



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : AVX-4-L36-835-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] 07-29-2020  
 [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-L36/835-CPC-DIM-UNV  
 [LAMPCAT] HLM 80 CRI, 3500K 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	3720
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	124
Total Luminaire Watts	30.1
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	3830	5493	6779
55	3373	5236	6549
65	2768	4823	5946
75	1485	3998	5077
85	345	3016	4249

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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>	1127.090	1127.090	1127.090	1127.090	1127.090
<b>5</b>	1130.098	1124.459	1127.466	1135.737	1137.993
<b>10</b>	1100.022	1106.789	1131.602	1156.038	1166.941
<b>15</b>	1053.029	1077.465	1132.354	1172.580	1191.001
<b>20</b>	988.366	1029.720	1118.819	1188.370	1212.430
<b>25</b>	919.191	973.704	1103.406	1198.520	1237.619
<b>30</b>	839.115	904.905	1071.450	1204.535	1256.416
<b>35</b>	752.647	833.851	1025.584	1189.498	1236.491
<b>40</b>	665.803	739.113	968.065	1147.015	1194.009
<b>45</b>	581.215	643.998	892.499	1084.232	1121.827
<b>50</b>	495.499	548.507	806.783	997.012	1025.960
<b>55</b>	418.053	455.648	713.924	888.364	915.808
<b>60</b>	340.232	369.932	614.298	781.219	791.369
<b>65</b>	255.644	285.720	511.664	636.479	653.773
<b>70</b>	169.176	208.275	398.504	506.401	525.198
<b>75</b>	86.092	130.454	290.231	377.827	389.481
<b>80</b>	32.331	68.798	190.981	256.020	272.562
<b>85</b>	7.519	23.685	111.280	160.905	174.816
<b>90</b>	0.000	5.639	51.129	86.092	96.243
<b>95</b>	0.000	0.000	15.038	37.219	43.986
<b>100</b>	0.000	0.000	1.880	9.399	12.406
<b>105</b>	0.000	0.000	0.000	1.880	2.632
<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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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	426.10	N.A.	11.50
0-30	928.15	N.A.	24.90
0-40	1559.18	N.A.	41.90
0-60	2837.25	N.A.	76.30
0-80	3582.87	N.A.	96.30
0-90	3694.12	N.A.	99.30
10-90	3586.2	N.A.	96.40
20-40	1133.08	N.A.	30.50
20-50	1801.63	N.A.	48.40
40-70	1746.53	N.A.	46.90
60-80	745.62	N.A.	20.00
70-80	277.17	N.A.	7.50
80-90	111.25	N.A.	3.00
90-110	25.98	N.A.	0.70
90-120	25.98	N.A.	0.70
90-130	25.98	N.A.	0.70
90-150	25.98	N.A.	0.70
90-180	25.98	N.A.	0.70
110-180	0.00	N.A.	0.00
0-180	3720.1	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	107.92
10-20	318.18
20-30	502.05
30-40	631.03
40-50	668.56
50-60	609.52
60-70	468.45
70-80	277.17
80-90	111.25
90-100	24.39
100-110	1.59
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	84	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**

