



**IES INDOOR REPORT**

**PHOTOMETRIC FILENAME : VW4-LED23DMVSSF30.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] LLIA000535-001  
 [TESTLAB] LightLab International Allentown, LLC  
 [MANUFAC] Mobern Lighting Co., 8200 Stayton Drive, Jessup, MD 20794, USA  
 [LUMCAT] VW4-LED23DMVSSF30  
 [LUMINAIRE] Catalog Number: VW4-LED23DMVSSF30  
 [MORE] Pendant/surface mounted, white plastic vapor tight housing, white enamel internal reflector  
 [MORE] with frosted acrylic lens enclosure  
 [MORE] 128 White LEDs  
 [MORE] One Universal Lighting Technologies, Everline D10CC55UNVTZ-C LED power supply, output set at 438mA  
 [MORE] 120.0Vac, 60.0Hz, 0.1990A, 23.72W, 0.993PF, 8.24%THD(i)  
 [OTHER] Absolute test - lamp lumens value set to -1  
 [MORE] NA conventions used for C0 plane alignment and C-plane rotation direction.  
 [MORE] The sample was tested at a distance of 9.5m.  
 [MORE] This IES file created by LightLab/LSA Report program version 3.808a.  
 [DATE] This file created: Tuesday, January 19, 2016 4:08:52 PM  
 [ISSUE DATE] Tuesday, January 19, 2016 4:08:52 PM

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2971
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	125
Total Luminaire Watts	23.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.40
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	1.28 m
Luminous Width (90-270)	0.15 m
Luminous Height	0.04 m

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4512	4087	3946
55	3975	3628	3510
65	3239	2990	2833
75	2403	2154	1970
85	1353	1389	1108

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**CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
<b>0.0</b>	1016.95	1016.95	1016.95	1016.95	1016.95
<b>0.5</b>	1007.75	1017.42	1018.95	1019.67	1015.21
<b>1.0</b>	1007.50	1017.16	1018.79	1019.60	1015.12
<b>1.5</b>	1007.36	1017.11	1018.62	1019.36	1015.03
<b>2.0</b>	1006.95	1016.73	1018.31	1019.16	1014.81
<b>2.5</b>	1006.61	1016.36	1017.90	1018.75	1014.55
<b>3.0</b>	1006.03	1016.00	1017.53	1018.33	1014.19
<b>3.5</b>	1005.45	1015.36	1016.88	1017.84	1013.64
<b>4.0</b>	1004.86	1014.71	1016.30	1017.25	1013.13
<b>4.5</b>	1004.01	1013.96	1015.58	1016.52	1012.47
<b>5.0</b>	1003.18	1013.15	1014.82	1015.80	1011.91
<b>5.5</b>	1002.24	1012.28	1013.81	1015.00	1011.11
<b>6.0</b>	1001.18	1011.27	1012.92	1014.13	1010.29
<b>6.5</b>	1000.15	1010.23	1011.93	1013.09	1009.33
<b>7.0</b>	998.91	1009.13	1010.86	1011.98	1008.18
<b>7.5</b>	997.69	1007.75	1009.62	1010.79	1007.16
<b>8.0</b>	996.29	1006.55	1008.24	1009.56	1005.95
<b>8.5</b>	994.86	1005.06	1006.87	1008.22	1004.65
<b>9.0</b>	993.17	1003.50	1005.40	1006.74	1003.36
<b>9.5</b>	991.57	1001.96	1003.88	1005.28	1002.00
<b>10.0</b>	989.84	1000.22	1002.34	1003.72	1000.39
<b>10.5</b>	987.98	998.53	1000.54	1002.04	998.73
<b>11.0</b>	986.24	996.65	998.72	1000.17	997.07
<b>11.5</b>	984.15	994.70	996.86	998.29	995.16
<b>12.0</b>	982.14	992.65	994.81	996.39	993.29
<b>12.5</b>	979.83	990.50	992.73	994.33	991.45
<b>13.0</b>	977.66	988.33	990.58	992.13	989.25
<b>13.5</b>	975.32	986.05	988.39	990.04	987.21
<b>14.0</b>	972.90	983.71	986.14	987.78	985.03
<b>14.5</b>	970.34	981.15	983.71	985.35	982.65
<b>15.0</b>	967.67	978.68	981.21	982.82	980.24
<b>15.5</b>	964.94	975.97	978.57	980.29	977.81
<b>16.0</b>	962.16	973.31	975.93	977.57	975.21
<b>16.5</b>	959.38	970.47	973.19	974.97	972.61
<b>17.0</b>	956.37	967.60	970.32	972.12	969.95
<b>17.5</b>	953.14	964.51	967.42	969.23	967.11
<b>18.0</b>	950.14	961.40	964.41	966.25	964.14
<b>18.5</b>	946.95	958.25	961.33	963.12	961.21
<b>19.0</b>	943.55	954.91	958.11	959.97	958.17
<b>19.5</b>	940.22	951.52	954.85	956.80	955.07
<b>20.0</b>	936.72	948.06	951.53	953.55	951.75
<b>20.5</b>	933.03	944.44	948.11	950.06	948.42
<b>21.0</b>	929.46	940.81	944.69	946.76	945.21
<b>21.5</b>	925.76	937.11	941.13	943.27	941.79
<b>22.0</b>	921.80	933.24	937.37	939.52	938.21
<b>22.5</b>	917.92	929.34	933.58	935.93	934.64
<b>23.0</b>	913.86	925.33	929.73	932.19	931.13
<b>23.5</b>	909.66	921.06	925.79	928.27	927.24
<b>24.0</b>	905.42	916.96	921.77	924.48	923.52
<b>24.5</b>	901.15	912.64	917.77	920.44	919.71
<b>25.0</b>	896.64	908.25	913.58	916.44	915.77
<b>25.5</b>	892.11	903.71	909.39	912.35	911.82
<b>26.0</b>	887.65	899.25	905.07	908.20	907.86
<b>26.5</b>	882.89	894.55	900.67	903.86	903.64

