

IES Report

ZipTwo® | 707 | Ceiling Cable | Square 3520, Single Side Diffuse | 80 CRI | SO
707-Z2-S-4-48-CC-XX-XX-XX-X-X-Z-SO-X-FA-BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	25	25	26	26
Total Lumens, 4' rail length (1219mm)	633	653	666	666
Lumens per foot (305mm)	158	163	166	166
Input Power (W), 4' rail length (1219mm)	26.1	26.1	26.1	26.1
Watts per foot (305mm)	6.6	6.6	6.6	6.6
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_CC_SO_35_FA_BL.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] 5/12/2021
[MANUFAC] Vode Lighting
[LUMCAT] 707-Z2-48-CC-Z-SO-35-FA-BL
[LUMINAIRE] ZipTwo LED, 48", ceiling cable suspended, 3500K, 80 CRI, zipper board,
[MORE] square 3520, single side diffuse lens, standard output, black anodized finish
[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	665
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	26
Total Luminaire Watts	26.03
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	Unknown
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	3.99 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	0	0	0
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

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	3.451	3.451	3.451	3.451	3.451	3.451	3.451	3.451	3.451	3.451
5	0.545	0.545	0.545	0.545	0.545	0.597	0.597	0.655	0.655	0.655
10	0.435	0.435	0.435	0.435	0.435	0.435	0.435	0.435	0.435	0.545
15	0.324	0.324	0.324	0.324	0.324	0.324	0.324	0.324	0.324	0.435
20	0.221	0.221	0.272	0.272	0.272	0.272	0.272	0.272	0.324	0.324
25	0.324	0.324	0.324	0.324	0.324	0.324	0.324	0.272	0.272	0.272
30	0.435	0.435	0.435	0.383	0.383	0.383	0.383	0.324	0.324	0.324
35	0.435	0.435	0.435	0.435	0.435	0.435	0.435	0.383	0.383	0.383
40	0.545	0.545	0.545	0.545	0.545	0.487	0.487	0.487	0.435	0.383
45	0.655	0.655	0.655	0.597	0.597	0.597	0.545	0.487	0.487	0.487
50	0.759	0.707	0.707	0.655	0.655	0.655	0.597	0.597	0.545	0.487
55	0.759	0.759	0.759	0.759	0.759	0.707	0.707	0.597	0.597	0.545
60	0.869	0.869	0.869	0.817	0.817	0.759	0.707	0.707	0.597	0.597
65	0.869	0.869	0.869	0.869	0.869	0.817	0.759	0.707	0.707	0.597
70	0.980	0.980	0.928	0.928	0.869	0.869	0.817	0.759	0.707	0.707
75	0.980	0.980	0.980	0.980	0.928	0.928	0.869	0.817	0.707	0.707
80	1.090	1.031	1.031	0.980	0.980	0.928	0.928	0.817	0.817	0.707
85	1.090	1.090	1.090	1.031	0.980	0.980	0.928	0.817	0.817	0.707
90	1.090	1.090	1.090	1.090	1.031	0.980	0.928	0.928	0.817	0.759
95	1.090	1.090	1.142	1.142	1.090	1.031	1.031	0.928	0.869	0.817
100	1.304	1.304	1.252	1.252	1.252	1.194	1.194	1.090	1.031	0.928
105	1.414	1.414	1.362	1.362	1.414	1.362	1.304	1.194	1.090	1.090
110	1.524	1.524	1.466	1.466	1.466	1.414	1.362	1.304	1.252	1.142
115	1.739	1.687	1.576	1.635	1.635	1.576	1.524	1.414	1.362	1.304
120	1.849	1.797	1.739	1.739	1.687	1.687	1.635	1.466	1.466	1.414
125	1.959	1.901	1.849	1.797	1.797	1.739	1.739	1.576	1.576	1.524
130	1.959	1.959	1.901	1.849	1.849	1.849	1.849	1.687	1.524	1.524
135	1.959	2.069	1.959	1.901	1.959	1.959	1.797	1.635	1.635	1.635
140	2.069	2.069	2.069	2.011	2.069	1.849	1.849	1.687	1.739	1.739
145	2.173	2.173	2.173	2.121	1.849	1.959	1.901	1.797	1.797	1.901
150	2.173	2.232	2.283	2.011	2.011	2.011	2.011	1.959	2.069	2.121
155	2.283	2.283	2.232	2.069	2.069	2.069	2.283	2.232	2.173	2.121
160	2.283	2.283	2.011	2.121	2.121	2.394	2.394	2.121	2.173	2.121
165	2.173	1.901	1.901	2.069	2.446	2.504	2.394	2.232	2.173	2.173
170	2.173	1.849	1.901	2.335	2.394	2.446	2.394	2.335	2.335	2.446
175	1.524	2.069	2.504	2.828	2.939	2.991	3.101	3.101	3.425	3.698
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. 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	3.451	3.451	3.451	3.451	3.451	3.451	3.451	3.451	3.451	3.451
5	0.759	0.817	0.928	1.031	1.252	1.524	2.011	2.556	3.211	4.022
10	0.545	0.545	0.545	0.655	0.655	0.817	1.142	1.849	3.153	4.950
15	0.435	0.435	0.487	0.545	0.545	0.655	0.759	1.304	3.153	5.929
20	0.324	0.383	0.435	0.435	0.487	0.545	0.655	0.980	2.991	6.961
25	0.272	0.324	0.324	0.383	0.435	0.487	0.545	0.759	2.939	7.882
30	0.272	0.272	0.272	0.324	0.383	0.435	0.487	0.655	2.776	8.757
35	0.324	0.324	0.272	0.272	0.324	0.383	0.435	0.545	2.718	9.568
40	0.383	0.383	0.324	0.272	0.272	0.324	0.435	0.487	2.556	10.334
45	0.383	0.383	0.383	0.324	0.272	0.324	0.383	0.435	2.394	11.041
50	0.487	0.383	0.383	0.383	0.272	0.272	0.324	0.435	2.121	11.910
55	0.487	0.487	0.383	0.383	0.272	0.272	0.324	0.383	1.959	12.124
60	0.487	0.487	0.383	0.383	0.383	0.272	0.272	0.324	1.687	12.617

