



IES INDOOR REPORT

PHOTOMETRIC FILENAME : VWMV-L17-740-TL-XXX-SDGL-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

[ISSUE DATE] 2-DEC-2022

[MANUFAC] WILLIAMS OUTDOOR

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

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

[MORE] SDGL GLASS LENS

[MORE] INVENTRONICS LED DRIVER #LUC-018S05SDSP

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

[LAMPCAT] VERO 40E4000F

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1758
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	48084	51542	52992
55	18017	39885	49513
65	2240	4107	38639
75	610	914	19812
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>
0.0	721.810	721.810	721.810	721.810	721.810	721.810	721.810	721.810	721.810	721.810
5.0	727.320	726.218	725.116	726.218	727.320	726.218	726.218	728.422	728.422	727.320
10.0	722.912	720.708	720.708	721.810	722.912	721.810	722.912	724.014	722.912	724.014
15.0	711.892	712.994	709.688	711.892	712.994	712.994	711.892	712.994	712.994	712.994
20.0	695.362	698.668	696.464	700.872	698.668	700.872	698.668	698.668	698.668	698.668
25.0	668.914	676.628	675.526	676.628	676.628	681.036	678.832	675.526	674.424	677.730
30.0	641.364	650.180	649.078	650.180	653.486	655.690	655.690	649.078	650.180	651.282
35.0	617.120	617.120	611.610	616.018	618.222	619.324	621.528	619.324	619.324	620.426
40.0	576.346	576.346	568.632	568.632	570.836	567.530	575.244	575.244	577.448	577.448
45.0	474.962	482.676	473.860	485.982	513.532	509.124	516.838	522.348	524.552	523.450
50.0	312.968	326.192	337.212	353.742	405.536	430.882	455.126	457.330	465.044	462.840
55.0	144.362	139.954	175.218	198.360	253.460	319.580	382.394	389.006	401.128	402.230
60.0	30.856	26.448	38.570	55.100	95.874	166.402	274.398	306.356	325.090	326.192
62.5	16.530	18.734	18.734	18.734	35.264	79.344	178.524	252.358	269.990	278.806
65.0	13.224	13.224	12.122	13.224	15.428	24.244	98.078	191.748	238.032	231.420
67.5	9.918	11.020	9.918	11.020	13.224	13.224	44.080	122.322	196.156	185.136
70.0	7.714	7.714	6.612	7.714	7.714	9.918	13.224	66.120	138.852	142.158
72.5	3.306	2.204	4.408	5.510	4.408	4.408	5.510	22.040	79.344	99.180
75.0	2.204	2.204	2.204	3.306	3.306	3.306	5.510	5.510	35.264	66.120
77.5	1.102	0.000	2.204	2.204	2.204	2.204	2.204	4.408	5.510	29.754
80.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
82.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
87.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90.0	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>
0.0	721.810	721.810	721.810	721.810	721.810	721.810	721.810	721.810	721.810	721.810
5.0	727.320	726.218	727.320	728.422	726.218	725.116	726.218	724.014	725.116	726.218
10.0	722.912	725.116	722.912	725.116	724.014	722.912	722.912	721.810	721.810	720.708
15.0	714.096	712.994	714.096	715.198	712.994	712.994	712.994	711.892	711.892	710.790
20.0	700.872	700.872	700.872	700.872	698.668	703.076	697.566	696.464	697.566	698.668