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**CANDELA TABULATION - (Cont.)**

27.0	878.05	889.79	896.18	899.47	899.44
27.5	873.28	885.05	891.73	895.16	895.21
28.0	868.18	880.04	887.03	890.69	890.94
28.5	863.16	875.15	882.48	886.12	886.62
29.0	858.06	870.04	877.63	881.48	882.20
29.5	852.70	864.84	872.78	876.85	877.65
30.0	847.29	859.63	867.90	872.18	873.03
30.5	841.93	854.30	863.02	867.37	868.48
31.0	836.25	848.77	857.91	862.33	863.59
31.5	830.58	843.31	852.86	857.52	858.79
32.0	824.87	837.67	847.67	852.53	853.97
32.5	818.94	831.93	842.39	847.37	848.88
33.0	812.92	826.13	837.07	842.24	843.65
33.5	807.02	820.25	831.75	836.96	838.55
34.0	800.72	814.21	826.31	831.62	833.40
34.5	794.49	808.25	820.76	826.14	827.89
35.0	788.20	802.17	815.22	820.67	822.56
35.5	781.58	795.84	809.56	814.96	816.87
36.0	774.94	789.57	803.82	809.31	811.30
36.5	768.39	783.20	798.11	803.56	805.64
37.0	761.44	776.66	792.22	797.71	799.75
37.5	754.63	770.14	786.37	791.73	793.96
38.0	747.60	763.50	780.39	785.83	788.01
38.5	740.49	756.77	774.34	779.70	781.90
39.0	733.30	750.14	768.28	773.55	775.93
39.5	726.11	743.21	762.15	767.26	769.79
40.0	718.62	736.28	755.86	760.98	763.48
40.5	711.16	729.26	749.64	754.62	757.10
41.0	703.61	722.32	743.22	748.16	750.94
41.5	695.86	715.14	736.69	741.58	744.38
42.0	688.26	707.95	730.15	735.00	737.77
42.5	680.46	700.70	723.57	728.42	731.40
43.0	672.59	693.42	716.83	721.58	724.74
43.5	664.61	685.97	710.08	714.96	718.18
44.0	656.50	678.50	703.25	708.10	711.54
44.5	648.49	671.00	696.19	701.13	704.72
45.0	640.34	663.51	689.24	694.26	698.07
45.5	631.98	655.91	682.28	687.34	691.30
46.0	623.58	648.19	674.98	680.22	684.35
46.5	615.29	640.48	667.89	673.29	677.55
47.0	606.94	632.78	660.64	666.24	670.77
47.5	598.18	624.84	653.24	658.99	663.75
48.0	589.70	617.05	645.86	651.92	656.75
48.5	581.03	609.13	638.37	644.69	649.68
49.0	572.19	601.11	630.82	637.38	642.43
49.5	563.56	593.12	623.14	630.15	635.28
50.0	554.71	585.08	615.62	622.86	628.08
50.5	545.72	576.88	607.73	615.28	620.62
51.0	536.93	568.72	599.94	607.92	613.32
51.5	527.99	560.67	592.24	600.41	605.92
52.0	518.92	552.30	584.21	592.83	598.40
52.5	509.87	544.03	576.30	585.25	590.79
53.0	500.76	535.76	568.31	577.51	583.32
53.5	491.59	527.27	560.19	569.67	575.55
54.0	482.61	518.93	552.27	561.96	567.90
54.5	473.53	510.57	544.19	554.26	560.20

