



IES INDOOR REPORT

PHOTOMETRIC FILENAME : VWMV-L10-740-TL-XXX-CGL-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 18041.0

[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-012S035DSP

[LUMCAT] VWMV-L10-740-DIM-UNV

[LAMPCAT] BRIDGELUX 40E2000C

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1165
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	90
Total Luminaire Watts	13
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	34284	34396	34620
55	14641	31077	32459
65	937	5436	24370
75	0	612	10407
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	475.881	475.881	475.881	475.881	475.881	475.881	475.881	475.881	475.881	475.881
5.0	484.735	481.414	478.094	479.201	478.094	478.094	478.094	478.094	478.094	478.094
10.0	479.201	478.094	478.094	476.988	476.988	474.774	475.881	474.774	474.774	472.561
15.0	474.774	473.668	472.561	472.561	472.561	471.454	472.561	470.347	469.241	469.241
20.0	465.921	462.601	461.494	461.494	461.494	461.494	461.494	459.280	460.387	458.174
25.0	449.320	448.213	447.107	448.213	448.213	448.213	446.000	446.000	447.107	444.893
30.0	428.293	431.613	429.400	430.506	430.506	432.720	428.293	430.506	428.293	430.506
35.0	408.372	408.372	406.159	405.052	405.052	408.372	407.266	407.266	406.159	410.586
40.0	375.171	379.598	375.171	377.385	374.065	376.278	375.171	375.171	376.278	379.598
45.0	338.650	343.077	338.650	343.077	339.757	339.757	341.970	343.077	344.184	347.504
50.0	250.114	253.434	260.074	287.742	295.489	298.809	299.916	303.236	301.022	304.342
55.0	117.310	123.950	119.524	187.032	202.526	249.007	258.968	263.395	256.754	260.074
60.0	22.134	25.454	26.561	52.015	76.362	144.978	203.633	210.273	209.166	214.700
62.5	12.174	13.280	13.280	17.707	30.988	69.722	133.911	174.859	171.538	180.392
65.0	5.533	8.854	6.640	13.280	18.814	32.094	73.042	139.444	149.404	157.151
67.5	4.427	4.427	3.320	5.533	9.960	16.600	22.134	91.856	129.484	126.164
70.0	2.213	2.213	2.213	5.533	5.533	11.067	11.067	48.695	99.603	97.390
72.5	1.107	1.107	1.107	3.320	2.213	5.533	5.533	6.640	60.868	66.402
75.0	0.000	1.107	2.213	2.213	2.213	2.213	5.533	4.427	28.774	42.055
77.5	0.000	0.000	0.000	0.000	1.107	1.107	2.213	2.213	3.320	16.600
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	475.881	475.881	475.881	475.881	475.881	475.881	475.881	475.881	475.881	475.881
5.0	476.988	476.988	475.881	476.988	474.774	478.094	478.094	475.881	476.988	476.988
10.0	474.774	472.561	473.668	473.668	472.561	473.668	473.668	472.561	474.774	472.561
15.0	469.241	469.241	468.134	469.241	468.134	469.241	469.241	468.134	468.134	468.134
20.0	459.280	459.280	458.174	458.174	458.174	459.280	459.280	457.067	455.960	457.067
25.0	443.787	444.893	443.787	443.787	442.680	443.787	442.680	442.680	440.467	441.573
30.0	428.293	427.186	428.293	426.079	426.079	427.186	423.866	426.079	422.759	421.653
35.0	405.052	408.372	407.266	400.625	402.839	401.732	399.519	401.732	401.732	398.412
40.0	376.278	378.491	378.491	368.531	370.744	370.744	370.744	368.531	375.171	378.491
45.0	341.970	345.290	347.504	334.223	336.437	334.223	341.970	348.610	354.144	345.290
50.0	304.342	307.663	310.983	289.955	296.596	297.702	304.342	273.355	249.007	229.087
55.0	260.074	264.501	262.288	249.007	260.074	243.474	202.526	140.551	107.350	97.390
60.0	210.273	209.166	210.273	203.633	209.166	131.697	73.042	35.414	29.881	30.988
62.5	174.859	177.072	177.072	172.645	137.231	59.762	32.094	22.134	18.814	18.814
65.0	143.871	149.404	153.831	137.231	75.256	29.881	26.561	16.600	15.494	15.494
67.5	116.203	125.057	123.950	99.603	30.988	21.027	17.707	12.174	9.960	9.960
70.0	89.643	96.283	96.283	63.082	15.494	15.494	13.280	9.960	6.640	8.854
72.5	60.868	69.722	69.722	18.814	11.067	9.960	9.960	4.427	5.533	5.533
75.0	37.628	43.161	46.481	6.640	9.960	8.854	5.533	3.320	3.320	5.533
77.5	15.494	26.561	17.707	5.533	5.533	4.427	3.320	2.213	2.213	2.213
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	1.107	0.000	0.000	0.000

CANDELA TABULATION - (Cont.)