25.0	678.832	679.934	676.628	676.628	675.526	684.342	673.322	673.322	675.526	674.424
30.0	652.384	651.282	650.180	654.588	651.282	655.690	647.976	650.180	650.180	647.976
35.0	620.426	617.120	613.814	620.426	613.814	603.896	613.814	616.018	611.610	616.018
40.0	576.346	570.836	571.938	575.244	570.836	564.224	570.836	574.142	577.448	580.754
45.0	523.450	519.042	523.450	519.042	522.348	514.634	526.756	523.450	502.512	494.798
50.0	465.044	461.738	465.044	456.228	458.432	462.840	447.412	416.556	369.170	352.640
55.0	396.720	398.924	402.230	393.414	403.332	373.578	323.988	243.542	195.054	168.606
60.0	316.274	320.682	332.804	329.498	296.438	228.114	155.382	85.956	51.794	39.672
62.5	269.990	273.296	273.296	279.908	214.890	134.444	69.426	30.856	18.734	18.734
65.0	228.114	234.726	230.318	228.114	158.688	70.528	25.346	17.632	14.326	13.224
67.5	186.238	193.952	185.136	174.116	94.772	20.938	15.428	13.224	11.020	9.918
70.0	138.852	145.464	144.362	104.690	38.570	15.428	11.020	9.918	7.714	7.714
72.5	104.690	98.078	105.792	40.774	11.020	9.918	5.510	5.510	3.306	3.306
75.0	71.630	61.712	66.120	14.326	5.510	4.408	5.510	4.408	2.204	1.102
77.5	38.570	37.468	28.652	5.510	5.510	2.204	2.204	2.204	0.000	0.000
80.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
82.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
87.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90.0	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
	180
0.0	721.810
5.0	725.116
10.0	721.810
15.0	710.790
20.0	697.566
25.0	676.628
30.0	647.976
35.0	616.018
40.0	577.448
45.0	485.982
50.0	342.722
55.0	170.810
60.0	35.264
62.5	18.734
65.0	14.326
67.5	11.020
70.0	6.612
72.5	3.306
75.0	2.204
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	270.65	N.A.	15.40
0-30	583.01	N.A.	33.20
0-40	968.04	N.A.	55.10
0-60	1631.56	N.A.	92.80
0-80	1758.15	N.A.	100.00
0-90	1758.15	N.A.	100.00
10-90	1688.99	N.A.	96.10
20-40	697.39	N.A.	39.70
20-50	1086.38	N.A.	61.80
40-70	769.90	N.A.	43.80
60-80	126.58	N.A.	7.20
70-80	20.21	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	1758.15	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	69.16
10-20	201.49
20-30	312.36
30-40	385.03
40-50	389.00
50-60	274.53
60-70	106.37
70-80	20.21
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	141	141	141	141	137	137	137	137	131	131	131	126	126	126	121	121	121	118
1	131	127	123	119	128	124	121	117	119	116	114	115	112	110	111	109	107	105
2	121	113	106	101	118	111	105	100	107	102	97	103	99	95	100	96	93	91
3	112	101	93	86	109	99	92	85	96	89	84	93	87	82	90	85	81	79
4	103	91	81	74	100	89	80	74	86	79	73	84	77	72	81	76	71	69
5	95	81	72	65	93	80	71	64	78	70	64	76	69	63	73	67	63	60
6	88	74	64	57	86	73	63	57	71	62	56	69	61	56	67	60	55	53
7	82	67	57	51	80	66	57	50	64	56	50	63	55	50	61	55	49	47
8	76	61	52	45	74	60	51	45	59	51	45	58	50	45	56	49	44	42
9	71	56	47	41	70	56	47	41	54	46	41	53	46	40	52	45	40	38
10	67	52	43	37	65	51	43	37	50	42	37	49	42	37	48	41	37	35

