

IES Report

ZipTwo® | 707 | Square 3519, Side Diffuse | 90 CRI | LO

707-Z2-4-48-XX-XX-X-0-Z-LO-359-F9-X-BL-0

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	44	45	46	47
Total Lumens, 4' rail length (1219mm)	648	668	682	689
Lumens per foot (305mm)	162	167	170	172
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	94	94	94	94

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_359_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-359-F9-BL

[LUMINAIRE] ZipTwo LED, 48", 3500K, 90 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	682
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	46
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	1763	1196	99
55	2468	1653	100
65	3342	2266	98
75	4411	3142	106
85	5986	4696	183

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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	4.910	4.910	4.910	4.910	4.910	4.910	4.910	4.910	4.910	4.910
5	9.555	9.555	9.470	9.390	9.265	9.095	8.885	8.635	8.385	8.045
10	16.180	16.095	15.970	15.760	15.425	15.090	14.585	14.040	13.370	12.700
15	23.385	23.305	23.050	22.675	22.090	21.375	20.580	19.615	18.485	17.350
20	31.435	31.310	30.975	30.385	29.505	28.415	27.160	25.690	24.060	22.380
25	40.570	40.360	39.815	38.980	37.765	36.210	34.450	32.355	30.095	27.745
30	50.380	50.170	49.455	48.325	46.730	44.720	42.455	39.690	36.675	33.530
35	60.775	60.480	59.600	58.215	56.160	53.650	50.715	47.320	43.590	39.650
40	71.755	71.375	70.285	68.485	65.970	62.870	59.305	55.155	50.630	45.895
45	83.240	82.735	81.395	79.255	76.070	72.340	68.065	63.160	57.755	52.225
50	94.640	94.135	92.460	89.900	86.170	81.815	76.740	70.915	64.630	58.300
55	105.785	105.075	103.270	100.210	95.935	90.905	85.080	78.420	71.335	64.085
60	115.760	115.090	113.035	109.685	104.780	99.205	92.710	85.335	77.370	69.365
65	124.310	123.475	121.210	117.395	112.325	106.290	99.250	91.245	82.565	74.015
70	130.430	129.635	127.205	123.345	118.110	111.695	104.320	96.190	86.800	77.665
75	134.120	133.240	130.890	127.035	121.670	115.215	107.755	99.375	90.070	80.345
80	135.630	134.875	132.525	128.755	123.600	117.060	109.350	100.925	91.830	82.275
85	135.795	135.040	132.695	129.045	124.060	117.565	110.270	101.680	92.670	83.110
90	134.955	134.205	132.025	128.335	123.430	117.145	109.895	101.470	92.290	82.860
