

IES Report

ZipTwo® | 707 | Square 3519, Side Diffuse | 80 CRI | LO

707-Z2-4-48-XX-XX-X-0-Z-LO-35-F9-X-BL-0

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	51	53	54	54
Total Lumens, 4' rail length (1219mm)	752	775	791	791
Lumens per foot (305mm)	188	194	198	198
Input Power (W), 4' rail length (1219mm)	14.9	14.9	14.9	14.9
Watts per foot (305mm)	3.8	3.8	3.8	3.8
CRI	82	82	82	82

Due to the large number of options in Vode's product offering, most Vode IES reports are factored reports prepared from source reports. Source reports are the IES test reports prepared for Vode by an NVLAP accredited photometric test laboratory. Factored reports are based on data from the Vode source reports.

If the data above is in black, it is directly from a Vode source report. If it is in grey, it is factored from Vode source reports. Reference details on Vode source reports can be found on the [IES File Finder](#) page on [vode.com](#).



IES INDOOR REPORT

PHOTOMETRIC FILENAME : VODE_707_Z2_LO_35_F9_BL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L082011213 (SOURCE REPORT FOR REFERENCE)

[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB

[ISSUE DATE] 9/9/2020

[MANUFAC] Vode Lighting

[LUMCAT] 707-Z2-48-Z-LO-35-F9-BL

[LUMINAIRE] ZipTwo LED, 48", 3500K, 80 CRI, zipper board,

[MORE] square 3519, side diffuse black lens, low output

[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	791
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	53
Total Luminaire Watts	14.89
Ballast Factor	1.00
CIE Type	General Diffuse
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.13 ft
Luminous Width (90-270)	3.99 ft
Luminous Height	0.05 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2045	1387	115
55	2863	1918	116
65	3877	2629	114
75	5117	3645	123
85	6944	5448	212

