



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AVX-4-L36-840-CPC-EM10WLP-DIM-UNV_(EMER MODE).IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]GEN FROM BALLABS TEST NO. 20624.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUE DATE] 06-08-2021
 [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-L36-840-CPC-EM10WLP-DIM-UNV (EMER MODE)
 [LAMPCAT] HLM 80 CRI, 4000K CCT
 [_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	1260
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	126
Total Luminaire Watts	10
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	1297	1861	2296
55	1142	1774	2218
65	938	1634	2014
75	503	1354	1720
85	117	1022	1439

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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	381.756	381.756	381.756	381.756	381.756
5	382.775	380.865	381.884	384.685	385.449
10	372.588	374.880	383.284	391.561	395.254
15	356.671	364.948	383.539	397.164	403.404
20	334.769	348.776	378.955	402.512	410.662
25	311.339	329.803	373.734	405.950	419.193
30	284.216	306.500	362.910	407.988	425.560
35	254.929	282.433	347.375	402.894	418.811
40	225.514	250.345	327.893	388.505	404.422
45	196.863	218.128	302.298	367.240	379.974
50	167.830	185.785	273.265	337.698	347.503
55	141.599	154.332	241.813	300.897	310.193
60	115.240	125.300	208.069	264.606	268.044
65	86.589	96.776	173.306	215.582	221.439
70	57.302	70.545	134.977	171.523	177.890
75	29.160	44.186	98.304	127.974	131.921
80	10.951	23.303	64.687	86.716	92.319
85	2.547	8.022	37.692	54.500	59.212
90	0.000	1.910	17.318	29.160	32.598
95	0.000	0.000	5.093	12.606	14.898
100	0.000	0.000	0.637	3.183	4.202
105	0.000	0.000	0.000	0.637	0.891
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-4-L36-840-CPC-EM10WLP-DIM-UNV_(EMER MODE).IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	144.32	N.A.	11.50
0-30	314.37	N.A.	24.90
0-40	528.11	N.A.	41.90
0-60	961.00	N.A.	76.30
0-80	1213.55	N.A.	96.30
0-90	1251.24	N.A.	99.30
10-90	1214.68	N.A.	96.40
20-40	383.78	N.A.	30.50
20-50	610.23	N.A.	48.40
40-70	591.57	N.A.	46.90
60-80	252.55	N.A.	20.00
70-80	93.88	N.A.	7.50
80-90	37.68	N.A.	3.00
90-110	8.80	N.A.	0.70
90-120	8.80	N.A.	0.70
90-130	8.80	N.A.	0.70
90-150	8.80	N.A.	0.70
90-180	8.80	N.A.	0.70
110-180	0.00	N.A.	0.00
0-180	1260.03	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	36.55
10-20	107.77
20-30	170.05
30-40	213.73
40-50	226.45
50-60	206.45
60-70	158.67
70-80	93.88
80-90	37.68
90-100	8.26
100-110	0.54
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	101	101	101	99
1	108	103	98	94	105	100	96	93	96	93	90	92	89	87	88	86	84	82
2	98	89	82	76	95	87	81	75	84	78	73	80	75	71	77	73	70	67
3	89	78	70	63	86	76	68	62	73	66	61	70	65	60	68	63	59	56
4	81	69	60	53	79	67	59	52	65	57	52	62	56	51	60	55	50	48
5	75	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39	50	43	38	49	43	38	36
7	64	50	41	35	62	49	40	34	47	40	34	46	39	34	44	38	33	31
8	59	45	37	31	57	45	36	31	43	36	30	42	35	30	41	34	30	28
9	55	42	33	27	54	41	33	27	40	32	27	39	32	27	37	31	27	25
10	52	38	30	25	50	38	30	25	37	29	25	36	29	24	35	29	24	22

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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	10.8	12.4	11.1	12.8	13.1	16.1	17.7	16.5	18.1	18.4
	3H	12.0	13.5	12.4	13.9	14.2	18.1	19.6	18.5	19.9	20.3
	4H	12.3	13.7	12.7	14.1	14.5	18.9	20.3	19.3	20.7	21.0
	6H	12.4	13.7	12.8	14.1	14.5	19.6	20.9	20.0	21.3	21.7
	8H	12.4	13.6	12.8	14.0	14.5	19.9	21.1	20.3	21.5	21.9
	12H	12.4	13.6	12.8	14.0	14.4	20.2	21.4	20.6	21.8	22.2

UGR Viewed Endwise

4H	2H	12.5	14.0	13.0	14.3	14.7	16.4	17.8	16.8	18.2	18.6
	3H	13.9	15.1	14.3	15.5	15.9	18.7	19.8	19.1	20.3	20.7
	4H	14.2	15.3	14.6	15.7	16.2	19.6	20.7	20.1	21.2	21.6
	6H	14.3	15.3	14.8	15.7	16.2	20.5	21.5	21.0	21.9	22.4
	8H	14.3	15.2	14.8	15.7	16.2	20.9	21.8	21.4	22.2	22.7
	12H	14.3	15.1	14.8	15.6	16.1	21.3	22.1	21.8	22.6	23.1