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CANDELA TABULATION - (Cont.)

65	0.597	0.487	0.487	0.383	0.383	0.272	0.272	0.324	1.466	12.993
70	0.597	0.545	0.487	0.383	0.383	0.272	0.272	0.272	1.524	13.214
75	0.597	0.597	0.487	0.435	0.383	0.383	0.272	0.272	1.252	13.376
80	0.655	0.597	0.487	0.435	0.383	0.383	0.272	0.272	0.759	13.376
85	0.707	0.597	0.545	0.487	0.383	0.383	0.272	0.272	0.545	13.759
90	0.707	0.597	0.545	0.487	0.383	0.383	0.272	0.272	0.272	13.538
95	0.707	0.655	0.597	0.545	0.435	0.383	0.383	0.272	0.324	13.435
100	0.869	0.759	0.707	0.597	0.545	0.435	0.383	0.383	0.545	13.486
105	0.980	0.869	0.817	0.707	0.597	0.545	0.487	0.487	0.817	11.800
110	1.142	1.031	0.928	0.817	0.759	0.707	0.707	0.707	1.194	10.386
115	1.252	1.142	1.090	1.031	0.980	0.980	1.031	0.928	1.635	9.134
120	1.362	1.362	1.304	1.252	1.252	1.252	1.194	1.194	2.069	7.940
125	1.414	1.362	1.362	1.362	1.362	1.362	1.362	1.414	2.335	6.740
130	1.466	1.524	1.466	1.466	1.466	1.466	1.414	1.576	2.608	6.253
135	1.635	1.635	1.576	1.576	1.576	1.576	1.524	1.739	2.776	5.819
140	1.739	1.797	1.687	1.635	1.635	1.576	1.635	2.069	2.991	5.436
145	2.011	1.849	1.797	1.739	1.687	1.687	1.849	2.394	3.211	4.950
150	2.069	2.011	1.959	1.849	1.901	1.959	2.173	3.042	3.749	5.112
155	2.121	2.069	2.069	2.011	1.959	2.173	2.776	3.698	4.242	5.274
160	2.121	2.121	2.069	2.121	2.232	2.556	3.373	4.184	4.625	5.332
165	2.121	2.173	2.232	2.394	2.718	3.315	4.080	4.625	5.001	5.332
170	2.504	2.608	2.880	3.263	3.749	4.294	4.787	5.164	5.384	5.546
175	3.860	4.132	4.405	4.729	5.001	5.274	5.494	5.657	5.767	5.929
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Horizontal Angles

