



IES INDOOR REPORT

PHOTOMETRIC FILENAME : VWMV-L10-830-TL-XXX-SDGL-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
 [ISSUE DATE] 1-DEC-2022
 [MANUFAC] WILLIAMS OUTDOOR
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
 [LUMINAIRE] 6x9"MINI WALLPACK
 [MORE] MICRO PRISMATIC GLASS LENS
 [MORE] INVENTRONICS LED DRIVER #LUC-012S035DSP
 [LUMCAT] VWMV-L10-730-TL-SDGL-xxx-xxx
 [LAMPCAT] BRIDGELUX 40E2000C

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1105
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	85
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)	0.25 ft
Luminous Width (90-270)	0.75 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	26036	26121	26291
55	11119	23601	24650
65	712	4128	18507
75	0	465	7904
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	451.070	451.070	451.070	451.070	451.070	451.070	451.070	451.070	451.070	451.070
5.0	459.462	456.315	453.168	454.217	453.168	453.168	453.168	453.168	453.168	453.168
10.0	454.217	453.168	453.168	452.119	452.119	450.021	451.070	450.021	450.021	447.923
15.0	450.021	448.972	447.923	447.923	447.923	446.874	447.923	445.825	444.776	444.776
20.0	441.629	438.482	437.433	437.433	437.433	437.433	437.433	435.335	436.384	434.286
25.0	425.894	424.845	423.796	424.845	424.845	424.845	422.747	422.747	423.796	421.698
30.0	405.963	409.110	407.012	408.061	408.061	410.159	405.963	408.061	405.963	408.061
35.0	387.081	387.081	384.983	383.934	383.934	387.081	386.032	386.032	384.983	389.179
40.0	355.611	359.807	355.611	357.709	354.562	356.660	355.611	355.611	356.660	359.807
45.0	320.994	325.190	320.994	325.190	322.043	322.043	324.141	325.190	326.239	329.386
50.0	237.074	240.221	246.515	272.740	280.083	283.230	284.279	287.426	285.328	288.475
55.0	111.194	117.488	113.292	177.281	191.967	236.025	245.466	249.662	243.368	246.515
60.0	20.980	24.127	25.176	49.303	72.381	137.419	193.016	199.310	198.261	203.506
62.5	11.539	12.588	12.588	16.784	29.372	66.087	126.929	165.742	162.595	170.987
65.0	5.245	8.392	6.294	12.588	17.833	30.421	69.234	132.174	141.615	148.958
67.5	4.196	4.196	3.147	5.245	9.441	15.735	20.980	87.067	122.733	119.586
70.0	2.098	2.098	2.098	5.245	5.245	10.490	10.490	46.156	94.410	92.312
72.5	1.049	1.049	1.049	3.147	2.098	5.245	5.245	6.294	57.695	62.940
75.0	0.000	1.049	2.098	2.098	2.098	2.098	5.245	4.196	27.274	39.862
77.5	0.000	0.000	0.000	0.000	1.049	1.049	2.098	2.098	3.147	15.735
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	451.070	451.070	451.070	451.070	451.070	451.070	451.070	451.070	451.070	451.070
5.0	452.119	452.119	451.070	452.119	450.021	453.168	453.168	451.070	452.119	452.119
10.0	450.021	447.923	448.972	448.972	447.923	448.972	448.972	447.923	450.021	447.923
15.0	444.776	444.776	443.727	444.776	443.727	444.776	444.776	443.727	443.727	443.727
20.0	435.335	435.335	434.286	434.286	434.286	435.335	435.335	433.237	432.188	433.237
25.0	420.649	421.698	420.649	420.649	419.600	420.649	419.600	419.600	417.502	418.551
30.0	405.963	404.914	405.963	403.865	403.865	404.914	401.767	403.865	400.718	399.669
35.0	383.934	387.081	386.032	379.738	381.836	380.787	378.689	380.787	380.787	377.640
40.0	356.660	358.758	358.758	349.317	351.415	351.415	351.415	349.317	355.611	358.758
45.0	324.141	327.288	329.386	316.798	318.896	316.798	324.141	330.435	335.680	327.288
50.0	288.475	291.622	294.769	274.838	281.132	282.181	288.475	259.103	236.025	217.143
55.0	246.515	250.711	248.613	236.025	246.515	230.780	191.967	133.223	101.753	92.312
60.0	199.310	198.261	199.310	193.016	198.261	124.831	69.234	33.568	28.323	29.372
62.5	165.742	167.840	167.840	163.644	130.076	56.646	30.421	20.980	17.833	17.833
65.0	136.370	141.615	145.811	130.076	71.332	28.323	25.176	15.735	14.686	14.686
67.5	110.145	118.537	117.488	94.410	29.372	19.931	16.784	11.539	9.441	9.441
70.0	84.969	91.263	91.263	59.793	14.686	14.686	12.588	9.441	6.294	8.392
72.5	57.695	66.087	66.087	17.833	10.490	9.441	9.441	4.196	5.245	5.245
75.0	35.666	40.911	44.058	6.294	9.441	8.392	5.245	3.147	3.147	5.245
77.5	14.686	25.176	16.784	5.245	5.245	4.196	3.147	2.098	2.098	2.098
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	1.049	0.000	0.000	0.000

