



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : AVX-4-L62-835-CPC-(L50)-DIM-UNV\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM BALLABS TEST NO. 18151.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 12-07-2020

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO

[LUMINAIRE] 4-(44LED)22"BOARDS 4'SUSPENDED WHITE REFLECTOR LUMINAIRE

[MORE] .045"FROSTED ACRYLIC INNER LENS & .15"CLEAR ACRYLIC RIBBED

[MORE] OUTER LENS

[LUMCAT] AVX-4-L62-835-CPC-(L50)-DIM-UNV

[LAMPCAT] HLM 80 CRI 3500K CCT

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5069
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	118
Total Luminaire Watts	43
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.08
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	5087	7410	9091
55	4209	6928	8660
65	3377	6479	8228
75	2044	5398	7233
85	963	4682	7290

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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>	1649.333	1649.333	1649.333	1649.333	1649.333
<b>5</b>	1653.350	1653.852	1662.889	1673.433	1675.441
<b>10</b>	1606.656	1619.208	1652.847	1685.483	1703.055
<b>15</b>	1517.788	1543.394	1612.681	1671.424	1693.014
<b>20</b>	1463.563	1504.232	1621.718	1724.143	1766.820
<b>25</b>	1298.379	1348.085	1493.688	1631.760	1685.483
<b>30</b>	1164.324	1214.532	1410.343	1588.581	1643.810
<b>35</b>	1066.920	1115.622	1382.728	1593.100	1654.354
<b>40</b>	919.811	962.989	1291.852	1511.261	1574.523
<b>45</b>	798.307	842.992	1231.100	1469.086	1534.357
<b>50</b>	658.729	698.895	1088.007	1315.952	1371.181
<b>55</b>	538.732	575.886	960.479	1178.382	1227.084
<b>60</b>	427.772	461.412	810.357	998.135	1036.795
<b>65</b>	321.331	359.489	692.870	867.594	907.761
<b>70</b>	214.388	259.073	546.765	700.904	736.551
<b>75</b>	121.503	164.180	388.610	517.142	546.765
<b>80</b>	57.237	89.872	264.094	376.560	403.672
<b>85</b>	21.087	40.668	163.176	255.559	281.165
<b>90</b>	6.025	14.560	78.324	140.080	159.661
<b>95</b>	0.000	0.000	28.619	72.300	85.354
<b>100</b>	0.000	0.000	0.000	23.598	30.627
<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

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : AVX-4-L62-835-CPC-(L50)-DIM-UNV\_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	617.46	N.A.	12.20
0-30	1309.86	N.A.	25.80
0-40	2153.9	N.A.	42.50
0-60	3850.67	N.A.	76.00
0-80	4852.56	N.A.	95.70
0-90	5022.72	N.A.	99.10
10-90	4864.47	N.A.	96.00
20-40	1536.43	N.A.	30.30
20-50	2432.42	N.A.	48.00
40-70	2319.18	N.A.	45.80
60-80	1001.89	N.A.	19.80
70-80	379.48	N.A.	7.50
80-90	170.16	N.A.	3.40
90-110	46.45	N.A.	0.90
90-120	46.45	N.A.	0.90
90-130	46.45	N.A.	0.90
90-150	46.45	N.A.	0.90
90-180	46.45	N.A.	0.90
110-180	0.00	N.A.	0.00
0-180	5069.17	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	158.26
10-20	459.21
20-30	692.40
30-40	844.04
40-50	895.99
50-60	800.78
60-70	622.41
70-80	379.48
80-90	170.16
90-100	43.84
100-110	2.60
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	92	96	92	89	92	89	86	88	86	84	81
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	69	62	73	67	61	70	65	60	68	63	59	56
4	81	69	60	53	79	68	59	53	65	58	52	63	56	51	60	55	50	48
5	75	62	52	46	73	60	52	45	58	51	45	56	49	44	54	48	44	41
6	69	55	46	40	67	54	46	39	52	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31	42	35	31	41	35	30	28
9	56	42	34	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25
10	52	39	31	25	51	38	30	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