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**CANDELA TABULATION - (Cont.)**

55.0	464.21	501.90	535.82	546.13	552.16
55.5	455.16	493.55	527.72	538.35	544.38
56.0	445.88	485.04	519.54	530.40	536.56
56.5	436.62	476.44	511.16	522.27	528.34
57.0	427.59	467.82	502.85	514.19	520.22
57.5	418.47	459.35	494.52	506.02	512.04
58.0	409.23	450.56	485.94	497.72	503.61
58.5	400.02	441.99	477.61	489.50	495.30
59.0	390.95	433.43	469.18	481.12	486.67
59.5	381.85	424.60	460.45	472.54	477.84
60.0	372.84	416.06	452.04	464.15	469.25
60.5	363.80	407.43	443.51	455.58	460.46
61.0	354.84	398.62	434.85	446.67	451.24
61.5	345.84	390.07	426.17	438.00	442.30
62.0	337.07	381.46	417.61	429.20	433.06
62.5	328.11	372.78	408.81	420.14	423.68
63.0	319.43	364.16	400.24	411.16	414.38
63.5	310.79	355.61	391.52	402.09	404.89
64.0	302.12	346.99	382.84	392.74	395.23
64.5	293.54	338.57	374.21	383.68	385.99
65.0	285.23	330.16	365.58	374.54	376.51
65.5	276.74	321.49	356.78	365.04	366.87
66.0	268.45	313.16	348.11	355.80	357.53
66.5	260.27	304.79	339.54	346.68	348.35
67.0	252.01	296.48	330.83	337.40	339.02
67.5	244.17	288.13	322.21	328.23	329.89
68.0	236.28	280.00	313.64	319.23	321.01
68.5	228.30	271.77	305.03	310.10	312.09
69.0	220.68	263.68	296.54	301.36	303.58
69.5	213.10	255.71	288.05	292.71	294.97
70.0	205.49	247.70	279.52	283.96	286.41
70.5	198.04	239.87	271.27	275.72	278.15
71.0	190.79	232.15	262.99	267.51	269.90
71.5	183.48	224.25	254.68	259.17	261.79
72.0	176.55	216.78	246.61	251.31	253.73
72.5	169.56	209.24	238.65	243.39	245.71
73.0	162.60	201.81	230.77	235.52	237.63
73.5	155.91	194.41	222.97	227.89	229.70
74.0	149.12	187.21	215.37	220.09	221.72
74.5	142.59	180.06	207.83	212.57	213.72
75.0	136.22	173.07	200.61	205.21	205.80
75.5	129.86	166.20	193.45	197.80	198.01
76.0	123.57	159.37	186.37	190.33	190.29
76.5	117.49	152.86	179.58	183.12	182.74
77.0	111.42	146.37	172.86	175.95	175.36
77.5	105.48	139.99	166.19	168.89	168.02
78.0	99.67	133.79	159.87	162.03	160.87
78.5	93.89	127.75	153.56	155.40	153.97
79.0	88.34	121.84	147.32	148.66	147.18
79.5	82.81	116.22	141.38	142.36	140.54
80.0	77.59	110.71	135.48	136.11	134.17
80.5	72.19	105.33	129.68	130.01	127.92
81.0	67.13	100.18	124.10	124.08	121.80
81.5	62.16	95.19	118.70	118.42	115.99
82.0	57.33	90.34	113.46	112.73	110.22
82.5	52.53	85.67	108.28	107.42	104.76

