



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : VWMV-L17-740-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] 1-DEC-2022

[MANUFAC] WILLIAMS OUTDOOR

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

[LUMINAIRE] BRIDGELUX VERO LED MODULE 6x9"MINI VERT WALLPACK LUMINAIRE

[MORE] CLEAR FLAT GLASS LENS

[MORE] INVENTRONICS LED DRIVER #LUC-018S05SDSP

[LUMCAT] VWMV-L17-740-xxx-DIM-UNV

[LAMPCAT] VERO 40E4000F

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1760
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	110
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	48127	51589	53041
55	18033	39921	49558
65	2242	4110	38674
75	610	915	19830
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>	722.465	722.465	722.465	722.465	722.465	722.465	722.465	722.465	722.465	722.465
<b>5.0</b>	727.980	726.877	725.774	726.877	727.980	726.877	726.877	729.083	729.083	727.980
<b>10.0</b>	723.568	721.362	721.362	722.465	723.568	722.465	723.568	724.671	723.568	724.671
<b>15.0</b>	712.538	713.641	710.332	712.538	713.641	713.641	712.538	713.641	713.641	713.641
<b>20.0</b>	695.993	699.302	697.096	701.508	699.302	701.508	699.302	699.302	699.302	699.302
<b>25.0</b>	669.521	677.242	676.139	677.242	677.242	681.654	679.448	676.139	675.036	678.345
<b>30.0</b>	641.946	650.770	649.667	650.770	654.079	656.285	656.285	649.667	650.770	651.873
<b>35.0</b>	617.680	617.680	612.165	616.577	618.783	619.886	622.092	619.886	619.886	620.989
<b>40.0</b>	576.869	576.869	569.148	569.148	571.354	568.045	575.766	575.766	577.972	577.972
<b>45.0</b>	475.393	483.114	474.290	486.423	513.998	509.586	517.307	522.822	525.028	523.925
<b>50.0</b>	313.252	326.488	337.518	354.063	405.904	431.273	455.539	457.745	465.466	463.260
<b>55.0</b>	144.493	140.081	175.377	198.540	253.690	319.870	382.741	389.359	401.492	402.595
<b>60.0</b>	30.884	26.472	38.605	55.150	95.961	166.553	274.647	306.634	325.385	326.488
<b>62.5</b>	16.545	18.751	18.751	18.751	35.296	79.416	178.686	252.587	270.235	279.059
<b>65.0</b>	13.236	13.236	12.133	13.236	15.442	24.266	98.167	191.922	238.248	231.630
<b>67.5</b>	9.927	11.030	9.927	11.030	13.236	13.236	44.120	122.433	196.334	185.304
<b>70.0</b>	7.721	7.721	6.618	7.721	7.721	9.927	13.236	66.180	138.978	142.287
<b>72.5</b>	3.309	2.206	4.412	5.515	4.412	4.412	5.515	22.060	79.416	99.270
<b>75.0</b>	2.206	2.206	2.206	3.309	3.309	3.309	5.515	5.515	35.296	66.180
<b>77.5</b>	1.103	0.000	2.206	2.206	2.206	2.206	2.206	4.412	5.515	29.781
<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>	722.465	722.465	722.465	722.465	722.465	722.465	722.465	722.465	722.465	722.465
<b>5.0</b>	727.980	726.877	727.980	729.083	726.877	725.774	726.877	724.671	725.774	726.877
<b>10.0</b>	723.568	725.774	723.568	725.774	724.671	723.568	723.568	722.465	722.465	721.362
<b>15.0</b>	714.744	713.641	714.744	715.847	713.641	713.641	713.641	712.538	712.538	711.435
<b>20.0</b>	701.508	701.508	701.508	701.508	699.302	703.714	698.199	697.096	698.199	699.302
<b>25.0</b>	679.448	680.551	677.242	677.242	676.139	684.963	673.933	673.933	676.139	675.036
<b>30.0</b>	652.976	651.873	650.770	655.182	651.873	656.285	648.564	650.770	650.770	648.564
<b>35.0</b>	620.989	617.680	614.371	620.989	614.371	604.444	614.371	616.577	612.165	616.577
<b>40.0</b>	576.869	571.354	572.457	575.766	571.354	564.736	571.354	574.663	577.972	581.281
<b>45.0</b>	523.925	519.513	523.925	519.513	522.822	515.101	527.234	523.925	502.968	495.247
<b>50.0</b>	465.466	462.157	465.466	456.642	458.848	463.260	447.818	416.934	369.505	352.960
<b>55.0</b>	397.080	399.286	402.595	393.771	403.698	373.917	324.282	243.763	195.231	168.759
<b>60.0</b>	316.561	320.973	333.106	329.797	296.707	228.321	155.523	86.034	51.841	39.708
<b>62.5</b>	270.235	273.544	273.544	280.162	215.085	134.566	69.489	30.884	18.751	18.751
<b>65.0</b>	228.321	234.939	230.527	228.321	158.832	70.592	25.369	17.648	14.339	13.236
<b>67.5</b>	186.407	194.128	185.304	174.274	94.858	20.957	15.442	13.236	11.030	9.927
<b>70.0</b>	138.978	145.596	144.493	104.785	38.605	15.442	11.030	9.927	7.721	7.721
<b>72.5</b>	104.785	98.167	105.888	40.811	11.030	9.927	5.515	5.515	3.309	3.309
<b>75.0</b>	71.695	61.768	66.180	14.339	5.515	4.412	5.515	4.412	2.206	1.103
<b>77.5</b>	38.605	37.502	28.678	5.515	5.515	2.206	2.206	2.206	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

