



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AVX-8-L125-8TW-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] 15-JUL-2020

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 8' SURFACE MNT LUMINAIRE

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

[LUMCAT] AVX-8-L125-8TW-CPC-DIM-UNV

[_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	12522
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	106
Total Luminaire Watts	118
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)	7.90 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	6412	9173	11259
55	5667	8761	10877
65	4677	8096	9876
75	2540	6751	8433
85	622	5181	7057

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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	3793.933	3793.933	3793.933	3793.933	3793.933
5	3804.057	3785.075	3795.199	3823.039	3830.632
10	3702.818	3725.597	3809.119	3891.376	3928.075
15	3544.632	3626.889	3811.650	3947.057	4009.066
20	3326.968	3466.172	3766.092	4000.208	4081.199
25	3094.118	3277.614	3714.207	4034.376	4165.987
30	2824.569	3046.030	3606.641	4054.624	4229.261
35	2533.507	2806.852	3452.251	4004.004	4162.190
40	2241.179	2487.949	3258.632	3861.004	4019.190
45	1956.444	2167.781	3004.269	3649.667	3776.216
50	1667.913	1846.347	2715.737	3356.074	3453.517
55	1407.223	1533.771	2403.162	2990.348	3082.729
60	1145.267	1245.240	2067.807	2629.684	2663.852
65	860.532	961.771	1722.329	2142.471	2200.684
70	569.470	701.080	1341.417	1704.612	1767.887
75	289.797	439.124	976.957	1271.815	1311.046
80	108.832	231.584	642.868	861.797	917.479
85	25.310	79.726	374.584	541.629	588.452
90	0.000	18.982	172.106	289.797	323.965
95	0.000	0.000	50.620	125.283	148.062
100	0.000	0.000	6.327	31.637	41.761
105	0.000	0.000	0.000	6.327	8.858
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	1434.31	N.A.	11.50
0-30	3124.27	N.A.	24.90
0-40	5248.39	N.A.	41.90
0-60	9550.55	N.A.	76.30
0-80	12060.42	N.A.	96.30
0-90	12434.91	N.A.	99.30
10-90	12071.63	N.A.	96.40
20-40	3814.08	N.A.	30.50
20-50	6064.53	N.A.	48.40
40-70	5879.04	N.A.	46.90
60-80	2509.87	N.A.	20.00
70-80	932.99	N.A.	7.50
80-90	374.49	N.A.	3.00
90-110	87.45	N.A.	0.70
90-120	87.45	N.A.	0.70
90-130	87.45	N.A.	0.70
90-150	87.45	N.A.	0.70
90-180	87.45	N.A.	0.70
110-180	0.00	N.A.	0.00
0-180	12522.36	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	363.28
10-20	1071.03
20-30	1689.96
30-40	2124.12
40-50	2250.45
50-60	2051.71
60-70	1576.88
70-80	932.99
80-90	374.49
90-100	82.09
100-110	5.36
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	245	245	245	245	239	239	239	239	228	228	228	218	218	218	209	209	209	204
1	222	212	202	194	216	207	198	191	198	191	184	189	184	178	182	177	173	168
2	201	184	169	157	196	179	166	155	172	160	151	165	155	147	158	150	143	139
3	183	160	143	129	178	157	141	128	151	137	125	145	133	123	139	129	121	116
4	167	142	123	109	162	139	121	108	133	118	106	128	115	105	124	112	103	98
5	153	126	107	93	149	124	106	93	119	103	91	115	101	90	111	99	89	85
6	141	113	94	81	137	111	93	80	107	91	80	104	90	79	100	88	78	74
7	131	102	84	71	127	101	83	71	97	82	70	94	80	69	91	79	69	65
8	122	93	75	63	118	92	75	63	89	73	62	86	72	62	84	71	61	57
9	114	85	68	57	111	84	68	56	82	67	56	79	65	56	77	64	55	51
10	106	79	62	51	104	78	62	51	75	61	51	73	60	50	71	59	50	46