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CANDELA TABULATION

	<u>0</u>	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>35</u>	<u>40</u>	<u>45</u>
0	5.696	5.696	5.696	5.696	5.696	5.696	5.696	5.696	5.696	5.696
5	11.084	11.084	10.985	10.892	10.747	10.550	10.307	10.017	9.727	9.332
10	18.769	18.670	18.525	18.282	17.893	17.504	16.919	16.286	15.509	14.732
15	27.127	27.034	26.738	26.303	25.624	24.795	23.873	22.753	21.443	20.126
20	36.465	36.320	35.931	35.247	34.226	32.961	31.506	29.800	27.910	25.961
25	47.061	46.818	46.185	45.217	43.807	42.004	39.962	37.532	34.910	32.184
30	58.441	58.197	57.368	56.057	54.207	51.875	49.248	46.040	42.543	38.895
35	70.499	70.157	69.136	67.529	65.146	62.234	58.829	54.891	50.564	45.994
40	83.236	82.795	81.531	79.443	76.525	72.929	68.794	63.980	58.731	53.238
45	96.558	95.973	94.418	91.936	88.241	83.914	78.955	73.266	66.996	60.581
50	109.782	109.197	107.254	104.284	99.957	94.905	89.018	82.261	74.971	67.628
55	122.711	121.887	119.793	116.244	111.285	105.450	98.693	90.967	82.749	74.339
60	134.282	133.504	131.121	127.235	121.545	115.078	107.544	98.989	89.749	80.463
65	144.200	143.231	140.604	136.178	130.297	123.296	115.130	105.844	95.775	85.857
70	151.299	150.377	147.558	143.080	137.008	129.566	121.011	111.580	100.688	90.091
75	155.579	154.558	151.832	147.361	141.137	133.649	124.996	115.275	104.481	93.200
80	157.331	156.455	153.729	149.356	143.376	135.790	126.846	117.073	106.523	95.439
85	157.522	156.646	153.926	149.692	143.910	136.375	127.913	117.949	107.497	96.408
90	156.548	155.678	153.149	148.869	143.179	135.888	127.478	117.705	107.056	96.118
95	154.993	154.170	151.641	147.604	141.868	134.624	126.405	116.783	106.279	95.439
100	152.760	151.931	149.402	145.464	139.774	132.629	124.509	115.078	104.725	94.122
105	149.257	148.480	145.998	142.112	136.520	129.618	121.643	112.404	102.341	92.081
110	144.298	143.475	141.137	137.344	131.904	125.239	117.508	108.611	98.936	89.071
115	137.785	137.008	134.722	131.121	125.825	119.648	112.305	103.948	94.755	85.376
120	129.810	129.079	126.945	123.441	118.627	112.793	106.036	98.159	89.703	80.898
125	120.379	119.747	117.804	114.591	110.217	104.968	98.838	91.889	83.816	75.696
130	110.171	109.487	107.787	104.968	101.077	96.315	90.770	84.547	76.914	68.017
135	99.180	98.693	97.092	94.662	91.205	87.029	81.971	74.629	66.607	58.586
140	87.609	87.122	85.811	83.526	80.365	76.427	69.478	62.814	56.591	50.663
145	74.774	74.385	73.266	71.421	68.846	63.104	57.809	52.896	47.937	43.123
150	63.400	63.011	62.135	60.627	56.347	51.585	47.357	43.367	40.159	36.853
155	51.829	51.533	50.709	47.746	43.755	40.258	37.340	35.490	33.205	29.951
160	39.771	39.527	38.216	34.469	32.039	29.951	28.930	27.277	24.650	22.168
165	26.547	26.257	23.971	22.852	21.535	21.390	20.277	18.624	17.116	15.944
170	17.209	15.753	14.877	14.442	15.074	14.923	14.535	14.053	13.514	12.934
175	10.405	9.141	9.431	10.115	10.162	10.017	9.819	9.727	9.483	9.187
180	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>50</u>	<u>55</u>	<u>60</u>	<u>65</u>	<u>70</u>	<u>75</u>	<u>80</u>	<u>85</u>	<u>90</u>	<u>95</u>
0	5.696	5.696	5.696	5.696	5.696	5.696	5.696	5.696	5.696	5.696
5	8.996	8.555	8.120	7.633	7.198	6.711	6.223	5.835	5.446	5.203
10	13.856	12.882	11.861	10.747	9.674	8.555	7.441	6.322	5.394	4.959
15	18.717	17.162	15.654	13.955	12.203	10.405	8.654	6.902	5.348	4.860
20	23.821	21.489	19.250	16.971	14.686	12.203	9.773	7.389	5.156	5.005
25	29.319	26.158	23.142	19.981	16.971	13.955	10.939	7.830	5.005	5.203
30	35.102	31.018	27.127	23.287	19.349	15.608	11.960	8.265	4.814	5.591
35	41.134	36.122	31.262	26.494	21.686	17.162	12.934	8.654	4.570	5.980
40	47.403	41.371	35.542	29.754	24.064	18.670	13.758	8.996	4.280	6.322
45	53.870	46.673	39.869	32.915	26.448	20.178	14.587	9.286	3.985	6.658
50	59.949	51.684	43.999	36.122	28.687	21.588	15.266	9.483	3.648	7.001
55	65.731	56.736	47.891	39.138	30.920	22.951	15.898	9.529	3.260	7.244
60	70.934	61.115	51.342	41.812	32.915	24.261	16.484	9.576	2.819	7.389

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CANDELA TABULATION - (Cont.)

65	75.551	64.908	54.404	44.144	34.667	25.329	16.919	9.529	2.384	7.488
70	79.298	68.017	56.933	46.139	36.076	26.257	17.406	9.239	1.995	7.534
75	81.971	70.348	58.829	47.595	37.143	26.935	17.406	9.094	1.607	7.534
80	83.723	71.908	60.094	48.569	37.828	27.324	17.551	8.897	1.409	7.488
85	84.257	72.686	60.819	49.155	38.263	27.910	17.649	8.799	1.021	7.633
90	84.355	72.784	60.917	49.201	38.263	27.857	17.893	8.944	0.632	7.586
95	83.816	72.442	60.674	49.056	38.164	27.811	17.794	8.897	0.731	7.830
100	82.795	71.178	59.995	48.911	37.828	27.614	17.748	8.166	0.876	8.166
105	80.997	69.768	58.829	48.036	37.584	26.935	16.484	7.198	1.119	7.975
110	78.764	67.674	57.176	46.771	36.320	25.381	15.944	6.467	1.363	6.954
115	75.649	65.343	55.036	44.730	34.278	24.650	15.074	5.980	1.752	6.223
120	71.758	62.135	52.316	41.859	32.718	22.951	13.369	5.545	2.042	5.591
125	67.193	57.275	47.061	37.973	29.220	20.277	11.861	5.156	2.332	5.104
130	59.119	50.077	41.911	33.692	25.717	17.794	10.405	4.814	2.674	5.005
135	51.243	44.196	36.853	29.412	22.411	15.463	8.996	4.669	2.964	5.005
140	44.532	38.263	31.848	25.329	19.105	13.033	8.265	4.570	3.207	5.058
145	38.605	33.449	26.790	21.002	15.944	10.892	7.586	4.425	3.451	5.058
150	32.816	27.422	22.411	17.841	13.323	10.747	7.441	4.669	4.083	5.446
155	25.671	21.878	18.525	14.686	12.493	10.063	7.198	5.104	4.814	5.933
160	19.737	16.576	14.633	13.079	11.281	9.042	6.757	5.446	5.348	6.223
165	14.976	13.955	12.737	11.281	9.674	7.975	6.467	5.881	5.835	6.467
170	12.250	11.426	10.452	9.431	8.219	7.146	6.566	6.467	6.513	6.856
175	8.706	8.265	7.731	7.244	7.047	6.902	6.856	6.902	7.001	7.146
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**Vert.
Angles**

