



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : VWMV-L17-840-TL-XXX-CGL-DIM-UNV\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] GEN FROM BALLABS TEST NO. 18043.0  
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC  
 [ISSUEDATE] 25 JUL 2023  
 [MANUFAC] WILLIAMS OUTDOOR  
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.  
 [LUMINAIRE] 6x9 MINI LED WALLPACK LUMINAIRE  
 [MORE] CLEAR FLAT GLASS LENS  
 [MORE] 0-10V DIMMING DRIVER  
 [LUMCAT] VWMV-L17-840-TL-xxx-CGL-DIM-UNV  
 [LAMPCAT] BRIDGELUX VERO COB LED

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1922
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	120
Total Luminaire Watts	16
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.34
Spacing Criterion (90-270)	1.34
Spacing Criterion (Diagonal)	1.42
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.23 ft
Luminous Width (90-270)	0.66 ft
Luminous Height	0.00 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	52551	56331	57916
55	19691	43591	54113
65	2448	4488	42229
75	666	999	21652
85	0	0	0

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**CANDELA TABULATION**

	<u>0</u>	<u>5</u>	<u>15</u>	<u>25</u>	<u>35</u>	<u>45</u>	<u>55</u>	<u>65</u>	<u>75</u>	<u>85</u>
<b>0.0</b>	788.875	788.875	788.875	788.875	788.875	788.875	788.875	788.875	788.875	788.875
<b>5.0</b>	794.897	793.692	792.488	793.692	794.897	793.692	793.692	796.101	796.101	794.897
<b>10.0</b>	790.079	787.670	787.670	788.875	790.079	788.875	790.079	791.284	790.079	791.284
<b>15.0</b>	778.035	779.240	775.627	778.035	779.240	779.240	778.035	779.240	779.240	779.240
<b>20.0</b>	759.969	763.583	761.174	765.991	763.583	765.991	763.583	763.583	763.583	763.583
<b>25.0</b>	731.064	739.495	738.290	739.495	739.495	744.312	741.904	738.290	737.086	740.699
<b>30.0</b>	700.954	710.589	709.385	710.589	714.203	716.611	716.611	709.385	710.589	711.794
<b>35.0</b>	674.458	674.458	668.436	673.253	675.662	676.867	679.275	676.867	676.867	678.071
<b>40.0</b>	629.895	629.895	621.465	621.465	623.873	620.260	628.691	628.691	631.100	631.100
<b>45.0</b>	519.092	527.522	517.887	531.136	561.245	556.428	564.858	570.880	573.289	572.085
<b>50.0</b>	342.046	356.499	368.543	386.609	443.215	470.916	497.413	499.821	508.252	505.843
<b>55.0</b>	157.775	152.957	191.498	216.790	277.009	349.273	417.923	425.149	438.398	439.602
<b>60.0</b>	33.723	28.905	42.154	60.219	104.782	181.863	299.893	334.820	355.295	356.499
<b>62.5</b>	18.066	20.475	20.475	20.475	38.540	86.716	195.111	275.805	295.075	304.710
<b>65.0</b>	14.453	14.453	13.248	14.453	16.861	26.497	107.191	209.564	260.148	252.922
<b>67.5</b>	10.840	12.044	10.840	12.044	14.453	14.453	48.176	133.687	214.381	202.337
<b>70.0</b>	8.431	8.431	7.226	8.431	8.431	10.840	14.453	72.263	151.753	155.366
<b>72.5</b>	3.613	2.409	4.818	6.022	4.818	4.818	6.022	24.088	86.716	108.395
<b>75.0</b>	2.409	2.409	2.409	3.613	3.613	3.613	6.022	6.022	38.540	72.263
<b>77.5</b>	1.204	0.000	2.409	2.409	2.409	2.409	2.409	4.818	6.022	32.519
<b>80.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>82.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>85.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>87.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>90.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**Vert. Angles**      **Horizontal Angles**

