



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : AVX-8-P50-835-CPC-POE\_.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-P50-835-CPC-PoE

[\_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	5036
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	123
Total Luminaire Watts	41
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	2579	3689	4528
55	2279	3523	4374
65	1881	3256	3972
75	1022	2715	3391
85	250	2084	2838

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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	1525.814	1525.814	1525.814	1525.814	1525.814
5	1529.885	1522.251	1526.323	1537.520	1540.573
10	1489.170	1498.331	1531.921	1565.003	1579.762
15	1425.552	1458.633	1532.939	1587.396	1612.334
20	1338.014	1393.997	1514.617	1608.772	1641.344
25	1244.368	1318.165	1493.750	1622.513	1675.443
30	1135.963	1225.028	1450.490	1630.656	1700.891
35	1018.906	1128.838	1388.399	1610.299	1673.917
40	901.340	1000.584	1310.531	1552.788	1616.406
45	786.827	871.821	1208.233	1467.794	1518.689
50	670.788	742.549	1092.194	1349.719	1388.908
55	565.946	616.840	966.484	1202.634	1239.787
60	460.594	500.801	831.614	1057.585	1071.327
65	346.082	386.797	692.673	861.642	885.053
70	229.025	281.955	539.481	685.547	710.995
75	116.548	176.604	392.905	511.489	527.266
80	43.769	93.137	258.544	346.591	368.984
85	10.179	32.063	150.647	217.828	236.659
90	0.000	7.634	69.216	116.548	130.290
95	0.000	0.000	20.358	50.385	59.546
100	0.000	0.000	2.545	12.724	16.795
105	0.000	0.000	0.000	2.545	3.563
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	576.84	N.A.	11.50
0-30	1256.49	N.A.	24.90
0-40	2110.76	N.A.	41.90
0-60	3840.96	N.A.	76.30
0-80	4850.36	N.A.	96.30
0-90	5000.97	N.A.	99.30
10-90	4854.87	N.A.	96.40
20-40	1533.92	N.A.	30.50
20-50	2438.98	N.A.	48.40
40-70	2364.38	N.A.	46.90
60-80	1009.4	N.A.	20.00
70-80	375.22	N.A.	7.50
80-90	150.61	N.A.	3.00
90-110	35.17	N.A.	0.70
90-120	35.17	N.A.	0.70
90-130	35.17	N.A.	0.70
90-150	35.17	N.A.	0.70
90-180	35.17	N.A.	0.70
110-180	0.00	N.A.	0.00
0-180	5036.14	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	146.10
10-20	430.74
20-30	679.66
30-40	854.26
40-50	905.07
50-60	825.14
60-70	634.18
70-80	375.22
80-90	150.61
90-100	33.01
100-110	2.16
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	55	55	55	55	54	54	54	54	52	52	52	49	49	49	47	47	47	46
1	50	48	46	44	49	47	45	43	45	43	42	43	42	40	41	40	39	38
2	46	42	38	35	44	41	38	35	39	36	34	37	35	33	36	34	32	31
3	41	36	32	29	40	36	32	29	34	31	28	33	30	28	31	29	27	26
4	38	32	28	25	37	31	27	24	30	27	24	29	26	24	28	25	23	22
5	35	29	24	21	34	28	24	21	27	23	21	26	23	20	25	22	20	19
6	32	26	21	18	31	25	21	18	24	21	18	23	20	18	23	20	18	17
7	30	23	19	16	29	23	19	16	22	18	16	21	18	16	21	18	16	15
8	28	21	17	14	27	21	17	14	20	17	14	19	16	14	19	16	14	13
9	26	19	15	13	25	19	15	13	18	15	13	18	15	13	17	15	12	12
10	24	18	14	12	23	18	14	12	17	14	11	17	14	11	16	13	11	10

