



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : PX-46-1-10-L7-935-W-DIM-UNV\_.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] 04-MAY-2022  
[MANUFAC] H.E. WILLIAMS, INC - CARTHAGE, MO  
[LUMINAIRE] 2-56 LED 22"ARRAYS PERIMETER LUMINAIRE  
[MORE] WHITE ASYM REFL AND FROSTED LENS w/OPEN BOTTOM  
[LUMCAT] PXF-46-1'10-L7-935-W-LCAP-RCAP-DIM-UNV  
[LAMPCAT] HLM 90 CRI 3500K CCT

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	737
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	58
Total Luminaire Watts	12.8
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)	1.83 ft
Luminous Height	0.00 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2478	2560	8358
55	1992	2445	6694
65	1505	1887	5216
75	1021	1316	3462
85	411	565	1131

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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>	629.171	629.171	629.171	629.171	629.171	629.171	629.171	629.171	629.171
<b>5</b>	612.895	614.167	621.033	627.645	634.003	638.835	646.210	645.447	643.921
<b>10</b>	482.941	509.390	585.938	615.438	621.287	634.766	644.684	638.835	627.137
<b>15</b>	220.744	265.757	440.471	592.804	600.179	619.507	617.981	534.058	472.514
<b>20</b>	142.415	154.114	239.563	531.006	572.205	595.856	521.088	308.228	237.783
<b>25</b>	105.540	106.812	153.860	426.992	533.295	561.269	337.219	177.002	147.247
<b>30</b>	109.609	107.575	111.644	303.141	493.368	512.187	203.196	127.411	125.122
<b>35</b>	115.713	111.389	100.708	192.769	447.337	428.772	137.329	118.256	109.609
<b>40</b>	111.898	112.152	101.471	131.480	391.134	321.452	114.187	96.130	86.721
<b>45</b>	99.436	101.217	102.743	98.165	335.439	217.438	100.454	76.040	68.410
<b>50</b>	82.398	85.704	94.350	79.346	276.947	142.670	80.617	60.018	55.440
<b>55</b>	64.850	68.410	79.600	74.768	217.946	94.350	58.746	48.065	44.505
<b>60</b>	49.845	52.134	62.307	70.699	169.881	75.277	45.522	37.893	35.604
<b>65</b>	36.112	37.638	45.268	59.001	125.122	55.186	33.824	28.483	26.449
<b>70</b>	24.414	25.686	31.026	42.470	85.704	35.604	23.651	20.345	18.565
<b>75</b>	15.004	16.530	19.328	25.686	50.863	21.617	15.004	13.224	11.698
<b>80</b>	7.375	7.375	9.410	12.716	22.888	11.190	8.138	6.612	5.595
<b>85</b>	2.035	2.289	2.797	3.560	5.595	3.052	1.526	1.017	0.254
<b>90</b>	0.000	0.000	0.000	0.254	0.000	0.000	0.000	0.254	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	198.04	N.A.	26.90
0-30	340.19	N.A.	46.20
0-40	469.83	N.A.	63.70
0-60	657.19	N.A.	89.20
0-80	732.74	N.A.	99.40
0-90	737.07	N.A.	100.00
10-90	677.89	N.A.	92.00
20-40	271.79	N.A.	36.90
20-50	379.87	N.A.	51.50
40-70	239.12	N.A.	32.40
60-80	75.55	N.A.	10.30
70-80	23.79	N.A.	3.20
80-90	4.33	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	737.07	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	59.17
10-20	138.87
20-30	142.15
30-40	129.64
40-50	108.08
50-60	79.29
60-70	51.76
70-80	23.79
80-90	4.33
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	69	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**