	<u>90</u>	<u>95</u>	<u>105</u>	<u>115</u>	<u>125</u>	<u>135</u>	<u>145</u>	<u>155</u>	<u>165</u>	<u>175</u>
<b>0.0</b>	788.875	788.875	788.875	788.875	788.875	788.875	788.875	788.875	788.875	788.875
<b>5.0</b>	794.897	793.692	794.897	796.101	793.692	792.488	793.692	791.284	792.488	793.692
<b>10.0</b>	790.079	792.488	790.079	792.488	791.284	790.079	790.079	788.875	788.875	787.670
<b>15.0</b>	780.444	779.240	780.444	781.648	779.240	779.240	779.240	778.035	778.035	776.831
<b>20.0</b>	765.991	765.991	765.991	765.991	763.583	768.400	762.378	761.174	762.378	763.583
<b>25.0</b>	741.904	743.108	739.495	739.495	738.290	747.926	735.882	735.882	738.290	737.086
<b>30.0</b>	712.998	711.794	710.589	715.407	711.794	716.611	708.181	710.589	710.589	708.181
<b>35.0</b>	678.071	674.458	670.845	678.071	670.845	660.005	670.845	673.253	668.436	673.253
<b>40.0</b>	629.895	623.873	625.078	628.691	623.873	616.647	623.873	627.487	631.100	634.713
<b>45.0</b>	572.085	567.267	572.085	567.267	570.880	562.450	575.698	572.085	549.201	540.771
<b>50.0</b>	508.252	504.639	508.252	498.617	501.026	505.843	488.982	455.259	403.470	385.404
<b>55.0</b>	433.580	435.989	439.602	429.967	440.806	408.288	354.090	266.170	213.177	184.272
<b>60.0</b>	345.660	350.477	363.725	360.112	323.981	249.309	169.819	93.942	56.606	43.358
<b>62.5</b>	295.075	298.688	298.688	305.915	234.856	146.935	75.877	33.723	20.475	20.475
<b>65.0</b>	249.309	256.535	251.717	249.309	173.432	77.081	27.701	19.270	15.657	14.453
<b>67.5</b>	203.542	211.972	202.337	190.293	103.577	22.883	16.861	14.453	12.044	10.840
<b>70.0</b>	151.753	158.979	157.775	114.417	42.154	16.861	12.044	10.840	8.431	8.431
<b>72.5</b>	114.417	107.191	115.621	44.562	12.044	10.840	6.022	6.022	3.613	3.613
<b>75.0</b>	78.285	67.446	72.263	15.657	6.022	4.818	6.022	4.818	2.409	1.204
<b>77.5</b>	42.154	40.949	31.314	6.022	6.022	2.409	2.409	2.409	0.000	0.000
<b>80.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>82.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>85.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>87.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>90.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

Vert. Angles	Horizontal Angles
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	<u>180</u>
0.0	788.875
5.0	792.488
10.0	788.875
15.0	776.831
20.0	762.378
25.0	739.495
30.0	708.181
35.0	673.253
40.0	631.100
45.0	531.136
50.0	374.565
55.0	186.680
60.0	38.540
62.5	20.475
65.0	15.657
67.5	12.044
70.0	7.226
72.5	3.613
75.0	2.409
77.5	0.000
80.0	0.000
82.5	0.000
85.0	0.000
87.5	0.000
90.0	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	295.80	N.A.	15.40
0-30	637.18	N.A.	33.20
0-40	1057.98	N.A.	55.10
0-60	1783.16	N.A.	92.80
0-80	1921.5	N.A.	100.00
0-90	1921.5	N.A.	100.00
10-90	1845.92	N.A.	96.10
20-40	762.18	N.A.	39.70
20-50	1187.32	N.A.	61.80
40-70	841.43	N.A.	43.80
60-80	138.34	N.A.	7.20
70-80	22.09	N.A.	1.10
80-90	0.00	N.A.	0.00
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1921.5	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	75.58
10-20	220.22
20-30	341.38
30-40	420.80
40-50	425.14
50-60	300.04
60-70	116.25
70-80	22.09
80-90	0.00
90-100	0.00
100-110	0.00
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	102	102	102	100
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	89
2	103	96	90	85	100	94	89	84	90	86	82	87	84	81	84	81	79	77
3	95	85	78	73	92	84	77	72	81	76	71	78	74	70	76	72	69	67
4	87	77	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58
5	81	69	61	55	79	68	60	55	66	59	54	64	58	53	62	57	53	51
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	57	51	47	45
7	69	57	49	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40
8	65	52	44	38	63	51	44	38	50	43	38	49	42	38	48	42	38	36
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	32
10	57	44	36	31	55	43	36	31	42	36	31	42	35	31	41	35	31	29