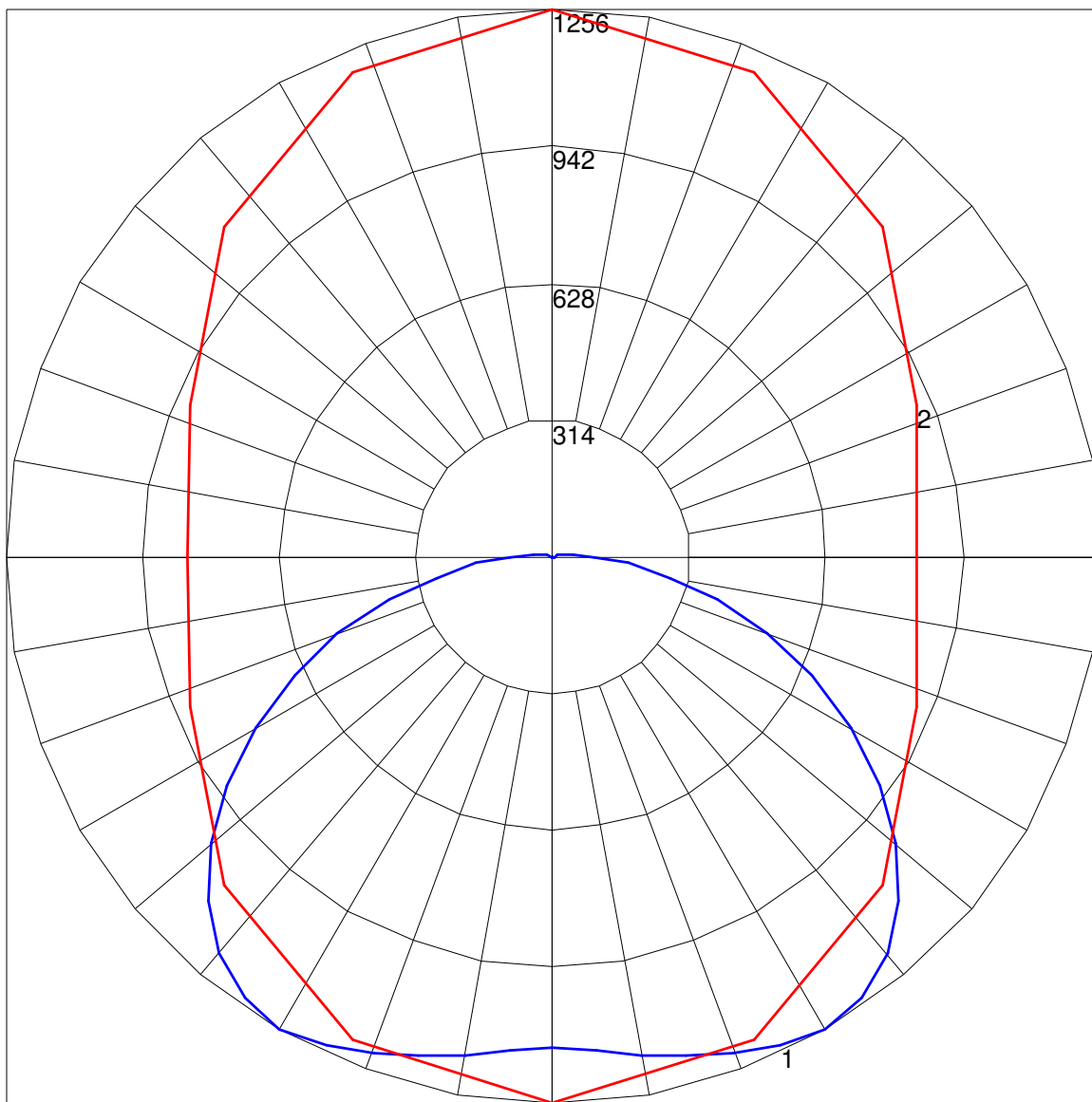
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	14.6	16.2	14.9	16.5	16.9	19.9	21.5	20.3	21.9	22.2
	3H	15.8	17.3	16.2	17.7	18.0	21.9	23.4	22.3	23.7	24.1
	4H	16.1	17.5	16.5	17.9	18.3	22.7	24.1	23.1	24.4	24.8
	6H	16.2	17.5	16.6	17.9	18.3	23.4	24.7	23.8	25.1	25.5
	8H	16.2	17.4	16.6	17.8	18.3	23.7	24.9	24.1	25.3	25.7
	12H	16.2	17.4	16.6	17.8	18.2	24.0	25.2	24.4	25.6	26.0
4H	2H	16.3	17.8	16.8	18.1	18.5	20.2	21.6	20.6	22.0	22.4
	3H	17.7	18.9	18.1	19.3	19.7	22.5	23.6	22.9	24.1	24.5
	4H	18.0	19.1	18.4	19.5	20.0	23.4	24.5	23.9	25.0	25.4
	6H	18.1	19.1	18.6	19.5	20.0	24.3	25.3	24.8	25.7	26.2
	8H	18.1	19.0	18.6	19.5	20.0	24.7	25.6	25.2	26.0	26.5
	12H	18.1	18.9	18.6	19.4	19.9	25.1	25.9	25.6	26.4	26.9
8H	4H	19.0	19.9	19.5	20.3	20.8	23.6	24.5	24.1	24.9	25.4
	6H	19.2	20.0	19.8	20.5	21.0	24.6	25.3	25.1	25.8	26.3
	8H	19.3	19.9	19.8	20.5	21.0	25.1	25.8	25.6	26.3	26.8
	12H	19.3	19.9	19.8	20.4	21.0	25.6	26.2	26.1	26.7	27.3
12H	4H	19.2	20.0	19.7	20.5	21.0	23.6	24.4	24.1	24.9	25.4
	6H	19.6	20.2	20.1	20.7	21.3	24.6	25.3	25.1	25.8	26.3
	8H	19.7	20.3	20.2	20.8	21.4	25.2	25.8	25.7	26.3	26.8

Maximum UGR = 27.3

POLAR GRAPH



Maximum Candela = 1256.416 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.)