



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : PX-46-3-08-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-46-3-09-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	1474
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	58
Total Luminaire Watts	25.6
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	2470	2552	8333
55	1986	2438	6674
65	1501	1881	5200
75	1018	1312	3452
85	410	564	1128

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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>	1258.342	1258.342	1258.342	1258.342	1258.342	1258.342	1258.342	1258.342	1258.342
<b>5</b>	1225.790	1228.333	1242.066	1255.290	1268.006	1277.670	1292.420	1290.894	1287.843
<b>10</b>	965.882	1018.779	1171.876	1230.876	1242.575	1269.532	1289.368	1277.670	1254.273
<b>15</b>	441.488	531.515	880.941	1185.609	1200.359	1239.014	1235.963	1068.116	945.028
<b>20</b>	284.831	308.228	479.126	1062.012	1144.410	1191.712	1042.176	616.455	475.566
<b>25</b>	211.080	213.623	307.719	853.984	1066.590	1122.539	674.439	354.004	294.495
<b>30</b>	219.218	215.149	223.287	606.283	986.736	1024.374	406.393	254.822	250.244
<b>35</b>	231.425	222.778	201.416	385.539	894.674	857.544	274.658	236.511	219.218
<b>40</b>	223.796	224.304	202.942	262.960	782.268	642.904	228.373	192.261	173.442
<b>45</b>	198.873	202.433	205.485	196.330	670.878	434.876	200.907	152.079	136.821
<b>50</b>	164.795	171.407	188.700	158.691	553.894	285.340	161.235	120.036	110.881
<b>55</b>	129.700	136.821	159.200	149.536	435.893	188.700	117.493	96.130	89.010
<b>60</b>	99.691	104.268	124.614	141.398	339.763	150.553	91.044	75.785	71.208
<b>65</b>	72.225	75.277	90.536	118.001	250.244	110.372	67.647	56.966	52.897
<b>70</b>	48.828	51.371	62.052	84.941	171.407	71.208	47.302	40.690	37.130
<b>75</b>	30.009	33.061	38.656	51.371	101.725	43.233	30.009	26.449	23.397
<b>80</b>	14.750	14.750	18.819	25.431	45.776	22.380	16.276	13.224	11.190
<b>85</b>	4.069	4.578	5.595	7.121	11.190	6.104	3.052	2.035	0.509
<b>90</b>	0.000	0.000	0.000	0.509	0.000	0.000	0.000	0.509	0.000

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : PX-46-3-08-L7-935-W-XXXX-XXXX-DIM-UNV\_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	396.08	N.A.	26.90
0-30	680.37	N.A.	46.20
0-40	939.65	N.A.	63.70
0-60	1314.38	N.A.	89.20
0-80	1465.48	N.A.	99.40
0-90	1474.13	N.A.	100.00
10-90	1355.79	N.A.	92.00
20-40	543.57	N.A.	36.90
20-50	759.73	N.A.	51.50
40-70	478.24	N.A.	32.40
60-80	151.09	N.A.	10.20
70-80	47.58	N.A.	3.20
80-90	8.66	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	1474.13	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	118.34
10-20	277.73
20-30	284.30
30-40	259.28
40-50	216.16
50-60	158.57
60-70	103.51
70-80	47.58
80-90	8.66
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

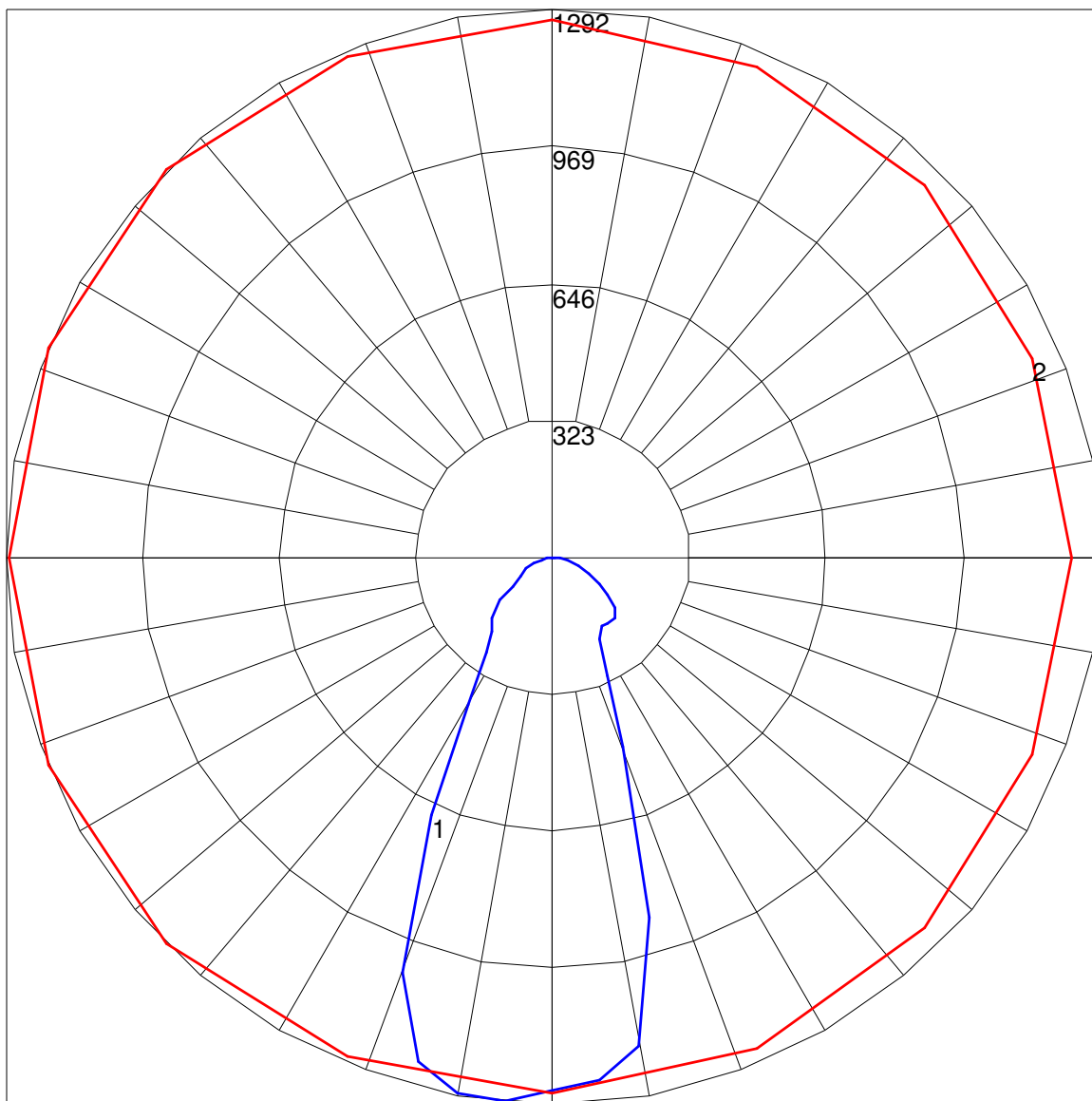
### Reflectances

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	14.0	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	14.4	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	21.0
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	15.6	16.0	18.2	19.2	18.6	19.6	20.0
	4H	14.7	15.6	15.1	16.0	16.4	18.9	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	20.0	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	15.3	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	20.5	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	15.8	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 = 1292.42 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.)