CANDELA TABULATION - (Cont.)

Vert. Angles	Horizontal Angles
	<u>180</u>
0.0	451.070
5.0	453.168
10.0	450.021
15.0	443.727
20.0	432.188
25.0	415.404
30.0	398.620
35.0	378.689
40.0	358.758
45.0	322.043
50.0	207.702
55.0	72.381
60.0	27.274
62.5	17.833
65.0	14.686
67.5	9.441
70.0	6.294
72.5	3.147
75.0	2.098
77.5	1.049
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	168.84	N.A.	15.30
0-30	363.45	N.A.	32.90
0-40	602.92	N.A.	54.60
0-60	1024.62	N.A.	92.80
0-80	1104.57	N.A.	100.00
0-90	1104.58	N.A.	100.00
10-90	1061.48	N.A.	96.10
20-40	434.07	N.A.	39.30
20-50	680.43	N.A.	61.60
40-70	488.28	N.A.	44.20
60-80	79.95	N.A.	7.20
70-80	13.37	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	1104.58	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	43.10
10-20	125.74
20-30	194.60
30-40	239.47
40-50	246.36
50-60	175.34
60-70	66.58
70-80	13.37
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	140	140	140	140	137	137	137	137	131	131	131	126	126	126	120	120	120	118
1	131	127	123	119	128	124	120	117	119	116	113	115	112	110	110	109	107	104
2	121	113	106	101	118	111	105	99	107	102	97	103	99	95	100	96	93	91
3	112	101	92	86	109	99	91	85	96	89	84	92	87	82	90	85	81	79
4	103	90	81	74	100	89	80	74	86	78	73	83	77	72	81	75	71	68
5	95	81	72	65	93	80	71	64	78	70	64	75	68	63	73	67	62	60
6	88	73	64	57	86	72	63	57	70	62	56	68	61	56	67	60	55	53
7	82	67	57	50	80	66	57	50	64	56	50	62	55	50	61	54	49	47
8	76	61	52	45	74	60	51	45	59	51	45	57	50	44	56	49	44	42
9	71	56	47	41	69	55	47	41	54	46	40	53	45	40	52	45	40	38
10	67	52	43	37	65	51	43	37	50	42	37	49	42	36	48	41	36	34

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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

