



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AVX-4-L36-835-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
 [ISSUEDATE] 11-04-2020
 [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-L36/835-CPC-EM10WLP-DIM-UNV (EMER MODE)
 [LAMPCAT] HLM 80 CRI, 3500K 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	1240
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	124
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	1277	1831	2260
55	1124	1745	2183
65	923	1608	1982
75	495	1333	1692
85	115	1005	1416

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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	375.697	375.697	375.697	375.697	375.697
5	376.699	374.820	375.822	378.579	379.331
10	366.674	368.930	377.201	385.346	388.980
15	351.010	359.155	377.451	390.860	397.000
20	329.455	343.240	372.940	396.123	404.143
25	306.397	324.568	367.802	399.507	412.540
30	279.705	301.635	357.150	401.512	418.805
35	250.882	277.950	341.862	396.499	412.164
40	221.934	246.371	322.688	382.339	398.003
45	193.738	214.666	297.500	361.411	373.942
50	165.166	182.836	268.928	332.338	341.987
55	139.351	151.883	237.975	296.121	305.269
60	113.411	123.311	204.766	260.406	263.790
65	85.215	95.240	170.555	212.160	217.924
70	56.392	69.425	132.835	168.800	175.066
75	28.697	43.485	96.744	125.942	129.827
80	10.777	22.933	63.660	85.340	90.854
85	2.506	7.895	37.093	53.635	58.272
90	0.000	1.880	17.043	28.697	32.081
95	0.000	0.000	5.013	12.406	14.662
100	0.000	0.000	0.627	3.133	4.135
105	0.000	0.000	0.000	0.627	0.877
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-L36-835-CPC-EM10WLP-DIM-UNV_(EMER MODE).IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	142.03	N.A.	11.50
0-30	309.38	N.A.	24.90
0-40	519.73	N.A.	41.90
0-60	945.75	N.A.	76.30
0-80	1194.29	N.A.	96.30
0-90	1231.38	N.A.	99.30
10-90	1195.4	N.A.	96.40
20-40	377.69	N.A.	30.50
20-50	600.54	N.A.	48.40
40-70	582.18	N.A.	46.90
60-80	248.54	N.A.	20.00
70-80	92.39	N.A.	7.50
80-90	37.08	N.A.	3.00
90-110	8.66	N.A.	0.70
90-120	8.66	N.A.	0.70
90-130	8.66	N.A.	0.70
90-150	8.66	N.A.	0.70
90-180	8.66	N.A.	0.70
110-180	0.00	N.A.	0.00
0-180	1240.03	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	35.97
10-20	106.06
20-30	167.35
30-40	210.34
40-50	222.85
50-60	203.17
60-70	156.15
70-80	92.39
80-90	37.08
90-100	8.13
100-110	0.53
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

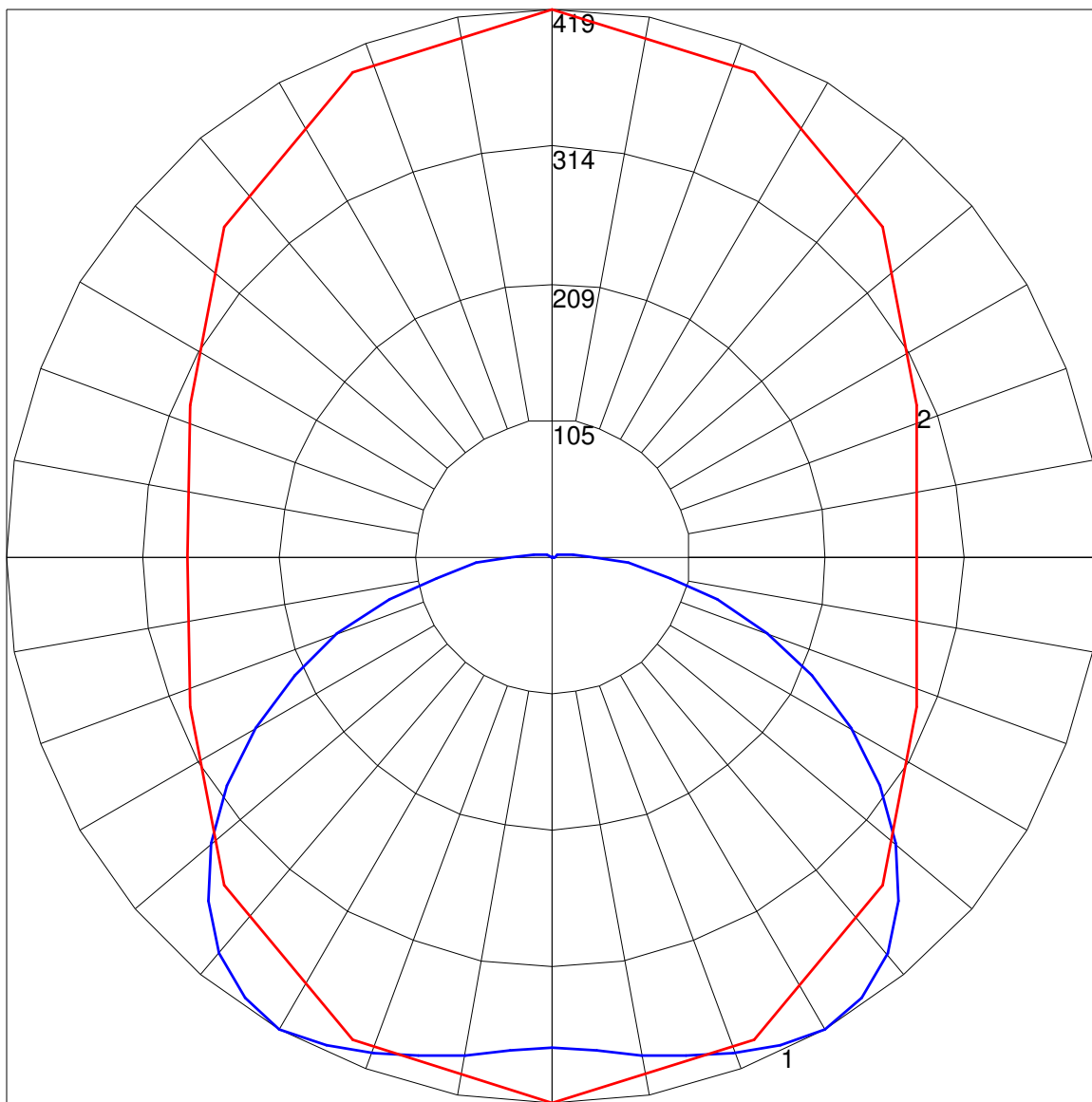
4H	2H	12.5	14.0	13.0	14.3	14.7	16.4	17.8	16.8	18.2	18.6
	3H	13.9	15.1	14.3	15.5	15.9	18.7	19.8	19.1	20.3	20.7
	4H	14.2	15.3	14.6	15.7	16.2	19.6	20.7	20.1	21.2	21.6
	6H	14.3	15.3	14.8	15.7	16.2	20.5	21.5	21.0	21.9	22.4
	8H	14.3	15.2	14.8	15.7	16.2	20.9	21.8	21.4	22.2	22.7
	12H	14.3	15.1	14.8	15.6	16.1	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 = 418.805 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.)