



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AVX-2-L42-830-CPC-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM BALLABS TEST NO. 20624.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 01-23-23

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO 64836

[LUMINAIRE] 2' SURFACE MNT LUMINAIRE

[MORE] WHITE FROST INTERIOR LENS w/CLEAR POLYCARB LENS

[LUMCAT] AVX-2-L42-830-CPC-DIM-UNV

[LAMPCAT] HLM 80 CRI, 3000K CCT

[_SEARCH_SOURCETYPE] LED

[_SEARCH_APPLICATION] INDOOR, ARCHITECTURAL, COMMERCIAL, DIRECT, LINEAR

[_SEARCH_MOUNTING] SURFACE, SUSPENDED

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4236
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	114
Total Luminaire Watts	37
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.14
Spacing Criterion (90-270)	1.64
Spacing Criterion (Diagonal)	1.50
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	1.90 ft
Luminous Width (90-270)	0.58 ft
Luminous Height	0.06 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	8813	12713	15862
55	7709	12067	15323
65	6256	11046	13913
75	3278	9049	11880
85	693	6604	9941

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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>
0	1283.429	1283.429	1283.429	1283.429	1283.429
5	1286.854	1280.432	1283.857	1293.275	1295.844
10	1252.606	1260.312	1288.566	1316.392	1328.807
15	1199.094	1226.920	1289.422	1335.228	1356.205
20	1125.462	1172.552	1274.011	1353.208	1380.606
25	1046.692	1108.766	1256.459	1364.767	1409.289
30	955.508	1030.425	1220.071	1371.616	1430.694
35	857.046	949.515	1167.843	1354.493	1408.004
40	758.156	841.635	1102.345	1306.118	1359.630
45	661.835	733.327	1016.298	1234.626	1277.436
50	564.229	624.591	918.692	1135.308	1168.271
55	476.042	518.851	812.952	1011.589	1042.839
60	387.426	421.245	699.507	889.581	901.140
65	291.105	325.352	582.637	724.765	744.457
70	192.643	237.165	453.781	576.644	598.049
75	98.034	148.549	330.489	430.235	443.506
80	36.816	78.341	217.472	291.533	310.369
85	8.562	26.970	126.716	183.225	199.064
90	0.000	6.421	58.221	98.034	109.592
95	0.000	0.000	17.124	42.381	50.087
100	0.000	0.000	2.140	10.702	14.127
105	0.000	0.000	0.000	2.140	2.997
110	0.000	0.000	0.000	0.000	0.000
115	0.000	0.000	0.000	0.000	0.000
120	0.000	0.000	0.000	0.000	0.000
125	0.000	0.000	0.000	0.000	0.000
130	0.000	0.000	0.000	0.000	0.000
135	0.000	0.000	0.000	0.000	0.000
140	0.000	0.000	0.000	0.000	0.000
145	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000
155	0.000	0.000	0.000	0.000	0.000
160	0.000	0.000	0.000	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000
170	0.000	0.000	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	485.20	N.A.	11.50
0-30	1056.89	N.A.	24.90
0-40	1775.45	N.A.	41.90
0-60	3230.8	N.A.	76.30
0-80	4079.85	N.A.	96.30
0-90	4206.54	N.A.	99.30
10-90	4083.65	N.A.	96.40
20-40	1290.25	N.A.	30.50
20-50	2051.54	N.A.	48.40
40-70	1988.79	N.A.	46.90
60-80	849.05	N.A.	20.00
70-80	315.62	N.A.	7.50
80-90	126.68	N.A.	3.00
90-110	29.58	N.A.	0.70
90-120	29.58	N.A.	0.70
90-130	29.58	N.A.	0.70
90-150	29.58	N.A.	0.70
90-180	29.58	N.A.	0.70
110-180	0.00	N.A.	0.00
0-180	4236.12	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	122.89
10-20	362.31
20-30	571.69
30-40	718.56
40-50	761.29
50-60	694.06
60-70	533.43
70-80	315.62
80-90	126.68
90-100	27.77
100-110	1.81
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	101	101	101	99
1	108	103	98	94	105	100	96	93	96	93	90	92	89	87	88	86	84	82
2	98	89	82	76	95	87	81	75	84	78	73	80	75	71	77	73	70	67
3	89	78	70	63	86	76	68	62	73	66	61	70	65	60	68	63	59	56
4	81	69	60	53	79	67	59	52	65	57	52	62	56	51	60	55	50	48
5	75	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39	50	43	38	49	43	38	36
7	64	50	41	35	62	49	40	34	47	40	34	46	39	34	44	38	33	31
8	59	45	37	31	57	45	36	31	43	36	30	42	35	30	41	34	30	28
9	55	42	33	27	54	41	33	27	40	32	27	39	32	27	37	31	27	25
10	52	38	30	25	50	38	30	25	37	29	25	36	29	24	35	29	24	22

