



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : AVX-8-L164-835-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-L164/835-CPC-DIM-UNV

[LAMPCAT] HLM 80 CRI, 3500K 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	16603
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	118
Total Luminaire Watts	141
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	8502	12162	14928
55	7514	11616	14422
65	6201	10734	13095
75	3368	8951	11181
85	824	6870	9356

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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	5030.398	5030.398	5030.398	5030.398	5030.398
5	5043.821	5018.653	5032.076	5068.990	5079.058
10	4909.588	4939.790	5050.533	5159.598	5208.257
15	4699.848	4808.913	5053.889	5233.426	5315.644
20	4411.246	4595.817	4993.484	5303.899	5411.285
25	4102.509	4345.808	4924.689	5349.202	5523.706
30	3745.113	4038.749	4782.066	5376.049	5607.602
35	3359.192	3721.622	4577.360	5308.932	5518.672
40	2971.593	3298.787	4320.639	5119.328	5329.067
45	2594.061	2874.273	3983.377	4839.115	5006.907
50	2211.496	2448.082	3600.812	4449.838	4579.038
55	1865.845	2033.637	3186.366	3964.920	4087.408
60	1518.516	1651.071	2741.718	3486.714	3532.017
65	1140.984	1275.218	2283.646	2840.715	2917.899
70	755.063	929.567	1778.593	2260.155	2344.051
75	384.243	582.238	1295.353	1686.308	1738.323
80	144.301	307.059	852.382	1142.662	1216.491
85	33.558	105.709	496.664	718.149	780.232
90	0.000	25.169	228.197	384.243	429.547
95	0.000	0.000	67.117	166.114	196.316
100	0.000	0.000	8.390	41.948	55.371
105	0.000	0.000	0.000	8.390	11.745
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	1901.76	N.A.	11.50
0-30	4142.49	N.A.	24.90
0-40	6958.87	N.A.	41.90
0-60	12663.13	N.A.	76.30
0-80	15990.97	N.A.	96.30
0-90	16487.52	N.A.	99.30
10-90	16005.85	N.A.	96.40
20-40	5057.12	N.A.	30.50
20-50	8041.00	N.A.	48.40
40-70	7795.05	N.A.	46.90
60-80	3327.85	N.A.	20.00
70-80	1237.05	N.A.	7.50
80-90	496.54	N.A.	3.00
90-110	115.95	N.A.	0.70
90-120	115.95	N.A.	0.70
90-130	115.95	N.A.	0.70
90-150	115.95	N.A.	0.70
90-180	115.95	N.A.	0.70
110-180	0.00	N.A.	0.00
0-180	16603.47	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	481.67
10-20	1420.09
20-30	2240.73
30-40	2816.38
40-50	2983.88
50-60	2720.37
60-70	2090.8
70-80	1237.05
80-90	496.54
90-100	108.84
100-110	7.11
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	273	273	273	273	267	267	267	267	255	255	255	243	243	243	233	233	233	228
1	248	236	226	217	242	231	222	213	221	213	206	212	205	199	203	198	193	188
2	225	205	189	175	219	201	185	173	192	179	168	184	174	164	177	168	160	155
3	204	179	160	144	198	176	157	143	168	153	140	162	149	137	156	144	135	130
4	187	158	137	122	181	155	136	121	149	132	119	143	129	117	138	126	115	110
5	171	141	120	104	166	138	118	103	133	116	102	128	113	101	124	110	99	94
6	158	127	105	90	153	124	104	90	120	102	89	116	100	88	112	98	87	82
7	146	114	94	79	142	112	93	79	109	91	78	105	89	78	102	88	77	72
8	136	104	84	71	132	103	83	70	99	82	70	96	81	69	93	79	69	64
9	127	95	76	63	123	94	76	63	91	74	63	89	73	62	86	72	62	57
10	119	88	69	57	116	87	69	57	84	68	57	82	67	56	80	66	56	52