	100	105	110	115	120	125	130	135	140	145
0	3.451	3.451	3.451	3.451	3.451	3.451	3.451	3.451	3.451	3.451
5	4.787	5.598	6.474	7.233	8.050	8.757	9.627	10.275	10.879	11.417
10	6.850	8.699	10.606	12.234	13.973	15.608	17.398	18.871	20.226	21.427
15	8.861	11.748	14.518	17.184	19.954	22.945	25.449	27.952	30.178	32.137
20	10.879	14.680	18.488	22.134	26.045	29.633	33.933	37.411	40.622	43.554
25	12.669	17.508	22.458	27.245	32.357	38.066	42.795	47.420	51.604	55.626
30	14.628	20.447	26.480	32.461	38.825	45.837	51.877	57.747	63.131	68.405
35	16.425	23.275	30.508	37.735	45.403	52.636	61.283	68.464	75.094	81.671
40	18.164	26.104	34.530	43.015	51.987	60.524	71.013	79.388	87.328	95.106
45	19.850	28.763	38.442	48.069	58.513	68.405	80.530	90.377	99.673	108.865
50	21.316	31.319	42.140	52.966	64.818	75.963	89.884	101.139	111.907	122.617
55	22.679	33.713	45.513	57.585	71.182	85.589	98.803	111.362	123.487	135.728
60	23.710	35.944	48.886	63.676	78.577	92.712	106.795	121.261	135.124	148.014
65	24.741	37.845	51.714	65.960	83.579	99.076	114.353	130.012	145.186	159.379
70	25.559	39.421	54.867	69.002	85.479	104.240	120.444	137.576	153.340	168.403
75	26.207	40.725	56.061	71.720	89.015	105.543	125.608	143.719	160.248	176.070
80	27.187	42.198	57.585	73.842	94.509	111.959	129.688	147.793	165.308	181.727
85	27.459	42.847	58.513	75.256	93.530	111.038	132.296	150.680	168.026	185.210
90	27.459	43.067	58.947	76.346	93.692	113.808	133.275	151.822	169.330	186.404
95	27.459	42.522	59.434	76.397	93.744	114.625	132.737	151.822	169.006	186.080
100	27.408	42.412	58.617	75.911	93.095	114.243	132.679	150.349	167.319	183.958
105	27.297	41.977	57.968	74.276	92.167	112.290	129.740	147.359	163.836	180.533
110	26.266	41.381	56.768	72.700	89.994	106.251	126.211	143.719	159.489	174.384
115	23.710	40.784	55.847	70.527	87.056	103.318	121.534	138.115	152.963	167.157
120	20.337	38.552	53.129	67.809	83.520	101.197	116.150	131.264	145.679	158.782
125	17.891	32.519	47.958	61.555	76.397	90.915	108.755	123.272	136.597	148.669
130	15.446	26.538	42.088	55.029	68.354	83.520	96.844	111.038	125.232	137.304
135	13.162	23.275	33.389	48.231	60.413	71.616	85.427	97.389	109.299	121.858

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CANDELA TABULATION - (Cont.)

