	14.543	14.543	14.543
<b>90</b>	1.939	0.970	1.939	1.939	2.909	2.909	2.909	0.000	0.970

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : PXX-66-3-08-L10-RGB835-W-XXXX-XXXX-DMX-UNV WHITE ONLY\_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	733.55	N.A.	22.90
0-30	1396.54	N.A.	43.50
0-40	2036.11	N.A.	63.50
0-60	2870.00	N.A.	89.40
0-80	3188.66	N.A.	99.40
0-90	3208.62	N.A.	100.00
10-90	3002.07	N.A.	93.60
20-40	1302.56	N.A.	40.60
20-50	1784.67	N.A.	55.60
40-70	1050.71	N.A.	32.70
60-80	318.66	N.A.	9.90
70-80	101.85	N.A.	3.20
80-90	19.95	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	3208.62	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	206.55
10-20	527.00
20-30	663.00
30-40	639.57
40-50	482.11
50-60	351.79
60-70	216.82
70-80	101.85
80-90	19.95
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	100	94	89	85	91	87	83	88	84	81	85	82	79	77
3	95	87	80	75	93	85	79	74	82	77	73	80	75	71	77	74	70	68
4	89	79	71	66	87	77	70	65	75	69	64	73	68	63	71	66	63	61
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54
6	77	66	58	52	76	65	58	52	63	57	52	62	56	51	60	55	51	49
7	72	61	53	48	71	60	53	47	58	52	47	57	51	47	56	50	46	45
8	68	56	49	43	67	55	48	43	54	48	43	53	47	43	52	47	43	41
9	64	52	45	40	63	52	45	40	50	44	40	49	44	39	49	43	39	38
10	60	49	42	37	59	48	41	37	47	41	37	46	41	36	46	40	36	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	12.0	13.4	12.3	13.7	14.0	18.6	20.0	19.0	20.3	20.7
	3H	13.3	14.5	13.6	14.8	15.2	19.9	21.2	20.3	21.5	21.9
	4H	13.8	14.9	14.2	15.3	15.6	20.3	21.5	20.7	21.9	22.2
	6H	14.0	15.1	14.5	15.5	15.9	20.5	21.6	20.9	21.9	22.3
	8H	14.1	15.1	14.6	15.5	15.9	20.5	21.5	20.9	21.9	22.3
	12H	14.1	15.1	14.6	15.5	15.9	20.5	21.5	20.9	21.8	22.3

### UGR Viewed Endwise

4H	2H	12.7	13.8	13.1	14.2	14.6	18.6	19.8	19.0	20.1	20.5
	3H	14.1	15.1	14.5	15.5	15.9	20.0	21.0	20.4	21.4	21.8
	4H	14.7	15.5	15.1	15.9	16.4	20.5	21.3	20.9	21.8	22.2
	6H	15.0	15.8	15.5	16.2	16.7	20.7	21.5	21.2	21.9	22.4
	8H	15.1	15.8	15.6	16.3	16.7	20.7	21.4	21.2	21.9	22.3
	12H	15.2	15.8	15.6	16.3	16.7	20.7	21.3	21.2	21.8	22.3

8H	4H	14.9	15.6	15.4	16.1	16.6	20.4	21.1	20.9	21.6	22.0
	6H	15.4	16.0	15.9	16.5	16.9	20.7	21.3	21.2	21.8	22.3
	8H	15.5	16.0	16.0	16.5	17.0	20.8	21.3	21.3	21.8	22.3
	12H	15.6	16.1	16.1	16.6	17.1	20.8	21.2	21.3	21.7	22.3

