



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : AVX-8-P50-8TW-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-P50-8TW-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	5006
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	119
Total Luminaire Watts	42
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	2564	3667	4501
55	2265	3502	4348
65	1870	3237	3948
75	1015	2699	3371
85	249	2071	2821

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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	1516.724	1516.724	1516.724	1516.724	1516.724
5	1520.771	1513.183	1517.230	1528.360	1531.396
10	1480.299	1489.405	1522.795	1555.679	1570.351
15	1417.060	1449.944	1523.807	1577.940	1602.729
20	1330.043	1385.693	1505.594	1599.188	1631.566
25	1236.955	1310.312	1484.852	1612.847	1665.462
30	1129.196	1217.730	1441.849	1620.942	1690.758
35	1012.836	1122.113	1380.128	1600.706	1663.945
40	895.970	994.623	1302.723	1543.538	1606.777
45	782.140	866.627	1201.035	1459.050	1509.641
50	666.792	738.126	1085.687	1341.679	1380.634
55	562.574	613.165	960.727	1195.470	1232.402
60	457.850	497.817	826.660	1051.285	1064.945
65	344.020	384.493	688.546	856.509	879.781
70	227.660	280.275	536.267	681.463	706.759
75	115.854	175.551	390.564	508.442	524.125
80	43.508	92.582	257.003	344.526	366.786
85	10.118	31.872	149.750	216.530	235.249
90	0.000	7.589	68.804	115.854	129.513
95	0.000	0.000	20.236	50.085	59.192
100	0.000	0.000	2.530	12.648	16.695
105	0.000	0.000	0.000	2.530	3.541
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	573.40	N.A.	11.50
0-30	1249.01	N.A.	24.90
0-40	2098.18	N.A.	41.90
0-60	3818.08	N.A.	76.30
0-80	4821.47	N.A.	96.30
0-90	4971.18	N.A.	99.30
10-90	4825.95	N.A.	96.40
20-40	1524.78	N.A.	30.50
20-50	2424.46	N.A.	48.40
40-70	2350.3	N.A.	46.90
60-80	1003.39	N.A.	20.00
70-80	372.99	N.A.	7.50
80-90	149.71	N.A.	3.00
90-110	34.96	N.A.	0.70
90-120	34.96	N.A.	0.70
90-130	34.96	N.A.	0.70
90-150	34.96	N.A.	0.70
90-180	34.96	N.A.	0.70
110-180	0.00	N.A.	0.00
0-180	5006.14	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	145.23
10-20	428.17
20-30	675.61
30-40	849.17
40-50	899.68
50-60	820.22
60-70	630.40
70-80	372.99
80-90	149.71
90-100	32.82
100-110	2.14
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 RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	98	98	98	98	95	95	95	95	91	91	91	87	87	87	83	83	83	82
1	89	85	81	78	86	83	79	76	79	76	74	76	73	71	73	71	69	67
2	80	73	68	63	78	72	66	62	69	64	60	66	62	59	63	60	57	55
3	73	64	57	52	71	63	56	51	60	55	50	58	53	49	56	52	48	46
4	67	57	49	43	65	55	49	43	53	47	42	51	46	42	49	45	41	39
5	61	50	43	37	60	49	42	37	48	41	37	46	40	36	44	39	36	34
6	57	45	38	32	55	44	37	32	43	37	32	41	36	31	40	35	31	29
7	52	41	34	28	51	40	33	28	39	33	28	38	32	28	36	31	28	26
8	49	37	30	25	47	37	30	25	36	29	25	34	29	25	33	28	25	23
9	45	34	27	23	44	34	27	23	33	27	22	32	26	22	31	26	22	21
10	43	31	25	20	41	31	25	20	30	24	20	29	24	20	29	24	20	19