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**CANDELA TABULATION - (Cont.)**

83.0	48.12	81.28	103.35	102.22	99.62
83.5	43.70	76.86	98.41	97.21	94.60
84.0	39.72	72.87	93.83	92.45	89.84
84.5	35.70	68.84	89.32	87.90	85.23
85.0	31.91	65.05	84.98	83.45	80.77
85.5	28.52	61.41	80.85	79.32	76.75
86.0	25.33	57.99	76.96	75.35	72.65
86.5	22.33	54.59	73.09	71.48	68.89
87.0	19.59	51.48	69.49	67.91	65.49
87.5	17.35	48.44	66.09	64.55	62.05
88.0	15.27	45.53	62.77	61.25	58.98
88.5	13.54	42.82	59.62	58.25	55.99
89.0	12.31	40.26	56.67	55.38	53.17
89.5	11.21	37.68	53.87	52.62	50.41
90.0	10.48	35.48	51.15	50.10	48.03
90.5	9.98	33.30	48.71	47.70	45.74
91.0	9.73	31.23	46.24	45.35	43.52
91.5	9.56	29.33	44.06	43.29	41.46
92.0	9.40	27.51	41.89	41.31	39.60
92.5	9.14	25.87	39.89	39.27	37.70
93.0	9.06	24.23	37.95	37.59	36.02
93.5	8.83	22.74	36.18	35.91	34.51
94.0	8.72	21.36	34.47	34.32	32.99
94.5	8.62	20.08	32.94	32.87	31.63
95.0	8.51	18.86	31.42	31.48	30.30
95.5	8.29	17.64	30.00	30.20	29.04
96.0	8.15	16.59	28.58	28.97	27.92
96.5	8.14	15.56	27.39	27.84	26.87
97.0	8.06	14.62	26.14	26.71	25.80
97.5	8.04	13.74	24.99	25.72	24.87
98.0	7.85	12.86	23.95	24.74	23.90
98.5	7.78	12.13	22.83	23.92	23.12
99.0	7.66	11.44	21.84	22.96	22.31
99.5	7.54	10.73	20.76	22.16	21.48
100.0	7.47	10.16	19.89	21.34	20.81
100.5	7.50	9.66	18.89	20.61	20.10
101.0	7.24	9.13	17.97	19.86	19.43
101.5	7.12	8.64	17.20	19.21	18.78
102.0	6.97	8.22	16.34	18.50	18.22
102.5	6.89	7.85	15.60	17.93	17.59
103.0	6.82	7.46	14.95	17.26	17.06
103.5	6.61	7.09	14.23	16.66	16.58
104.0	6.50	6.74	13.62	16.01	16.01
104.5	6.37	6.50	12.89	15.47	15.40
105.0	6.16	6.16	12.28	14.93	15.05
105.5	6.07	5.86	11.76	14.41	14.56
106.0	5.90	5.66	11.20	13.89	14.17
106.5	5.79	5.44	10.72	13.56	13.61
107.0	5.65	5.23	10.17	13.07	13.35
107.5	5.48	4.98	9.71	12.57	12.95
108.0	5.28	4.77	9.28	12.25	12.55
108.5	5.07	4.64	8.87	11.82	12.18
109.0	4.92	4.34	8.42	11.45	11.74
109.5	4.77	4.29	8.08	11.03	11.39
110.0	4.68	4.21	7.69	10.70	11.13
110.5	4.54	4.02	7.26	10.28	10.74