140	11.365	19.467	27.518	37.904	52.201	62.749	74.335	84.500	94.399	104.674
145	9.951	15.608	23.113	30.015	40.129	53.725	62.969	72.596	80.153	88.470
150	9.465	14.194	19.195	25.935	32.137	39.045	51.818	61.503	67.646	72.920
155	8.647	12.942	17.074	21.096	26.915	32.188	37.955	44.864	51.818	57.475
160	7.778	11.255	14.790	18.274	21.368	24.793	28.660	32.792	38.552	40.998
165	6.798	9.192	12.234	14.790	17.236	19.954	21.699	25.066	27.135	29.743
170	6.143	7.447	9.082	11.145	12.993	14.628	16.042	17.833	19.195	20.499
175	5.981	6.202	6.740	7.395	8.213	9.082	9.899	11.041	11.638	12.124
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	3.451	3.451	3.451	3.451	3.451	3.451	3.451
5	11.800	12.234	12.559	12.831	12.993	13.104	13.052
10	22.510	23.379	24.197	24.852	25.228	25.500	25.559
15	33.875	35.510	36.814	37.845	38.611	38.987	39.149
20	46.168	48.503	50.410	51.928	52.966	53.667	53.836
25	59.213	62.262	64.870	66.939	68.405	69.333	69.606
30	72.972	76.890	80.257	82.982	84.830	86.076	86.459
35	87.276	92.167	96.358	99.783	102.177	103.695	104.298
40	102.066	107.996	113.049	117.291	120.334	122.241	122.676
45	117.071	124.194	130.233	135.286	139.042	141.164	142.033
50	131.920	140.236	147.417	153.398	157.692	160.411	161.280
55	146.327	155.954	164.108	171.017	176.018	179.171	180.313
60	160.248	171.017	180.365	188.253	193.747	197.445	198.476
65	172.807	184.665	194.993	203.530	209.731	213.753	215.115
70	182.869	195.596	206.520	215.660	221.583	225.715	226.857
75	190.757	204.509	216.257	224.573	231.482	235.939	237.191
80	197.386	210.983	222.238	231.644	238.605	243.230	244.586
85	200.922	214.733	226.046	235.666	242.685	247.031	248.283
90	202.336	215.985	227.129	236.866	243.717	248.011	249.587
95	201.629	215.278	226.260	235.777	242.737	246.869	248.394
100	199.294	212.611	222.945	232.403	239.312	243.444	244.806
105	194.941	207.720	217.399	226.967	233.441	237.625	238.825
110	188.525	200.812	211.256	218.106	225.229	229.147	230.230
115	179.988	191.898	202.012	209.893	215.712	218.755	220.007
120	171.179	181.947	191.243	198.638	203.964	207.448	208.479
125	160.028	169.817	178.354	184.938	189.881	193.092	194.013
130	147.579	156.330	164.056	170.037	174.494	177.374	178.140
135	134.145	142.033	148.883	154.157	158.075	160.573	161.280
140	115.553	126.484	132.899	137.466	140.943	143.064	143.661
145	97.065	106.037	115.929	120.230	123.162	124.959	125.504
150	79.660	86.511	94.237	102.391	104.999	106.471	106.906
155	62.152	67.484	73.303	80.153	86.134	87.490	87.873
160	42.795	44.481	48.562	53.615	60.686	64.059	64.383
165	31.754	33.064	33.330	35.400	38.552	44.806	45.240
170	21.154	21.589	20.992	19.578	20.499	23.652	27.077
175	12.397	12.507	12.455	11.638	10.334	10.113	13.052
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	4.42	N.A.	0.70
0-30	14.72	N.A.	2.20
0-40	34.84	N.A.	5.20
0-60	114.82	N.A.	17.30
0-80	247.66	N.A.	37.20
0-90	325.17	N.A.	48.90
10-90	324.56	N.A.	48.80
20-40	30.41	N.A.	4.60
20-50	63.22	N.A.	9.50
40-70	141.12	N.A.	21.20
60-80	132.83	N.A.	20.00
70-80	71.70	N.A.	10.80
80-90	77.51	N.A.	11.60
90-110	151.01	N.A.	22.70
90-120	214.97	N.A.	32.30
90-130	266.10	N.A.	40.00
90-150	324.61	N.A.	48.80
90-180	340.31	N.A.	51.10
110-180	189.30	N.A.	28.40
0-180	665.48	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	0.61
10-20	3.81
20-30	10.30
30-40	20.11
40-50	32.80
50-60	47.18
60-70	61.13
70-80	71.70
80-90	77.51
90-100	77.86
100-110	73.15
110-120	63.95
120-130	51.13
130-140	36.23
140-150	22.28
150-160	11.14
160-170	3.90
170-180	0.66

