



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AVX-8-L124-835-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-L124/835-CPC-DIM-UNV

[LAMPCAT] HLM 80 CRI, 3500K CCT

[_SEARCH_SOURCE] 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	12507
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	109
Total Luminaire Watts	115
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	6405	9162	11245
55	5660	8751	10864
65	4671	8086	9864
75	2537	6743	8422
85	621	5175	7048

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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	3789.388	3789.388	3789.388	3789.388	3789.388
5	3799.500	3780.540	3790.652	3818.460	3826.043
10	3698.382	3721.134	3804.556	3886.714	3923.369
15	3540.386	3622.544	3807.084	3942.329	4004.263
20	3322.983	3462.019	3761.581	3995.416	4076.310
25	3090.412	3273.688	3709.758	4029.543	4160.996
30	2821.186	3042.381	3602.320	4049.766	4224.195
35	2530.472	2803.490	3448.116	3999.208	4157.204
40	2238.494	2484.969	3254.728	3856.379	4014.375
45	1954.101	2165.184	3000.670	3645.295	3771.693
50	1665.915	1844.135	2712.484	3352.054	3449.380
55	1405.537	1531.934	2400.283	2986.766	3079.036
60	1143.895	1243.748	2065.330	2626.534	2660.661
65	859.501	960.619	1720.266	2139.905	2198.047
70	568.787	700.241	1339.810	1702.570	1765.769
75	289.450	438.598	975.786	1270.292	1309.475
80	108.702	231.307	642.098	860.765	916.380
85	25.279	79.630	374.136	540.980	587.747
90	0.000	18.960	171.900	289.450	323.577
95	0.000	0.000	50.559	125.133	147.885
100	0.000	0.000	6.320	31.599	41.711
105	0.000	0.000	0.000	6.320	8.848
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	1432.59	N.A.	11.50
0-30	3120.53	N.A.	24.90
0-40	5242.1	N.A.	41.90
0-60	9539.11	N.A.	76.30
0-80	12045.97	N.A.	96.30
0-90	12420.01	N.A.	99.30
10-90	12057.17	N.A.	96.40
20-40	3809.51	N.A.	30.50
20-50	6057.27	N.A.	48.40
40-70	5871.99	N.A.	46.90
60-80	2506.86	N.A.	20.00
70-80	931.87	N.A.	7.50
80-90	374.04	N.A.	3.00
90-110	87.34	N.A.	0.70
90-120	87.34	N.A.	0.70
90-130	87.34	N.A.	0.70
90-150	87.34	N.A.	0.70
90-180	87.34	N.A.	0.70
110-180	0.00	N.A.	0.00
0-180	12507.36	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	362.84
10-20	1069.75
20-30	1687.94
30-40	2121.58
40-50	2247.75
50-60	2049.25
60-70	1574.99
70-80	931.87
80-90	374.04
90-100	81.99
100-110	5.35
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	206	206	206	206	201	201	201	201	192	192	192	183	183	183	176	176	176	172
1	187	178	170	163	182	174	167	160	166	161	155	159	155	150	153	149	145	142
2	169	154	142	132	165	151	140	130	145	135	127	139	131	124	133	127	121	117
3	154	135	120	109	150	132	119	108	127	115	106	122	112	104	117	109	102	98
4	141	119	104	92	137	117	102	91	112	100	89	108	97	88	104	95	87	83
5	129	106	90	78	125	104	89	78	100	87	77	97	85	76	93	83	75	71
6	119	95	79	68	116	94	79	68	90	77	67	87	75	66	84	74	66	62
7	110	86	71	60	107	85	70	60	82	69	59	79	67	58	77	66	58	54
8	102	78	63	53	100	77	63	53	75	62	52	73	61	52	70	60	52	48
9	96	72	57	48	93	71	57	47	69	56	47	67	55	47	65	54	46	43
10	90	66	52	43	87	65	52	43	63	51	43	62	50	42	60	50	42	39