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**CANDELA TABULATION - (Cont.)**

111.0	4.43	3.92	7.04	9.89	10.47
111.5	4.31	3.85	6.61	9.57	10.09
112.0	4.16	3.75	6.21	9.26	9.79
112.5	3.99	3.72	5.97	8.88	9.55
113.0	3.93	3.60	5.54	8.65	9.25
113.5	3.80	3.55	5.34	8.30	8.87
114.0	3.67	3.45	5.12	8.05	8.69
114.5	3.65	3.37	4.77	7.72	8.34
115.0	3.46	3.31	4.51	7.33	8.09
115.5	3.38	3.21	4.28	7.11	7.78
116.0	3.23	3.12	4.09	6.83	7.75
116.5	3.23	3.04	3.83	6.63	7.41
117.0	3.14	2.96	3.60	6.30	7.18
117.5	3.08	2.89	3.35	6.06	6.87
118.0	2.99	2.89	3.20	5.86	6.63
118.5	2.87	2.76	2.95	5.54	6.43
119.0	2.86	2.76	2.79	5.37	6.19
119.5	2.76	2.63	2.66	5.02	5.94
120.0	2.67	2.59	2.51	4.93	5.76
120.5	2.69	2.55	2.38	4.66	5.57
121.0	2.62	2.53	2.21	4.47	5.33
121.5	2.58	2.47	2.05	4.31	5.02
122.0	2.48	2.42	1.93	4.06	4.85
122.5	2.54	2.36	1.84	3.89	4.77
123.0	2.40	2.30	1.79	3.68	4.44
123.5	2.41	2.29	1.61	3.55	4.27
124.0	2.37	2.19	1.57	3.36	4.16
124.5	2.28	2.23	1.57	3.19	4.02
125.0	2.28	2.17	1.49	3.06	3.77
125.5	2.30	2.14	1.49	2.94	3.60
126.0	2.24	2.08	1.38	2.74	3.54
126.5	2.24	2.10	1.46	2.70	3.39
127.0	2.16	2.08	1.47	2.50	3.20
127.5	2.14	2.01	1.47	2.40	2.99
128.0	2.18	2.02	1.51	2.29	2.87
128.5	2.04	2.03	1.50	2.14	2.78
129.0	2.09	1.93	1.46	2.05	2.63
129.5	2.07	1.98	1.57	1.92	2.53
130.0	1.99	1.94	1.51	1.81	2.39
130.5	2.00	1.89	1.53	1.78	2.37
131.0	2.04	1.87	1.54	1.68	2.09
131.5	2.02	1.86	1.58	1.68	2.05
132.0	1.88	1.84	1.54	1.61	1.93
132.5	1.87	1.77	1.50	1.60	1.90
133.0	1.83	1.82	1.53	1.56	1.76
133.5	1.78	1.72	1.59	1.56	1.76
134.0	1.81	1.77	1.47	1.52	1.66
134.5	1.79	1.74	1.58	1.56	1.56
135.0	1.81	1.77	1.53	1.53	1.60
135.5	1.73	1.72	1.56	1.52	1.54
136.0	1.70	1.72	1.47	1.58	1.52
136.5	1.69	1.66	1.52	1.55	1.52
137.0	1.75	1.68	1.49	1.49	1.55
137.5	1.66	1.60	1.51	1.49	1.44
138.0	1.68	1.60	1.48	1.56	1.50
138.5	1.54	1.58	1.39	1.51	1.48