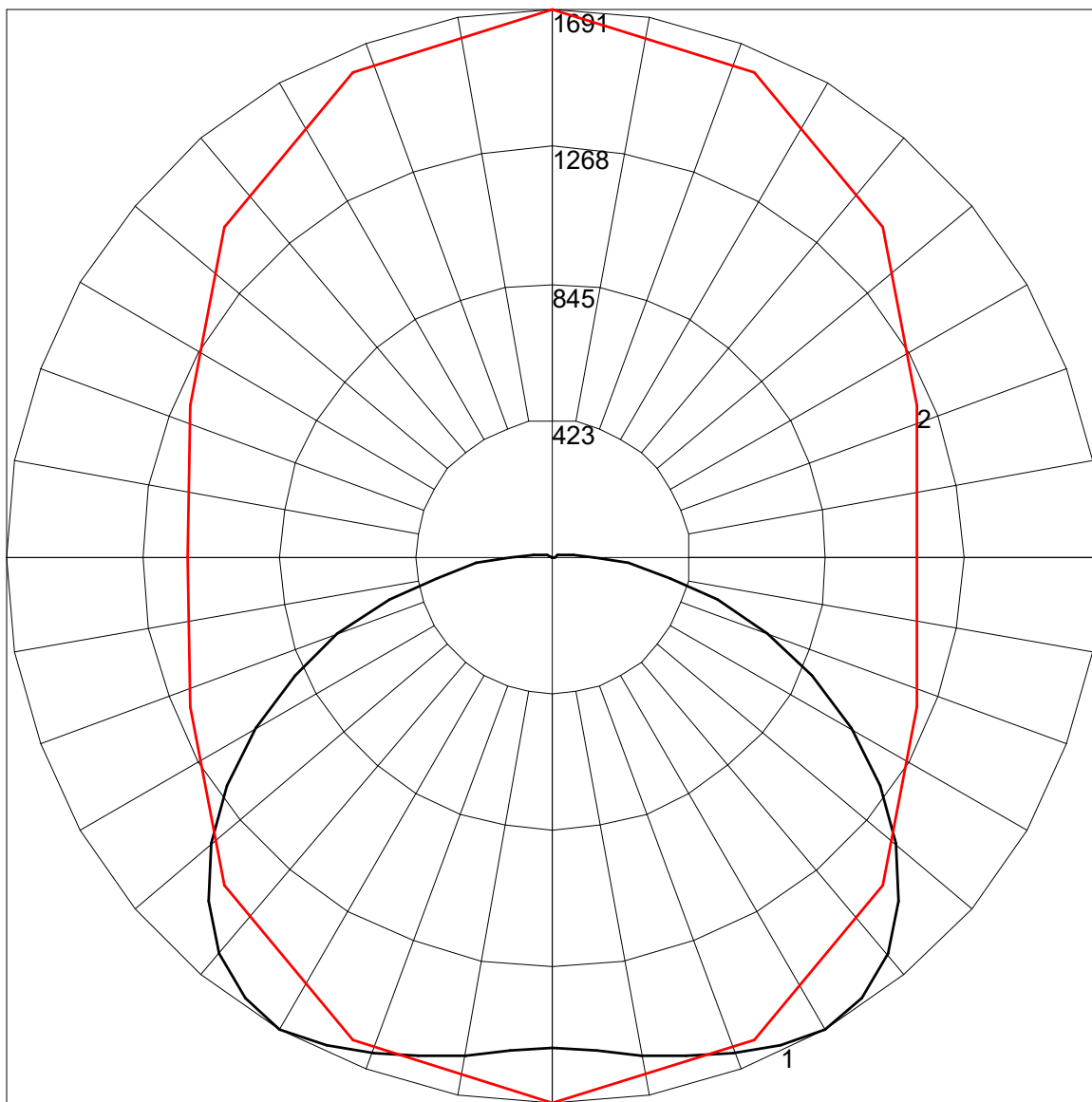
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**UGR TABLE - CORRECTED**

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 = 1690.758 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.)