



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : AVX-4-L62-940-CPC-(L40)-DIM1-UNV\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST]GEN FROM BALLABS TEST NO. 18152.0  
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC  
 [ISSUE DATE] 02-24-2021  
 [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-L62-940-CPC-(L40)-DIM1-UNV  
 [LAMPCAT] HLM 90 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	3552
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	105
Total Luminaire Watts	33.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.10
Spacing Criterion (90-270)	1.52
Spacing Criterion (Diagonal)	1.46
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.04 ft
Luminous Width (90-270)	0.58 ft
Luminous Height	0.05 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3566	5182	6335
55	2941	4856	6047
65	2355	4542	5716
75	1421	3785	4974
85	630	3239	4959

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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>
<b>0</b>	1160.583	1160.583	1160.583	1160.583	1160.583
<b>5</b>	1167.486	1167.486	1174.389	1179.262	1183.323
<b>10</b>	1130.126	1137.842	1161.395	1186.572	1197.130
<b>15</b>	1071.651	1088.706	1137.842	1179.262	1198.348
<b>20</b>	1026.982	1054.189	1138.654	1213.779	1243.829
<b>25</b>	918.152	951.450	1057.438	1157.740	1195.912
<b>30</b>	822.722	857.239	1000.586	1126.472	1166.268
<b>35</b>	753.282	786.987	977.846	1124.035	1166.268
<b>40</b>	646.483	676.127	908.812	1061.499	1104.543
<b>45</b>	559.581	588.413	860.894	1024.951	1069.214
<b>50</b>	461.715	488.923	761.810	920.182	959.572
<b>55</b>	376.438	402.427	673.284	824.347	856.833
<b>60</b>	298.876	323.241	569.733	700.086	725.263
<b>65</b>	224.157	251.365	485.674	605.468	630.645
<b>70</b>	148.626	180.707	383.341	486.080	508.821
<b>75</b>	84.465	114.109	272.481	357.352	376.032
<b>80</b>	40.608	62.943	184.767	259.893	277.760
<b>85</b>	13.807	28.020	112.891	173.803	191.265
<b>90</b>	3.655	9.340	53.197	94.211	107.206
<b>95</b>	0.000	0.000	16.243	44.669	54.415
<b>100</b>	0.000	0.000	0.000	13.807	19.492
<b>105</b>	0.000	0.000	0.000	0.000	0.000
<b>110</b>	0.000	0.000	0.000	0.000	0.000
<b>115</b>	0.000	0.000	0.000	0.000	0.000
<b>120</b>	0.000	0.000	0.000	0.000	0.000
<b>125</b>	0.000	0.000	0.000	0.000	0.000
<b>130</b>	0.000	0.000	0.000	0.000	0.000
<b>135</b>	0.000	0.000	0.000	0.000	0.000
<b>140</b>	0.000	0.000	0.000	0.000	0.000
<b>145</b>	0.000	0.000	0.000	0.000	0.000
<b>150</b>	0.000	0.000	0.000	0.000	0.000
<b>155</b>	0.000	0.000	0.000	0.000	0.000
<b>160</b>	0.000	0.000	0.000	0.000	0.000
<b>165</b>	0.000	0.000	0.000	0.000	0.000
<b>170</b>	0.000	0.000	0.000	0.000	0.000
<b>175</b>	0.000	0.000	0.000	0.000	0.000
<b>180</b>	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	434.92	N.A.	12.20
0-30	924.27	N.A.	26.00
0-40	1519.86	N.A.	42.80
0-60	2707.34	N.A.	76.20
0-80	3405.7	N.A.	95.90
0-90	3522.42	N.A.	99.20
10-90	3410.93	N.A.	96.00
20-40	1084.94	N.A.	30.50
20-50	1711.9	N.A.	48.20
40-70	1622.3	N.A.	45.70
60-80	698.36	N.A.	19.70
70-80	263.53	N.A.	7.40
80-90	116.73	N.A.	3.30
90-110	29.72	N.A.	0.80
90-120	29.72	N.A.	0.80
90-130	29.72	N.A.	0.80
90-150	29.72	N.A.	0.80
90-180	29.72	N.A.	0.80
110-180	0.00	N.A.	0.00
0-180	3552.14	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	111.49
10-20	323.43
20-30	489.35
30-40	595.59
40-50	626.96
50-60	560.52
60-70	434.83
70-80	263.53
80-90	116.73
90-100	28.14
100-110	1.58
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	89	92	89	87	88	86	84	82
2	98	89	82	76	95	87	81	75	84	78	73	80	76	72	77	73	70	68
3	89	78	70	63	86	77	69	62	73	67	61	71	65	60	68	63	59	57
4	81	69	60	53	79	68	59	53	65	58	52	63	56	51	60	55	50	48
5	75	62	53	46	73	61	52	45	58	51	45	56	50	44	54	48	44	42
6	69	55	46	40	67	54	46	40	53	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	35	46	39	34	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	28
9	56	42	34	28	54	41	33	28	40	33	28	39	32	28	38	32	27	26
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23

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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	13.8	15.4	14.2	15.7	16.1	19.3	21.0	19.7	21.3	21.6
	3H	15.0	16.5	15.4	16.9	17.2	21.5	22.9	21.8	23.3	23.7
	4H	15.3	16.7	15.7	17.1	17.5	22.3	23.7	22.7	24.1	24.5
	6H	15.5	16.8	15.9	17.2	17.6	23.1	24.4	23.5	24.8	25.2
	8H	15.5	16.7	15.9	17.2	17.6	23.4	24.7	23.9	25.1	25.5
	12H	15.5	16.7	15.9	17.1	17.5	23.8	25.0	24.3	25.4	25.9