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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	17.7	19.2	18.1	19.5	19.8	26.0	27.5	26.4	27.8	28.1
	3H	17.6	18.9	18.0	19.3	19.6	27.1	28.4	27.5	28.8	29.1
	4H	17.6	18.8	18.0	19.1	19.5	27.3	28.5	27.7	28.9	29.2
	6H	17.5	18.6	17.9	19.0	19.4	27.3	28.4	27.7	28.7	29.1
	8H	17.4	18.5	17.9	18.9	19.3	27.2	28.3	27.6	28.7	29.1
	12H	17.4	18.4	17.9	18.8	19.3	27.2	28.2	27.6	28.6	29.0

UGR Viewed Endwise

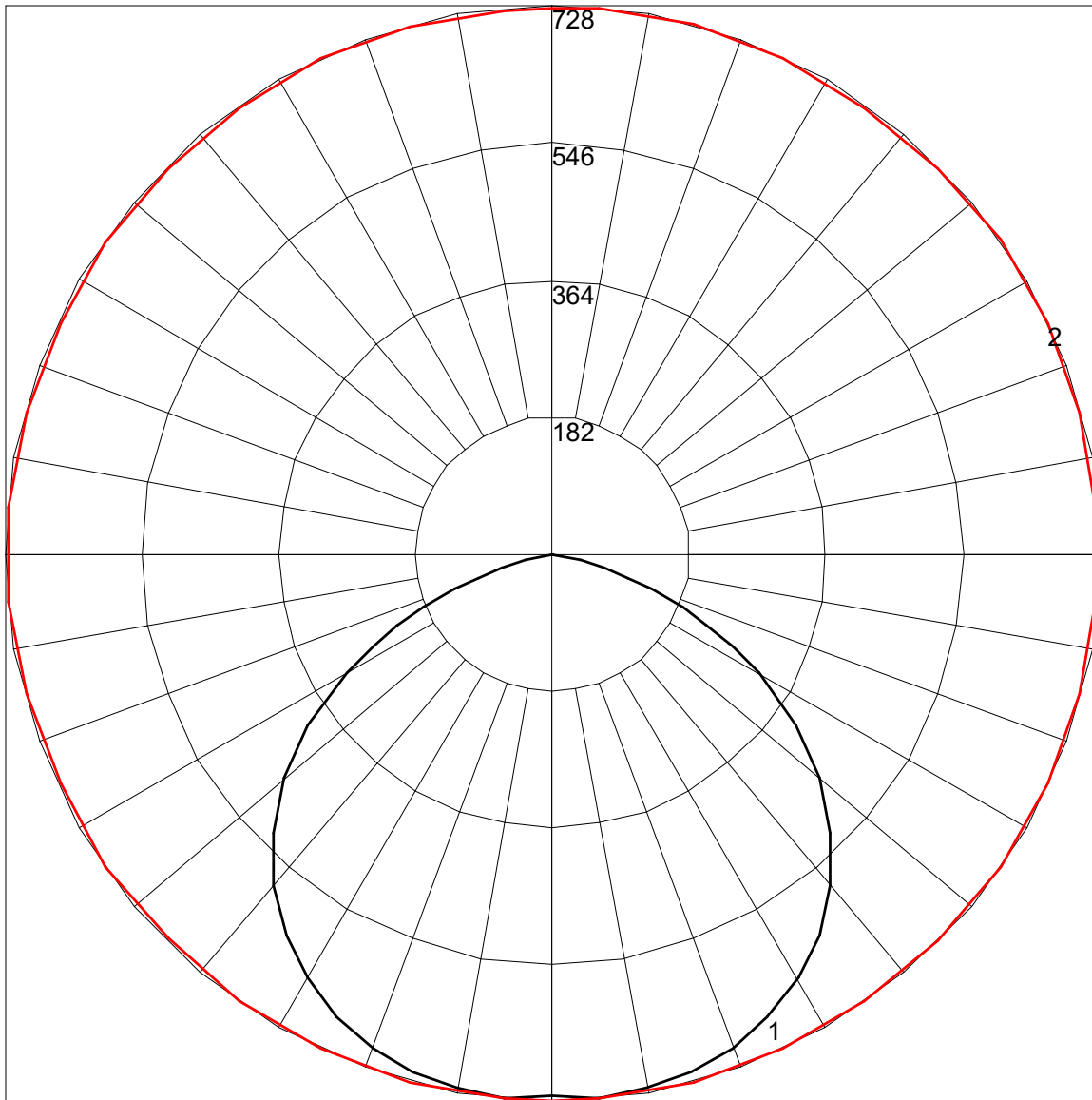
4H	2H	17.6	18.9	18.0	19.2	19.6	25.9	27.1	26.3	27.4	27.8
	3H	17.6	18.6	18.0	19.0	19.4	27.0	28.0	27.4	28.4	28.8
	4H	17.5	18.4	17.9	18.8	19.2	27.1	28.0	27.6	28.5	28.9
	6H	17.4	18.2	17.9	18.6	19.1	27.1	27.9	27.6	28.3	28.8
	8H	17.4	18.1	17.9	18.6	19.0	27.1	27.8	27.6	28.2	28.7
	12H	17.3	18.0	17.8	18.5	18.9	27.0	27.7	27.5	28.2	28.6

8H	4H	17.4	18.1	17.9	18.6	19.1	27.1	27.8	27.5	28.2	28.7
	6H	17.3	17.9	17.8	18.4	18.9	27.0	27.6	27.5	28.1	28.6
	8H	17.3	17.8	17.8	18.3	18.8	26.9	27.5	27.5	28.0	28.5
	12H	17.2	17.7	17.8	18.2	18.8	26.9	27.4	27.4	27.9	28.4

12H	4H	17.4	18.0	17.9	18.5	19.0	27.0	27.6	27.5	28.1	28.6
	6H	17.3	17.8	17.8	18.3	18.8	26.9	27.5	27.5	27.9	28.5
	8H	17.2	17.7	17.8	18.2	18.8	26.9	27.4	27.4	27.9	28.4

Maximum UGR = 29.2

POLAR GRAPH



Maximum Candela = 728.422 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.)