



IES INDOOR REPORT

PHOTOMETRIC FILENAME : PXF-42-1-10-P6-935-W-POE PR_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]GEN FROM BALLABS TEST NO. 20126.0
[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
[ISSUE]DATE] 10/27/2022
[MANUFAC] H.E. WILLIAMS, INC - CARTHAGE, MO
[LUMINAIRE] 4'RECESSED PERIMETER CONTINUOUS PX
[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC LENS
[LUMCAT] PXx-42-1-10-P6-935-W-POE PR
[LAMPCAT] HLM 90 CRI 3500K CCT

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	941
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	103
Total Luminaire Watts	9.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.10
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.12
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.32 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	4494	7895	7932
55	2554	5001	6486
65	1723	2329	5158
75	1228	1876	2950
85	304	1165	759

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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>
0	531.605	531.605	531.605	531.605	531.605	531.605	531.605	531.605	531.605
5	537.194	539.866	539.866	536.465	538.651	535.493	523.831	514.598	510.468
10	528.447	542.782	542.539	537.194	537.194	526.017	504.151	485.928	479.611
15	509.010	535.493	532.820	532.091	528.447	503.422	466.005	420.571	408.666
20	472.565	512.654	510.468	518.728	510.468	473.780	411.338	335.047	306.864
25	427.617	484.227	482.770	495.647	481.798	440.980	344.037	253.897	215.023
30	376.108	442.438	446.325	463.333	449.241	394.331	275.035	175.663	150.152
35	320.956	389.471	405.264	426.159	409.152	327.759	197.044	123.426	110.063
40	247.823	315.367	363.474	384.855	361.045	274.306	140.433	93.298	81.636
45	174.934	221.826	307.350	334.076	308.807	220.368	103.746	69.488	59.769
50	117.352	140.433	234.460	278.680	255.598	164.973	75.805	51.022	42.033
55	80.664	96.943	157.927	226.200	204.819	118.809	51.022	38.388	39.117
60	53.938	68.273	93.298	173.476	160.842	77.991	33.772	36.445	35.230
65	40.089	46.163	54.181	127.070	120.024	45.434	30.856	31.585	28.913
70	28.913	38.388	35.716	84.066	77.749	25.754	27.941	23.325	21.624
75	17.493	26.726	26.726	44.219	42.033	18.465	19.680	14.578	12.634
80	7.532	16.279	14.821	19.680	20.166	11.905	8.990	5.588	3.644
85	1.458	7.775	5.588	7.775	3.644	2.916	1.944	1.215	0.486
90	0.729	0.729	0.000	0.729	0.729	0.729	0.486	0.486	0.486

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	189.61	N.A.	20.10
0-30	379.25	N.A.	40.30
0-40	574.46	N.A.	61.00
0-60	845.01	N.A.	89.80
0-80	935.25	N.A.	99.40
0-90	941.07	N.A.	100.00
10-90	890.65	N.A.	94.60
20-40	384.85	N.A.	40.90
20-50	547.21	N.A.	58.10
40-70	332.57	N.A.	35.30
60-80	90.23	N.A.	9.60
70-80	28.21	N.A.	3.00
80-90	5.82	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	941.07	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	50.42
10-20	139.19
20-30	189.64
30-40	195.21
40-50	162.36
50-60	108.20
60-70	62.02
70-80	28.21
80-90	5.82
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	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88
2	103	96	90	85	100	94	89	84	91	86	82	87	84	81	85	82	79	77
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	69	68
4	88	78	70	64	86	77	70	64	74	68	63	72	67	62	70	65	62	60
5	82	71	63	57	80	70	62	57	68	61	56	66	60	56	64	59	55	53
6	76	65	57	51	75	64	56	51	62	55	50	60	54	50	59	54	50	48
7	71	59	51	46	70	58	51	46	57	50	45	56	50	45	54	49	45	43
8	67	55	47	42	65	54	47	42	53	46	41	52	46	41	50	45	41	39
9	63	51	43	38	61	50	43	38	49	42	38	48	42	38	47	42	37	36
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	38	35	33

