

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : PXX-46-3-08-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. 20588.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 8 DEC 2023

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 3'8" PERIMETER LUMINAIRE

[MORE] WHITE ASYM REFL AND FROSTED LENS w/OPEN BOTTOM

[LUMCAT] PXX-46-3-09-L10-RGB835-W-xxxx-xxxx-DMX-UNV white only

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3084
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	87
Total Luminaire Watts	35.57
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.46
Spacing Criterion (90-270)	1.18
Spacing Criterion (Diagonal)	0.72
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.33 ft
Luminous Width (90-270)	3.68 ft
Luminous Height	0.00 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5167	5339	17431
55	4154	5099	13962
65	3140	3936	10879
75	2130	2744	7221
85	858	1179	2359

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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>	2632.336	2632.336	2632.336	2632.336	2632.336	2632.336	2632.336	2632.336	2632.336
<b>5</b>	2564.240	2569.560	2598.288	2625.952	2652.552	2672.768	2703.624	2700.432	2694.048
<b>10</b>	2020.536	2131.192	2451.456	2574.880	2599.352	2655.744	2697.240	2672.768	2623.824
<b>15</b>	923.552	1111.880	1842.848	2480.184	2511.040	2591.904	2585.520	2234.400	1976.912
<b>20</b>	595.840	644.784	1002.288	2221.632	2394.000	2492.952	2180.136	1289.568	994.840
<b>25</b>	441.560	446.880	643.720	1786.456	2231.208	2348.248	1410.864	740.544	616.056
<b>30</b>	458.584	450.072	467.096	1268.288	2064.160	2142.896	850.136	533.064	523.488
<b>35</b>	484.120	466.032	421.344	806.512	1871.576	1793.904	574.560	494.760	458.584
<b>40</b>	468.160	469.224	424.536	550.088	1636.432	1344.896	477.736	402.192	362.824
<b>45</b>	416.024	423.472	429.856	410.704	1403.416	909.720	420.280	318.136	286.216
<b>50</b>	344.736	358.568	394.744	331.968	1158.696	596.904	337.288	251.104	231.952
<b>55</b>	271.320	286.216	333.032	312.816	911.848	394.744	245.784	201.096	186.200
<b>60</b>	208.544	218.120	260.680	295.792	710.752	314.944	190.456	158.536	148.960
<b>65</b>	151.088	157.472	189.392	246.848	523.488	230.888	141.512	119.168	110.656
<b>70</b>	102.144	107.464	129.808	177.688	358.568	148.960	98.952	85.120	77.672
<b>75</b>	62.776	69.160	80.864	107.464	212.800	90.440	62.776	55.328	48.944
<b>80</b>	30.856	30.856	39.368	53.200	95.760	46.816	34.048	27.664	23.408
<b>85</b>	8.512	9.576	11.704	14.896	23.408	12.768	6.384	4.256	1.064
<b>90</b>	0.000	0.000	0.000	1.064	0.000	0.000	0.000	1.064	0.000

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : PXX-46-3-08-L10-RGB835-W-XXXX-XXXX-DMX-UNV WHITE ONLY\_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	828.56	N.A.	26.90
0-30	1423.28	N.A.	46.20
0-40	1965.66	N.A.	63.70
0-60	2749.56	N.A.	89.20
0-80	3065.64	N.A.	99.40
0-90	3083.75	N.A.	100.00
10-90	2836.19	N.A.	92.00
20-40	1137.1	N.A.	36.90
20-50	1589.29	N.A.	51.50
40-70	1000.44	N.A.	32.40
60-80	316.08	N.A.	10.20
70-80	99.54	N.A.	3.20
80-90	18.11	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	3083.75	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	247.56
10-20	580.99
20-30	594.72
30-40	542.38
40-50	452.18
50-60	331.72
60-70	216.54
70-80	99.54
80-90	18.11
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	109	105	102	99	101	98	96	97	95	93	94	92	91	89
2	103	97	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	78
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69
4	89	79	72	66	87	78	71	66	76	70	65	74	68	64	72	67	64	62
5	83	73	65	59	82	72	64	59	70	63	59	68	62	58	66	61	57	56
6	78	67	59	54	76	66	59	54	64	58	53	63	57	53	61	56	52	51
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46
8	69	57	50	45	68	57	50	45	56	49	45	54	49	44	53	48	44	43
9	65	54	46	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	37

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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	14.8	16.2	15.2	16.5	16.9	18.4	19.8	18.8	20.1	20.4
	3H	16.0	17.2	16.3	17.5	17.9	20.6	21.9	21.0	22.2	22.6
	4H	16.3	17.5	16.7	17.8	18.2	21.3	22.5	21.7	22.8	23.2
	6H	16.5	17.6	16.9	17.9	18.3	21.7	22.7	22.1	23.1	23.5
	8H	16.5	17.5	17.0	17.9	18.3	21.8	22.8	22.2	23.2	23.6
	12H	16.5	17.5	16.9	17.9	18.3	21.8	22.7	22.2	23.1	23.6

