

IES Report

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

707-Z2-4-48-XX-XX-X-0-Z-LO-35-FA-X-WH-0

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	38	40	40	40
Total Lumens, 4' rail length (1219mm)	565	583	595	595
Lumens per foot (305mm)	141	146	149	149
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_FA_WH.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L082011214 (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-FA-WH

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

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

[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	595
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	40
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	Circular
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	3.99 ft (Diameter)
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1	1	3
55	1	1	3
65	2	1	3
75	3	2	4
85	10	6	5

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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	3.086	3.086	3.086	3.086	3.086	3.086	3.086	3.086	3.086	3.086
5	0.487	0.487	0.487	0.487	0.487	0.534	0.534	0.586	0.586	0.586
10	0.389	0.389	0.389	0.389	0.389	0.389	0.389	0.389	0.389	0.487
15	0.290	0.290	0.290	0.290	0.290	0.290	0.290	0.290	0.290	0.389
20	0.197	0.197	0.244	0.244	0.244	0.244	0.244	0.244	0.290	0.290
25	0.290	0.290	0.290	0.290	0.290	0.290	0.290	0.244	0.244	0.244
30	0.389	0.389	0.389	0.342	0.342	0.342	0.342	0.290	0.290	0.290
35	0.389	0.389	0.389	0.389	0.389	0.389	0.389	0.342	0.342	0.342
40	0.487	0.487	0.487	0.487	0.487	0.435	0.435	0.435	0.389	0.342
45	0.586	0.586	0.586	0.534	0.534	0.534	0.487	0.435	0.435	0.435
50	0.679	0.632	0.632	0.586	0.586	0.586	0.534	0.534	0.487	0.435
55	0.679	0.679	0.679	0.679	0.679	0.632	0.632	0.534	0.534	0.487
60	0.777	0.777	0.777	0.731	0.731	0.679	0.632	0.632	0.534	0.534
65	0.777	0.777	0.777	0.777	0.777	0.731	0.679	0.632	0.632	0.534
70	0.876	0.876	0.829	0.829	0.777	0.777	0.731	0.679	0.632	0.632
75	0.876	0.876	0.876	0.876	0.829	0.829	0.777	0.731	0.632	0.632
80	0.974	0.922	0.922	0.876	0.876	0.829	0.829	0.731	0.731	0.632
85	0.974	0.974	0.974	0.922	0.876	0.876	0.829	0.731	0.731	0.632
90	0.974	0.974	0.974	0.974	0.922	0.876	0.829	0.829	0.731	0.679
95	0.974	0.974	1.021	1.021	0.974	0.922	0.922	0.829	0.777	0.731
100	1.166	1.166	1.119	1.119	1.119	1.067	1.067	0.974	0.922	0.829
105	1.264	1.264	1.218	1.218	1.264	1.218	1.166	1.067	0.974	0.974
110	1.363	1.363	1.311	1.311	1.311	1.264	1.218	1.166	1.119	1.021
115	1.554	1.508	1.409	1.462	1.462	1.409	1.363	1.264	1.218	1.166
120	1.653	1.607	1.554	1.554	1.508	1.508	1.462	1.311	1.311	1.264
125	1.752	1.699	1.653	1.607	1.607	1.554	1.554	1.409	1.409	1.363
130	1.752	1.752	1.699	1.653	1.653	1.653	1.653	1.508	1.363	1.363
135	1.752	1.850	1.752	1.699	1.752	1.752	1.607	1.462	1.462	1.462
140	1.850	1.850	1.850	1.798	1.850	1.653	1.653	1.508	1.554	1.554
145	1.943	1.943	1.943	1.897	1.653	1.752	1.699	1.607	1.607	1.699
150	1.943	1.995	2.042	1.798	1.798	1.798	1.798	1.752	1.850	1.897
155	2.042	2.042	1.995	1.850	1.850	1.850	2.042	1.995	1.943	1.897
160	2.042	2.042	1.798	1.897	1.897	2.140	2.140	1.897	1.943	1.897
165	1.943	1.699	1.699	1.850	2.187	2.239	2.140	1.995	1.943	1.943
170	1.943	1.653	1.699	2.088	2.140	2.187	2.140	2.088	2.088	2.187
175	1.363	1.850	2.239	2.529	2.627	2.674	2.772	2.772	3.062	3.306
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	3.086	3.086	3.086	3.086	3.086	3.086	3.086	3.086	3.086	3.086
5	0.679	0.731	0.829	0.922	1.119	1.363	1.798	2.285	2.871	3.596
10	0.487	0.487	0.487	0.586	0.586	0.731	1.021	1.653	2.819	4.425
15	0.389	0.389	0.435	0.487	0.487	0.586	0.679	1.166	2.819	5.301
20	0.290	0.342	0.389	0.389	0.435	0.487	0.586	0.876	2.674	6.223
25	0.244	0.290	0.290	0.342	0.389	0.435	0.487	0.679	2.627	7.047
30	0.244	0.244	0.244	0.290	0.342	0.389	0.435	0.586	2.482	7.830
35	0.290	0.290	0.244	0.244	0.290	0.342	0.389	0.487	2.430	8.555
40	0.342	0.342	0.290	0.244	0.244	0.290	0.389	0.435	2.285	9.239
45	0.342	0.342	0.342	0.290	0.244	0.290	0.342	0.389	2.140	9.872
50	0.435	0.342	0.342	0.342	0.244	0.244	0.290	0.389	1.897	10.649
55	0.435	0.435	0.342	0.342	0.244	0.244	0.290	0.342	1.752	10.840
60	0.435	0.435	0.342	0.342	0.342	0.244	0.244	0.290	1.508	11.281