Vert. Angles	Horizontal Angles
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	<u>180</u>
0.0	475.881
5.0	478.094
10.0	474.774
15.0	468.134
20.0	455.960
25.0	438.253
30.0	420.546
35.0	399.519
40.0	378.491
45.0	339.757
50.0	219.127
55.0	76.362
60.0	28.774
62.5	18.814
65.0	15.494
67.5	9.960
70.0	6.640
72.5	3.320
75.0	2.213
77.5	1.107
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	178.13	N.A.	15.30
0-30	383.44	N.A.	32.90
0-40	636.08	N.A.	54.60
0-60	1080.98	N.A.	92.80
0-80	1165.32	N.A.	100.00
0-90	1165.33	N.A.	100.00
10-90	1119.86	N.A.	96.10
20-40	457.95	N.A.	39.30
20-50	717.86	N.A.	61.60
40-70	515.14	N.A.	44.20
60-80	84.35	N.A.	7.20
70-80	14.11	N.A.	1.20
80-90	0.01	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	1165.33	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	45.47
10-20	132.66
20-30	205.31
30-40	252.64
40-50	259.91
50-60	184.99
60-70	70.24
70-80	14.11
80-90	0.01
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	132	132	132	132	129	129	129	129	123	123	123	118	118	118	113	113	113	111
1	123	119	115	112	120	116	113	110	112	109	106	107	105	103	104	102	100	98
2	113	106	100	94	111	104	98	93	100	95	91	97	93	89	93	90	87	85
3	105	94	87	80	102	93	86	80	90	83	78	87	81	77	84	80	76	74
4	96	85	76	69	94	83	75	69	81	74	68	78	72	67	76	71	66	64
5	89	76	67	61	87	75	67	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	77	63	54	47	75	62	53	47	60	52	47	59	52	46	57	51	46	44
8	71	57	48	42	70	56	48	42	55	47	42	54	47	42	52	46	41	39
9	67	53	44	38	65	52	44	38	51	43	38	50	43	38	48	42	37	36
10	62	48	40	35	61	48	40	34	47	39	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