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UGR TABLE - CORRECTED

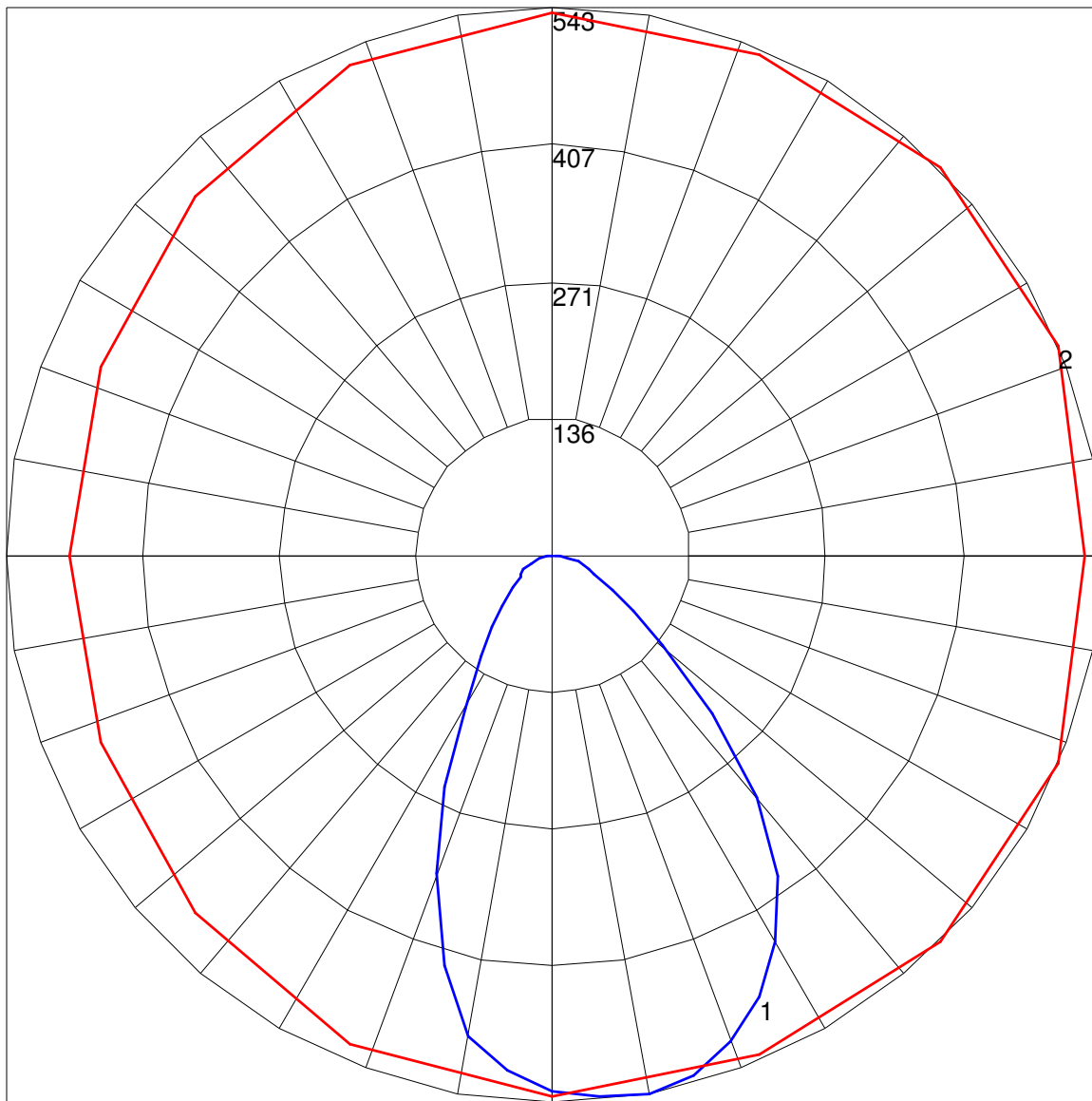
Reflectances

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	13.6	15.0	13.9	15.3	15.6	18.4	19.9	18.8	20.2	20.5
	3H	14.6	15.9	15.0	16.2	16.6	19.6	20.9	20.0	21.2	21.6
	4H	15.0	16.1	15.4	16.5	16.9	19.9	21.1	20.3	21.5	21.8
	6H	15.2	16.2	15.6	16.6	17.0	20.1	21.2	20.5	21.5	21.9
	8H	15.2	16.2	15.6	16.6	17.0	20.1	21.1	20.5	21.5	21.9
	12H	15.1	16.1	15.6	16.5	17.0	20.1	21.1	20.5	21.5	21.9
4H	2H	14.1	15.3	14.5	15.6	16.0	18.4	19.5	18.8	19.9	20.3
	3H	15.4	16.4	15.8	16.8	17.2	19.7	20.7	20.1	21.1	21.5
	4H	15.9	16.8	16.4	17.2	17.7	20.1	21.0	20.6	21.4	21.9
	6H	16.3	17.0	16.7	17.5	17.9	20.4	21.1	20.8	21.6	22.0
	8H	16.3	17.0	16.8	17.5	18.0	20.4	21.1	20.9	21.6	22.0
	12H	16.4	17.0	16.8	17.5	17.9	20.4	21.0	20.9	21.5	22.0
8H	4H	16.4	17.1	16.8	17.5	18.0	20.1	20.8	20.6	21.2	21.7
	6H	16.8	17.4	17.3	17.9	18.4	20.4	21.0	20.9	21.5	21.9
	8H	17.0	17.5	17.5	18.0	18.5	20.5	21.0	21.0	21.5	22.0
	12H	17.1	17.5	17.6	18.0	18.6	20.5	20.9	21.0	21.4	22.0
12H	4H	16.4	17.0	16.9	17.5	18.0	20.1	20.7	20.6	21.2	21.6
	6H	16.9	17.4	17.4	17.9	18.4	20.4	20.9	20.9	21.3	21.9
	8H	17.1	17.5	17.6	18.0	18.6	20.5	20.9	21.0	21.4	22.0

Maximum UGR = 22.0

POLAR GRAPH



Maximum Candela = 542.782 Located At Horizontal Angle = 22.5, Vertical Angle = 10
1 - Vertical Plane Through Horizontal Angles (22.5 - 202.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (10) (Through Max. Cd.)