Horizontal Angles

	100	105	110	115	120	125	130	135	140	145
0	5.696	5.696	5.696	5.696	5.696	5.696	5.696	5.696	5.696	5.696
5	5.058	5.005	5.058	5.203	5.446	5.788	6.125	6.421	6.757	7.047
10	5.104	5.788	6.757	7.731	8.799	9.674	10.452	11.281	12.012	12.638
15	5.835	7.441	9.042	10.550	12.105	13.468	14.831	16.141	17.307	18.427
20	6.809	9.141	11.229	13.323	15.463	17.406	19.349	21.298	22.951	24.551
25	7.876	10.695	13.421	16.095	18.960	21.489	24.116	26.645	28.977	31.117
30	8.897	12.203	15.608	18.914	22.411	25.816	29.023	32.236	35.299	38.019
35	9.819	13.711	17.748	21.733	26.106	30.096	34.081	38.065	41.714	45.310
40	10.597	15.167	19.882	24.551	29.708	34.469	39.185	43.999	48.471	52.705
45	11.426	16.530	21.930	27.370	33.257	38.848	44.387	50.031	55.425	60.337
50	12.203	17.939	23.971	30.096	36.807	43.123	49.491	56.011	62.234	67.970
55	12.882	19.204	25.862	32.671	40.061	47.258	54.404	61.747	68.846	75.406
60	13.468	20.277	27.567	34.957	43.123	50.999	58.876	67.193	74.872	82.215
65	13.955	21.245	29.075	37.045	45.849	54.305	62.866	71.955	80.365	88.386
70	14.343	22.075	30.386	38.796	48.181	57.223	66.317	75.939	84.935	93.490
75	14.686	22.707	31.308	40.258	50.031	59.462	68.991	78.810	88.438	97.382
80	15.121	23.484	32.138	41.279	51.388	61.062	70.888	81.049	90.573	100.009
85	15.219	23.728	32.573	41.911	52.217	62.135	72.100	82.308	91.936	101.419
90	15.318	23.873	33.106	42.589	52.362	62.280	72.297	82.749	92.324	101.755
95	15.463	23.873	33.060	42.787	52.507	62.327	72.245	82.702	92.081	101.419
100	15.799	24.064	33.106	42.444	52.316	62.327	72.100	81.971	91.257	100.346
105	15.944	24.018	32.961	42.004	51.974	61.451	70.934	80.562	89.552	98.356
110	15.706	23.873	32.573	41.325	50.953	60.140	69.235	78.468	87.464	95.630
115	15.121	23.531	31.848	40.258	49.491	58.197	66.851	75.939	84.158	91.889
120	12.789	22.556	30.676	38.796	47.548	55.715	63.887	72.390	80.075	87.319
125	11.281	20.033	28.101	35.542	43.709	51.730	59.995	68.214	75.261	81.873
130	9.819	16.530	25.427	32.184	39.428	46.481	53.673	61.306	69.182	75.847
135	8.462	14.198	21.443	28.832	35.299	41.424	47.595	54.114	60.674	67.384

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CANDELA TABULATION - (Cont.)

140	7.975	12.348	16.872	24.453	31.262	36.807	41.714	47.160	52.705	58.197
145	7.488	10.208	14.633	18.717	25.961	32.625	37.143	40.983	44.973	49.445
150	7.731	10.017	12.545	16.385	19.935	25.572	31.552	35.786	38.698	41.371
155	7.731	9.872	11.617	13.665	16.774	19.691	22.800	28.055	31.697	34.423
160	7.679	9.576	11.229	12.690	13.903	15.799	18.038	20.225	22.608	24.551
165	7.488	8.897	10.504	11.861	12.882	13.758	14.390	15.509	16.530	17.992
170	7.488	8.364	9.332	10.405	11.327	12.250	12.789	13.033	13.566	13.903
175	7.389	7.778	8.219	8.654	9.187	9.674	10.162	10.550	10.840	10.985
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Horizontal Angles
Angles

