

IES INDOOR REPORT

PHOTOMETRIC FILENAME : AVX-4-L62-840-CPC-EM10WLP-(L40)-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] 08-29-2023

[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-L62-840-CPC-EM10WLP-(L40)-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	1285
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	128
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	1323	1897	2341
55	1165	1808	2262
65	956	1666	2054
75	513	1381	1754
85	119	1042	1467

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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	389.270	389.270	389.270	389.270	389.270
5	390.308	388.361	389.399	392.256	393.035
10	379.921	382.258	390.828	399.268	403.033
15	363.691	372.130	391.087	404.981	411.343
20	341.358	355.640	386.413	410.434	418.744
25	317.466	336.294	381.090	413.940	427.443
30	289.810	312.532	370.053	416.017	433.936
35	259.946	287.992	354.212	410.824	427.054
40	229.952	255.272	334.346	396.151	412.382
45	200.737	222.421	308.248	374.468	387.452
50	171.133	189.441	278.643	344.344	354.342
55	144.386	157.370	246.572	306.819	316.298
60	117.508	127.766	212.164	269.814	273.320
65	88.293	98.681	176.716	219.824	225.797
70	58.429	71.933	137.634	174.899	181.391
75	29.734	45.056	100.239	130.492	134.517
80	11.167	23.761	65.960	88.423	94.136
85	2.597	8.180	38.434	55.573	60.377
90	0.000	1.948	17.659	29.734	33.240
95	0.000	0.000	5.194	12.854	15.192
100	0.000	0.000	0.649	3.246	4.285
105	0.000	0.000	0.000	0.649	0.909
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-L62-840-CPC-EM10WLP-(L40)-DIM-UNV (EMER MODE)_IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	147.16	N.A.	11.50
0-30	320.56	N.A.	24.90
0-40	538.50	N.A.	41.90
0-60	979.92	N.A.	76.30
0-80	1237.44	N.A.	96.30
0-90	1275.86	N.A.	99.30
10-90	1238.59	N.A.	96.40
20-40	391.34	N.A.	30.50
20-50	622.24	N.A.	48.40
40-70	603.21	N.A.	46.90
60-80	257.52	N.A.	20.00
70-80	95.73	N.A.	7.50
80-90	38.42	N.A.	3.00
90-110	8.97	N.A.	0.70
90-120	8.97	N.A.	0.70
90-130	8.97	N.A.	0.70
90-150	8.97	N.A.	0.70
90-180	8.97	N.A.	0.70
110-180	0.00	N.A.	0.00
0-180	1284.83	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	37.27
10-20	109.89
20-30	173.40
30-40	217.94
40-50	230.90
50-60	210.51
60-70	161.79
70-80	95.73
80-90	38.42
90-100	8.42
100-110	0.55
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	83	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	10.9	12.5	11.2	12.8	13.2	16.2	17.8	16.6	18.2	18.5
	3H	12.1	13.6	12.5	14.0	14.3	18.2	19.7	18.6	20.0	20.4
	4H	12.4	13.8	12.8	14.2	14.6	19.0	20.4	19.4	20.7	21.1
	6H	12.5	13.8	12.9	14.2	14.6	19.7	21.0	20.1	21.4	21.8
	8H	12.5	13.7	12.9	14.1	14.6	20.0	21.2	20.4	21.6	22.0
	12H	12.5	13.7	12.9	14.1	14.5	20.3	21.5	20.7	21.9	22.3

UGR Viewed Endwise

4H	2H	12.6	14.1	13.1	14.4	14.8	16.5	17.9	16.9	18.3	18.7
	3H	14.0	15.2	14.4	15.6	16.0	18.8	19.9	19.2	20.4	20.8
	4H	14.3	15.4	14.7	15.8	16.3	19.7	20.8	20.2	21.3	21.7
	6H	14.4	15.4	14.9	15.8	16.3	20.6	21.6	21.1	22.0	22.5
	8H	14.4	15.3	14.9	15.8	16.3	21.0	21.9	21.5	22.3	22.8
	12H	14.4	15.2	14.9	15.7	16.2	21.4	22.2	21.9	22.7	23.2

8H	4H	15.3	16.2	15.8	16.6	17.1	19.9	20.8	20.4	21.2	21.7
	6H	15.5	16.3	16.1	16.8	17.3	20.9	21.6	21.4	22.1	22.6
	8H	15.6	16.2	16.1	16.8	17.3	21.4	22.1	21.9	22.6	23.1
	12H	15.6	16.2	16.1	16.7	17.3	21.9	22.5	22.4	23.0	23.6