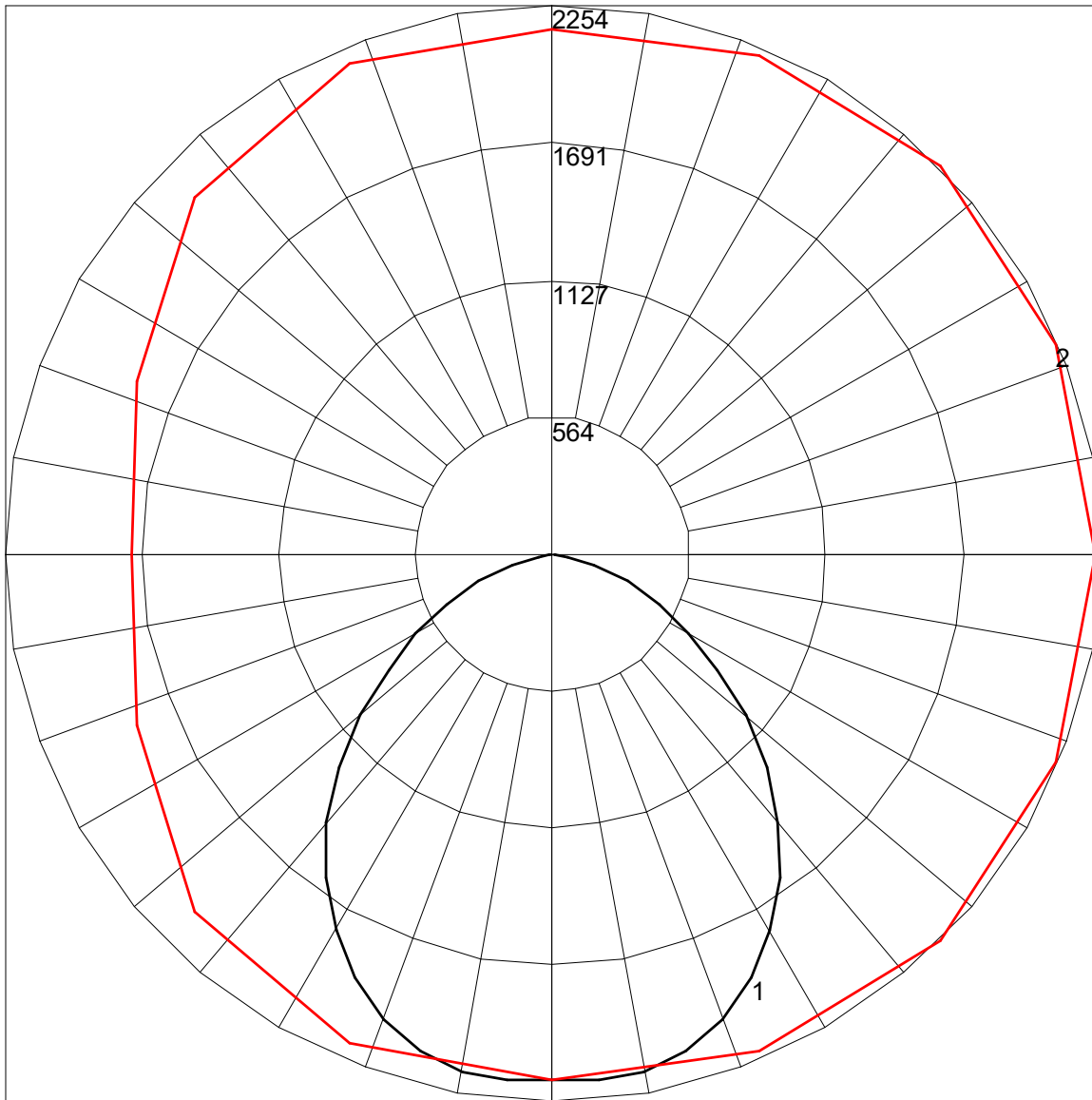
12H	4H	15.0	15.6	15.5	16.1	16.5	20.4	21.0	20.9	21.5	22.0
	6H	15.4	15.9	16.0	16.4	16.9	20.7	21.2	21.2	21.7	22.2
	8H	15.6	16.0	16.1	16.5	17.1	20.8	21.2	21.3	21.7	22.3

Maximum UGR = 22.4

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## POLAR GRAPH



Maximum Candela = 2254.088 Located At Horizontal Angle = 45, Vertical Angle = 10

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

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