



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AVX-8-L200-835-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-L200/835-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	20154
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	114
Total Luminaire Watts	177
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	10320	14762	18120
55	9120	14100	17505
65	7527	13029	15894
75	4088	10865	13571
85	1001	8338	11357

IES INDOOR REPORT
 PHOTOMETRIC FILENAME : AVX-8-L200-835-CPC-DIM-UNV_.IES

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	6105.982	6105.982	6105.982	6105.982	6105.982
5	6122.275	6091.725	6108.018	6152.825	6165.045
10	5959.340	5996.001	6130.422	6262.806	6321.870
15	5704.755	5837.139	6134.495	6352.420	6452.218
20	5354.445	5578.480	6061.175	6437.961	6568.309
25	4979.695	5275.014	5977.670	6492.952	6704.767
30	4545.881	4902.301	5804.552	6525.539	6806.601
35	4077.443	4517.367	5556.077	6444.071	6698.657
40	3606.969	4004.123	5244.464	6213.926	6468.512
45	3148.715	3488.841	4835.090	5873.800	6077.468
50	2684.351	2971.523	4370.726	5401.289	5558.113
55	2264.794	2468.462	3867.665	4812.687	4961.365
60	1843.200	2004.098	3327.943	4232.231	4287.222
65	1384.946	1547.881	2771.928	3448.108	3541.795
70	916.508	1128.323	2158.886	2743.415	2845.249
75	466.401	706.730	1572.321	2046.868	2110.006
80	175.155	372.713	1034.636	1386.982	1476.597
85	40.734	128.311	602.859	871.701	947.059
90	0.000	30.550	276.989	466.401	521.391
95	0.000	0.000	81.467	201.632	238.292
100	0.000	0.000	10.183	50.917	67.211
105	0.000	0.000	0.000	10.183	14.257
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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : AVX-8-L200-835-CPC-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2308.39	N.A.	11.50
0-30	5028.22	N.A.	24.90
0-40	8446.8	N.A.	41.90
0-60	15370.71	N.A.	76.30
0-80	19410.11	N.A.	96.30
0-90	20012.82	N.A.	99.30
10-90	19428.16	N.A.	96.40
20-40	6138.41	N.A.	30.50
20-50	9760.3	N.A.	48.40
40-70	9461.76	N.A.	46.90
60-80	4039.4	N.A.	20.00
70-80	1501.56	N.A.	7.50
80-90	602.71	N.A.	3.00
90-110	140.74	N.A.	0.70
90-120	140.74	N.A.	0.70
90-130	140.74	N.A.	0.70
90-150	140.74	N.A.	0.70
90-180	140.74	N.A.	0.70
110-180	0.00	N.A.	0.00
0-180	20153.56	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	584.66
10-20	1723.72
20-30	2719.84
30-40	3418.57
40-50	3621.89
50-60	3302.03
60-70	2537.84
70-80	1501.56
80-90	602.71
90-100	132.12
100-110	8.62
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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : AVX-8-L200-835-CPC-DIM-UNV_.IES

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	332	332	332	332	324	324	324	324	309	309	309	295	295	295	283	283	283	277
1	301	287	274	263	293	280	269	258	268	259	250	257	249	242	246	240	234	228
2	273	249	229	212	265	243	225	210	233	218	204	224	211	199	215	204	195	188
3	248	218	194	175	241	213	191	174	204	186	170	196	180	167	189	175	164	157
4	227	192	167	148	220	188	165	146	181	160	144	174	156	142	168	152	140	133
5	208	171	145	126	202	168	144	125	162	140	124	156	137	122	150	134	121	115
6	192	154	128	110	186	151	127	109	146	124	108	141	121	107	136	119	106	100
7	178	139	114	96	172	137	113	96	132	111	95	128	109	94	124	106	93	88
8	165	126	102	86	160	124	101	85	121	100	85	117	98	84	113	96	83	78
9	154	116	92	77	150	114	92	76	111	90	76	107	89	75	104	87	75	70
10	144	107	84	69	140	105	84	69	102	82	69	99	81	68	97	80	68	63