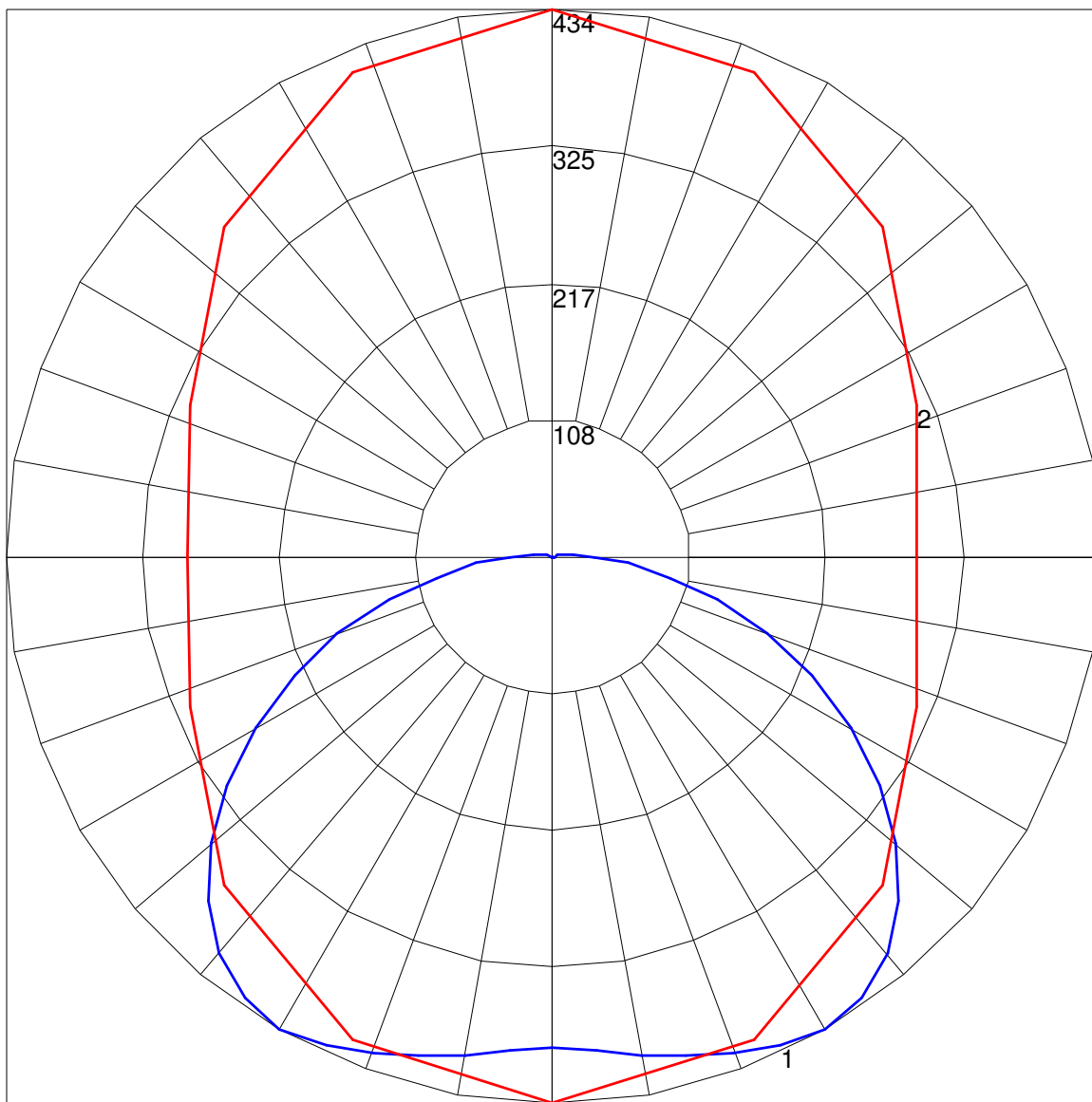
12H	4H	15.5	16.3	16.0	16.8	17.3	19.9	20.7	20.4	21.2	21.7
	6H	15.9	16.5	16.4	17.0	17.6	20.9	21.6	21.4	22.1	22.6
	8H	16.0	16.6	16.5	17.1	17.7	21.5	22.1	22.0	22.6	23.1

Maximum UGR = 23.6

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POLAR GRAPH



Maximum Candela = 433.936 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.)