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VW4-LED23DMVSSF30.IES**

**CANDELA TABULATION - (Cont.)**

139.0	1.68	1.56	1.47	1.48	1.41
139.5	1.64	1.51	1.46	1.47	1.44
140.0	1.54	1.56	1.47	1.48	1.52
140.5	1.54	1.51	1.38	1.42	1.40
141.0	1.57	1.45	1.41	1.42	1.43
141.5	1.57	1.43	1.40	1.42	1.39
142.0	1.50	1.46	1.40	1.38	1.37
142.5	1.40	1.46	1.38	1.44	1.34
143.0	1.50	1.43	1.42	1.41	1.40
143.5	1.43	1.44	1.33	1.33	1.39
144.0	1.40	1.42	1.38	1.39	1.46
144.5	1.35	1.40	1.28	1.38	1.32
145.0	1.44	1.40	1.32	1.33	1.36
145.5	1.34	1.35	1.26	1.37	1.32
146.0	1.33	1.35	1.30	1.31	1.32
146.5	1.31	1.35	1.31	1.30	1.30
147.0	1.37	1.33	1.31	1.29	1.27
147.5	1.30	1.29	1.30	1.23	1.22
148.0	1.39	1.28	1.28	1.28	1.19
148.5	1.29	1.24	1.22	1.26	1.19
149.0	1.27	1.20	1.23	1.24	1.15
149.5	1.17	1.23	1.24	1.23	1.13
150.0	1.18	1.26	1.15	1.14	1.13
150.5	1.16	1.20	1.15	1.09	1.09
151.0	1.14	1.19	1.13	1.10	1.06
151.5	1.14	1.13	1.10	1.08	1.06
152.0	1.16	1.09	1.02	0.98	1.02
152.5	1.11	1.04	1.07	1.05	1.02
153.0	1.10	1.04	1.01	1.04	0.97
153.5	0.94	1.05	0.99	0.95	1.02
154.0	0.99	0.98	0.98	0.99	0.91
154.5	1.03	0.99	0.93	0.94	0.96
155.0	0.95	1.00	0.95	0.94	0.85
155.5	0.95	0.97	0.93	0.86	0.83
156.0	1.00	0.94	0.96	0.89	0.86
156.5	0.94	0.93	0.92	0.93	0.90
157.0	0.98	0.88	0.87	0.84	0.88
157.5	0.89	0.92	0.83	0.88	0.88
158.0	0.87	0.86	0.89	0.83	0.84
158.5	0.87	0.89	0.86	0.87	0.84
159.0	0.86	0.91	0.85	0.83	0.76
159.5	0.94	0.92	0.84	0.86	0.80
160.0	0.90	0.84	0.86	0.83	0.76
160.5	0.84	0.90	0.82	0.77	0.81
161.0	0.88	0.89	0.86	0.83	0.81
161.5	0.75	0.82	0.81	0.80	0.75
162.0	0.79	0.83	0.84	0.74	0.85
162.5	0.84	0.78	0.79	0.78	0.75
163.0	0.84	0.82	0.81	0.76	0.77
163.5	0.84	0.80	0.78	0.77	0.78
164.0	0.84	0.82	0.74	0.80	0.81
164.5	0.83	0.86	0.79	0.74	0.75
165.0	0.77	0.80	0.80	0.78	0.77
165.5	0.84	0.80	0.79	0.77	0.78
166.0	0.85	0.77	0.76	0.72	0.72
166.5	0.76	0.74	0.78	0.70	0.76