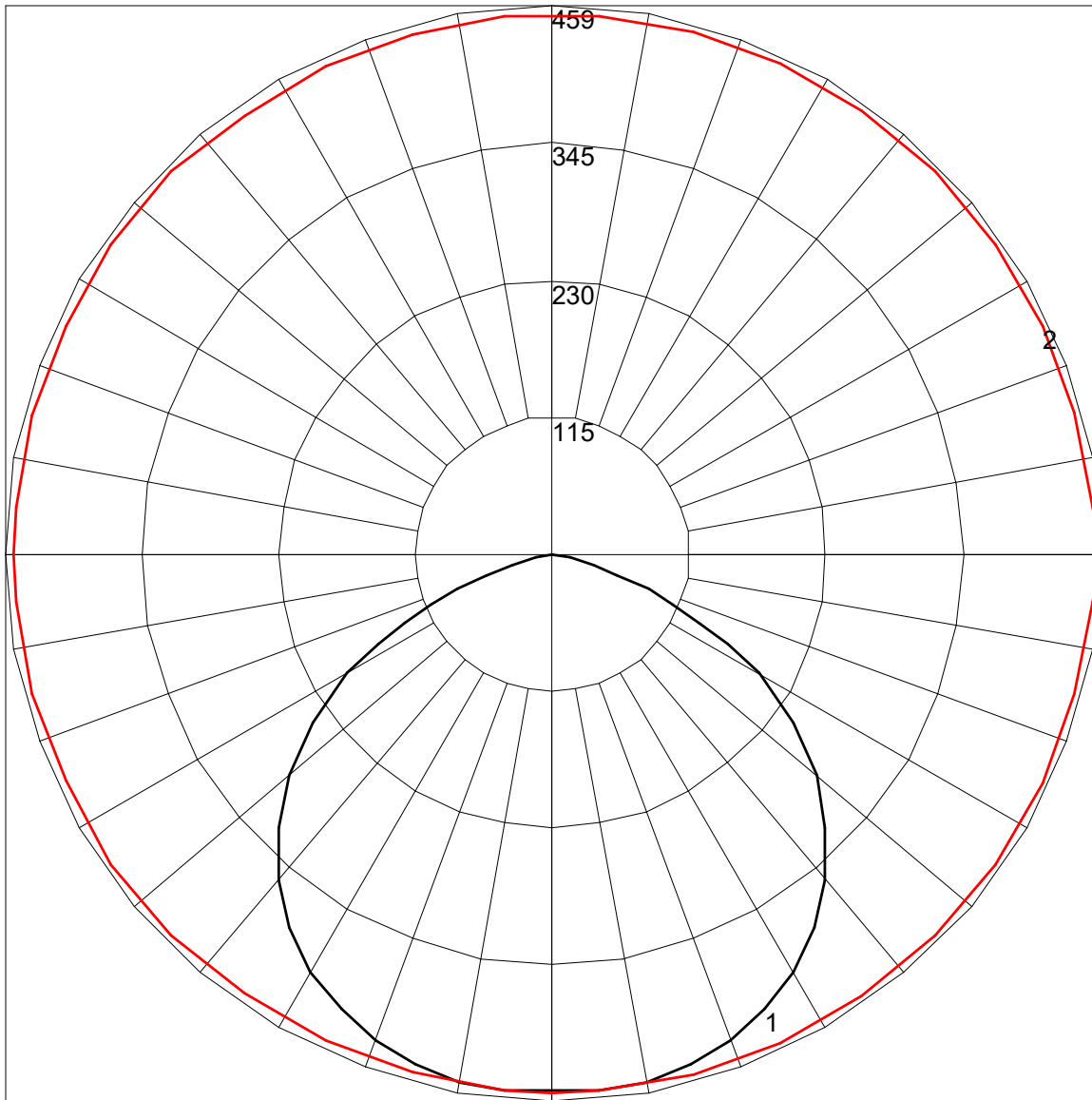
X=2H	Y=2H	16.5	18.0	16.9	18.3	18.6	23.5	24.9	23.8	25.3	25.6
	3H	16.4	17.7	16.7	18.0	18.4	24.7	26.0	25.0	26.3	26.7
	4H	16.3	17.5	16.7	17.9	18.3	24.8	26.1	25.2	26.4	26.8
	6H	16.2	17.4	16.7	17.7	18.1	24.8	25.9	25.2	26.3	26.7
	8H	16.2	17.3	16.6	17.7	18.1	24.8	25.8	25.2	26.2	26.6
	12H	16.2	17.2	16.6	17.6	18.0	24.7	25.8	25.2	26.1	26.6

UGR Viewed Endwise

4H	2H	16.6	17.8	17.0	18.2	18.5	23.3	24.5	23.7	24.9	25.3
	3H	16.5	17.5	16.9	17.9	18.3	24.5	25.5	25.0	25.9	26.3
	4H	16.4	17.3	16.8	17.7	18.2	24.7	25.6	25.1	26.0	26.4
	6H	16.3	17.1	16.8	17.6	18.0	24.7	25.4	25.1	25.9	26.4
	8H	16.3	17.0	16.7	17.5	17.9	24.6	25.3	25.1	25.8	26.3
	12H	16.3	16.9	16.7	17.4	17.8	24.6	25.2	25.1	25.7	26.2
8H	4H	16.3	17.0	16.8	17.5	18.0	24.6	25.3	25.0	25.7	26.2
	6H	16.2	16.8	16.7	17.3	17.8	24.5	25.1	25.0	25.6	26.1
	8H	16.2	16.7	16.7	17.2	17.7	24.5	25.0	25.0	25.5	26.0
	12H	16.1	16.6	16.7	17.1	17.7	24.4	24.9	25.0	25.4	26.0
12H	4H	16.3	16.9	16.8	17.4	17.9	24.5	25.2	25.0	25.7	26.1
	6H	16.2	16.7	16.7	17.2	17.7	24.5	25.0	25.0	25.5	26.0
	8H	16.1	16.6	16.7	17.1	17.7	24.4	24.9	25.0	25.4	26.0

Maximum UGR = 26.8

POLAR GRAPH



Maximum Candela = 459.462 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.)