



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : AVX-4-P25-8TW-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] 4' SURFACE MNT LUMINAIRE

[MORE] WHITE FROST INTERIOR LENS w/CLEAR POLYCARB LENS

[LUMCAT] AVX-4-P25-8TW-CPC-PoE 4000k

[LAMPCAT]HLM 80 CRI, TUNABLE WHITE

[\_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	2503
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	114
Total Luminaire Watts	22
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)	3.90 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	2577	3696	4561
55	2269	3523	4406
65	1862	3245	4001
75	999	2690	3416
85	232	2030	2859

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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	758.362	758.362	758.362	758.362	758.362
5	760.386	756.591	758.615	764.180	765.698
10	740.149	744.702	761.398	777.840	785.175
15	708.530	724.972	761.903	788.970	801.365
20	665.021	692.846	752.797	799.594	815.783
25	618.477	655.156	742.426	806.424	832.731
30	564.598	608.865	720.925	810.471	845.379
35	506.418	561.056	690.064	800.353	831.972
40	447.985	497.312	651.362	771.769	803.388
45	391.070	433.314	600.518	729.525	754.821
50	333.396	369.063	542.844	670.839	690.317
55	281.287	306.583	480.363	597.735	616.201
60	228.925	248.909	413.330	525.643	532.472
65	172.010	192.247	344.273	428.255	439.890
70	113.830	140.138	268.133	340.732	353.380
75	57.927	87.776	195.282	254.221	262.062
80	21.754	46.291	128.502	172.263	183.393
85	5.059	15.936	74.875	108.265	117.625
90	0.000	3.794	34.402	57.927	64.757
95	0.000	0.000	10.118	25.043	29.596
100	0.000	0.000	1.265	6.324	8.348
105	0.000	0.000	0.000	1.265	1.771
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	286.70	N.A.	11.50
0-30	624.50	N.A.	24.90
0-40	1049.09	N.A.	41.90
0-60	1909.04	N.A.	76.30
0-80	2410.73	N.A.	96.30
0-90	2485.59	N.A.	99.30
10-90	2412.98	N.A.	96.40
20-40	762.39	N.A.	30.50
20-50	1212.23	N.A.	48.40
40-70	1175.15	N.A.	46.90
60-80	501.69	N.A.	20.00
70-80	186.49	N.A.	7.50
80-90	74.86	N.A.	3.00
90-110	17.48	N.A.	0.70
90-120	17.48	N.A.	0.70
90-130	17.48	N.A.	0.70
90-150	17.48	N.A.	0.70
90-180	17.48	N.A.	0.70
110-180	0.00	N.A.	0.00
0-180	2503.07	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	72.61
10-20	214.09
20-30	337.80
30-40	424.59
40-50	449.84
50-60	410.11
60-70	315.20
70-80	186.49
80-90	74.86
90-100	16.41
100-110	1.07
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	48	48	48	48	46	46	46	46	44	44	44	42	42	42	41	41	41	40
1	43	41	39	38	42	40	39	37	38	37	36	37	36	35	35	34	34	33
2	39	36	33	30	38	35	32	30	33	31	29	32	30	29	31	29	28	27
3	36	31	28	25	35	31	27	25	29	27	24	28	26	24	27	25	23	23
4	32	28	24	21	32	27	24	21	26	23	21	25	22	20	24	22	20	19
5	30	25	21	18	29	24	21	18	23	20	18	22	20	18	22	19	17	16
6	27	22	18	16	27	22	18	16	21	18	15	20	17	15	19	17	15	14
7	25	20	16	14	25	20	16	14	19	16	14	18	16	13	18	15	13	13
8	24	18	15	12	23	18	15	12	17	14	12	17	14	12	16	14	12	11
9	22	17	13	11	21	16	13	11	16	13	11	15	13	11	15	13	11	10
10	21	15	12	10	20	15	12	10	15	12	10	14	12	10	14	11	10	9

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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	16.4	18.0	16.7	18.3	18.7	21.7	23.3	22.1	23.7	24.0
	3H	17.6	19.1	18.0	19.5	19.8	23.7	25.2	24.1	25.5	25.9
	4H	17.9	19.3	18.3	19.7	20.1	24.5	25.9	24.9	26.2	26.6
	6H	18.0	19.3	18.4	19.7	20.1	25.2	26.5	25.6	26.9	27.3
	8H	18.0	19.2	18.4	19.6	20.1	25.5	26.7	25.9	27.1	27.5
	12H	18.0	19.2	18.4	19.6	20.0	25.8	27.0	26.2	27.4	27.8