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UGR TABLE - CORRECTED

Reflectances

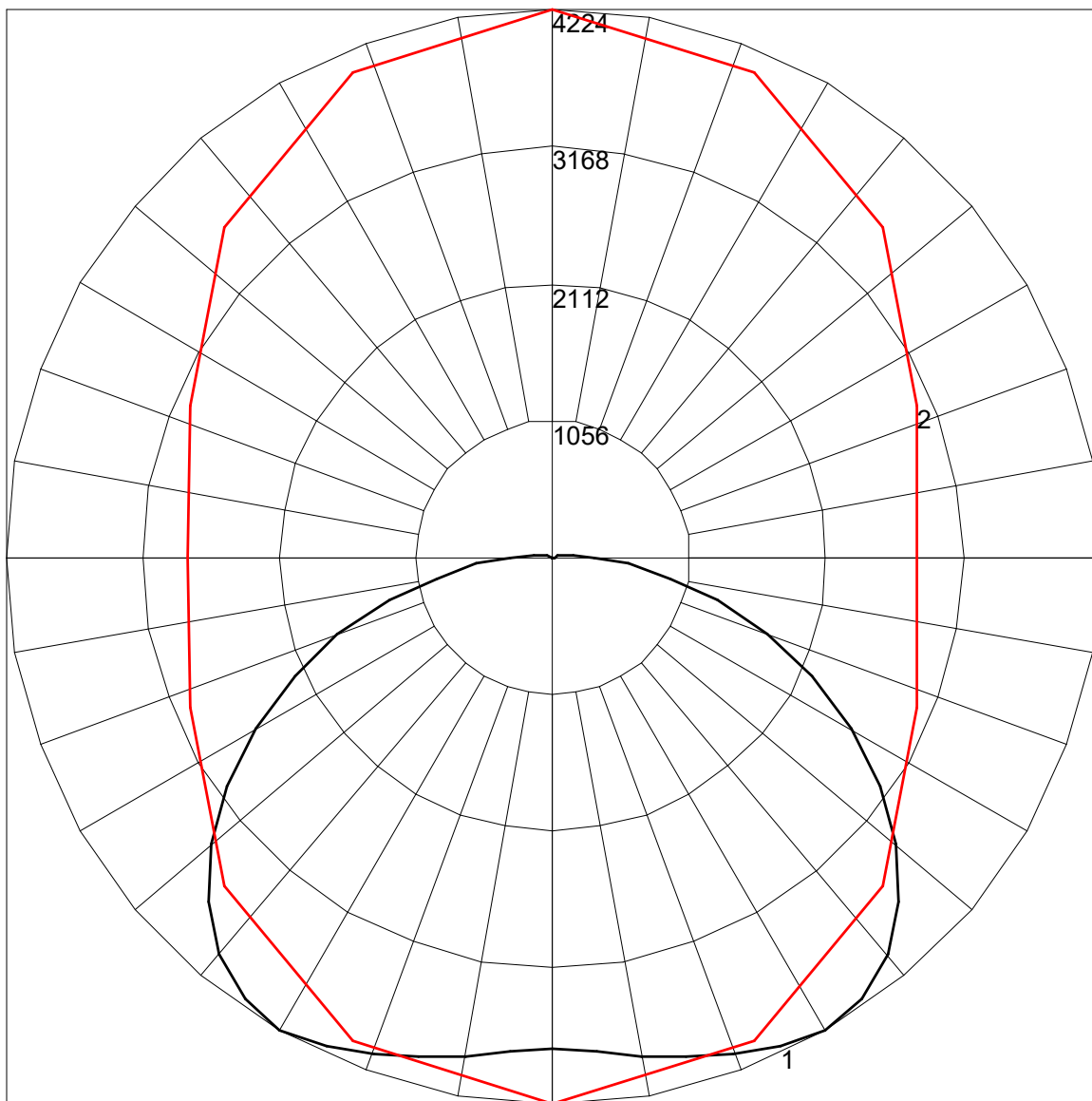
Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size UGR Viewed Crosswise

X=2H	Y=2H	14.4	16.1	14.8	16.4	16.7	UGR Viewed Endwise				
	3H	15.7	17.2	16.1	17.5	17.9	19.8	21.4	20.2	21.8	22.1
	4H	15.9	17.4	16.4	17.7	18.1	21.8	23.3	22.2	23.6	24.0
	6H	16.0	17.4	16.5	17.7	18.1	22.6	24.0	23.0	24.4	24.8
	8H	16.0	17.3	16.5	17.7	18.1	23.3	24.6	23.7	25.0	25.4
	12H	16.0	17.2	16.5	17.6	18.1	23.6	24.8	24.0	25.3	25.7
							23.9	25.1	24.3	25.5	25.9
4H	2H	16.2	17.6	16.6	18.0	18.4	20.1	21.5	20.5	21.9	22.3
	3H	17.6	18.8	18.0	19.2	19.6	22.4	23.5	22.8	24.0	24.4
	4H	17.9	18.9	18.3	19.4	19.8	23.3	24.4	23.8	24.9	25.3
	6H	18.0	18.9	18.5	19.4	19.9	24.2	25.2	24.7	25.6	26.1
	8H	18.0	18.9	18.5	19.3	19.8	24.6	25.5	25.1	26.0	26.5
	12H	18.0	18.8	18.5	19.3	19.8	24.6	25.5	25.1	26.0	26.5
8H	4H	18.9	19.7	19.3	20.2	20.7	25.0	25.8	25.5	26.3	26.8
	6H	19.1	19.9	19.6	20.4	20.9	23.5	24.4	24.0	24.8	25.3
	8H	19.1	19.8	19.7	20.3	20.8	24.5	25.3	25.0	25.8	26.3
	12H	19.1	19.8	19.7	20.3	20.8	25.0	25.7	25.5	26.2	26.7
12H	4H	19.2	19.8	19.7	20.3	20.8	25.6	26.2	26.1	26.7	27.2
	6H	19.2	19.8	19.7	20.3	20.8	23.5	24.3	24.0	24.8	25.3
	8H	19.4	20.1	20.0	20.6	21.2	24.5	25.2	25.1	25.7	26.2
							25.1	25.7	25.6	26.2	26.8

Maximum UGR = 27.2

POLAR GRAPH



Maximum Candela = 4224.195 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.)