

IES Report

ZipTwo® | 707 | Ceiling Cable | Square 3535, Single Side Diffuse | 80 CRI | SO
707-Z2-S-4-48-CC-XX-XX-XX-X-X-Z-SO-X-SA-BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	76	79	80	80
Total Lumens, 4' rail length (1219mm)	1980	2043	2085	2085
Lumens per foot (305mm)	495	511	521	521
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_SA_BLI.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L082011217 (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-SA-BL
[LUMINAIRE] ZipTwo LED, 48", ceiling cable suspended, 3500K, 80 CRI, zipper board,
[MORE] square 3535, single side 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	2085
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	80
Total Luminaire Watts	26.11
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	Vertical Rectangle
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	3.99 ft
Luminous Height	0.11 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	0	65	382
55	0	67	237
65	0	70	149
75	0	75	76
85	0	78	62

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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	15.396	15.396	15.396	15.396	15.396	15.396	15.396	15.396	15.396	15.396
5	0.836	0.836	0.916	0.916	0.916	1.005	1.085	1.085	1.085	1.164
10	0.498	0.587	0.667	0.667	0.667	0.667	0.746	0.746	0.836	0.836
15	0.667	0.667	0.667	0.667	0.667	0.667	0.667	0.667	0.667	0.667
20	0.667	0.746	0.746	0.746	0.746	0.746	0.746	0.746	0.746	0.667
25	0.836	0.916	0.916	0.916	0.916	0.916	0.916	0.836	0.836	0.746
30	1.164	1.164	1.164	1.164	1.085	1.085	1.085	1.005	0.916	0.916
35	1.334	1.334	1.334	1.334	1.334	1.254	1.254	1.085	1.085	1.085
40	1.672	1.672	1.582	1.582	1.503	1.423	1.423	1.334	1.254	1.164
45	1.831	1.831	1.831	1.831	1.752	1.672	1.582	1.503	1.423	1.334
50	2.000	2.000	2.000	2.000	1.921	1.921	1.752	1.752	1.582	1.503
55	2.170	2.249	2.249	2.170	2.170	2.090	1.921	1.921	1.752	1.582
60	2.508	2.418	2.418	2.339	2.339	2.249	2.090	2.090	1.921	1.752
65	2.667	2.588	2.588	2.508	2.418	2.418	2.249	2.170	2.090	1.831
70	2.667	2.667	2.667	2.667	2.588	2.508	2.418	2.249	2.090	2.000
75	2.836	2.836	2.836	2.836	2.757	2.588	2.588	2.418	2.249	2.090
80	3.006	3.006	3.006	2.916	2.836	2.757	2.588	2.418	2.339	2.170
85	3.006	3.006	3.006	3.006	2.916	2.836	2.757	2.588	2.418	2.249
90	3.175	3.175	3.175	3.085	3.006	2.916	2.757	2.588	2.508	2.339
95	3.175	3.175	3.175	3.175	3.085	2.916	2.916	2.757	2.588	2.339
100	3.334	3.334	3.334	3.254	3.175	3.085	2.916	2.757	2.667	2.508
105	3.503	3.503	3.423	3.334	3.254	3.254	3.085	2.916	2.757	2.588
110	3.503	3.503	3.503	3.503	3.423	3.254	3.085	3.006	2.836	2.667
115	3.672	3.583	3.583	3.503	3.423	3.334	3.254	3.085	2.916	2.757
120	3.672	3.672	3.583	3.503	3.423	3.423	3.254	3.085	2.916	2.757
125	3.672	3.672	3.583	3.503	3.423	3.334	3.254	3.085	2.916	2.836
130	3.503	3.503	3.503	3.423	3.423	3.254	3.175	3.085	2.836	2.757
135	3.503	3.423	3.334	3.334	3.254	3.175	3.085	2.916	2.916	2.836
140	3.334	3.254	3.254	3.175	3.175	3.006	3.006	3.006	2.916	2.836
145	3.175	3.175	3.085	3.085	2.916	2.916	3.006	3.085	3.006	3.006
150	3.006	3.006	3.006	2.757	2.836	2.916	3.006	3.175	3.175	3.175
155	2.836	2.836	2.757	2.588	2.757	2.916	3.085	3.175	3.175	3.085
160	2.667	2.667	2.339	2.418	2.667	3.006	3.175	3.085	3.006	2.916
165	2.339	2.090	2.170	2.418	2.916	3.006	3.175	3.423	3.752	4.259
170	2.836	3.334	3.423	4.588	4.837	5.255	5.593	6.011	6.260	6.588
175	4.339	4.837	5.673	6.419	6.419	6.588	6.588	6.678	6.757	6.757
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	15.396	15.396	15.396	15.396	15.396	15.396	15.396	15.396	15.396	15.396
5	1.164	1.503	2.170	3.254	4.757	6.678	9.255	12.181	15.187	18.441
10	0.916	1.005	1.005	1.085	1.164	1.423	3.672	8.340	15.097	22.691
15	0.667	0.836	0.836	1.005	1.005	1.005	1.254	4.926	14.600	26.363
20	0.667	0.667	0.667	0.746	0.836	1.005	1.085	2.508	14.102	29.786
25	0.746	0.746	0.746	0.667	0.746	0.916	1.005	1.254	13.684	33.369
30	0.916	0.836	0.746	0.746	0.746	0.746	0.916	1.085	12.848	36.205
35	0.916	0.916	0.916	0.746	0.746	0.746	0.836	1.005	12.012	38.037
40	1.085	1.005	0.916	0.916	0.746	0.746	0.746	1.005	12.092	40.544
45	1.164	1.085	1.005	0.916	0.836	0.746	0.746	0.916	11.017	42.216
50	1.334	1.164	1.085	1.005	0.916	0.746	0.746	0.836	9.096	43.799
55	1.503	1.334	1.164	1.005	0.916	0.836	0.746	0.746	7.922	46.297
60	1.582	1.423	1.254	1.164	1.005	0.836	0.746	0.746	6.588	46.963

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CANDELA TABULATION - (Cont.)