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UGR TABLE - CORRECTED

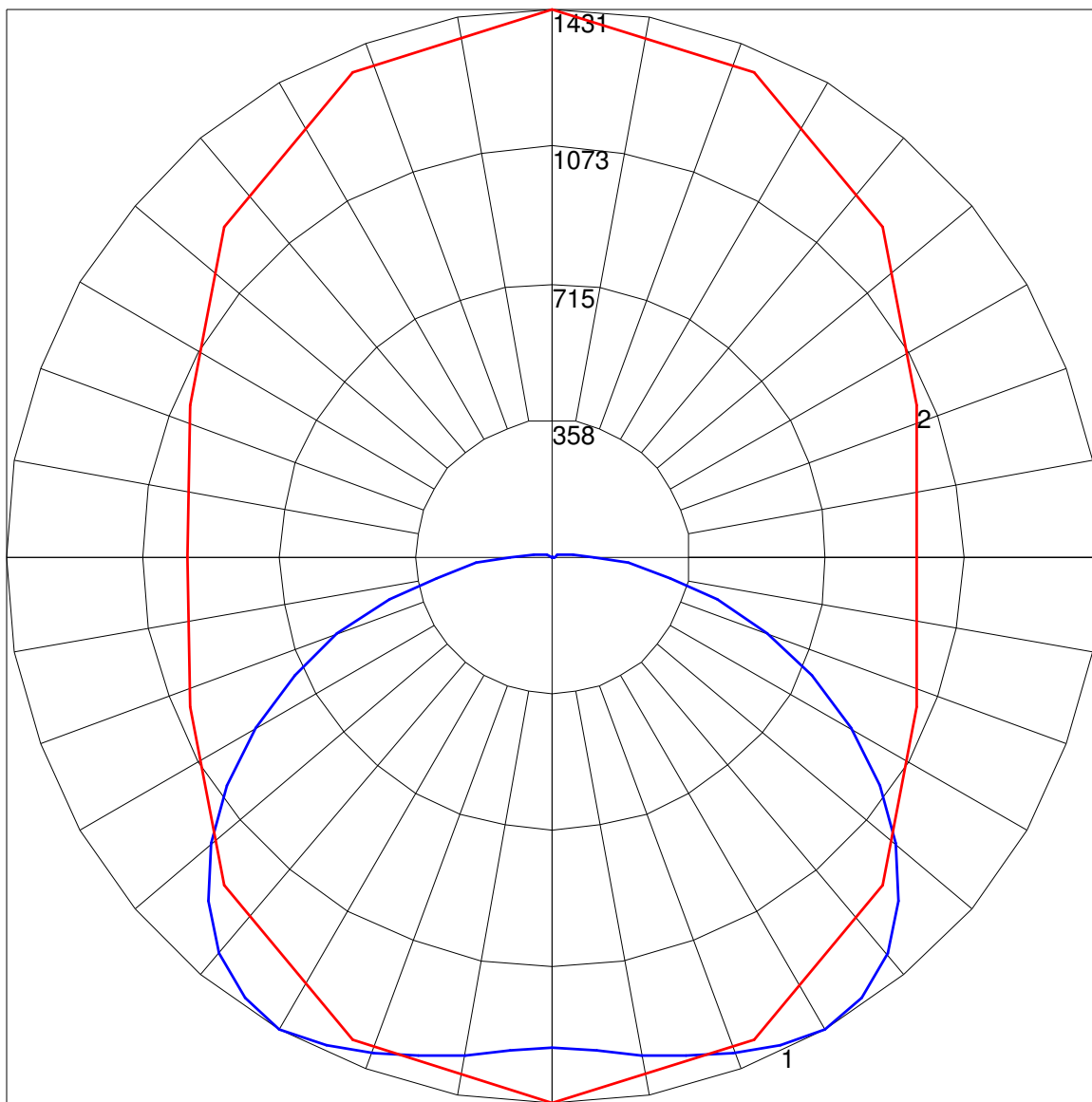
Reflectances

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	17.4	19.1	17.8	19.4	19.8	22.7	24.4	23.1	24.7	25.0
	3H	18.7	20.2	19.1	20.5	20.9	24.7	26.2	25.1	26.5	26.9
	4H	19.0	20.4	19.4	20.7	21.1	25.5	26.9	25.9	27.2	27.6
	6H	19.1	20.4	19.5	20.8	21.2	26.1	27.4	26.5	27.8	28.2
	8H	19.1	20.3	19.5	20.7	21.1	26.4	27.7	26.8	28.1	28.5
	12H	19.0	20.2	19.5	20.6	21.1	26.7	27.9	27.1	28.3	28.7
4H	2H	19.2	20.6	19.6	21.0	21.4	23.1	24.5	23.5	24.8	25.2
	3H	20.5	21.7	21.0	22.2	22.6	25.3	26.4	25.7	26.9	27.3
	4H	20.8	21.9	21.3	22.4	22.8	26.2	27.3	26.7	27.7	28.2
	6H	21.0	21.9	21.5	22.4	22.9	27.1	28.0	27.5	28.5	28.9
	8H	21.0	21.9	21.5	22.3	22.8	27.4	28.3	27.9	28.8	29.3
	12H	21.0	21.8	21.5	22.3	22.8	27.8	28.6	28.3	29.1	29.6
8H	4H	21.8	22.7	22.3	23.2	23.6	26.4	27.3	26.8	27.7	28.2
	6H	22.1	22.8	22.6	23.3	23.8	27.4	28.1	27.9	28.6	29.1
	8H	22.1	22.8	22.6	23.3	23.8	27.8	28.5	28.3	29.0	29.5
	12H	22.1	22.7	22.6	23.2	23.8	28.3	28.9	28.8	29.4	30.0
12H	4H	22.0	22.8	22.5	23.3	23.8	26.4	27.2	26.9	27.6	28.1
	6H	22.4	23.1	22.9	23.5	24.1	27.4	28.0	27.9	28.5	29.1
	8H	22.5	23.1	23.0	23.6	24.2	27.9	28.5	28.4	29.0	29.6

Maximum UGR = 30.0

POLAR GRAPH



Maximum Candela = 1430.694 Located At Horizontal Angle = 90, Vertical Angle = 30
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (30) (Through Max. Cd.)