### UGR Viewed Endwise

4H	2H	15.5	16.7	15.9	17.0	17.4	18.5	19.6	18.9	20.0	20.4
	3H	16.8	17.7	17.2	18.1	18.6	20.7	21.7	21.1	22.1	22.5
	4H	17.2	18.1	17.6	18.5	18.9	21.4	22.3	21.9	22.7	23.2
	6H	17.5	18.2	17.9	18.6	19.1	21.9	22.7	22.4	23.1	23.6
	8H	17.5	18.2	17.9	18.6	19.1	22.0	22.7	22.5	23.2	23.6
	12H	17.5	18.1	18.0	18.6	19.1	22.1	22.7	22.6	23.2	23.6

8H	4H	17.5	18.2	17.9	18.6	19.1	21.4	22.1	21.9	22.6	23.0
	6H	17.8	18.4	18.3	18.8	19.3	21.9	22.5	22.4	23.0	23.5
	8H	17.9	18.4	18.4	18.9	19.4	22.0	22.6	22.6	23.1	23.6
	12H	17.9	18.3	18.4	18.8	19.4	22.1	22.6	22.6	23.1	23.6

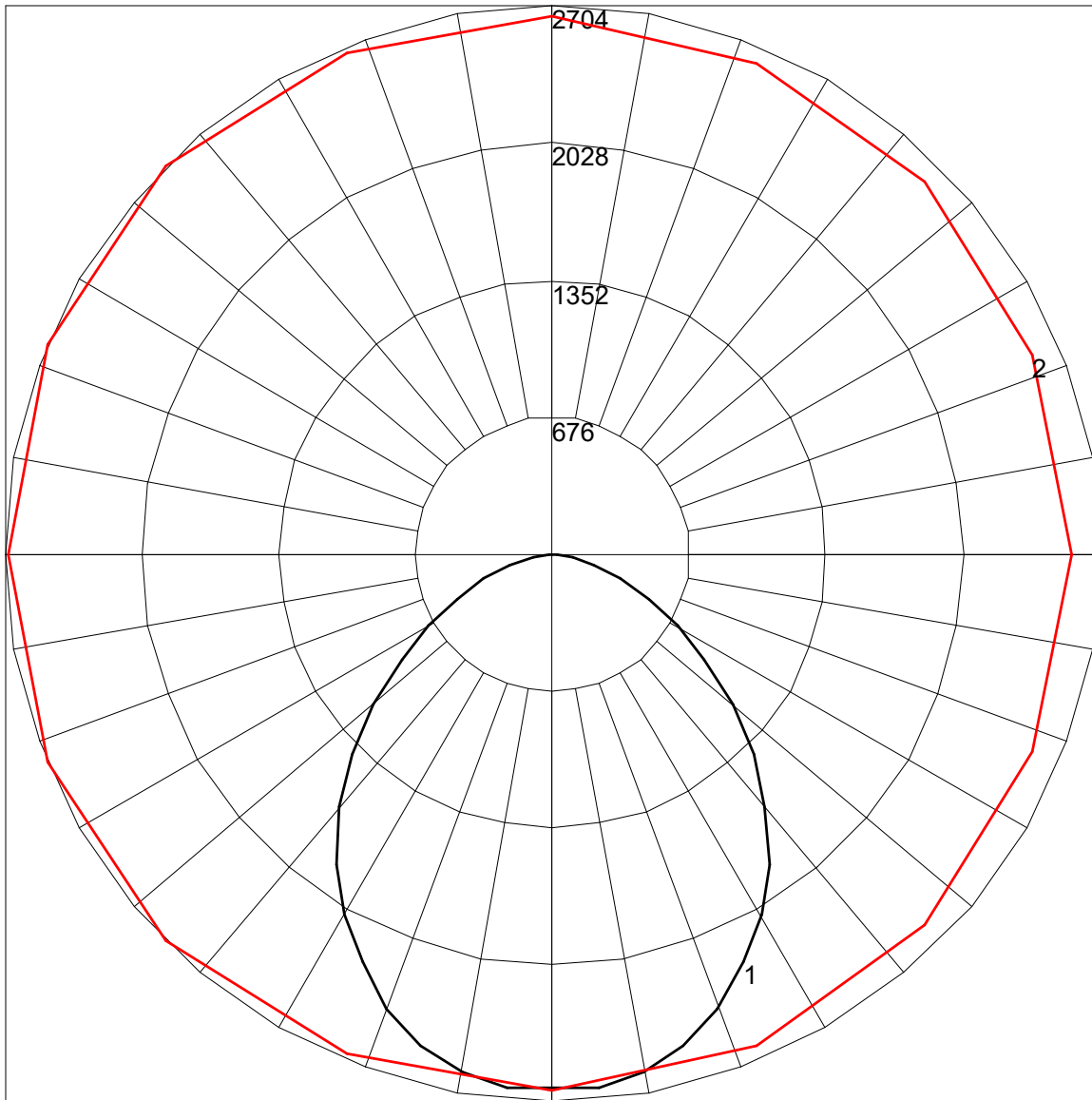
12H	4H	17.5	18.1	18.0	18.6	19.1	21.4	22.0	21.9	22.5	23.0
	6H	17.8	18.3	18.4	18.8	19.3	21.9	22.4	22.4	22.9	23.4
	8H	17.9	18.4	18.4	18.9	19.4	22.0	22.5	22.5	23.0	23.5

Maximum UGR = 23.6

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## POLAR GRAPH



Maximum Candela = 2703.624 Located At Horizontal Angle = 135, Vertical Angle = 5

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

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