95	133.615	132.905	130.725	127.245	122.300	116.055	108.970	100.675	91.620	82.275
100	131.690	130.975	128.795	125.400	120.495	114.335	107.335	99.205	90.280	81.140
105	128.670	128.000	125.860	122.510	117.690	111.740	104.865	96.900	88.225	79.380
110	124.395	123.685	121.670	118.400	113.710	107.965	101.300	93.630	85.290	76.785
115	118.780	118.110	116.140	113.035	108.470	103.145	96.815	89.610	81.685	73.600
120	111.905	111.275	109.435	106.415	102.265	97.235	91.410	84.620	77.330	69.740
125	103.775	103.230	101.555	98.785	95.015	90.490	85.205	79.215	72.255	65.255
130	94.975	94.385	92.920	90.490	87.135	83.030	78.250	72.885	66.305	58.635
135	85.500	85.080	83.700	81.605	78.625	75.025	70.665	64.335	57.420	50.505
140	75.525	75.105	73.975	72.005	69.280	65.885	59.895	54.150	48.785	43.675
145	64.460	64.125	63.160	61.570	59.350	54.400	49.835	45.600	41.325	37.175
150	54.655	54.320	53.565	52.265	48.575	44.470	40.825	37.385	34.620	31.770
155	44.680	44.425	43.715	41.160	37.720	34.705	32.190	30.595	28.625	25.820
160	34.285	34.075	32.945	29.715	27.620	25.820	24.940	23.515	21.250	19.110
165	22.885	22.635	20.665	19.700	18.565	18.440	17.480	16.055	14.755	13.745
170	14.835	13.580	12.825	12.450	12.995	12.865	12.530	12.115	11.650	11.150
175	8.970	7.880	8.130	8.720	8.760	8.635	8.465	8.385	8.175	7.920
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	4.910	4.910	4.910	4.910	4.910	4.910	4.910	4.910	4.910	4.910
5	7.755	7.375	7.000	6.580	6.205	5.785	5.365	5.030	4.695	4.485
10	11.945	11.105	10.225	9.265	8.340	7.375	6.415	5.450	4.650	4.275
15	16.135	14.795	13.495	12.030	10.520	8.970	7.460	5.950	4.610	4.190
20	20.535	18.525	16.595	14.630	12.660	10.520	8.425	6.370	4.445	4.315
25	25.275	22.550	19.950	17.225	14.630	12.030	9.430	6.750	4.315	4.485
30	30.260	26.740	23.385	20.075	16.680	13.455	10.310	7.125	4.150	4.820
35	35.460	31.140	26.950	22.840	18.695	14.795	11.150	7.460	3.940	5.155
40	40.865	35.665	30.640	25.650	20.745	16.095	11.860	7.755	3.690	5.450
45	46.440	40.235	34.370	28.375	22.800	17.395	12.575	8.005	3.435	5.740
50	51.680	44.555	37.930	31.140	24.730	18.610	13.160	8.175	3.145	6.035
55	56.665	48.910	41.285	33.740	26.655	19.785	13.705	8.215	2.810	6.245
60	61.150	52.685	44.260	36.045	28.375	20.915	14.210	8.255	2.430	6.370