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**UGR TABLE - CORRECTED**

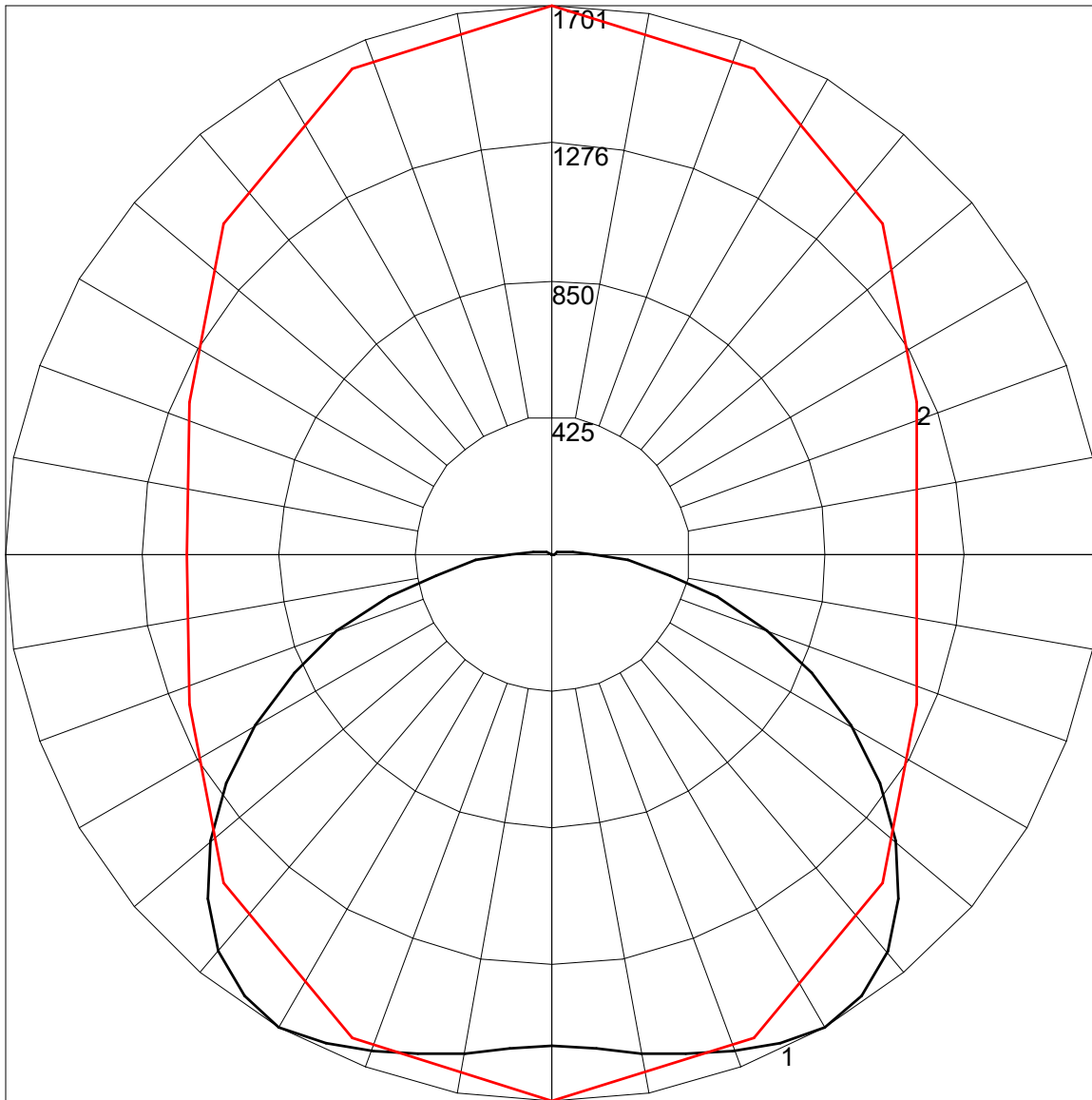
Reflectances

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	15.8	17.5	16.2	17.8	18.1	21.2	22.8	21.6	23.2	23.5
	3H	17.1	18.6	17.5	18.9	19.3	23.2	24.7	23.6	25.0	25.4
	4H	17.3	18.8	17.8	19.1	19.5	24.0	25.4	24.4	25.8	26.2
	6H	17.4	18.8	17.9	19.1	19.6	24.7	26.0	25.1	26.4	26.8
	8H	17.4	18.7	17.9	19.1	19.5	25.0	26.2	25.4	26.7	27.1
	12H	17.4	18.6	17.9	19.0	19.5	25.3	26.5	25.7	26.9	27.3
4H	2H	17.6	19.0	18.0	19.4	19.8	21.5	22.9	21.9	23.3	23.7
	3H	19.0	20.2	19.4	20.6	21.0	23.8	24.9	24.2	25.4	25.8
	4H	19.3	20.3	19.7	20.8	21.2	24.7	25.8	25.2	26.3	26.7
	6H	19.4	20.3	19.9	20.8	21.3	25.6	26.6	26.1	27.0	27.5
	8H	19.4	20.3	19.9	20.7	21.2	26.0	26.9	26.5	27.4	27.9
	12H	19.4	20.2	19.9	20.7	21.2	26.4	27.2	26.9	27.7	28.2
8H	4H	20.3	21.1	20.7	21.6	22.1	24.9	25.8	25.4	26.2	26.7
	6H	20.5	21.3	21.0	21.8	22.3	25.9	26.7	26.4	27.2	27.7
	8H	20.5	21.2	21.1	21.7	22.3	26.4	27.1	26.9	27.6	28.1
	12H	20.6	21.2	21.1	21.7	22.2	27.0	27.6	27.5	28.1	28.6
12H	4H	20.5	21.3	21.0	21.8	22.3	24.9	25.7	25.4	26.2	26.7
	6H	20.8	21.5	21.4	22.0	22.6	25.9	26.6	26.5	27.1	27.6
	8H	21.0	21.6	21.5	22.1	22.6	26.5	27.1	27.0	27.6	28.2

Maximum UGR = 28.6

POLAR GRAPH



Maximum Candela = 1700.891 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.)