8H	4H	15.2	16.1	15.7	16.5	17.0	19.8	20.7	20.3	21.1	21.6
	6H	15.4	16.2	16.0	16.7	17.2	20.8	21.5	21.3	22.0	22.5
	8H	15.5	16.1	16.0	16.7	17.2	21.3	22.0	21.8	22.5	23.0
	12H	15.5	16.1	16.0	16.6	17.2	21.8	22.4	22.3	22.9	23.5

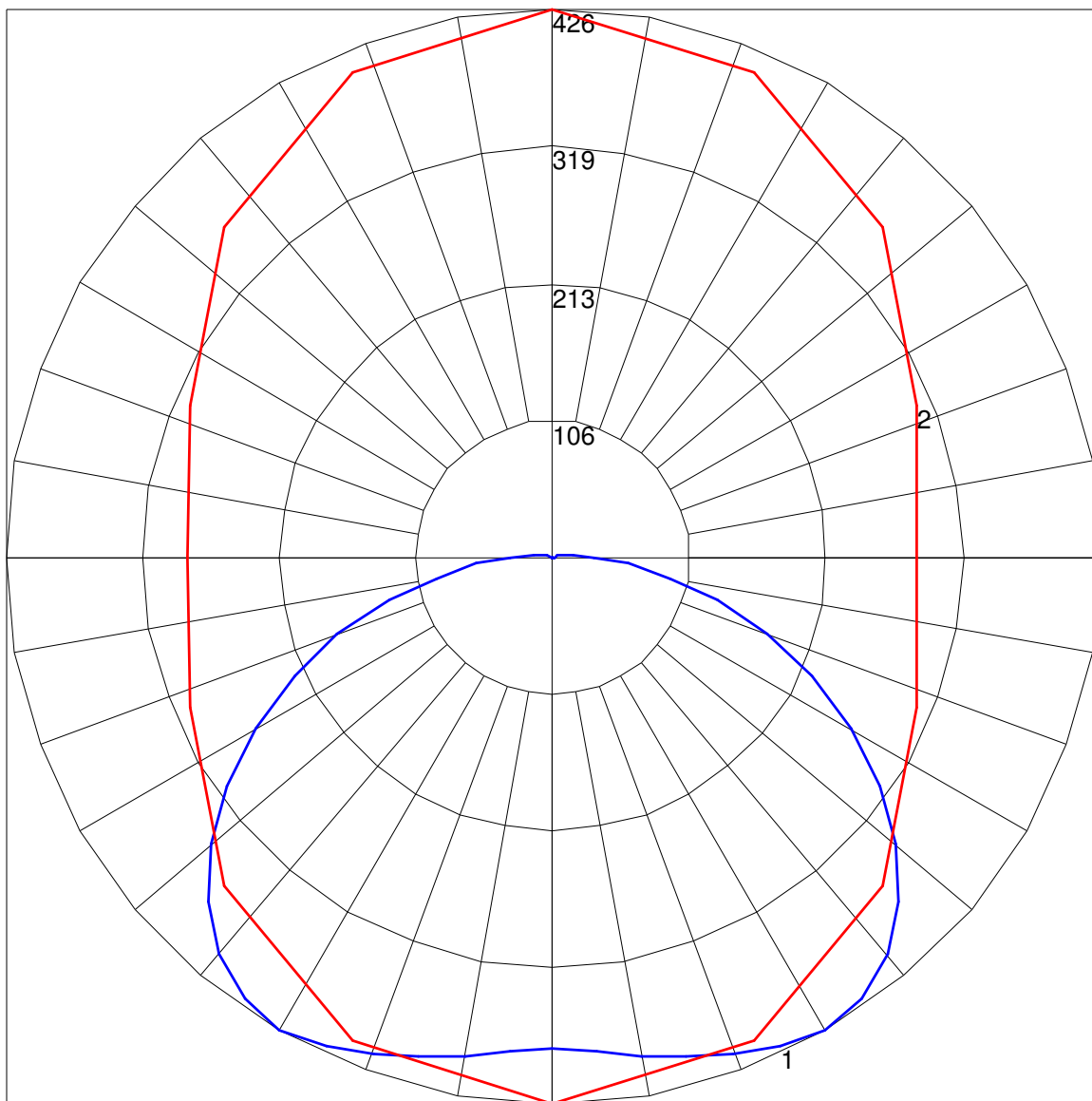
12H	4H	15.4	16.2	15.9	16.7	17.2	19.8	20.6	20.3	21.1	21.6
	6H	15.8	16.4	16.3	16.9	17.5	20.8	21.5	21.3	22.0	22.5
	8H	15.9	16.5	16.4	17.0	17.6	21.4	22.0	21.9	22.5	23.0

Maximum UGR = 23.5

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POLAR GRAPH



Maximum Candela = 425.56 Located At Horizontal Angle = 90, Vertical Angle = 30

1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)

2 - Horizontal Cone Through Vertical Angle (30) (Through Max. Cd.)