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CANDELA TABULATION - (Cont.)

65	65.130	55.955	46.900	38.055	29.885	21.835	14.585	8.215	2.055	6.455
70	68.360	58.635	49.080	39.775	31.100	22.635	15.005	7.965	1.720	6.495
75	70.665	60.645	50.715	41.030	32.020	23.220	15.005	7.840	1.385	6.495
80	72.175	61.990	51.805	41.870	32.610	23.555	15.130	7.670	1.215	6.455
85	72.635	62.660	52.430	42.375	32.985	24.060	15.215	7.585	0.880	6.580
90	72.720	62.745	52.515	42.415	32.985	24.015	15.425	7.710	0.545	6.540
95	72.255	62.450	52.305	42.290	32.900	23.975	15.340	7.670	0.630	6.750
100	71.375	61.360	51.720	42.165	32.610	23.805	15.300	7.040	0.755	7.040
105	69.825	60.145	50.715	41.410	32.400	23.220	14.210	6.205	0.965	6.875
110	67.900	58.340	49.290	40.320	31.310	21.880	13.745	5.575	1.175	5.995
115	65.215	56.330	47.445	38.560	29.550	21.250	12.995	5.155	1.510	5.365
120	61.860	53.565	45.100	36.085	28.205	19.785	11.525	4.780	1.760	4.820
125	57.925	49.375	40.570	32.735	25.190	17.480	10.225	4.445	2.010	4.400
130	50.965	43.170	36.130	29.045	22.170	15.340	8.970	4.150	2.305	4.315
135	44.175	38.100	31.770	25.355	19.320	13.330	7.755	4.025	2.555	4.315
140	38.390	32.985	27.455	21.835	16.470	11.235	7.125	3.940	2.765	4.360
145	33.280	28.835	23.095	18.105	13.745	9.390	6.540	3.815	2.975	4.360
150	28.290	23.640	19.320	15.380	11.485	9.265	6.415	4.025	3.520	4.695
155	22.130	18.860	15.970	12.660	10.770	8.675	6.205	4.400	4.150	5.115
160	17.015	14.290	12.615	11.275	9.725	7.795	5.825	4.695	4.610	5.365
165	12.910	12.030	10.980	9.725	8.340	6.875	5.575	5.070	5.030	5.575
170	10.560	9.850	9.010	8.130	7.085	6.160	5.660	5.575	5.615	5.910
175	7.505	7.125	6.665	6.245	6.075	5.950	5.910	5.950	6.035	6.160
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	4.910	4.910	4.910	4.910	4.910	4.910	4.910	4.910	4.910	4.910
5	4.360	4.315	4.360	4.485	4.695	4.990	5.280	5.535	5.825	6.075
10	4.400	4.990	5.825	6.665	7.585	8.340	9.010	9.725	10.355	10.895
15	5.030	6.415	7.795	9.095	10.435	11.610	12.785	13.915	14.920	15.885
20	5.870	7.880	9.680	11.485	13.330	15.005	16.680	18.360	19.785	21.165
25	6.790	9.220	11.570	13.875	16.345	18.525	20.790	22.970	24.980	26.825
30	7.670	10.520	13.455	16.305	19.320	22.255	25.020	27.790	30.430	32.775
35	8.465	11.820	15.300	18.735	22.505	25.945	29.380	32.815	35.960	39.060
40	9.135	13.075	17.140	21.165	25.610	29.715	33.780	37.930	41.785	45.435
45	9.850	14.250	18.905	23.595	28.670	33.490	38.265	43.130	47.780	52.015
50	10.520	15.465	20.665	25.945	31.730	37.175	42.665	48.285	53.650	58.595
55	11.105	16.555	22.295	28.165	34.535	40.740	46.900	53.230	59.350	65.005
60	11.610	17.480	23.765	30.135	37.175	43.965	50.755	57.925	64.545	70.875
65	12.030	18.315	25.065	31.935	39.525	46.815	54.195	62.030	69.280	76.195
70	12.365	19.030	26.195	33.445	41.535	49.330	57.170	65.465	73.220	80.595
75	12.660	19.575	26.990	34.705	43.130	51.260	59.475	67.940	76.240	83.950
80	13.035	20.245	27.705	35.585	44.300	52.640	61.110	69.870	78.080	86.215
85	13.120	20.455	28.080	36.130	45.015	53.565	62.155	70.955	79.255	87.430
90	13.205	20.580	28.540	36.715	45.140	53.690	62.325	71.335	79.590	87.720
95	13.330	20.580	28.500	36.885	45.265	53.730	62.280	71.295	79.380	87.430
100	13.620	20.745	28.540	36.590	45.100	53.730	62.155	70.665	78.670	86.505
105	13.745	20.705	28.415	36.210	44.805	52.975	61.150	69.450	77.200	84.790
110	13.540	20.580	28.080	35.625	43.925	51.845	59.685	67.645	75.400	82.440
115	13.035	20.285	27.455	34.705	42.665	50.170	57.630	65.465	72.550	79.215
120	11.025	19.445	26.445	33.445	40.990	48.030	55.075	62.405	69.030	75.275
125	9.725	17.270	24.225	30.640	37.680	44.595	51.720	58.805	64.880	70.580
130	8.465	14.250	21.920	27.745	33.990	40.070	46.270	52.850	59.640	65.385
135	7.295	12.240	18.485	24.855	30.430	35.710	41.030	46.650	52.305	58.090

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CANDELA TABULATION - (Cont.)

