



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : AVX-4-L62-840-CPC-DIM-UNV\_.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] 03-JUN-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-L62/840-CPC-DIM-UNV

[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	6441
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	113
Total Luminaire Watts	57
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	6631	9511	11737
55	5840	9066	11339
65	4793	8352	10295
75	2572	6923	8791
85	597	5223	7356

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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	1951.503	1951.503	1951.503	1951.503	1951.503
5	1956.710	1946.946	1952.154	1966.474	1970.380
10	1904.635	1916.352	1959.314	2001.625	2020.502
15	1823.268	1865.579	1960.616	2030.266	2062.161
20	1711.308	1782.910	1937.182	2057.605	2099.265
25	1591.536	1685.921	1910.494	2075.180	2142.877
30	1452.887	1566.800	1855.164	2085.595	2175.424
35	1303.172	1443.773	1775.750	2059.558	2140.925
40	1152.806	1279.738	1676.157	1986.002	2067.369
45	1006.345	1115.051	1545.319	1877.296	1942.389
50	857.932	949.714	1396.906	1726.279	1776.401
55	723.840	788.933	1236.125	1538.159	1585.677
60	589.096	640.520	1063.627	1352.643	1370.218
65	442.636	494.710	885.922	1102.033	1131.976
70	292.921	360.618	689.991	876.809	909.356
75	149.064	225.874	502.522	654.189	674.368
80	55.980	119.121	330.675	443.287	471.928
85	13.019	41.009	192.677	278.600	302.685
90	0.000	9.764	88.527	149.064	166.639
95	0.000	0.000	26.037	64.443	76.159
100	0.000	0.000	3.255	16.273	21.481
105	0.000	0.000	0.000	3.255	4.557
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	737.77	N.A.	11.50
0-30	1607.05	N.A.	24.90
0-40	2699.64	N.A.	41.90
0-60	4912.56	N.A.	76.30
0-80	6203.57	N.A.	96.30
0-90	6396.2	N.A.	99.30
10-90	6209.34	N.A.	96.40
20-40	1961.87	N.A.	30.50
20-50	3119.44	N.A.	48.40
40-70	3024.03	N.A.	46.90
60-80	1291.01	N.A.	20.00
70-80	479.91	N.A.	7.50
80-90	192.63	N.A.	3.00
90-110	44.98	N.A.	0.70
90-120	44.98	N.A.	0.70
90-130	44.98	N.A.	0.70
90-150	44.98	N.A.	0.70
90-180	44.98	N.A.	0.70
110-180	0.00	N.A.	0.00
0-180	6441.18	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	186.86
10-20	550.91
20-30	869.27
30-40	1092.59
40-50	1157.57
50-60	1055.35
60-70	811.11
70-80	479.91
80-90	192.63
90-100	42.22
100-110	2.76
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	208	208	208	208	203	203	203	203	194	194	194	185	185	185	178	178	178	174
1	189	180	172	165	184	176	169	162	168	162	157	161	156	152	155	151	147	143
2	171	156	144	133	166	153	141	132	146	137	128	140	132	125	135	128	122	118
3	156	137	122	110	151	134	120	109	128	116	107	123	113	105	119	110	103	99
4	142	121	105	93	138	118	103	92	114	101	90	109	98	89	105	96	88	84
5	131	107	91	79	127	105	90	79	101	88	78	98	86	77	94	84	76	72
6	120	96	80	69	117	95	79	68	91	78	68	88	76	67	85	75	66	63
7	111	87	72	60	108	86	71	60	83	69	60	80	68	59	78	67	59	55
8	104	79	64	54	101	78	64	54	76	62	53	73	61	53	71	60	52	49
9	97	73	58	48	94	72	58	48	69	57	48	67	56	47	66	55	47	44
10	91	67	53	43	88	66	52	43	64	52	43	62	51	43	61	50	43	39