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**UGR TABLE - CORRECTED**

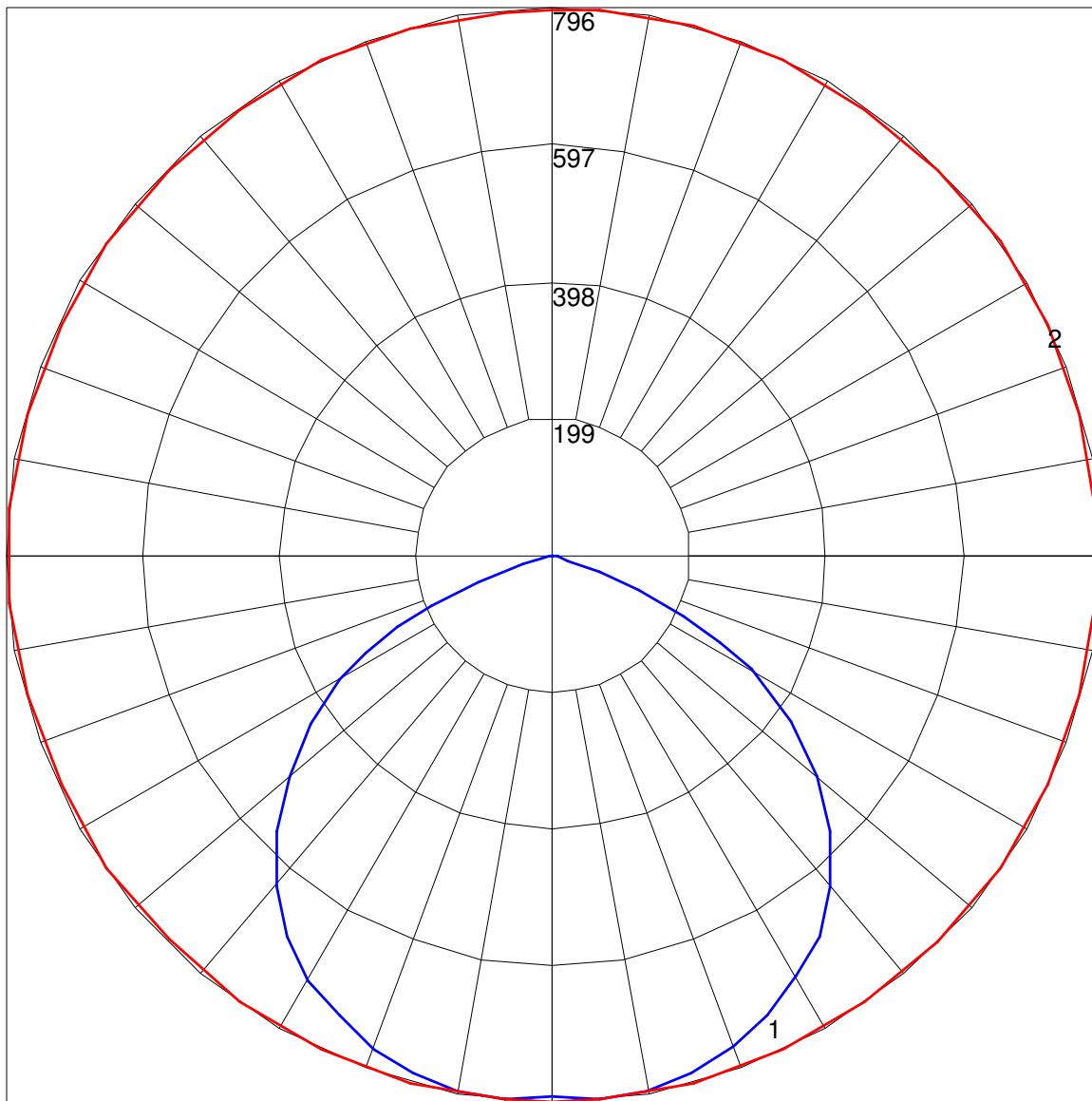
Reflectances

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	18.6	20.1	19.0	20.4	20.7	26.9	28.4	27.3	28.7	29.0
	3H	18.5	19.8	18.9	20.2	20.5	28.0	29.3	28.4	29.7	30.0
	4H	18.5	19.7	18.9	20.0	20.4	28.2	29.4	28.6	29.8	30.1
	6H	18.4	19.5	18.8	19.9	20.3	28.2	29.3	28.6	29.6	30.0
	8H	18.3	19.4	18.8	19.8	20.2	28.1	29.2	28.5	29.6	30.0
	12H	18.3	19.3	18.8	19.7	20.2	28.1	29.1	28.5	29.5	29.9
4H	2H	18.5	19.8	18.9	20.1	20.5	26.8	28.0	27.2	28.3	28.7
	3H	18.5	19.5	18.9	19.9	20.3	27.9	28.9	28.3	29.3	29.7
	4H	18.4	19.3	18.8	19.7	20.1	28.0	28.9	28.5	29.4	29.8
	6H	18.3	19.1	18.8	19.6	20.0	28.0	28.8	28.5	29.2	29.7
	8H	18.3	19.0	18.8	19.5	19.9	28.0	28.7	28.5	29.1	29.6
	12H	18.2	18.9	18.7	19.4	19.8	27.9	28.6	28.4	29.1	29.5
8H	4H	18.3	19.1	18.8	19.5	20.0	28.0	28.7	28.4	29.1	29.6
	6H	18.2	18.8	18.7	19.3	19.8	27.9	28.5	28.4	29.0	29.5
	8H	18.2	18.7	18.7	19.2	19.7	27.8	28.4	28.4	28.9	29.4
	12H	18.1	18.6	18.7	19.1	19.7	27.8	28.3	28.3	28.8	29.3
12H	4H	18.3	18.9	18.8	19.4	19.9	27.9	28.5	28.4	29.0	29.5
	6H	18.2	18.7	18.7	19.2	19.7	27.8	28.4	28.4	28.8	29.4
	8H	18.1	18.6	18.7	19.1	19.7	27.8	28.3	28.3	28.8	29.3

Maximum UGR = 30.1

POLAR GRAPH



Maximum Candela = 796.101 Located At Horizontal Angle = 65, Vertical Angle = 5  
# 1 - Vertical Plane Through Horizontal Angles (65 - 245) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)