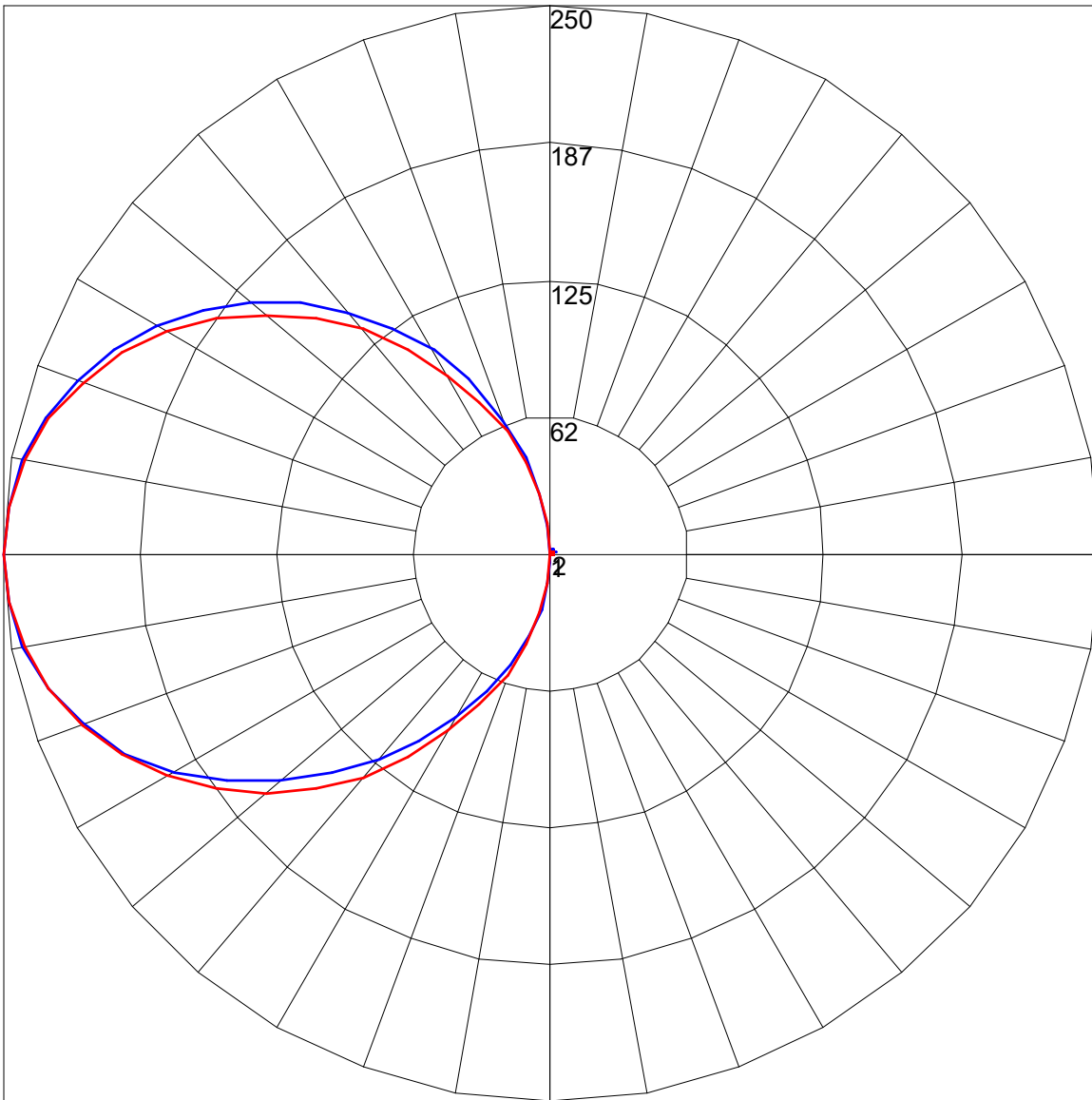
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	
0	107	107	107	107	99	99	99	99	83	83	83	68	68	68	55	55	55	49
1	92	85	79	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	73	60	51	43	66	55	46	39	44	38	32	35	30	25	26	22	19	14
4	66	52	42	35	59	47	39	32	38	31	26	30	24	20	22	18	14	10
5	60	46	36	29	54	41	33	26	33	27	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	9	13	9	6	4
10	40	27	19	13	36	24	17	12	20	14	10	16	11	7	12	8	5	3

POLAR GRAPH



Maximum Candela = 249.587 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.)