



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AVX-4-L62-835-CPC-(L47)-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM BALLABS TEST NO. 20806.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 28-OCT-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-L62-835-CPC-(L47)-DIM-UNV

[LAMPCAT] HLM 80 CRI, 3500K CCT

[_SEARCH_SOURCETYPE] LED

[_SEARCH_APPLICATION] INDOOR, ARCHITECTURAL, COMMERCIAL, DIRECT

[_SEARCH_MOUNTING] SURFACE, SUSPENDED

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4652
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	122
Total Luminaire Watts	38
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.14
Spacing Criterion (90-270)	1.62
Spacing Criterion (Diagonal)	1.50
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	3.91 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	4688	6777	8613
55	3981	6389	8463
65	3244	5738	7927
75	1750	4586	7028
85	328	3512	5880

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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	1413.314	1413.314	1413.314	1413.314	1413.314
5	1425.728	1402.332	1405.197	1410.449	1411.882
10	1389.918	1375.116	1396.603	1425.728	1436.710
15	1330.234	1326.414	1387.053	1449.602	1475.385
20	1256.226	1267.208	1369.864	1474.430	1508.808
25	1163.597	1195.587	1350.288	1485.890	1538.889
30	1059.986	1109.165	1311.135	1496.872	1564.195
35	944.915	1013.671	1254.316	1479.205	1547.006
40	830.800	904.330	1186.993	1430.503	1495.439
45	713.342	787.350	1103.913	1359.837	1429.071
50	597.316	675.621	995.050	1269.595	1322.595
55	494.660	561.028	873.294	1131.129	1186.515
60	396.778	449.300	741.035	996.482	1043.752
65	300.329	350.941	610.208	844.169	873.772
70	196.241	250.672	472.219	672.757	699.972
75	101.701	159.953	333.752	506.597	540.497
80	39.153	84.035	222.501	348.076	376.247
85	7.162	31.991	129.872	221.069	242.555
90	0.000	7.162	63.981	129.872	137.989
95	0.000	0.477	22.441	58.251	67.323
100	0.000	0.000	3.342	17.666	22.441
105	0.000	0.000	0.000	2.865	3.820
110	0.000	0.000	0.000	0.000	2.387
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-L62-835-CPC-(L47)-DIM-UNV_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	527.95	N.A.	11.30
0-30	1148.9	N.A.	24.70
0-40	1928.91	N.A.	41.50
0-60	3523.19	N.A.	75.70
0-80	4466.33	N.A.	96.00
0-90	4612.64	N.A.	99.20
10-90	4478.31	N.A.	96.30
20-40	1400.96	N.A.	30.10
20-50	2233.27	N.A.	48.00
40-70	2184.51	N.A.	47.00
60-80	943.14	N.A.	20.30
70-80	352.91	N.A.	7.60
80-90	146.31	N.A.	3.10
90-110	39.20	N.A.	0.80
90-120	39.27	N.A.	0.80
90-130	39.27	N.A.	0.80
90-150	39.27	N.A.	0.80
90-180	39.27	N.A.	0.80
110-180	0.08	N.A.	0.00
0-180	4651.92	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	134.33
10-20	393.62
20-30	620.95
30-40	780.01
40-50	832.31
50-60	761.97
60-70	590.23
70-80	352.91
80-90	146.31
90-100	36.33
100-110	2.87
110-120	0.08
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	92	96	92	89	92	89	86	88	86	84	81
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	69	67
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	67	62	58	56
4	81	69	60	53	79	67	59	52	65	57	51	62	56	51	60	54	50	47
5	74	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	38	50	43	38	48	42	38	35
7	63	50	41	34	62	49	40	34	47	39	34	46	39	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	30	28
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25
10	52	38	30	25	50	38	30	25	36	29	24	35	29	24	34	28	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	15.1	16.7	15.4	17.0	17.4	20.8	22.4	21.1	22.7	23.1
	3H	16.2	17.8	16.6	18.1	18.5	22.8	24.3	23.2	24.7	25.1
	4H	16.5	17.9	16.9	18.3	18.7	23.7	25.1	24.1	25.5	25.9
	6H	16.6	17.9	17.1	18.3	18.7	24.5	25.8	24.9	26.2	26.6
	8H	16.6	17.9	17.1	18.3	18.7	24.8	26.1	25.2	26.5	26.9
	12H	16.6	17.8	17.0	18.2	18.7	25.1	26.3	25.5	26.7	27.2