UGR Viewed Endwise

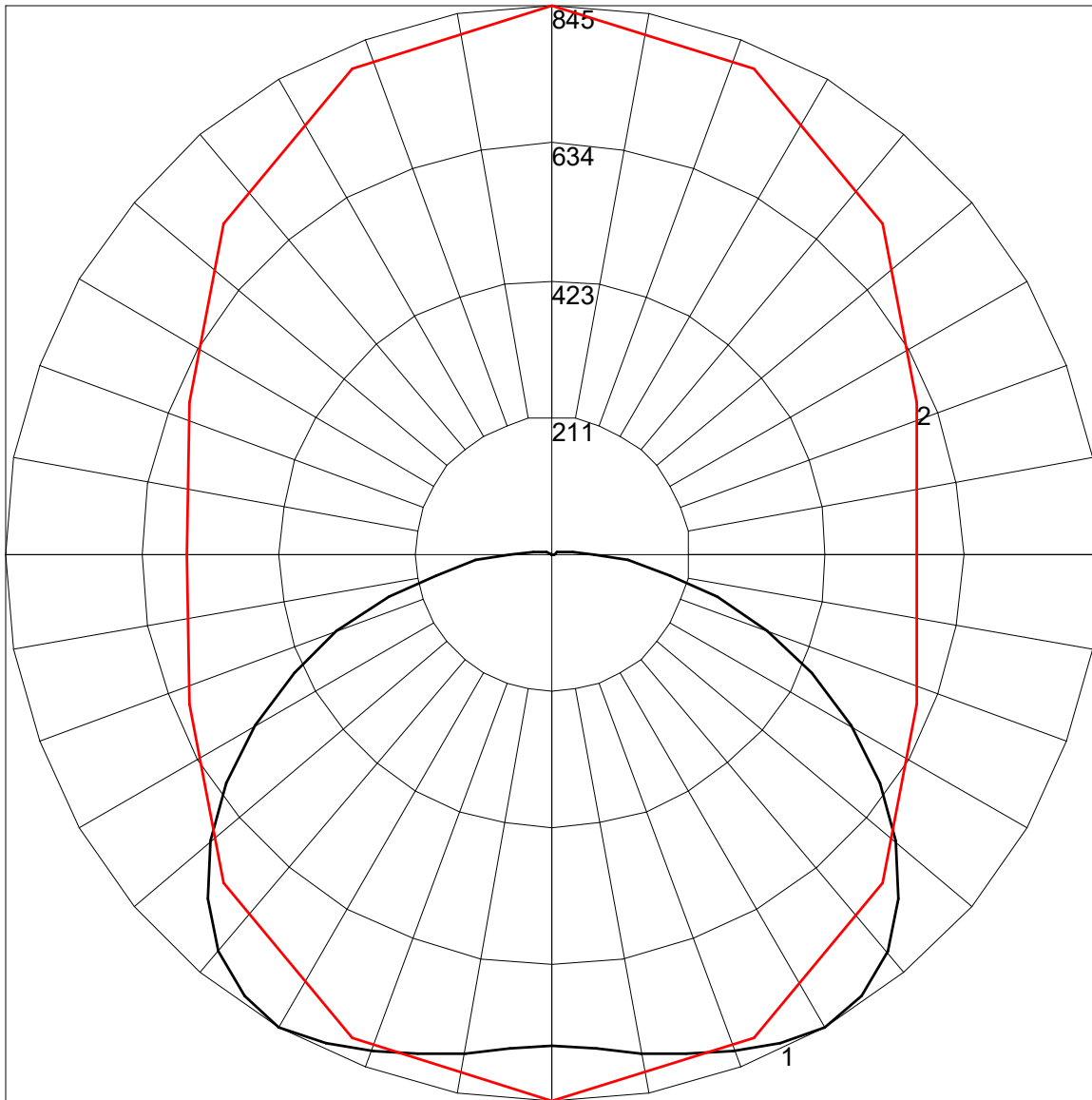
4H	2H	18.1	19.6	18.6	19.9	20.3	22.0	23.4	22.4	23.8	24.2
	3H	19.5	20.7	19.9	21.1	21.5	24.3	25.4	24.7	25.9	26.3
	4H	19.8	20.9	20.2	21.3	21.8	25.2	26.3	25.7	26.8	27.2
	6H	19.9	20.9	20.4	21.3	21.8	26.1	27.1	26.6	27.5	28.0
	8H	19.9	20.8	20.4	21.3	21.8	26.5	27.4	27.0	27.8	28.3
	12H	19.9	20.7	20.4	21.2	21.7	26.9	27.7	27.4	28.2	28.7

8H	4H	20.8	21.7	21.3	22.1	22.6	25.4	26.3	25.9	26.7	27.2
	6H	21.0	21.8	21.6	22.3	22.8	26.4	27.1	26.9	27.6	28.1
	8H	21.1	21.7	21.6	22.3	22.8	26.9	27.6	27.4	28.1	28.6
	12H	21.1	21.7	21.6	22.2	22.8	27.4	28.0	27.9	28.5	29.1

12H	4H	21.0	21.8	21.5	22.3	22.8	25.4	26.2	25.9	26.7	27.2
	6H	21.4	22.0	21.9	22.5	23.1	26.4	27.1	26.9	27.6	28.1
	8H	21.5	22.1	22.0	22.6	23.2	27.0	27.6	27.5	28.1	28.6

Maximum UGR = 29.1

POLAR GRAPH



Maximum Candela = 845.379 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.)