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CANDELA TABULATION - (Cont.)

65	0.534	0.435	0.435	0.342	0.342	0.244	0.244	0.290	1.311	11.617
70	0.534	0.487	0.435	0.342	0.342	0.244	0.244	0.244	1.363	11.815
75	0.534	0.534	0.435	0.389	0.342	0.342	0.244	0.244	1.119	11.960
80	0.586	0.534	0.435	0.389	0.342	0.342	0.244	0.244	0.679	11.960
85	0.632	0.534	0.487	0.435	0.342	0.342	0.244	0.244	0.487	12.302
90	0.632	0.534	0.487	0.435	0.342	0.342	0.244	0.244	0.244	12.105
95	0.632	0.586	0.534	0.487	0.389	0.342	0.342	0.244	0.290	12.012
100	0.777	0.679	0.632	0.534	0.487	0.389	0.342	0.342	0.487	12.058
105	0.876	0.777	0.731	0.632	0.534	0.487	0.435	0.435	0.731	10.550
110	1.021	0.922	0.829	0.731	0.679	0.632	0.632	0.632	1.067	9.286
115	1.119	1.021	0.974	0.922	0.876	0.876	0.922	0.829	1.462	8.166
120	1.218	1.218	1.166	1.119	1.119	1.119	1.067	1.067	1.850	7.099
125	1.264	1.218	1.218	1.218	1.218	1.218	1.218	1.264	2.088	6.026
130	1.311	1.363	1.311	1.311	1.311	1.311	1.264	1.409	2.332	5.591
135	1.462	1.462	1.409	1.409	1.409	1.409	1.363	1.554	2.482	5.203
140	1.554	1.607	1.508	1.462	1.462	1.409	1.462	1.850	2.674	4.860
145	1.798	1.653	1.607	1.554	1.508	1.508	1.653	2.140	2.871	4.425
150	1.850	1.798	1.752	1.653	1.699	1.752	1.943	2.720	3.352	4.570
155	1.897	1.850	1.850	1.798	1.752	1.943	2.482	3.306	3.793	4.715
160	1.897	1.897	1.850	1.897	1.995	2.285	3.016	3.741	4.135	4.768
165	1.897	1.943	1.995	2.140	2.430	2.964	3.648	4.135	4.472	4.768
170	2.239	2.332	2.575	2.917	3.352	3.840	4.280	4.617	4.814	4.959
175	3.451	3.695	3.938	4.228	4.472	4.715	4.913	5.058	5.156	5.301
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

