



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : PX-46-7-04-L7-935-W-XXXX-XXXX-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 3'8"PERIMETER LUMINAIRE  
 [MORE] WHITE ASYM REFL AND FROSTED LENS w/OPEN BOTTOM  
 [LUMCAT] PXF-46-7'04-L7-935-W-DIM-UNV  
 [LAMPCAT] HLM 90 CRI 3500K CCT

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2952
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	58
Total Luminaire Watts	51.3
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)	7.33 ft
Luminous Height	0.00 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2481	2563	8368
55	1994	2448	6703
65	1507	1889	5222
75	1023	1317	3466
85	412	566	1132

IES INDOOR REPORT  
 PHOTOMETRIC FILENAME : PX-46-7-04-L7-935-W-XXXX-XXXX-DIM-UNV\_.IES

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>	2520.098	2520.098	2520.098	2520.098	2520.098	2520.098	2520.098	2520.098	2520.098
<b>5</b>	2454.906	2459.999	2487.502	2513.986	2539.452	2558.806	2588.346	2585.291	2579.179
<b>10</b>	1934.384	2040.322	2346.930	2465.092	2488.520	2542.508	2582.235	2558.806	2511.949
<b>15</b>	884.173	1064.471	1764.272	2374.434	2403.974	2481.390	2475.278	2139.129	1892.620
<b>20</b>	570.434	617.292	959.552	2126.906	2291.924	2386.657	2087.179	1234.583	952.422
<b>25</b>	422.733	427.826	616.273	1710.285	2136.073	2248.123	1350.707	708.969	589.789
<b>30</b>	439.031	430.882	447.180	1214.211	1976.148	2051.527	813.888	510.335	501.167
<b>35</b>	463.478	446.161	403.379	772.124	1791.775	1717.415	550.062	473.664	439.031
<b>40</b>	448.199	449.217	406.435	526.633	1566.658	1287.552	457.366	385.043	347.354
<b>45</b>	398.286	405.416	411.528	393.192	1343.577	870.931	402.360	304.571	274.012
<b>50</b>	330.037	343.279	377.913	317.813	1109.291	571.453	322.907	240.397	222.062
<b>55</b>	259.751	274.012	318.832	299.478	872.968	377.913	235.304	192.522	178.261
<b>60</b>	199.652	208.820	249.565	283.180	680.447	301.515	182.335	151.776	142.609
<b>65</b>	144.646	150.758	181.317	236.323	501.167	221.043	135.478	114.087	105.938
<b>70</b>	97.789	102.882	124.273	170.112	343.279	142.609	94.733	81.491	74.360
<b>75</b>	60.099	66.211	77.416	102.882	203.727	86.584	60.099	52.969	46.857
<b>80</b>	29.540	29.540	37.689	50.932	91.677	44.820	32.596	26.484	22.410
<b>85</b>	8.149	9.168	11.205	14.261	22.410	12.224	6.112	4.075	1.019
<b>90</b>	0.000	0.000	0.000	1.019	0.000	0.000	0.000	1.019	0.000

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : PX-46-7-04-L7-935-W-XXXX-XXXX-DIM-UNV\_.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	793.23	N.A.	26.90
0-30	1362.59	N.A.	46.20
0-40	1881.85	N.A.	63.70
0-60	2632.33	N.A.	89.20
0-80	2934.93	N.A.	99.40
0-90	2952.27	N.A.	100.00
10-90	2715.26	N.A.	92.00
20-40	1088.62	N.A.	36.90
20-50	1521.52	N.A.	51.50
40-70	957.78	N.A.	32.40
60-80	302.60	N.A.	10.20
70-80	95.29	N.A.	3.20
80-90	17.34	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	2952.27	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	237.01
10-20	556.22
20-30	569.36
30-40	519.26
40-50	432.90
50-60	317.57
60-70	207.30
70-80	95.29
80-90	17.34
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

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

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : PX-46-7-04-L7-935-W-XXXX-XXXX-DIM-UNV\_.IES