	150	155	160	165	170	175	180
0	5.696	5.696	5.696	5.696	5.696	5.696	5.696
5	7.291	7.534	7.731	7.876	7.975	7.975	7.975
10	13.224	13.711	14.146	14.488	14.732	14.831	14.877
15	19.302	20.178	20.955	21.489	21.831	22.075	22.168
20	25.961	27.277	28.298	29.122	29.708	30.044	30.143
25	33.060	34.812	36.221	37.340	38.164	38.698	38.895
30	40.594	42.787	44.631	46.139	47.206	47.891	48.134
35	48.523	51.197	53.575	55.471	56.834	57.710	57.954
40	56.643	59.995	62.866	65.244	66.897	68.017	68.359
45	65.001	69.037	72.442	75.406	77.401	78.810	79.245
50	73.266	78.225	82.308	85.811	88.195	89.848	90.335
55	81.484	87.267	91.988	95.973	98.890	100.734	101.320
60	89.071	95.532	100.932	105.450	108.756	110.896	111.528
65	95.973	102.828	109.098	113.958	117.653	119.938	120.669
70	101.610	109.197	115.710	120.866	124.659	127.136	127.965
75	105.792	113.570	120.379	125.680	129.618	132.141	132.924
80	108.808	116.487	123.198	128.499	132.484	135.012	135.743
85	110.217	117.804	124.509	129.908	133.748	136.132	136.810
90	110.409	117.850	124.462	129.665	133.458	135.691	136.520
95	109.875	117.264	123.731	128.888	132.484	134.722	135.546
100	108.663	115.907	122.032	127.281	130.831	133.116	133.794
105	106.523	113.477	119.457	124.416	128.058	130.198	130.877
110	103.408	110.072	115.855	120.669	124.074	126.312	126.991
115	99.035	105.647	111.093	115.611	118.970	120.959	121.643
120	93.977	99.911	105.357	109.440	112.456	114.446	115.031
125	88.050	93.444	98.403	102.144	104.870	106.621	107.155
130	81.339	86.397	90.625	94.030	96.460	98.014	98.501
135	74.194	78.567	82.360	85.277	87.464	88.827	89.262
140	64.125	70.203	73.608	76.183	77.981	79.199	79.541
145	54.160	59.021	64.519	66.799	68.405	69.380	69.716
150	44.921	48.569	52.797	57.176	58.632	59.409	59.705
155	36.267	38.796	41.859	45.553	48.714	49.445	49.590
160	26.257	27.857	30.241	32.961	37.143	38.361	38.605
165	19.059	19.737	19.790	20.903	22.707	25.961	26.158
170	13.903	13.856	13.421	12.690	13.178	15.167	17.307
175	10.985	10.939	10.695	9.964	8.851	8.311	10.405
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	5.80	N.A.	0.70
0-30	18.66	N.A.	2.40
0-40	43.53	N.A.	5.50
0-60	141.91	N.A.	17.90
0-80	302.76	N.A.	38.30
0-90	394.48	N.A.	49.90
10-90	393.61	N.A.	49.80
20-40	37.73	N.A.	4.80
20-50	78.15	N.A.	9.90
40-70	172.86	N.A.	21.90
60-80	160.85	N.A.	20.30
70-80	86.37	N.A.	10.90
80-90	91.72	N.A.	11.60
90-110	176.69	N.A.	22.30
90-120	251.28	N.A.	31.80
90-130	310.58	N.A.	39.30
90-150	378.03	N.A.	47.80
90-180	396.63	N.A.	50.10
110-180	219.94	N.A.	27.80
0-180	791.11	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	0.87
10-20	4.93
20-30	12.86
30-40	24.87
40-50	40.42
50-60	57.96
60-70	74.48
70-80	86.37
80-90	91.72
90-100	91.18
100-110	85.51
110-120	74.60
120-130	59.30
130-140	41.83
140-150	25.62
150-160	13.03
160-170	4.71
170-180	0.85