### UGR Viewed Endwise

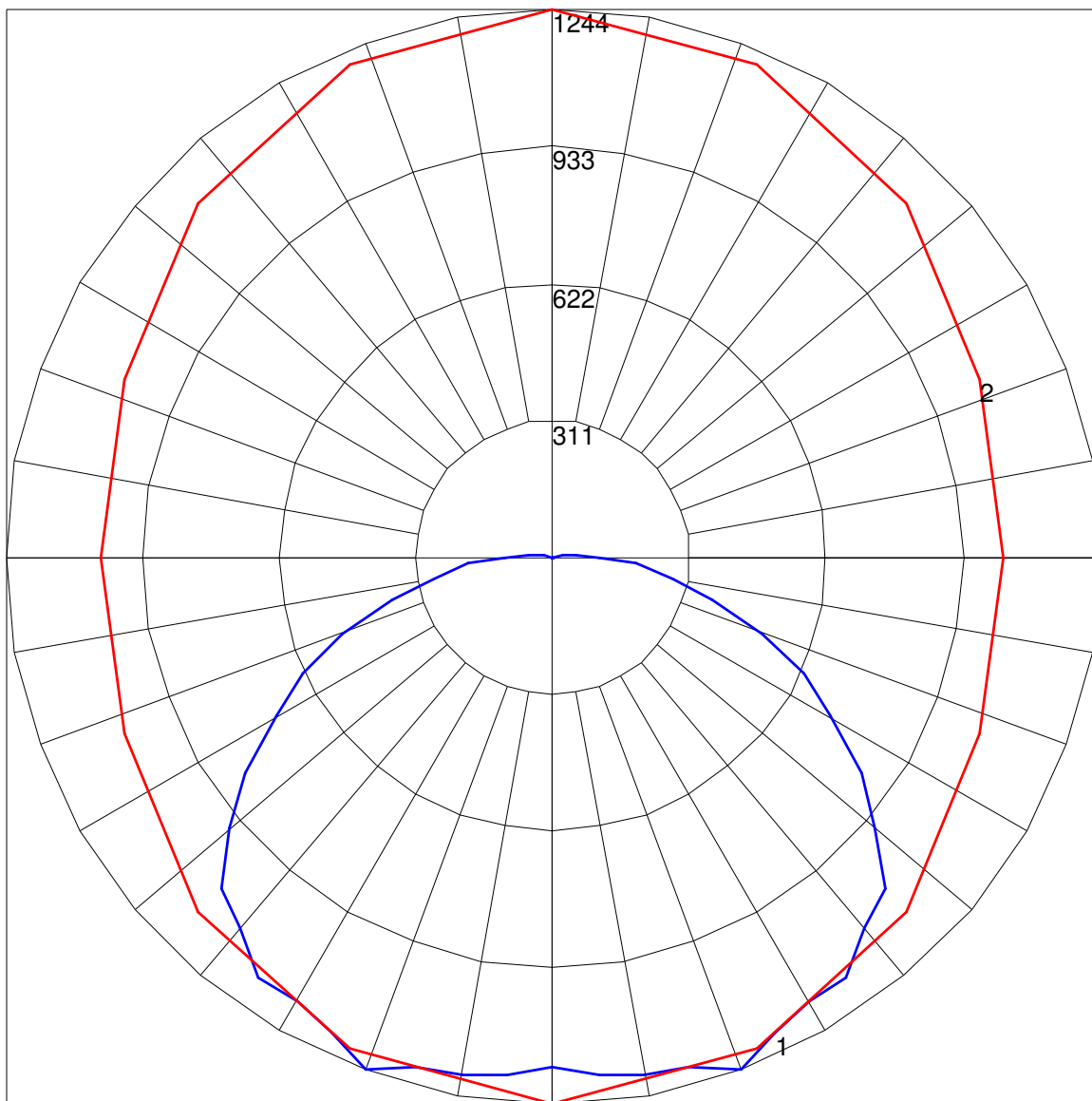
4H	2H	15.8	17.2	16.2	17.5	17.9	19.7	21.1	20.1	21.5	21.9
	3H	17.1	18.3	17.5	18.7	19.1	22.1	23.3	22.5	23.7	24.1
	4H	17.4	18.5	17.8	18.9	19.4	23.1	24.2	23.5	24.6	25.1
	6H	17.6	18.5	18.0	19.0	19.5	24.1	25.0	24.5	25.5	26.0
	8H	17.6	18.5	18.1	18.9	19.4	24.5	25.4	25.0	25.9	26.4
	12H	17.6	18.4	18.1	18.9	19.4	25.0	25.8	25.5	26.3	26.8

8H	4H	18.5	19.4	19.0	19.8	20.3	23.3	24.1	23.7	24.6	25.1
	6H	18.8	19.5	19.3	20.0	20.5	24.4	25.1	24.9	25.6	26.1
	8H	18.8	19.5	19.4	20.0	20.5	25.0	25.6	25.5	26.2	26.7
	12H	18.9	19.5	19.4	20.0	20.6	25.6	26.2	26.1	26.7	27.3

12H	4H	18.7	19.5	19.2	20.0	20.5	23.2	24.0	23.7	24.5	25.0
	6H	19.2	19.9	19.7	20.3	20.9	24.4	25.1	24.9	25.6	26.1
	8H	19.3	19.9	19.8	20.4	21.0	25.0	25.6	25.6	26.1	26.7

Maximum UGR = 27.3

POLAR GRAPH



Maximum Candela = 1243.829 Located At Horizontal Angle = 90, Vertical Angle = 20  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (20) (Through Max. Cd.)