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**UGR TABLE - CORRECTED**

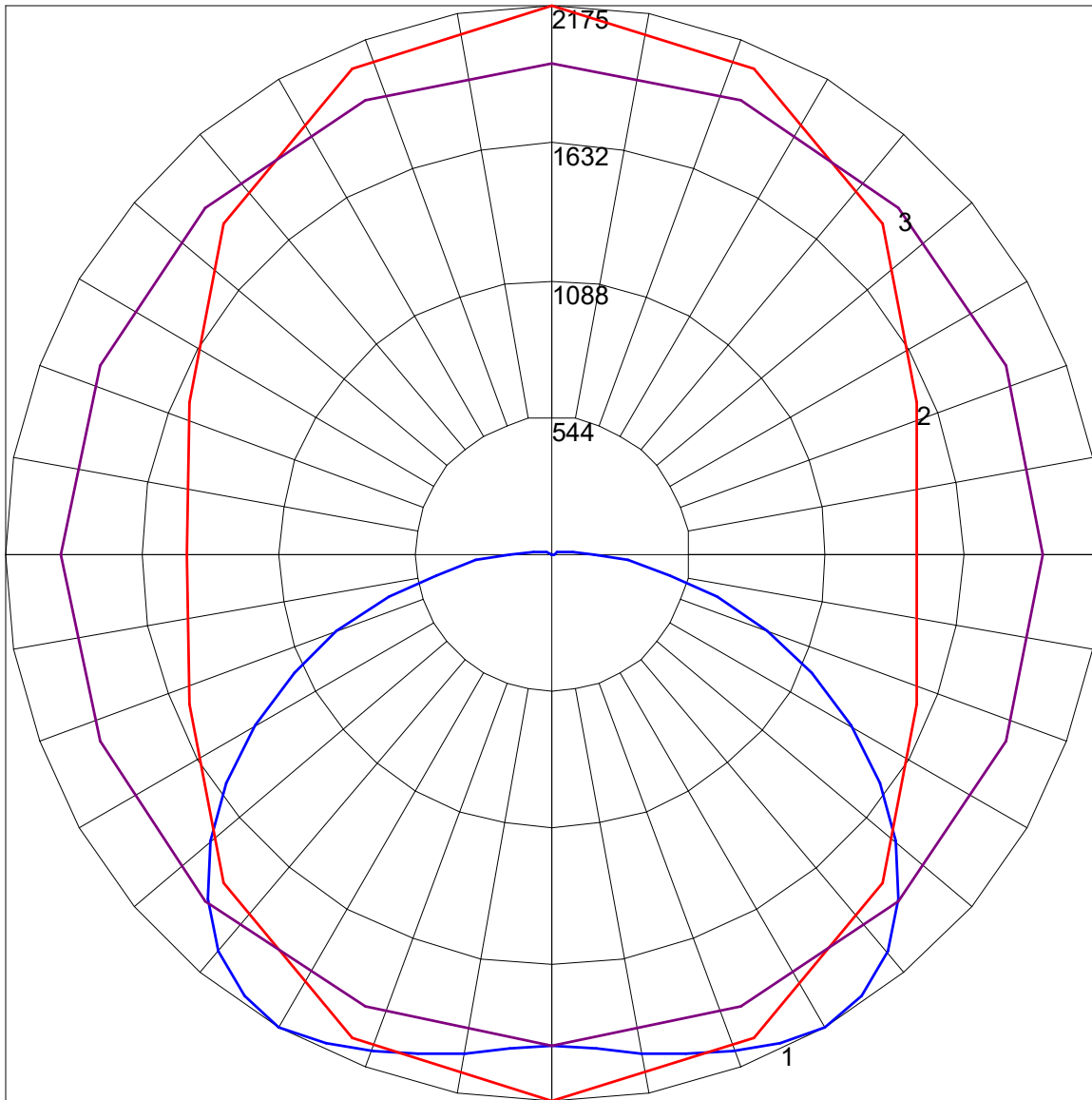
Reflectances

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	14.5	16.1	14.8	16.4	16.8	19.8	21.4	20.2	21.8	22.1
	3H	15.7	17.2	16.1	17.6	17.9	21.8	23.3	22.2	23.6	24.0
	4H	16.0	17.4	16.4	17.8	18.2	22.6	24.0	23.0	24.3	24.7
	6H	16.1	17.4	16.5	17.8	18.2	23.3	24.6	23.7	25.0	25.4
	8H	16.1	17.3	16.5	17.7	18.2	23.6	24.8	24.0	25.2	25.6
	12H	16.1	17.3	16.5	17.7	18.1	23.9	25.1	24.3	25.5	25.9
4H	2H	16.2	17.7	16.7	18.0	18.4	20.1	21.5	20.5	21.9	22.3
	3H	17.6	18.8	18.0	19.2	19.6	22.4	23.5	22.8	24.0	24.4
	4H	17.9	19.0	18.3	19.4	19.9	23.3	24.4	23.8	24.8	25.3
	6H	18.0	19.0	18.5	19.4	19.9	24.2	25.2	24.7	25.6	26.1
	8H	18.0	18.9	18.5	19.4	19.9	24.6	25.5	25.1	25.9	26.4
	12H	18.0	18.8	18.5	19.3	19.8	25.0	25.8	25.5	26.3	26.8
8H	4H	18.9	19.8	19.4	20.2	20.7	23.5	24.4	24.0	24.8	25.3
	6H	19.1	19.9	19.7	20.4	20.9	24.5	25.2	25.0	25.7	26.2
	8H	19.2	19.8	19.7	20.4	20.9	25.0	25.7	25.5	26.2	26.7
	12H	19.2	19.8	19.7	20.3	20.9	25.5	26.1	26.0	26.6	27.2
12H	4H	19.1	19.9	19.6	20.4	20.9	23.5	24.3	24.0	24.8	25.3
	6H	19.5	20.1	20.0	20.6	21.2	24.5	25.2	25.0	25.7	26.2
	8H	19.6	20.2	20.1	20.7	21.3	25.1	25.7	25.6	26.2	26.7

Maximum UGR = 27.2

POLAR GRAPH



Maximum Candela = 2175.424 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.)  
# 3 - Horizontal Cone Through Vertical Angle (0)