140	6.875	10.645	14.545	21.080	26.950	31.730	35.960	40.655	45.435	50.170
145	6.455	8.800	12.615	16.135	22.380	28.125	32.020	35.330	38.770	42.625
150	6.665	8.635	10.815	14.125	17.185	22.045	27.200	30.850	33.360	35.665
155	6.665	8.510	10.015	11.780	14.460	16.975	19.655	24.185	27.325	29.675
160	6.620	8.255	9.680	10.940	11.985	13.620	15.550	17.435	19.490	21.165
165	6.455	7.670	9.055	10.225	11.105	11.860	12.405	13.370	14.250	15.510
170	6.455	7.210	8.045	8.970	9.765	10.560	11.025	11.235	11.695	11.985
175	6.370	6.705	7.085	7.460	7.920	8.340	8.760	9.095	9.345	9.470
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	4.910	4.910	4.910	4.910	4.910	4.910	4.910
5	6.285	6.495	6.665	6.790	6.875	6.875	6.875
10	11.400	11.820	12.195	12.490	12.700	12.785	12.825
15	16.640	17.395	18.065	18.525	18.820	19.030	19.110
20	22.380	23.515	24.395	25.105	25.610	25.900	25.985
25	28.500	30.010	31.225	32.190	32.900	33.360	33.530
30	34.995	36.885	38.475	39.775	40.695	41.285	41.495
35	41.830	44.135	46.185	47.820	48.995	49.750	49.960
40	48.830	51.720	54.195	56.245	57.670	58.635	58.930
45	56.035	59.515	62.450	65.005	66.725	67.940	68.315
50	63.160	67.435	70.955	73.975	76.030	77.455	77.875
55	70.245	75.230	79.300	82.735	85.250	86.840	87.345
60	76.785	82.355	87.010	90.905	93.755	95.600	96.145
65	82.735	88.645	94.050	98.240	101.425	103.395	104.025
70	87.595	94.135	99.750	104.195	107.465	109.600	110.315
75	91.200	97.905	103.775	108.345	111.740	113.915	114.590
80	93.800	100.420	106.205	110.775	114.210	116.390	117.020
85	95.015	101.555	107.335	111.990	115.300	117.355	117.940
90	95.180	101.595	107.295	111.780	115.050	116.975	117.690
95	94.720	101.090	106.665	111.110	114.210	116.140	116.850
100	93.675	99.920	105.200	109.725	112.785	114.755	115.340
105	91.830	97.825	102.980	107.255	110.395	112.240	112.825
110	89.145	94.890	99.875	104.025	106.960	108.890	109.475
115	85.375	91.075	95.770	99.665	102.560	104.275	104.865
120	81.015	86.130	90.825	94.345	96.945	98.660	99.165
125	75.905	80.555	84.830	88.055	90.405	91.915	92.375
130	70.120	74.480	78.125	81.060	83.155	84.495	84.915
135	63.960	67.730	71.000	73.515	75.400	76.575	76.950
140	55.280	60.520	63.455	65.675	67.225	68.275	68.570
145	46.690	50.880	55.620	57.585	58.970	59.810	60.100
150	38.725	41.870	45.515	49.290	50.545	51.215	51.470
155	31.265	33.445	36.085	39.270	41.995	42.625	42.750
160	22.635	24.015	26.070	28.415	32.020	33.070	33.280
165	16.430	17.015	17.060	18.020	19.575	22.380	22.550
170	11.985	11.945	11.570	10.940	11.360	13.075	14.920
175	9.470	9.430	9.220	8.590	7.630	7.165	8.970
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	5.00	N.A.	0.70
0-30	16.09	N.A.	2.40
0-40	37.53	N.A.	5.50
0-60	122.34	N.A.	17.90
0-80	261.00	N.A.	38.30
0-90	340.07	N.A.	49.90
10-90	339.31	N.A.	49.80
20-40	32.53	N.A.	4.80
20-50	67.37	N.A.	9.90
40-70	149.02	N.A.	21.90
60-80	138.66	N.A.	20.30
70-80	74.46	N.A.	10.90
80-90	79.07	N.A.	11.60
90-110	152.31	N.A.	22.30
90-120	216.62	N.A.	31.80
90-130	267.74	N.A.	39.30
90-150	325.89	N.A.	47.80
90-180	341.92	N.A.	50.10
110-180	189.61	N.A.	27.80
0-180	681.99	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	0.75
10-20	4.25
20-30	11.09
30-40	21.44
40-50	34.84
50-60	49.97
60-70	64.21
70-80	74.46
80-90	79.07
90-100	78.60
100-110	73.71
110-120	64.31
120-130	51.12
130-140	36.06
140-150	22.09
150-160	11.24
160-170	4.06
170-180	0.74