## UGR TABLE - CORRECTED

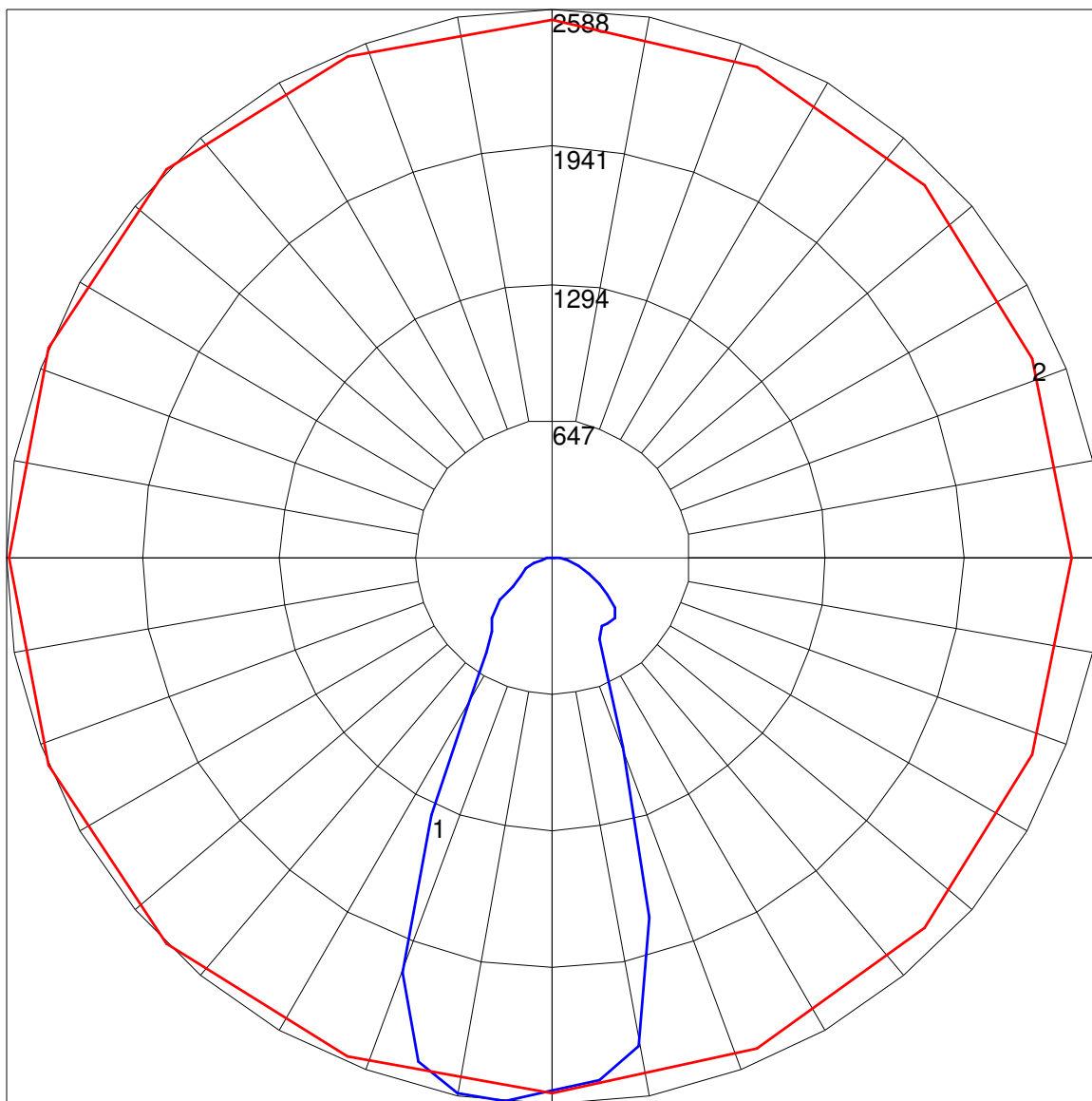
### Reflectances

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	14.0	14.4	15.9	17.3	16.3	17.6	17.9
	3H	13.5	14.7	13.8	15.0	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	20.2	19.6	20.6	21.0
	8H	14.0	15.0	14.5	15.4	15.8	19.3	20.3	19.7	20.7	21.1
	12H	14.0	15.0	14.4	15.4	15.8	19.3	20.2	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	15.2	14.7	15.7	16.1	18.2	19.2	18.6	19.6	20.0
	4H	14.7	15.6	15.1	16.0	16.4	19.0	19.8	19.4	20.2	20.7
	6H	15.0	15.7	15.4	16.1	16.6	19.4	20.2	19.9	20.6	21.1
	8H	15.0	15.7	15.4	16.1	16.6	19.5	20.2	20.0	20.7	21.1
	12H	15.0	15.6	15.5	16.1	16.6	19.6	20.2	20.1	20.7	21.1
8H	4H	15.0	15.7	15.4	16.1	16.6	18.9	19.6	19.4	20.1	20.5
	6H	15.3	15.9	15.8	16.3	16.8	19.4	20.0	19.9	20.5	21.0
	8H	15.4	15.9	15.9	16.4	16.9	19.5	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	16.8	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	20.0	20.5	21.0

Maximum UGR = 21.1

POLAR GRAPH



Maximum Candela = 2588.346 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.)