



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : PX-46-2-09-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-46-2-09-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	1105
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	58
Total Luminaire Watts	19.2
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)	2.75 ft
Luminous Height	0.00 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2476	2558	8352
55	1991	2443	6690
65	1504	1886	5213
75	1021	1315	3460
85	411	565	1130

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>	943.330	943.330	943.330	943.330	943.330	943.330	943.330	943.330	943.330
<b>5</b>	918.927	920.833	931.128	941.042	950.574	957.819	968.877	967.733	965.445
<b>10</b>	724.084	763.739	878.509	922.740	931.510	951.718	966.589	957.819	940.279
<b>15</b>	330.966	398.456	660.407	888.804	899.862	928.840	926.553	800.725	708.451
<b>20</b>	213.527	231.066	359.182	796.149	857.919	893.380	781.278	462.132	356.513
<b>25</b>	158.238	160.145	230.685	640.198	799.581	841.523	505.600	265.383	220.771
<b>30</b>	164.339	161.289	167.390	454.507	739.717	767.933	304.657	191.030	187.598
<b>35</b>	173.490	167.008	150.994	289.023	670.702	642.867	205.901	177.303	164.339
<b>40</b>	167.771	168.152	152.138	197.131	586.435	481.960	171.203	144.130	130.022
<b>45</b>	149.087	151.756	154.044	147.181	502.931	326.009	150.612	114.008	102.569
<b>50</b>	123.540	128.497	141.461	118.965	415.233	213.908	120.871	89.986	83.123
<b>55</b>	97.231	102.569	119.346	112.101	326.772	141.461	88.080	72.065	66.727
<b>60</b>	74.734	78.166	93.418	106.001	254.707	112.864	68.252	56.813	53.382
<b>65</b>	54.144	56.432	67.871	88.461	187.598	82.742	50.713	42.705	39.655
<b>70</b>	36.605	38.511	46.518	63.677	128.497	53.382	35.461	30.504	27.835
<b>75</b>	22.497	24.784	28.979	38.511	76.259	32.410	22.497	19.827	17.540
<b>80</b>	11.058	11.058	14.108	19.065	34.317	16.777	12.202	9.914	8.389
<b>85</b>	3.050	3.432	4.194	5.338	8.389	4.576	2.288	1.525	0.381
<b>90</b>	0.000	0.000	0.000	0.381	0.000	0.000	0.000	0.381	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	296.92	N.A.	26.90
0-30	510.05	N.A.	46.20
0-40	704.42	N.A.	63.70
0-60	985.34	N.A.	89.20
0-80	1098.61	N.A.	99.40
0-90	1105.1	N.A.	100.00
10-90	1016.38	N.A.	92.00
20-40	407.50	N.A.	36.90
20-50	569.54	N.A.	51.50
40-70	358.52	N.A.	32.40
60-80	113.27	N.A.	10.20
70-80	35.67	N.A.	3.20
80-90	6.49	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	1105.1	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	88.72
10-20	208.21
20-30	213.13
30-40	194.37
40-50	162.05
50-60	118.88
60-70	77.60
70-80	35.67
80-90	6.49
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

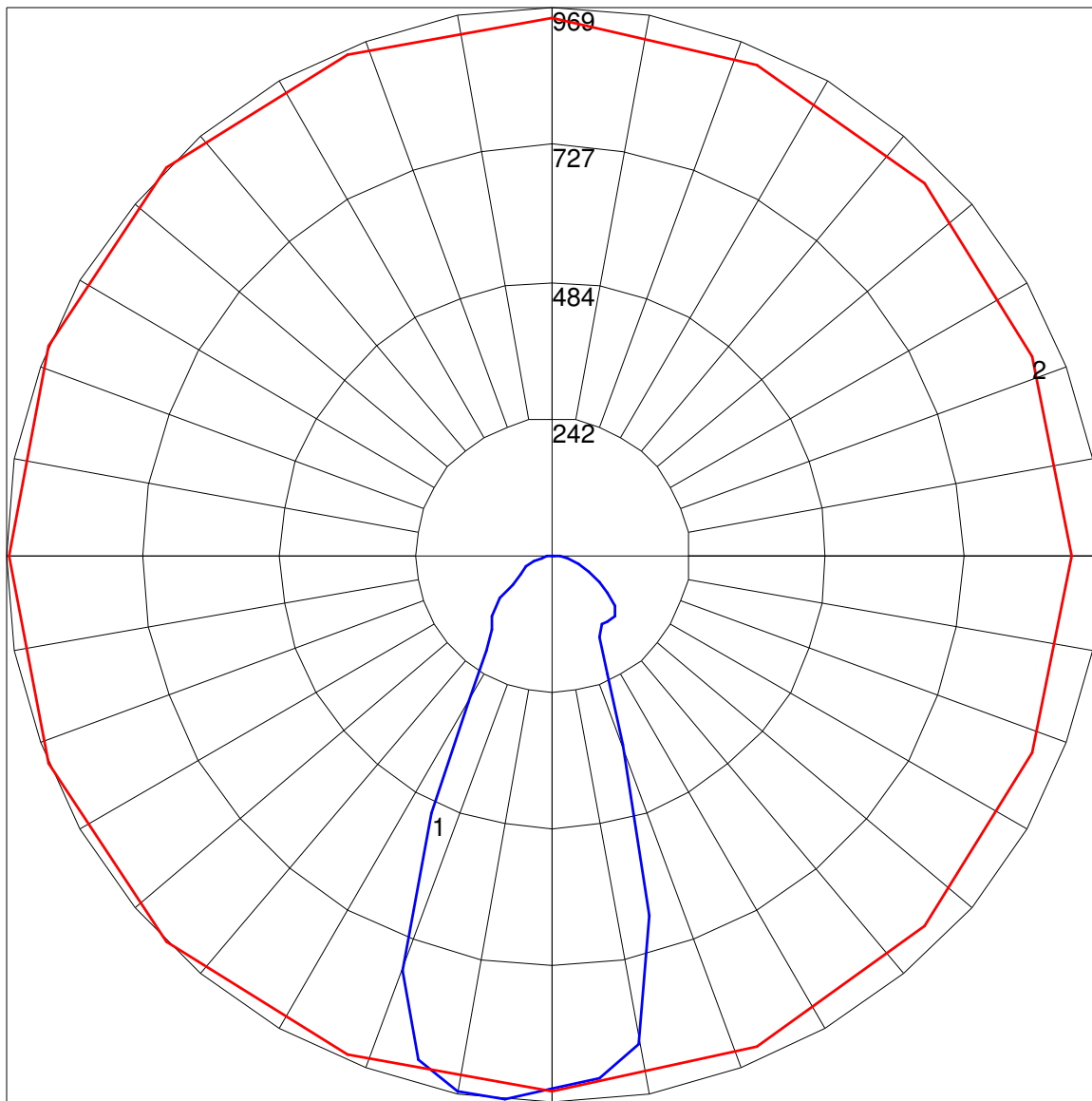
### Reflectances

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	12.4	13.7	12.7	14.1	14.4	15.9	17.3	16.3	17.6	18.0
	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	20.3	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	15.3	14.7	15.7	16.1	18.2	19.2	18.7	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	16.2	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	21.1
	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	15.5	16.1	16.6	18.9	19.6	19.4	20.1	20.5
	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 = 21.1

POLAR GRAPH



Maximum Candela = 968.877 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.)