IES INDOOR REPORT
PHOTOMETRIC FILENAME : AVX-8-L200-835-CPC-DIM-UNV_.IES

UGR TABLE - CORRECTED

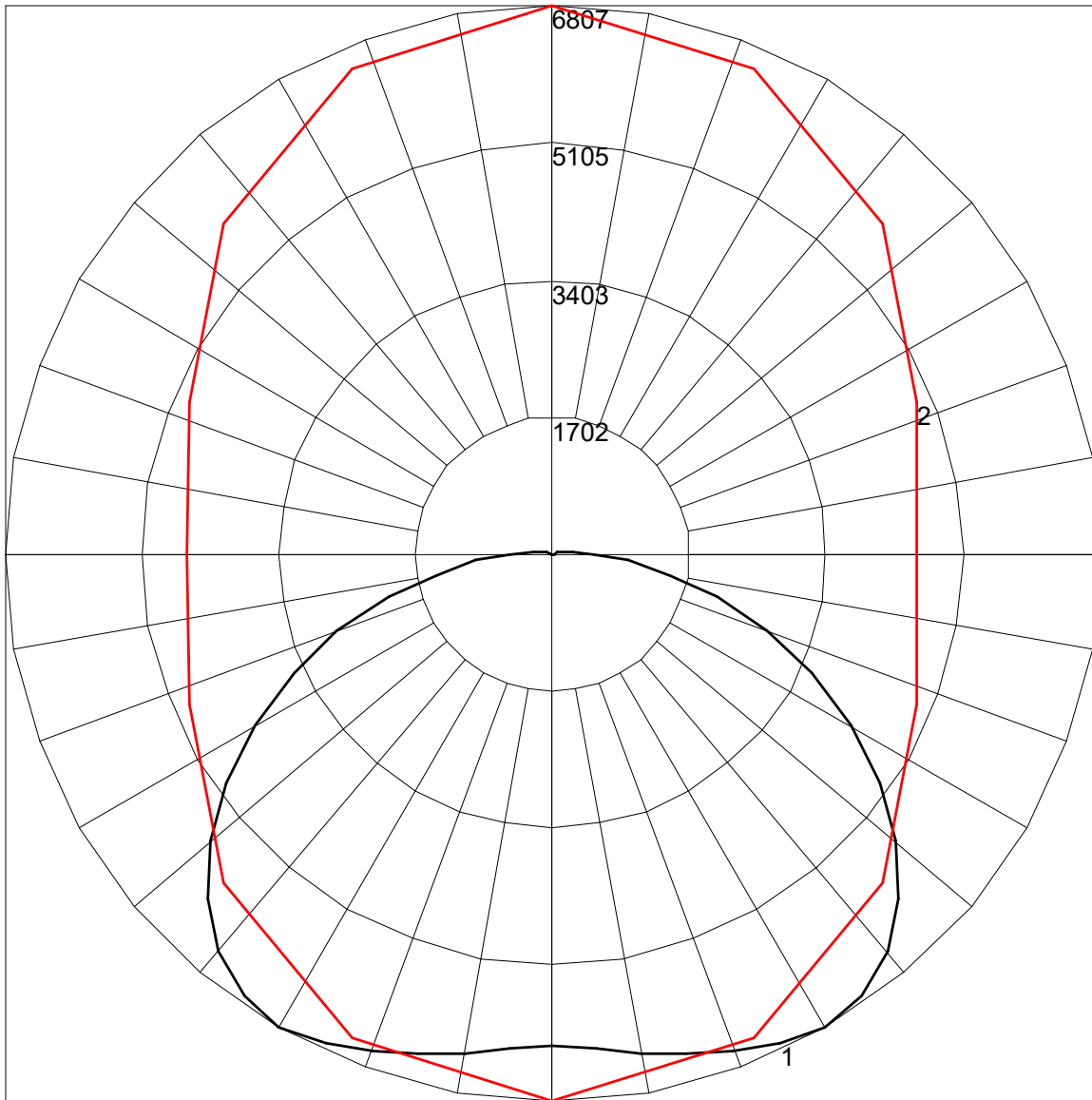
Reflectances

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	14.4	16.1	14.8	16.4	16.7	19.8	21.4	20.2	21.8	22.1
	3H	15.7	17.2	16.1	17.5	17.9	21.8	23.3	22.2	23.6	24.0
	4H	15.9	17.4	16.4	17.7	18.1	22.6	24.0	23.0	24.4	24.8
	6H	16.0	17.4	16.5	17.7	18.1	23.3	24.6	23.7	25.0	25.4
	8H	16.0	17.3	16.5	17.7	18.1	23.6	24.8	24.0	25.3	25.7
	12H	16.0	17.2	16.5	17.6	18.1	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	25.0	25.8	25.5	26.3	26.8
8H	4H	18.9	19.7	19.3	20.2	20.7	23.5	24.4	24.0	24.8	25.3
	6H	19.1	19.9	19.6	20.4	20.9	24.5	25.3	25.0	25.8	26.3
	8H	19.1	19.8	19.7	20.3	20.8	25.0	25.7	25.5	26.2	26.7
	12H	19.2	19.8	19.7	20.3	20.8	25.6	26.2	26.1	26.7	27.2
12H	4H	19.1	19.9	19.6	20.4	20.9	23.5	24.3	24.0	24.8	25.3
	6H	19.4	20.1	20.0	20.6	21.2	24.5	25.2	25.1	25.7	26.2
	8H	19.6	20.2	20.1	20.7	21.2	25.1	25.7	25.6	26.2	26.8

Maximum UGR = 27.2

POLAR GRAPH



Maximum Candela = 6806.601 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.)