CANDELA TABULATION - (Cont.)

Vert. Angles	Horizontal Angles
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	<b>180</b>
0.0	722.465
5.0	725.774
10.0	722.465
15.0	711.435
20.0	698.199
25.0	677.242
30.0	648.564
35.0	616.577
40.0	577.972
45.0	486.423
50.0	343.033
55.0	170.965
60.0	35.296
62.5	18.751
65.0	14.339
67.5	11.030
70.0	6.618
72.5	3.309
75.0	2.206
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	270.90	N.A.	15.40
0-30	583.54	N.A.	33.20
0-40	968.92	N.A.	55.10
0-60	1633.04	N.A.	92.80
0-80	1759.74	N.A.	100.00
0-90	1759.74	N.A.	100.00
10-90	1690.52	N.A.	96.10
20-40	698.02	N.A.	39.70
20-50	1087.37	N.A.	61.80
40-70	770.60	N.A.	43.80
60-80	126.70	N.A.	7.20
70-80	20.23	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	1759.74	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	69.22
10-20	201.68
20-30	312.64
30-40	385.38
40-50	389.35
50-60	274.78
60-70	106.47
70-80	20.23
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	131	131	131	131	128	128	128	128	123	123	123	117	117	117	113	113	113	110
1	123	118	115	111	120	116	113	109	111	109	106	107	105	103	103	102	100	98
2	113	106	99	94	110	104	98	93	100	95	91	96	92	89	93	90	87	85
3	104	94	87	80	102	93	85	80	89	83	78	87	81	77	84	80	76	74
4	96	85	76	69	94	83	75	69	80	74	68	78	72	67	76	71	66	64
5	89	76	67	61	87	75	66	60	73	65	60	71	64	59	69	63	58	56
6	82	69	60	53	80	68	59	53	66	58	53	64	57	52	62	56	52	50
7	76	63	54	47	75	62	53	47	60	52	47	59	52	47	57	51	46	44
8	71	57	48	42	70	56	48	42	55	47	42	54	47	42	52	46	42	40
9	67	53	44	38	65	52	44	38	51	43	38	50	43	38	48	42	38	36
10	62	48	40	35	61	48	40	35	47	40	34	46	39	34	45	39	34	32