UGR Viewed Endwise

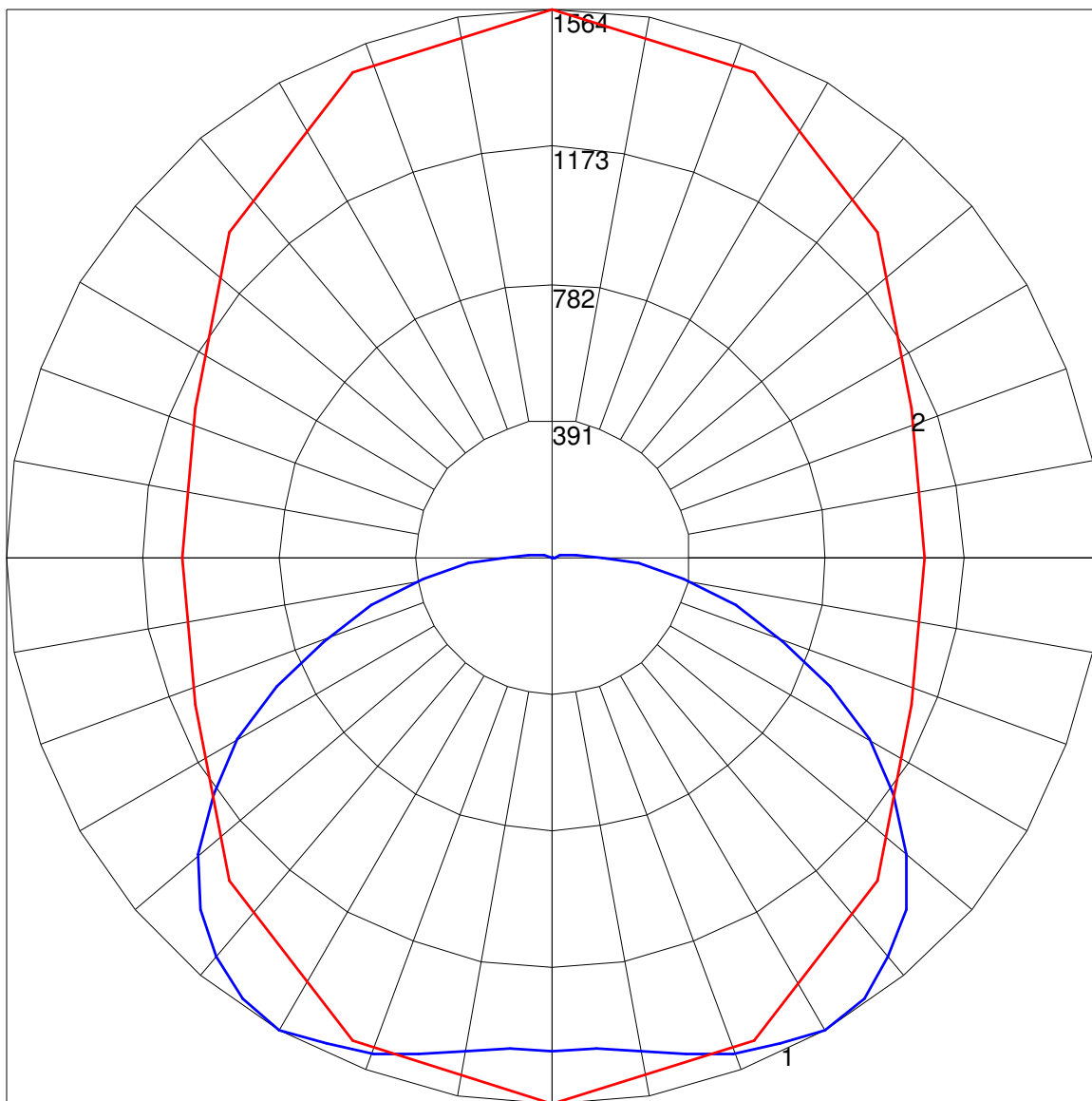
4H	2H	16.8	18.2	17.2	18.6	19.0	21.0	22.4	21.4	22.8	23.2
	3H	18.1	19.3	18.5	19.7	20.1	23.4	24.6	23.8	25.0	25.4
	4H	18.4	19.5	18.9	19.9	20.4	24.5	25.5	24.9	26.0	26.4
	6H	18.5	19.5	19.0	20.0	20.4	25.4	26.3	25.9	26.8	27.3
	8H	18.6	19.4	19.0	19.9	20.4	25.8	26.7	26.3	27.2	27.7
	12H	18.5	19.3	19.0	19.8	20.3	26.2	27.0	26.7	27.5	28.0

8H	4H	19.4	20.3	19.9	20.8	21.3	24.6	25.5	25.0	25.9	26.4
	6H	19.7	20.4	20.2	20.9	21.4	25.7	26.4	26.2	26.9	27.4
	8H	19.7	20.4	20.2	20.9	21.4	26.2	26.9	26.7	27.4	27.9
	12H	19.7	20.3	20.2	20.8	21.4	26.7	27.3	27.3	27.8	28.4

12H	4H	19.7	20.5	20.2	21.0	21.4	24.6	25.4	25.0	25.8	26.3
	6H	20.0	20.7	20.6	21.2	21.7	25.7	26.3	26.2	26.8	27.4
	8H	20.1	20.7	20.7	21.2	21.8	26.2	26.8	26.8	27.3	27.9

Maximum UGR = 28.4

POLAR GRAPH



Maximum Candela = 1564.195 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.)