



IES INDOOR REPORT

PHOTOMETRIC FILENAME : PXF-42-7-04-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

[ISSUEDATE] 10/27/2022

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO

[LUMINAIRE] RECESSED PERIMETER CONTINUOUS PX

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC LENS

[LUMCAT] PXF-42-7-04-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	3873
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	106
Total Luminaire Watts	36.4
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)	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	4623	8122	8161
55	2628	5145	6673
65	1773	2396	5307
75	1263	1930	3035
85	313	1198	781

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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	2188	2188	2188	2188	2188	2188	2188	2188	2188
5	2211	2222	2222	2208	2217	2204	2156	2118	2101
10	2175	2234	2233	2211	2211	2165	2075	2000	1974
15	2095	2204	2193	2190	2175	2072	1918	1731	1682
20	1945	2110	2101	2135	2101	1950	1693	1379	1263
25	1760	1993	1987	2040	1983	1815	1416	1045	885
30	1548	1821	1837	1907	1849	1623	1132	723	618
35	1321	1603	1668	1754	1684	1349	811	508	453
40	1020	1298	1496	1584	1486	1129	578	384	336
45	720	913	1265	1375	1271	907	427	286	246
50	483	578	965	1147	1052	679	312	210	173
55	332	399	650	931	843	489	210	158	161
60	222	281	384	714	662	321	139	150	145
65	165	190	223	523	494	187	127	130	119
70	119	158	147	346	320	106	115	96	89
75	72	110	110	182	173	76	81	60	52
80	31	67	61	81	83	49	37	23	15
85	6	32	23	32	15	12	8	5	2
90	3	3	0	3	3	3	2	2	2

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	780.40	N.A.	20.10
0-30	1560.92	N.A.	40.30
0-40	2364.37	N.A.	61.00
0-60	3477.93	N.A.	89.80
0-80	3849.32	N.A.	99.40
0-90	3873.29	N.A.	100.00
10-90	3665.78	N.A.	94.60
20-40	1583.98	N.A.	40.90
20-50	2252.21	N.A.	58.10
40-70	1368.82	N.A.	35.30
60-80	371.39	N.A.	9.60
70-80	116.13	N.A.	3.00
80-90	23.97	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	3873.29	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	207.51
10-20	572.89
20-30	780.52
30-40	803.46
40-50	668.23
50-60	445.33
60-70	255.26
70-80	116.13
80-90	23.97
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

