



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AVX-8-P108-8TW-CPC-POE 4000K_.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-P108-8TW-CPC-PoE 4000k

[_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	10812
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	107
Total Luminaire Watts	101
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	5537	7920	9721
55	4893	7565	9391
65	4038	6990	8527
75	2193	5829	7281
85	537	4474	6093

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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	3275.833	3275.833	3275.833	3275.833	3275.833
5	3284.575	3268.185	3276.926	3300.965	3307.521
10	3197.161	3216.829	3288.946	3359.969	3391.657
15	3060.577	3131.601	3291.131	3408.047	3461.588
20	2872.637	2992.831	3251.795	3453.939	3523.870
25	2671.585	2830.023	3206.995	3483.441	3597.079
30	2438.846	2630.064	3114.118	3500.924	3651.713
35	2187.531	2423.549	2980.812	3457.217	3593.801
40	1935.124	2148.195	2813.633	3333.745	3470.329
45	1689.272	1871.749	2594.006	3151.269	3260.536
50	1440.143	1594.210	2344.876	2897.769	2981.904
55	1215.052	1324.320	2074.986	2581.986	2661.751
60	988.869	1075.190	1785.428	2270.574	2300.077
65	743.018	830.431	1487.128	1849.895	1900.158
70	491.703	605.341	1158.233	1471.830	1526.464
75	250.222	379.158	843.544	1098.136	1132.009
80	93.970	199.959	555.078	744.110	792.188
85	21.853	68.838	323.431	467.664	508.093
90	0.000	16.390	148.604	250.222	279.724
95	0.000	0.000	43.707	108.175	127.843
100	0.000	0.000	5.463	27.317	36.058
105	0.000	0.000	0.000	5.463	7.649
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	1238.44	N.A.	11.50
0-30	2697.62	N.A.	24.90
0-40	4531.67	N.A.	41.90
0-60	8246.32	N.A.	76.30
0-80	10413.44	N.A.	96.30
0-90	10736.8	N.A.	99.30
10-90	10423.13	N.A.	96.40
20-40	3293.23	N.A.	30.50
20-50	5236.36	N.A.	48.40
40-70	5076.19	N.A.	46.90
60-80	2167.12	N.A.	20.00
70-80	805.58	N.A.	7.50
80-90	323.35	N.A.	3.00
90-110	75.51	N.A.	0.70
90-120	75.51	N.A.	0.70
90-130	75.51	N.A.	0.70
90-150	75.51	N.A.	0.70
90-180	75.51	N.A.	0.70
110-180	0.00	N.A.	0.00
0-180	10812.3	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	313.67
10-20	924.77
20-30	1459.18
30-40	1834.05
40-50	1943.13
50-60	1771.53
60-70	1361.54
70-80	805.58
80-90	323.35
90-100	70.88
100-110	4.63
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	257	257	257	257	251	251	251	251	239	239	239	229	229	229	219	219	219	214
1	233	222	212	204	227	217	208	200	208	200	193	199	193	187	191	186	181	177
2	211	193	177	164	205	188	174	162	180	168	158	173	163	154	166	158	151	146
3	192	168	150	136	186	165	148	134	158	144	132	152	140	129	146	136	127	122
4	175	149	129	114	170	146	127	113	140	124	112	135	121	110	130	118	108	103
5	161	132	112	98	156	130	111	97	125	109	96	121	106	95	116	104	93	89
6	148	119	99	85	144	117	98	84	113	96	84	109	94	83	105	92	82	77
7	137	108	88	75	133	106	87	74	102	86	74	99	84	73	96	82	72	68
8	128	98	79	66	124	96	78	66	93	77	65	90	76	65	88	74	64	60
9	119	90	72	59	116	88	71	59	86	70	59	83	69	58	81	68	58	54
10	112	83	65	54	109	81	65	53	79	64	53	77	63	53	75	62	52	49