**IES INDOOR REPORT**  
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**CANDELA TABULATION - (Cont.)**

167.0	0.81	0.88	0.78	0.71	0.78
167.5	0.80	0.81	0.73	0.77	0.71
168.0	0.78	0.84	0.70	0.71	0.69
168.5	0.79	0.81	0.74	0.73	0.74
169.0	0.80	0.79	0.77	0.69	0.74
169.5	0.75	0.79	0.75	0.73	0.74
170.0	0.78	0.73	0.73	0.76	0.72
170.5	0.00	0.00	0.00	0.00	0.00
171.0	0.00	0.00	0.00	0.00	0.00
171.5	0.00	0.00	0.00	0.00	0.00
172.0	0.00	0.00	0.00	0.00	0.00
172.5	0.00	0.00	0.00	0.00	0.00
173.0	0.00	0.00	0.00	0.00	0.00
173.5	0.00	0.00	0.00	0.00	0.00
174.0	0.00	0.00	0.00	0.00	0.00
174.5	0.00	0.00	0.00	0.00	0.00
175.0	0.00	0.00	0.00	0.00	0.00
175.5	0.00	0.00	0.00	0.00	0.00
176.0	0.00	0.00	0.00	0.00	0.00
176.5	0.00	0.00	0.00	0.00	0.00
177.0	0.00	0.00	0.00	0.00	0.00
177.5	0.00	0.00	0.00	0.00	0.00
178.0	0.00	0.00	0.00	0.00	0.00
178.5	0.00	0.00	0.00	0.00	0.00
179.0	0.00	0.00	0.00	0.00	0.00
179.5	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VW4-LED23DMVSSF30.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	372.65	N.A.	12.50
0-30	792.55	N.A.	26.70
0-40	1299.52	N.A.	43.70
0-60	2290.21	N.A.	77.10
0-80	2836.71	N.A.	95.50
0-90	2919.1	N.A.	98.30
10-90	2822.82	N.A.	95.00
20-40	926.87	N.A.	31.20
20-50	1450.38	N.A.	48.80
40-70	1337.47	N.A.	45.00
60-80	546.50	N.A.	18.40
70-80	199.72	N.A.	6.70
80-90	82.40	N.A.	2.80
90-110	40.97	N.A.	1.40
90-120	46.31	N.A.	1.60
90-130	48.61	N.A.	1.60
90-150	50.73	N.A.	1.70
90-180	51.41	N.A.	1.70
110-180	10.44	N.A.	0.40
0-180	2970.51	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	96.28
10-20	276.37
20-30	419.90
30-40	506.97
40-50	523.51
50-60	467.18
60-70	346.78
70-80	199.72
80-90	82.40
90-100	28.93
100-110	12.03
110-120	5.35
120-130	2.29
130-140	1.27
140-150	0.85
150-160	0.45
160-170	0.22
170-180	0.00