	100	105	110	115	120	125	130	135	140	145
0	3.086	3.086	3.086	3.086	3.086	3.086	3.086	3.086	3.086	3.086
5	4.280	5.005	5.788	6.467	7.198	7.830	8.607	9.187	9.727	10.208
10	6.125	7.778	9.483	10.939	12.493	13.955	15.556	16.872	18.084	19.157
15	7.923	10.504	12.980	15.364	17.841	20.515	22.753	24.992	26.982	28.733
20	9.727	13.125	16.530	19.790	23.287	26.494	30.340	33.449	36.320	38.941
25	11.327	15.654	20.080	24.360	28.930	34.034	38.263	42.398	46.139	49.735
30	13.079	18.282	23.676	29.023	34.713	40.983	46.383	51.632	56.446	61.161
35	14.686	20.810	27.277	33.739	40.594	47.061	54.793	61.213	67.141	73.022
40	16.240	23.339	30.873	38.460	46.481	54.114	63.493	70.980	78.080	85.034
45	17.748	25.717	34.371	42.978	52.316	61.161	72.001	80.806	89.117	97.336
50	19.059	28.002	37.677	47.357	57.954	67.918	80.365	90.428	100.056	109.632
55	20.277	30.143	40.693	51.487	63.643	76.525	88.340	99.569	110.409	121.353
60	21.199	32.138	43.709	56.933	70.255	82.894	95.485	108.419	120.814	132.339
65	22.121	33.837	46.238	58.974	74.727	88.583	102.242	116.244	129.810	142.500
70	22.852	35.247	49.056	61.695	76.427	93.200	107.689	123.006	137.100	150.568
75	23.432	36.412	50.124	64.125	79.588	94.366	112.305	128.499	143.277	157.424
80	24.308	37.729	51.487	66.021	84.500	100.102	115.954	132.141	147.801	162.481
85	24.551	38.309	52.316	67.286	83.624	99.279	118.285	134.722	150.232	165.596
90	24.551	38.506	52.705	68.260	83.769	101.755	119.161	135.743	151.397	166.663
95	24.551	38.019	53.140	68.307	83.816	102.486	118.680	135.743	151.107	166.373
100	24.505	37.920	52.409	67.872	83.236	102.144	118.627	134.427	149.599	164.476
105	24.406	37.532	51.829	66.410	82.406	100.398	116.000	131.753	146.485	161.414
110	23.484	36.998	50.756	65.001	80.463	94.998	112.845	128.499	142.599	155.916
115	21.199	36.465	49.932	63.058	77.836	92.377	108.663	123.488	136.764	149.454
120	18.183	34.469	47.502	60.627	74.675	90.480	103.849	117.363	130.251	141.967
125	15.996	29.075	42.879	55.036	68.307	81.287	97.237	110.217	122.131	132.924
130	13.810	23.728	37.630	49.201	61.115	74.675	86.588	99.279	111.969	122.763
135	11.768	20.810	29.853	43.123	54.015	64.032	76.380	87.075	97.724	108.953

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CANDELA TABULATION - (Cont.)