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UGR TABLE - CORRECTED

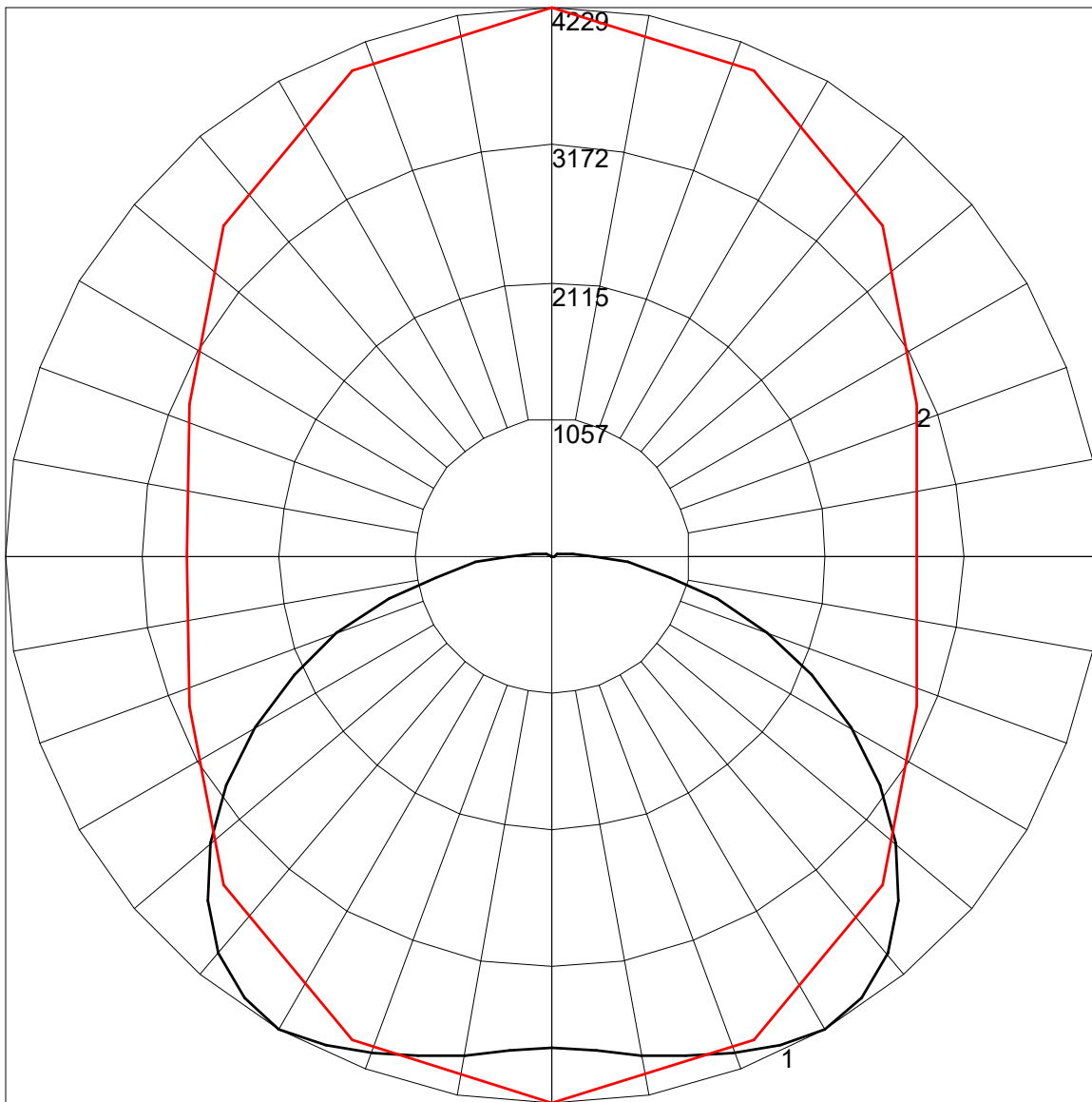
Reflectances

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	13.8	15.5	14.2	15.8	16.1	19.2	20.8	19.6	21.2	21.5
	3H	15.1	16.6	15.5	16.9	17.3	21.2	22.7	21.6	23.0	23.4
	4H	15.3	16.8	15.8	17.1	17.5	22.0	23.4	22.4	23.8	24.2
	6H	15.4	16.8	15.9	17.1	17.5	22.7	24.0	23.1	24.4	24.8
	8H	15.4	16.7	15.9	17.1	17.5	23.0	24.2	23.4	24.7	25.1
	12H	15.4	16.6	15.9	17.0	17.5	23.3	24.5	23.7	24.9	25.3
4H	2H	15.6	17.0	16.0	17.4	17.8	19.5	20.9	19.9	21.3	21.7
	3H	17.0	18.2	17.4	18.6	19.0	21.8	22.9	22.2	23.4	23.8
	4H	17.3	18.3	17.7	18.8	19.2	22.7	23.8	23.2	24.3	24.7
	6H	17.4	18.3	17.9	18.8	19.3	23.6	24.6	24.1	25.0	25.5
	8H	17.4	18.3	17.9	18.7	19.2	24.0	24.9	24.5	25.4	25.9
	12H	17.4	18.2	17.9	18.7	19.2	24.4	25.2	24.9	25.7	26.2
8H	4H	18.3	19.1	18.7	19.6	20.1	22.9	23.8	23.4	24.2	24.7
	6H	18.5	19.3	19.0	19.8	20.3	23.9	24.7	24.4	25.2	25.7
	8H	18.5	19.2	19.1	19.7	20.2	24.4	25.1	24.9	25.6	26.1
	12H	18.6	19.2	19.1	19.7	20.2	25.0	25.6	25.5	26.1	26.6
12H	4H	18.5	19.3	19.0	19.8	20.3	22.9	23.7	23.4	24.2	24.7
	6H	18.8	19.5	19.4	20.0	20.6	23.9	24.6	24.5	25.1	25.6
	8H	19.0	19.6	19.5	20.1	20.6	24.5	25.1	25.0	25.6	26.2

Maximum UGR = 26.6

POLAR GRAPH



Maximum Candela = 4229.261 Located At Horizontal Angle = 90, Vertical Angle = 30
1 - Vertical Plane Through Horizontal Angles (90 - 270)
2 - Horizontal Cone Through Vertical Angle (30) (Through Max. Cd.)