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**UGR TABLE - CORRECTED**

Reflectances

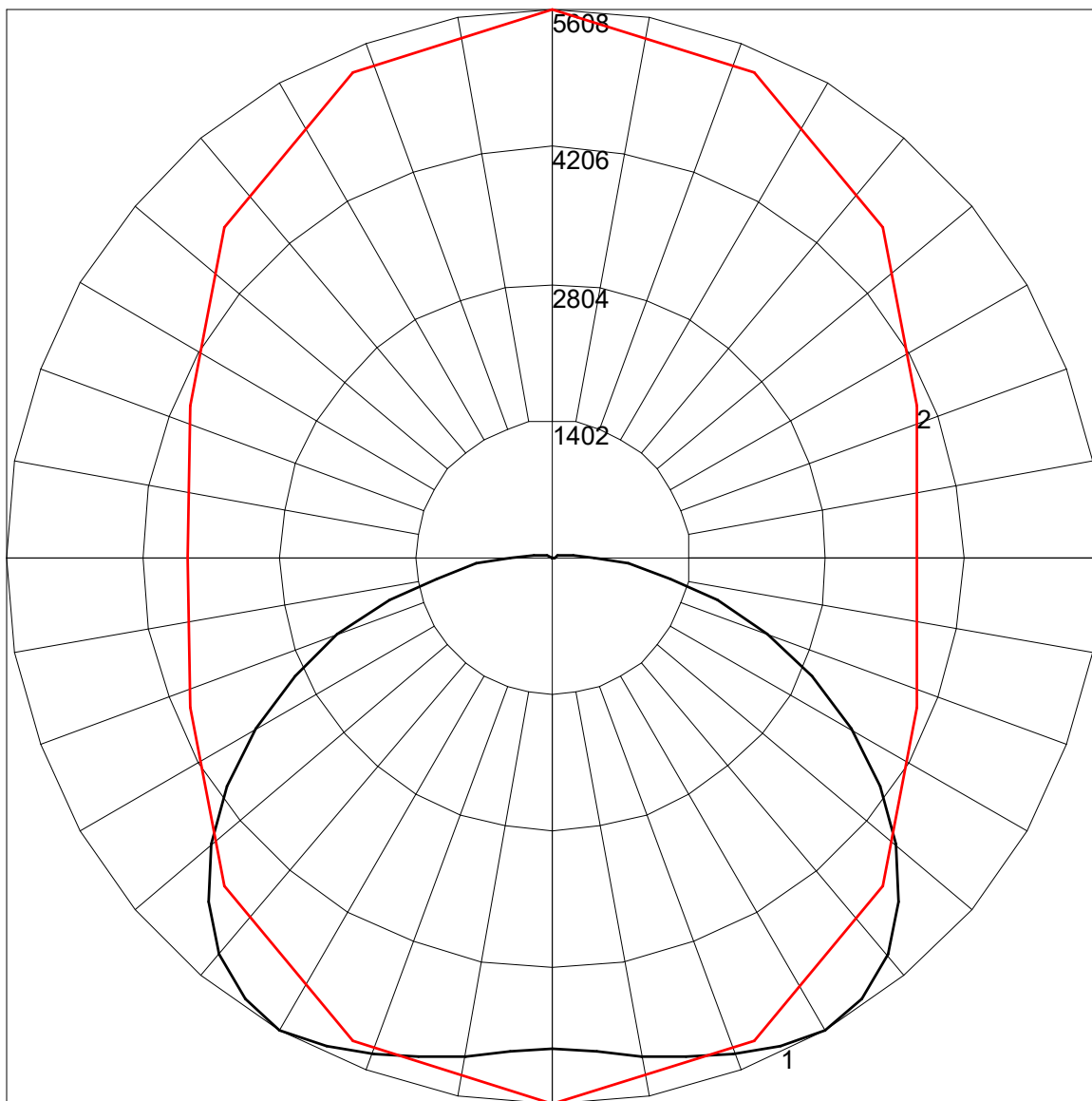
Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

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 = 5607.602 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.)