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**UGR TABLE - CORRECTED**

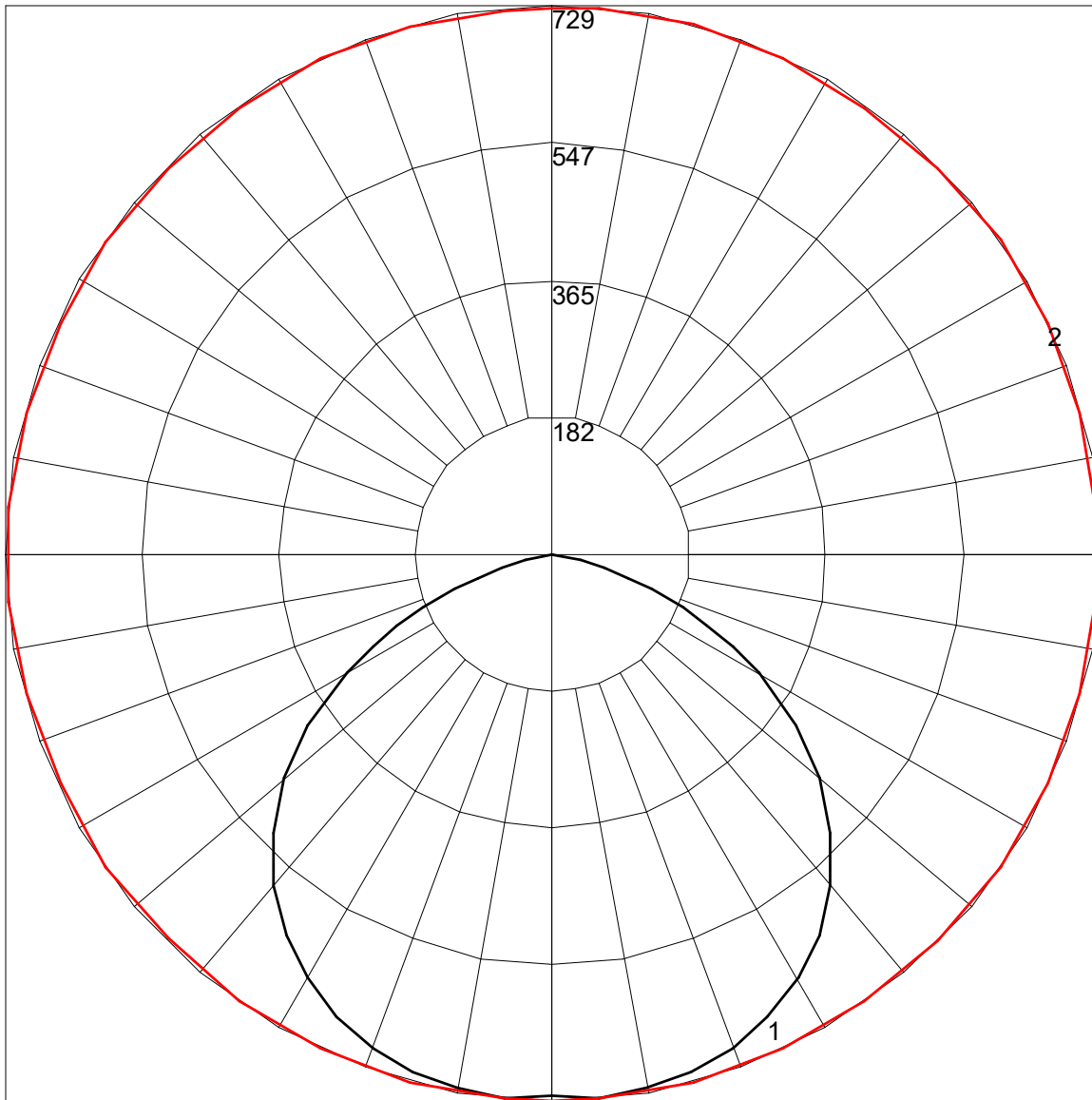
Reflectances

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	17.9	19.4	18.3	19.7	20.0	26.2	27.7	26.6	28.0	28.3
	3H	17.8	19.1	18.2	19.5	19.8	27.3	28.6	27.7	29.0	29.3
	4H	17.8	19.0	18.2	19.3	19.7	27.5	28.7	27.9	29.1	29.4
	6H	17.7	18.8	18.1	19.2	19.6	27.5	28.6	27.9	28.9	29.3
	8H	17.7	18.7	18.1	19.1	19.5	27.4	28.5	27.8	28.9	29.3
	12H	17.6	18.6	18.1	19.0	19.5	27.4	28.4	27.8	28.8	29.2
4H	2H	17.8	19.1	18.2	19.4	19.8	26.1	27.3	26.5	27.6	28.0
	3H	17.8	18.8	18.2	19.2	19.6	27.2	28.2	27.6	28.6	29.0
	4H	17.7	18.6	18.1	19.0	19.4	27.3	28.2	27.8	28.7	29.1
	6H	17.6	18.4	18.1	18.9	19.3	27.3	28.1	27.8	28.5	29.0
	8H	17.6	18.3	18.1	18.8	19.2	27.3	28.0	27.8	28.4	28.9
	12H	17.5	18.2	18.0	18.7	19.1	27.2	27.9	27.7	28.4	28.8
8H	4H	17.6	18.4	18.1	18.8	19.3	27.3	28.0	27.7	28.4	28.9
	6H	17.5	18.1	18.0	18.6	19.1	27.2	27.8	27.7	28.3	28.8
	8H	17.5	18.0	18.0	18.5	19.0	27.1	27.7	27.7	28.2	28.7
	12H	17.4	17.9	18.0	18.4	19.0	27.1	27.6	27.6	28.1	28.6
12H	4H	17.6	18.2	18.1	18.7	19.2	27.2	27.8	27.7	28.3	28.8
	6H	17.5	18.0	18.0	18.5	19.0	27.1	27.7	27.7	28.1	28.7
	8H	17.4	17.9	18.0	18.4	19.0	27.1	27.6	27.6	28.1	28.6

Maximum UGR = 29.4

POLAR GRAPH



Maximum Candela = 729.083 Located At Horizontal Angle = 65, Vertical Angle = 5  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270)  
# 2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)