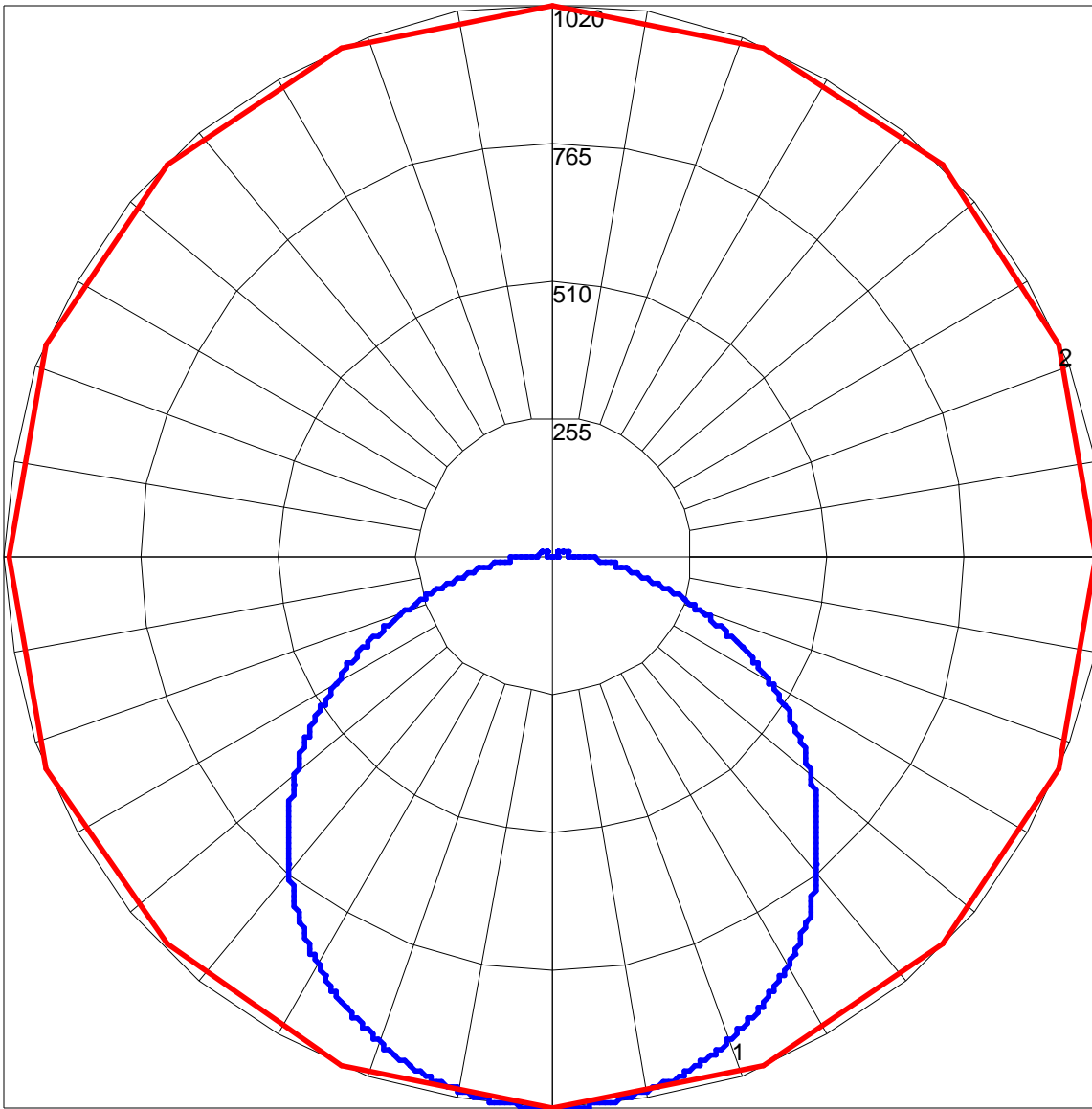
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VW4-LED23DMVSSF30.IES**

**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	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	110	110	110	105	105	105	100	100	100	98
1	108	103	99	95	105	101	97	93	96	93	90	92	89	87	88	86	84	82
2	98	90	83	77	95	88	81	76	84	79	74	80	76	72	77	73	70	68
3	89	79	71	64	87	77	69	63	74	67	62	71	65	61	68	63	59	57
4	82	70	61	54	79	68	60	54	66	58	53	63	57	52	61	55	51	49
5	75	62	53	47	73	61	53	46	59	51	46	57	50	45	55	49	44	42
6	70	56	47	41	67	55	47	40	53	46	40	51	45	39	49	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	41	35	31	29
9	56	43	34	29	54	42	34	29	41	33	28	39	33	28	38	32	28	26
10	53	39	31	26	51	39	31	26	38	31	26	36	30	26	36	30	25	24

POLAR GRAPH



Maximum Candela = 1019.67 Located At Horizontal Angle = 67.5, Vertical Angle = .5  
# 1 - Vertical Plane Through Horizontal Angles (67.5 - 247.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (.5) (Through Max. Cd.)