140	10.162	17.406	24.604	33.889	46.673	56.103	66.462	75.551	84.402	93.589
145	8.897	13.955	20.665	26.837	35.879	48.036	56.301	64.908	71.665	79.100
150	8.462	12.690	17.162	23.188	28.733	34.910	46.330	54.990	60.482	65.198
155	7.731	11.571	15.266	18.862	24.064	28.780	33.936	40.113	46.330	51.388
160	6.954	10.063	13.224	16.339	19.105	22.168	25.624	29.319	34.469	36.656
165	6.078	8.219	10.939	13.224	15.411	17.841	19.401	22.411	24.261	26.593
170	5.493	6.658	8.120	9.964	11.617	13.079	14.343	15.944	17.162	18.328
175	5.348	5.545	6.026	6.612	7.343	8.120	8.851	9.872	10.405	10.840
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	3.086	3.086	3.086	3.086	3.086	3.086	3.086
5	10.550	10.939	11.229	11.472	11.617	11.716	11.670
10	20.126	20.903	21.634	22.220	22.556	22.800	22.852
15	30.288	31.749	32.915	33.837	34.522	34.858	35.003
20	41.279	43.367	45.072	46.429	47.357	47.983	48.134
25	52.942	55.668	58.000	59.850	61.161	61.990	62.234
30	65.244	68.747	71.758	74.194	75.847	76.960	77.302
35	78.033	82.406	86.153	89.216	91.356	92.713	93.252
40	91.257	96.558	101.077	104.870	107.590	109.295	109.684
45	104.673	111.041	116.441	120.959	124.317	126.214	126.991
50	117.949	125.384	131.805	137.153	140.992	143.422	144.200
55	130.831	139.438	146.728	152.905	157.377	160.196	161.217
60	143.277	152.905	161.263	168.316	173.229	176.535	177.457
65	154.506	165.109	174.342	181.975	187.520	191.116	192.334
70	163.502	174.882	184.649	192.821	198.116	201.811	202.832
75	170.555	182.851	193.355	200.790	206.967	210.952	212.071
80	176.482	188.639	198.702	207.112	213.336	217.471	218.683
85	179.643	191.992	202.107	210.708	216.984	220.870	221.989
90	180.908	193.111	203.075	211.781	217.906	221.746	223.155
95	180.276	192.479	202.298	210.807	217.030	220.725	222.088
100	178.188	190.095	199.334	207.791	213.968	217.662	218.880
105	174.296	185.722	194.375	202.930	208.719	212.460	213.533
110	168.560	179.545	188.883	195.008	201.376	204.879	205.848
115	160.927	171.576	180.618	187.665	192.867	195.588	196.707
120	153.050	162.678	170.990	177.602	182.364	185.478	186.400
125	143.080	151.832	159.465	165.352	169.772	172.643	173.466
130	131.950	139.774	146.682	152.030	156.014	158.589	159.274
135	119.938	126.991	133.116	137.831	141.334	143.567	144.200
140	103.315	113.088	118.825	122.908	126.017	127.913	128.447
145	86.785	94.807	103.652	107.497	110.119	111.725	112.213
150	71.224	77.349	84.257	91.547	93.879	95.195	95.584
155	55.570	60.337	65.540	71.665	77.012	78.225	78.567
160	38.263	39.771	43.419	47.937	54.259	57.275	57.565
165	28.391	29.563	29.800	31.651	34.469	40.061	40.449
170	18.914	19.302	18.769	17.504	18.328	21.147	24.209
175	11.084	11.182	11.136	10.405	9.239	9.042	11.670
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	3.96	N.A.	0.70
0-30	13.16	N.A.	2.20
0-40	31.15	N.A.	5.20
0-60	102.66	N.A.	17.30
0-80	221.43	N.A.	37.20
0-90	290.74	N.A.	48.90
10-90	290.19	N.A.	48.80
20-40	27.19	N.A.	4.60
20-50	56.52	N.A.	9.50
40-70	126.18	N.A.	21.20
60-80	118.77	N.A.	20.00
70-80	64.10	N.A.	10.80
80-90	69.31	N.A.	11.60
90-110	135.02	N.A.	22.70
90-120	192.20	N.A.	32.30
90-130	237.92	N.A.	40.00
90-150	290.24	N.A.	48.80
90-180	304.27	N.A.	51.10
110-180	169.25	N.A.	28.40
0-180	595.00	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	0.55
10-20	3.41
20-30	9.21
30-40	17.98
40-50	29.33
50-60	42.19
60-70	54.66
70-80	64.10
80-90	69.31
90-100	69.61
100-110	65.41
110-120	57.18
120-130	45.72
130-140	32.39
140-150	19.92
150-160	9.96
160-170	3.49
170-180	0.59