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UGR TABLE - CORRECTED

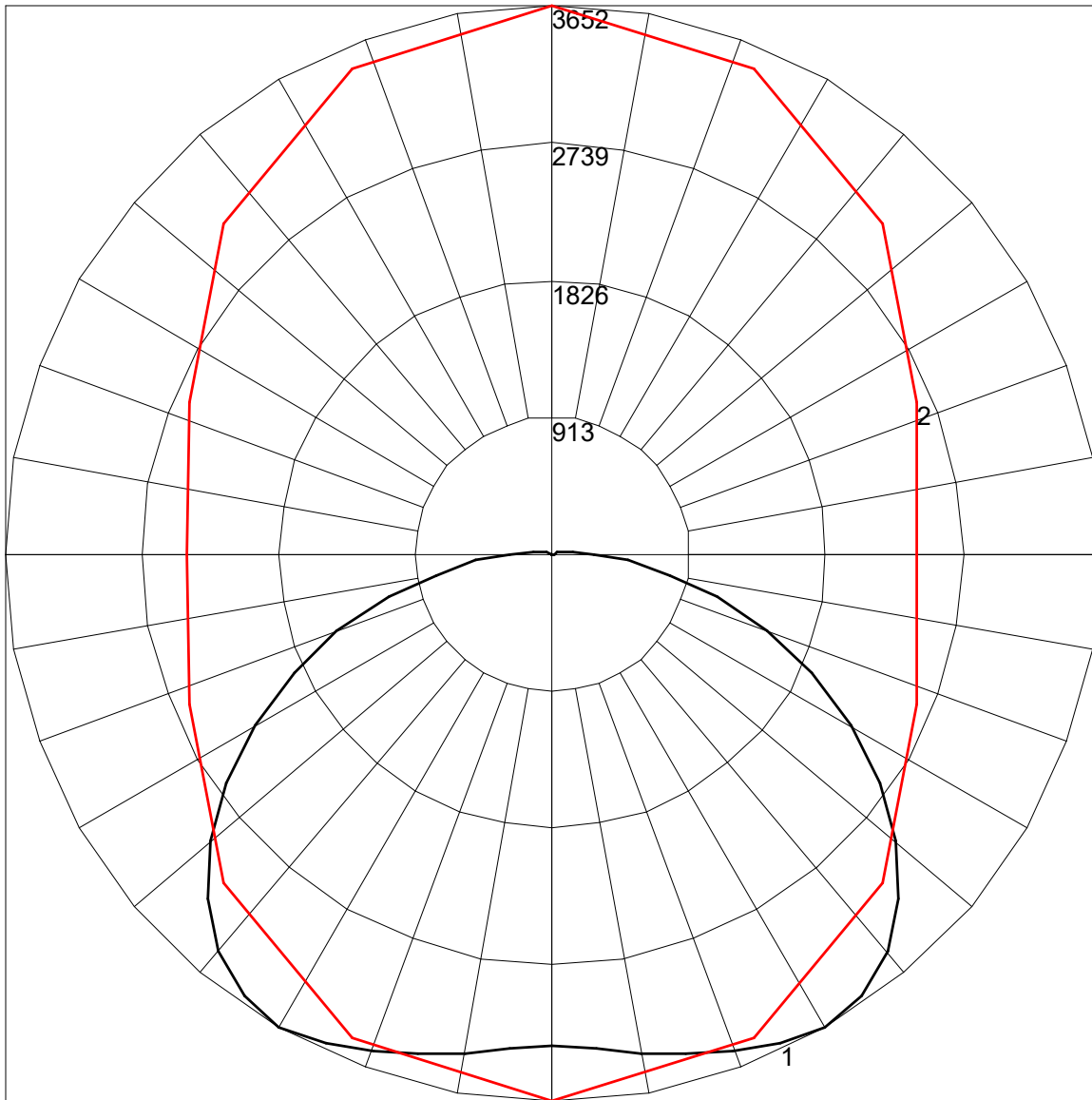
Reflectances

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	13.1	14.8	13.5	15.1	15.4	18.5	20.1	18.9	20.5	20.8
	3H	14.4	15.9	14.8	16.2	16.6	20.5	22.0	20.9	22.3	22.7
	4H	14.6	16.1	15.1	16.4	16.8	21.3	22.7	21.7	23.1	23.5
	6H	14.7	16.1	15.2	16.4	16.8	22.0	23.3	22.4	23.7	24.1
	8H	14.7	16.0	15.2	16.4	16.8	22.3	23.5	22.7	24.0	24.4
	12H	14.7	15.9	15.2	16.3	16.8	22.6	23.8	23.0	24.2	24.6
4H	2H	14.9	16.3	15.3	16.7	17.1	18.8	20.2	19.2	20.6	21.0
	3H	16.3	17.5	16.7	17.9	18.3	21.1	22.2	21.5	22.7	23.1
	4H	16.6	17.6	17.0	18.1	18.5	22.0	23.1	22.5	23.6	24.0
	6H	16.7	17.6	17.2	18.1	18.6	22.9	23.9	23.4	24.3	24.8
	8H	16.7	17.6	17.2	18.0	18.5	23.3	24.2	23.8	24.7	25.2
	12H	16.7	17.5	17.2	18.0	18.5	23.7	24.5	24.2	25.0	25.5
8H	4H	17.6	18.4	18.0	18.9	19.4	22.2	23.1	22.7	23.5	24.0
	6H	17.8	18.6	18.3	19.1	19.6	23.2	24.0	23.7	24.5	25.0
	8H	17.8	18.5	18.4	19.0	19.5	23.7	24.4	24.2	24.9	25.4
	12H	17.9	18.5	18.4	19.0	19.5	24.3	24.9	24.8	25.4	25.9
12H	4H	17.8	18.6	18.3	19.1	19.6	22.2	23.0	22.7	23.5	24.0
	6H	18.1	18.8	18.7	19.3	19.9	23.2	23.9	23.8	24.4	24.9
	8H	18.3	18.9	18.8	19.4	19.9	23.8	24.4	24.3	24.9	25.5

Maximum UGR = 25.9

POLAR GRAPH



Maximum Candela = 3651.713 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.)