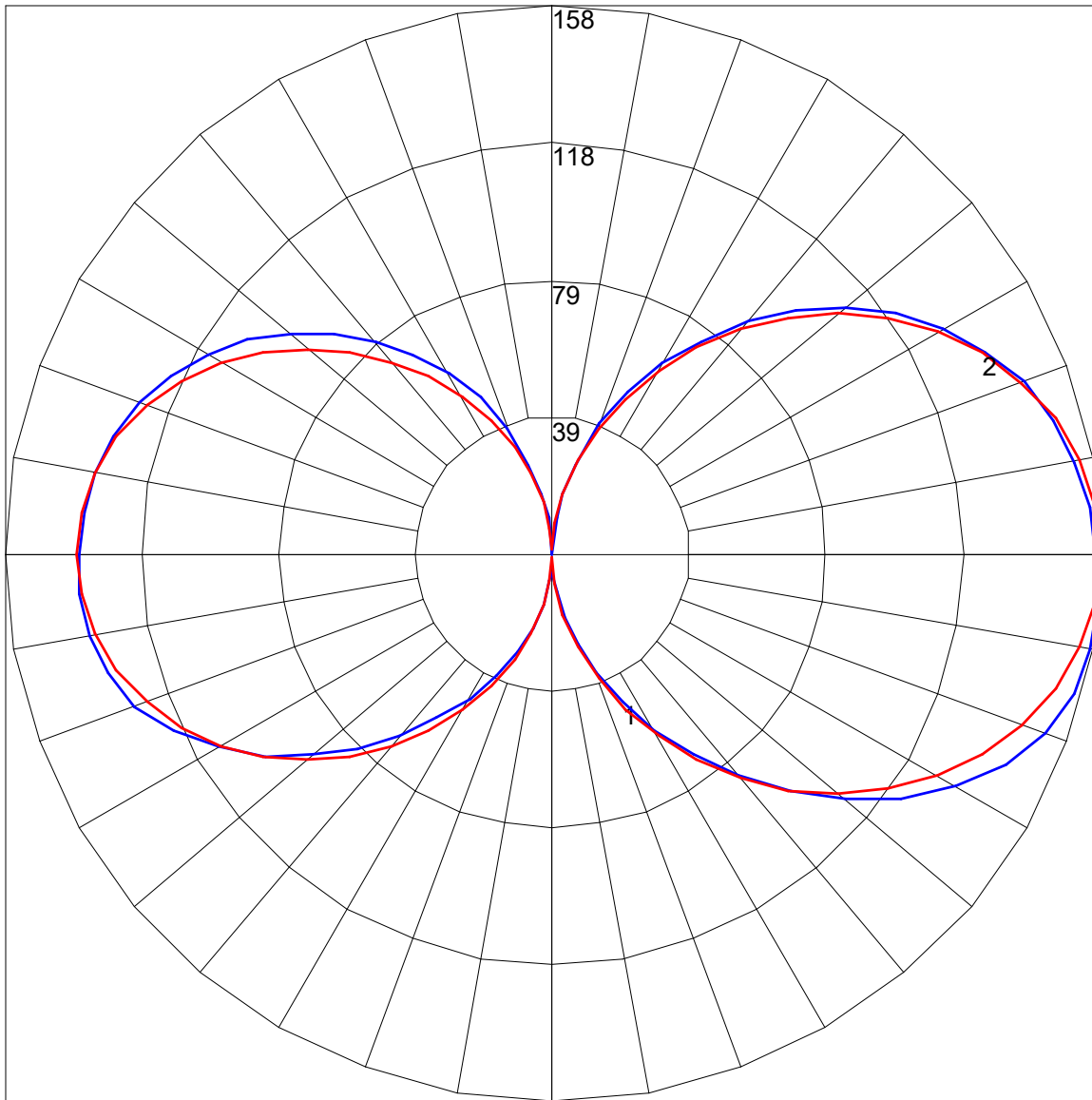
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	92	85	79	73	84	78	72	67	64	60	56	52	48	45	40	38	35	30
2	81	71	62	55	74	65	57	50	53	47	42	42	37	33	32	28	25	20
3	73	60	51	43	66	55	46	39	45	38	32	35	30	26	26	22	19	14
4	66	52	42	35	59	47	39	32	38	31	26	30	25	20	22	18	15	11
5	60	46	36	29	54	42	33	26	34	27	21	26	21	17	20	15	12	8
6	55	40	31	24	49	37	28	22	30	23	18	23	18	14	17	13	10	7
7	50	36	27	20	45	33	25	19	27	20	15	21	16	12	16	11	8	5
8	46	32	24	18	42	30	22	16	24	18	13	19	14	10	14	10	7	4
9	43	29	21	15	39	27	19	14	22	16	11	17	12	9	13	9	6	4
10	40	27	19	13	36	24	17	12	20	14	10	16	11	8	12	8	5	3

POLAR GRAPH



Maximum Candela = 157.522 Located At Horizontal Angle = 0, Vertical Angle = 85
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (85) (Through Max. Cd.)