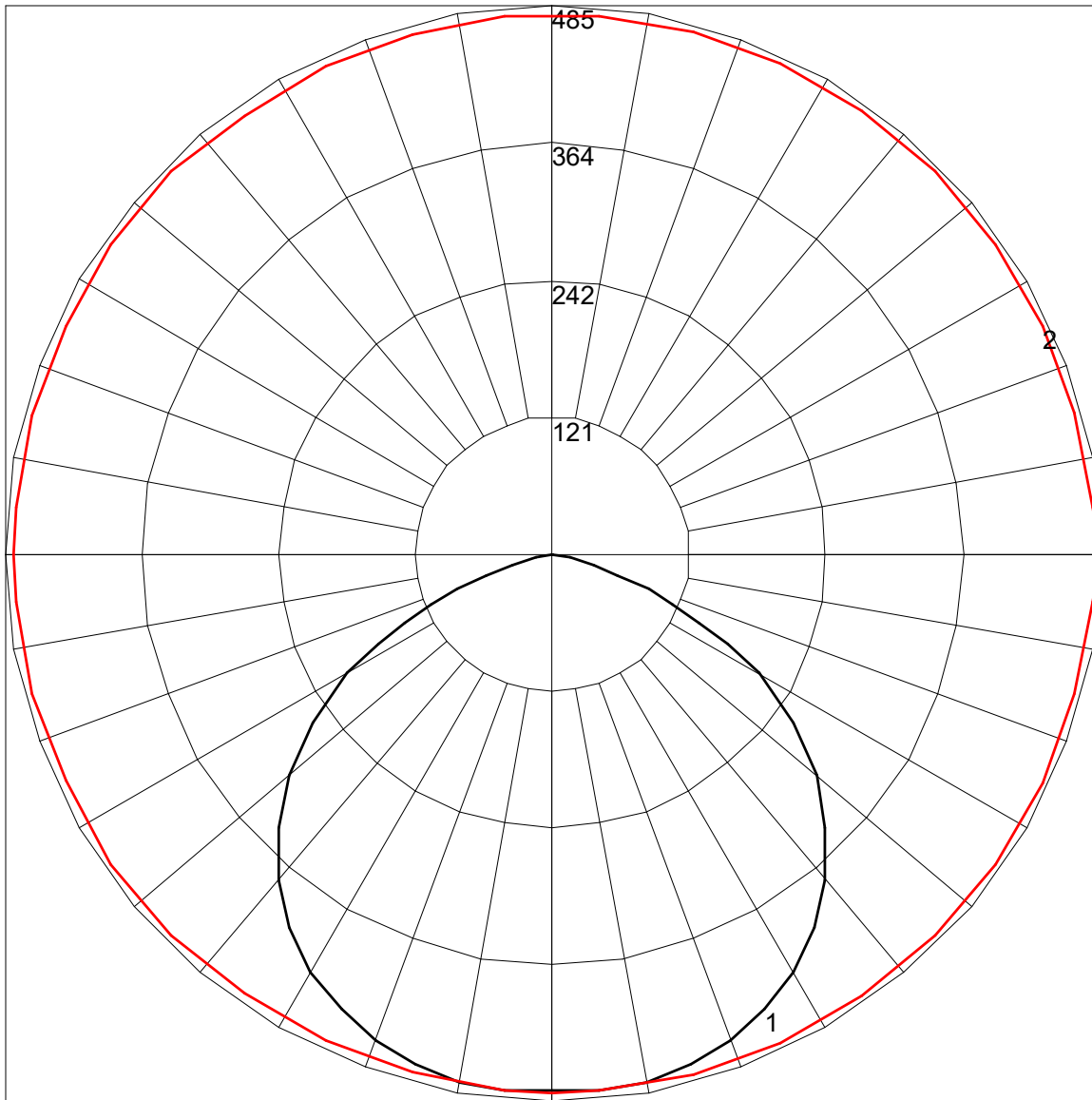
X=2H	Y=2H	17.7	19.1	18.0	19.5	19.8	24.6	26.1	25.0	26.4	26.7
	3H	17.5	18.9	17.9	19.2	19.5	25.8	27.1	26.2	27.5	27.8
	4H	17.5	18.7	17.9	19.1	19.4	26.0	27.2	26.4	27.6	28.0
	6H	17.4	18.5	17.8	18.9	19.3	26.0	27.1	26.4	27.5	27.9
	8H	17.4	18.4	17.8	18.8	19.2	25.9	27.0	26.4	27.4	27.8
	12H	17.3	18.4	17.8	18.7	19.2	25.9	26.9	26.3	27.3	27.7

UGR Viewed Endwise

4H	2H	17.8	19.0	18.2	19.3	19.7	24.5	25.7	24.9	26.1	26.4
	3H	17.7	18.7	18.1	19.1	19.5	25.7	26.7	26.1	27.1	27.5
	4H	17.6	18.5	18.0	18.9	19.3	25.9	26.8	26.3	27.2	27.6
	6H	17.5	18.3	18.0	18.7	19.2	25.9	26.6	26.3	27.1	27.5
	8H	17.5	18.2	17.9	18.6	19.1	25.8	26.5	26.3	27.0	27.4
	12H	17.4	18.1	17.9	18.5	19.0	25.8	26.4	26.2	26.9	27.4
8H	4H	17.5	18.2	18.0	18.7	19.1	25.7	26.5	26.2	26.9	27.4
	6H	17.4	18.0	17.9	18.5	19.0	25.7	26.3	26.2	26.8	27.3
	8H	17.4	17.9	17.9	18.4	18.9	25.7	26.2	26.2	26.7	27.2
	12H	17.3	17.8	17.8	18.3	18.8	25.6	26.1	26.1	26.6	27.1
12H	4H	17.5	18.1	17.9	18.6	19.1	25.7	26.4	26.2	26.8	27.3
	6H	17.4	17.9	17.9	18.4	18.9	25.7	26.2	26.2	26.7	27.2
	8H	17.3	17.8	17.8	18.3	18.8	25.6	26.1	26.1	26.6	27.1

Maximum UGR = 28.0

POLAR GRAPH



Maximum Candela = 484.735 Located At Horizontal Angle = 0, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (90 - 270)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)