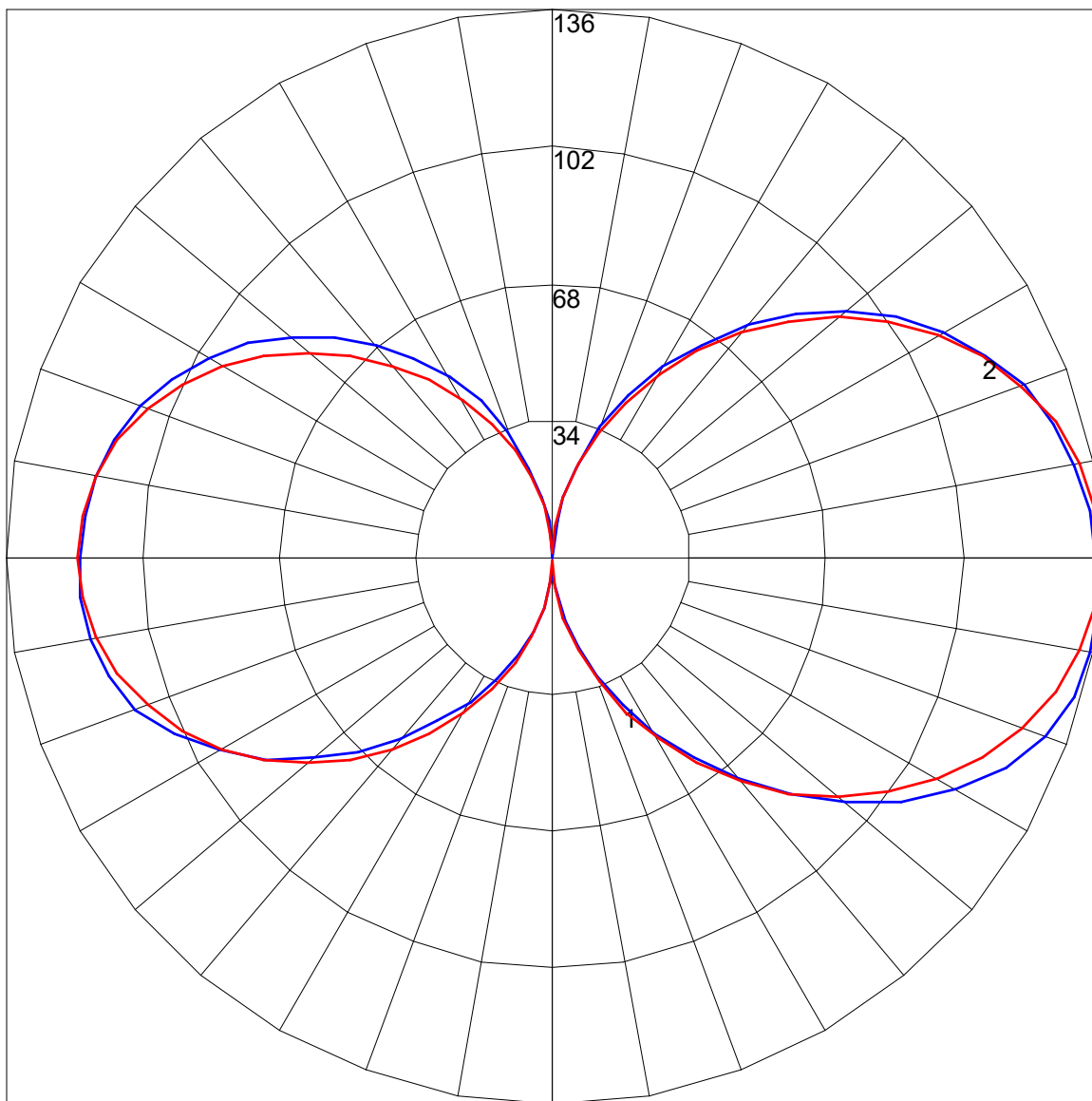
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	64	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 = 135.795 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.)