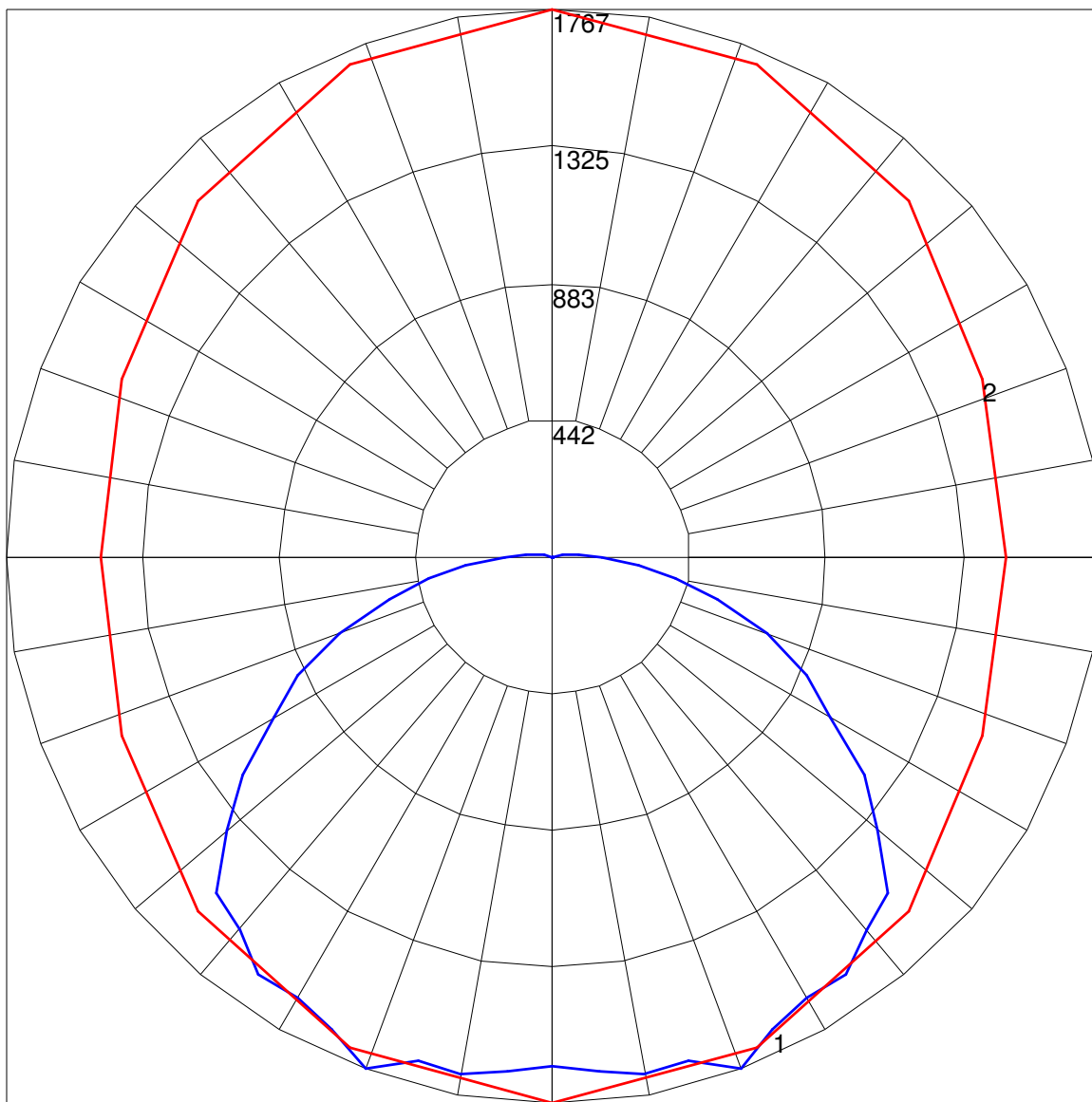
X=2H	Y=2H	15.0	16.6	15.3	17.0	17.3	20.5	22.2	20.9	22.5	22.8
	3H	16.2	17.7	16.6	18.1	18.5	22.7	24.2	23.1	24.5	24.9
	4H	16.5	18.0	17.0	18.3	18.7	23.5	25.0	24.0	25.3	25.7
	6H	16.7	18.0	17.1	18.4	18.8	24.3	25.7	24.8	26.0	26.5
	8H	16.7	18.0	17.2	18.4	18.8	24.7	26.0	25.2	26.4	26.8
	12H	16.7	17.9	17.2	18.3	18.8	25.1	26.3	25.5	26.7	27.1

### UGR Viewed Endwise

4H	2H	17.0	18.4	17.4	18.8	19.2	20.9	22.3	21.3	22.7	23.1
	3H	18.3	19.5	18.7	19.9	20.3	23.3	24.5	23.7	24.9	25.3
	4H	18.6	19.7	19.1	20.1	20.6	24.3	25.4	24.8	25.9	26.3
	6H	18.8	19.7	19.2	20.2	20.7	25.3	26.3	25.8	26.7	27.2
	8H	18.8	19.7	19.3	20.2	20.6	25.8	26.7	26.3	27.2	27.6
	12H	18.8	19.6	19.3	20.1	20.6	26.3	27.1	26.8	27.6	28.1
8H	4H	19.7	20.6	20.2	21.1	21.5	24.5	25.4	25.0	25.9	26.3
	6H	20.0	20.8	20.5	21.3	21.8	25.7	26.4	26.2	26.9	27.4
	8H	20.1	20.7	20.6	21.3	21.8	26.2	26.9	26.8	27.4	27.9
	12H	20.1	20.7	20.6	21.2	21.8	26.9	27.5	27.4	28.0	28.6
12H	4H	20.0	20.8	20.5	21.3	21.7	24.5	25.3	25.0	25.8	26.3
	6H	20.4	21.1	20.9	21.5	22.1	25.7	26.3	26.2	26.8	27.4
	8H	20.5	21.1	21.1	21.6	22.2	26.3	26.9	26.8	27.4	28.0

Maximum UGR = 28.6

POLAR GRAPH



Maximum Candela = 1766.82 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.)