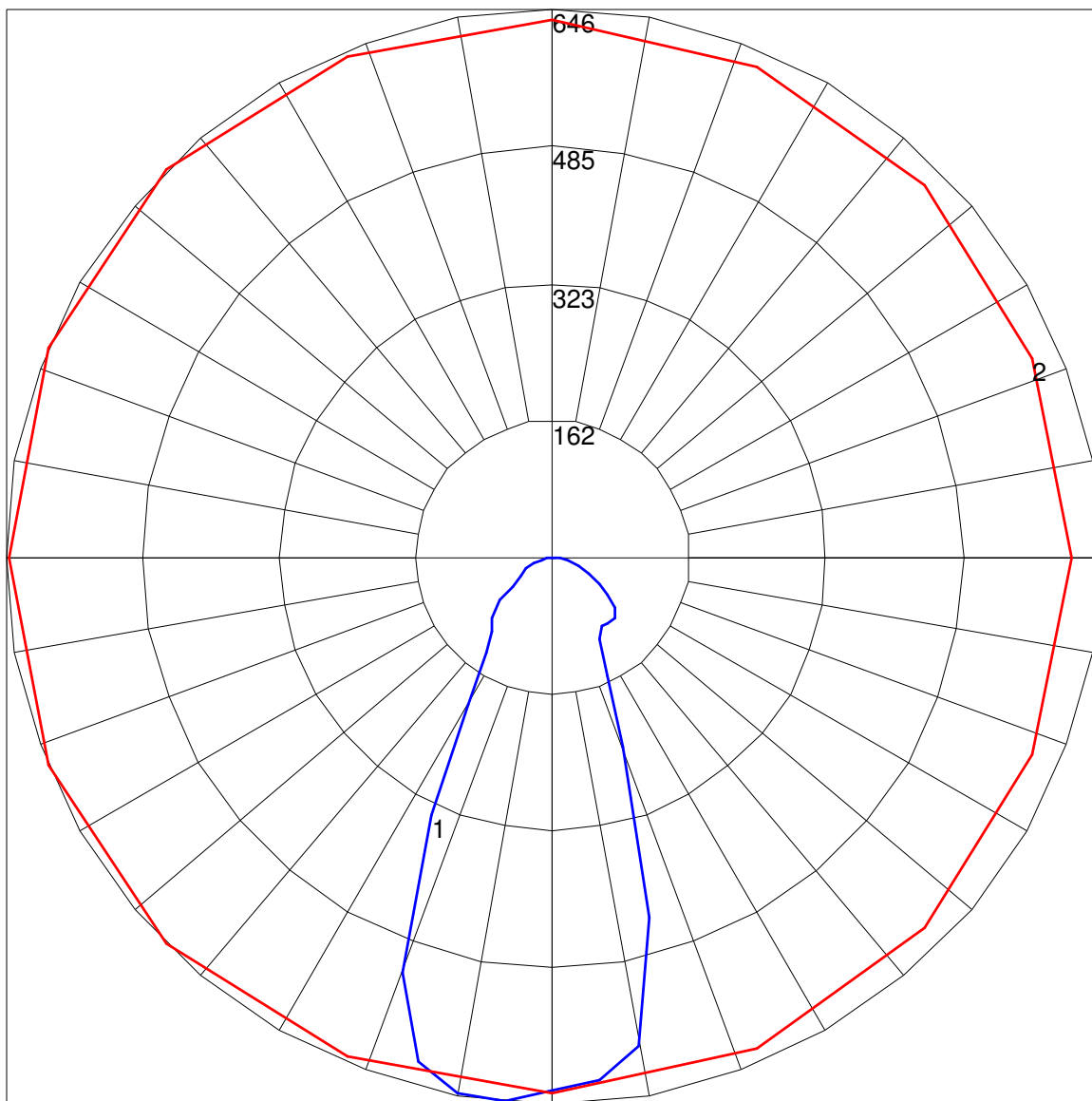
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	12.3	13.7	12.7	14.1	14.4	15.9	17.3	16.3	17.6	18.0
	3H	13.5	14.7	13.9	15.1	15.4	18.1	19.4	18.5	19.7	20.1
	4H	13.8	15.0	14.2	15.3	15.7	18.8	20.0	19.2	20.3	20.7
	6H	14.0	15.1	14.4	15.4	15.8	19.2	20.3	19.6	20.6	21.0
	8H	14.0	15.1	14.5	15.4	15.8	19.3	20.3	19.7	20.7	21.1
	12H	14.0	15.0	14.5	15.4	15.8	19.3	20.3	19.7	20.6	21.1
4H	2H	13.0	14.2	13.4	14.5	14.9	16.0	17.1	16.4	17.5	17.9
	3H	14.3	15.3	14.7	15.7	16.1	18.3	19.2	18.7	19.6	20.0
	4H	14.7	15.6	15.2	16.0	16.4	19.0	19.8	19.4	20.3	20.7
	6H	15.0	15.7	15.4	16.2	16.6	19.4	20.2	19.9	20.6	21.1
	8H	15.0	15.7	15.5	16.1	16.6	19.5	20.2	20.0	20.7	21.2
	12H	15.0	15.6	15.5	16.1	16.6	19.6	20.2	20.1	20.7	21.2
8H	4H	15.0	15.7	15.5	16.1	16.6	18.9	19.6	19.4	20.1	20.6
	6H	15.3	15.9	15.8	16.4	16.8	19.4	20.0	19.9	20.5	21.0
	8H	15.4	15.9	15.9	16.4	16.9	19.6	20.1	20.1	20.6	21.1
	12H	15.4	15.8	15.9	16.3	16.9	19.6	20.1	20.1	20.6	21.1
12H	4H	15.0	15.6	15.5	16.1	16.6	18.9	19.5	19.4	20.0	20.5
	6H	15.3	15.8	15.9	16.3	16.9	19.4	19.9	19.9	20.4	20.9
	8H	15.4	15.9	15.9	16.4	16.9	19.5	20.0	20.1	20.5	21.1

Maximum UGR = 21.2

POLAR GRAPH



Maximum Candela = 646.21 Located At Horizontal Angle = 135, Vertical Angle = 5  
# 1 - Vertical Plane Through Horizontal Angles (135 - 315) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)