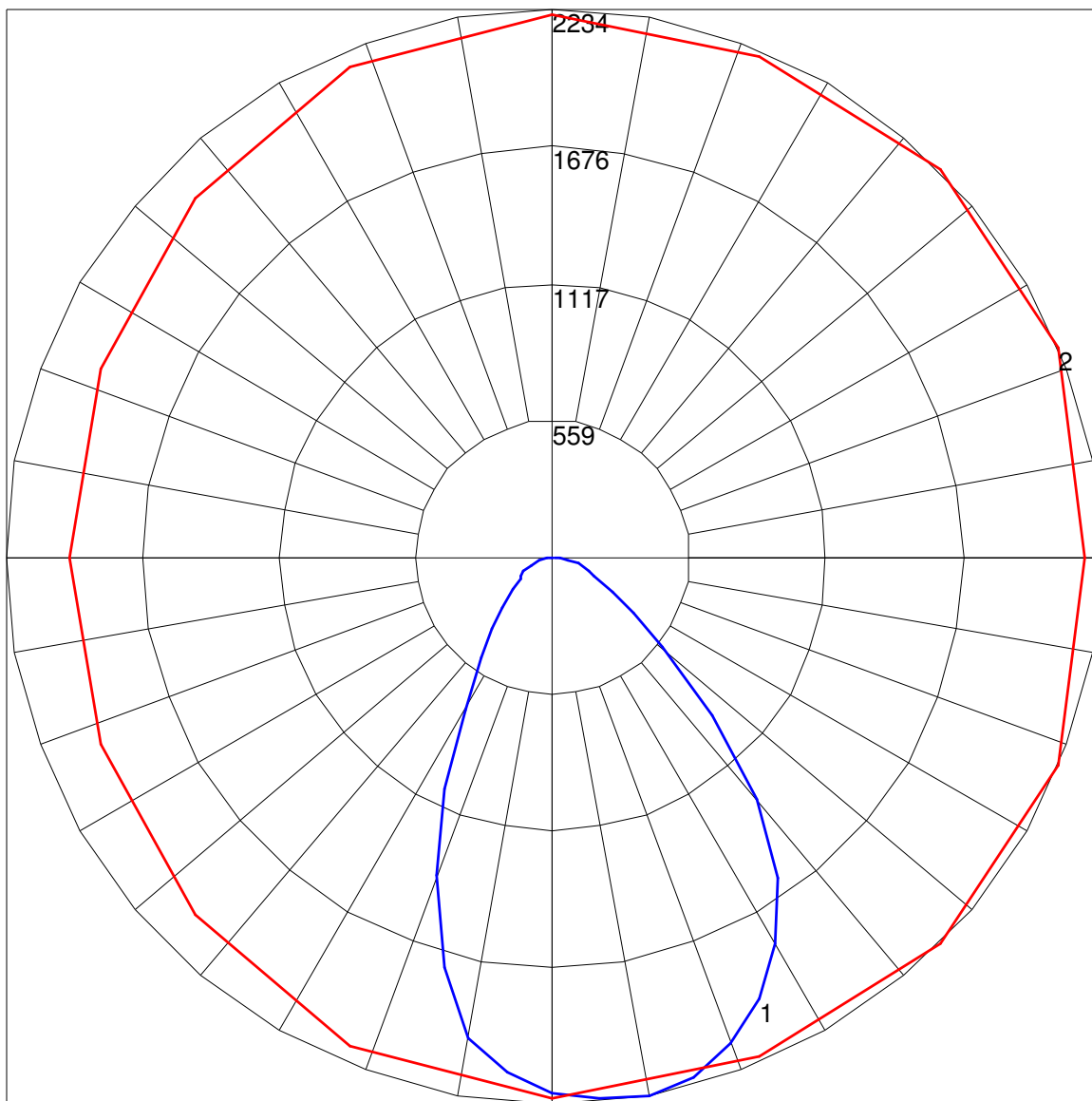
Reflectances

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	15.1	14.0	15.4	15.7	18.5	19.9	18.9	20.2	20.6
	3H	14.7	16.0	15.1	16.3	16.6	19.7	21.0	20.1	21.3	21.7
	4H	15.1	16.2	15.5	16.6	17.0	20.0	21.2	20.4	21.5	21.9
	6H	15.2	16.3	15.7	16.7	17.1	20.2	21.3	20.6	21.6	22.0
	8H	15.2	16.3	15.7	16.7	17.1	20.2	21.2	20.6	21.6	22.0
	12H	15.2	16.2	15.7	16.6	17.0	20.2	21.2	20.6	21.5	22.0
4H	2H	14.2	15.4	14.6	15.7	16.1	18.4	19.6	18.8	20.0	20.3
	3H	15.5	16.5	15.9	16.9	17.3	19.8	20.8	20.2	21.2	21.6
	4H	16.0	16.9	16.5	17.3	17.8	20.2	21.1	20.6	21.5	21.9
	6H	16.3	17.1	16.8	17.6	18.0	20.4	21.2	20.9	21.6	22.1
	8H	16.4	17.1	16.9	17.6	18.0	20.5	21.2	21.0	21.6	22.1
	12H	16.4	17.1	16.9	17.5	18.0	20.5	21.1	21.0	21.6	22.1
8H	4H	16.4	17.1	16.9	17.6	18.1	20.2	20.9	20.6	21.3	21.8
	6H	16.9	17.5	17.4	18.0	18.4	20.5	21.0	21.0	21.5	22.0
	8H	17.1	17.6	17.6	18.1	18.6	20.5	21.1	21.1	21.6	22.1
	12H	17.2	17.6	17.7	18.1	18.7	20.6	21.0	21.1	21.5	22.1
12H	4H	16.5	17.1	17.0	17.6	18.1	20.2	20.8	20.6	21.3	21.7
	6H	17.0	17.5	17.5	17.9	18.5	20.4	21.0	21.0	21.4	22.0
	8H	17.2	17.6	17.7	18.1	18.7	20.5	21.0	21.1	21.5	22.0

Maximum UGR = 22.1

POLAR GRAPH



Maximum Candela = 2234 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.)