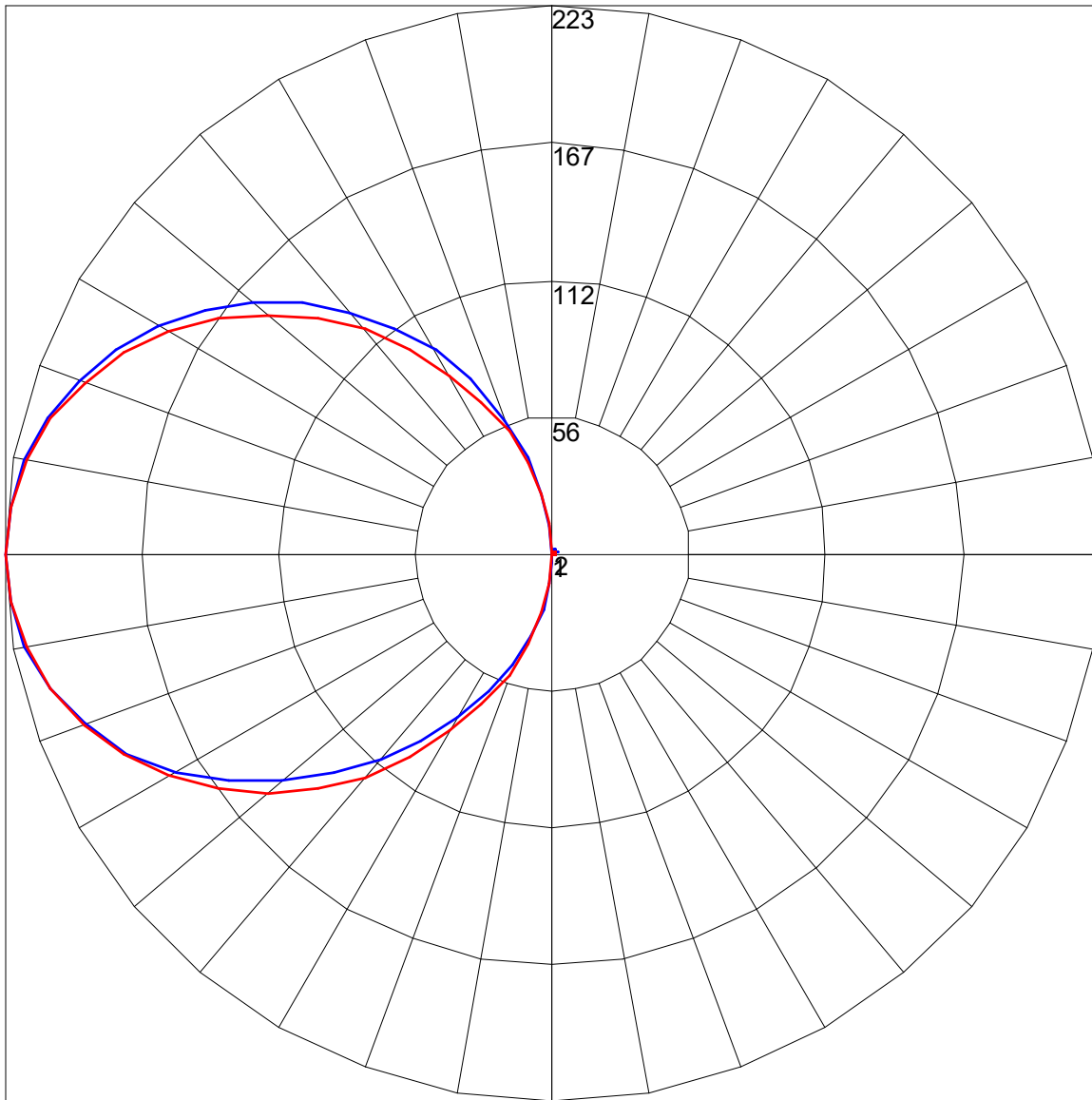
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	98	98	98	98	83	83	83	68	68	68	55	55	55	49
1	92	85	78	73	83	77	72	67	64	59	55	51	48	45	39	37	35	29
2	81	71	62	55	73	64	57	50	52	46	41	41	37	33	31	28	25	20
3	72	60	51	43	65	55	46	39	44	38	32	35	30	25	26	22	19	14
4	65	52	42	35	59	47	38	32	38	31	26	30	24	20	22	18	14	10
5	60	46	36	29	54	41	33	26	33	26	21	26	21	16	19	15	12	8
6	54	40	31	24	49	37	28	22	30	23	18	23	18	14	17	13	10	6
7	50	36	27	20	45	33	24	19	27	20	15	21	15	11	15	11	8	5
8	46	32	24	18	42	29	22	16	24	17	13	19	14	10	14	10	7	4
9	43	29	21	15	39	27	19	14	22	16	11	17	12	8	13	9	6	3
10	40	27	19	13	36	24	17	12	20	14	10	16	11	7	12	8	5	3

POLAR GRAPH



Maximum Candela = 223.155 Located At Horizontal Angle = 180, Vertical Angle = 90
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (90) (Through Max. Cd.)