65	1.672	1.503	1.334	1.164	1.005	0.916	0.746	0.746	5.503	47.381
70	1.831	1.672	1.503	1.254	1.085	1.005	0.836	0.746	4.259	47.630
75	1.831	1.672	1.503	1.334	1.164	1.005	0.836	0.746	3.006	47.381
80	2.000	1.752	1.503	1.334	1.164	1.005	0.836	0.746	3.334	45.461
85	2.000	1.831	1.582	1.334	1.164	1.005	0.836	0.746	2.508	44.545
90	2.090	1.831	1.672	1.423	1.164	1.005	0.916	0.746	1.672	43.381
95	2.170	2.000	1.672	1.503	1.334	1.164	1.005	0.836	1.254	43.550
100	2.339	2.000	1.831	1.503	1.334	1.164	1.005	0.916	1.254	42.216
105	2.339	2.170	1.921	1.672	1.503	1.254	1.085	1.005	1.423	40.126
110	2.508	2.249	2.000	1.672	1.503	1.334	1.254	1.164	1.752	35.867
115	2.508	2.249	2.090	1.831	1.582	1.503	1.334	1.334	2.090	28.114
120	2.588	2.418	2.090	1.921	1.752	1.503	1.423	1.752	2.418	21.855
125	2.588	2.418	2.170	2.000	1.831	1.672	1.582	2.170	2.757	17.685
130	2.588	2.418	2.249	2.090	1.921	1.831	1.921	2.588	3.006	14.848
135	2.667	2.588	2.418	2.170	2.000	1.921	2.418	2.916	3.254	12.599
140	2.836	2.757	2.508	2.339	2.090	2.249	3.006	3.254	3.583	10.758
145	3.006	2.757	2.588	2.339	2.249	2.916	3.423	3.503	3.752	8.847
150	3.006	2.836	2.667	2.667	3.085	4.090	4.001	4.090	4.419	8.678
155	3.006	2.836	3.085	3.583	4.419	4.667	4.588	4.757	5.085	8.589
160	3.175	3.583	4.339	5.085	5.255	5.085	5.175	5.344	5.673	8.011
165	4.926	5.593	5.921	5.842	5.673	5.673	5.842	6.011	6.170	7.255
170	6.678	6.588	6.419	6.339	6.419	6.419	6.588	6.757	6.927	7.345
175	6.678	6.678	6.757	6.837	6.927	7.096	7.255	7.255	7.424	7.504
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	15.396	15.396	15.396	15.396	15.396	15.396	15.396	15.396	15.396	15.396
5	21.685	24.860	28.035	31.279	34.205	37.121	39.878	42.296	44.714	46.884
10	29.866	37.121	44.376	51.223	58.150	64.489	70.739	76.919	82.253	87.259
15	37.629	48.715	60.150	71.326	82.004	92.345	103.113	112.617	121.464	129.804
20	45.053	60.150	75.665	91.260	106.108	120.708	135.059	149.330	162.009	174.190
25	52.308	71.326	91.260	111.373	130.809	149.907	169.592	187.695	204.553	220.735
30	58.816	85.169	105.780	130.471	154.495	178.609	201.876	225.244	246.591	266.863
35	65.066	91.678	120.210	148.573	178.688	207.051	234.997	262.862	288.638	314.254
40	69.913	101.361	133.974	166.925	201.966	234.917	267.530	301.317	330.605	358.292
45	80.840	109.950	146.493	183.107	222.815	260.105	297.565	332.606	368.970	401.344
50	82.422	118.707	157.839	198.463	242.341	283.722	325.012	364.970	403.763	440.963
55	84.094	125.714	168.010	211.888	259.687	304.909	340.110	393.830	435.878	476.671
60	86.931	131.227	176.101	224.567	272.625	320.753	367.388	417.188	462.241	506.119
65	89.349	135.815	184.530	234.001	284.548	333.850	384.326	436.544	483.846	529.815
70	91.101	137.726	188.451	239.833	294.062	341.612	401.006	452.060	500.944	548.246
75	92.016	139.895	191.954	244.759	301.983	345.703	407.932	461.743	511.543	561.343
80	90.593	140.980	193.785	247.516	305.656	348.201	413.018	468.998	518.798	565.851
85	90.175	140.900	194.373	248.342	306.910	355.545	414.690	470.749	520.390	567.354
90	89.090	141.318	193.039	247.009	305.327	347.872	412.520	466.410	516.051	563.850
95	89.011	139.318	190.621	244.093	301.655	345.454	407.514	460.658	509.453	556.426
100	87.010	136.392	186.869	240.918	294.141	341.861	397.672	451.144	499.033	544.663
105	84.423	131.227	183.366	234.419	286.050	337.273	388.247	438.634	484.931	529.227
110	81.417	126.719	175.603	224.826	277.631	327.262	375.987	423.030	467.326	509.791
115	78.830	121.464	168.179	215.232	265.778	312.911	348.867	403.932	447.392	486.434
120	73.326	114.368	159.332	203.797	251.437	295.893	339.363	382.824	422.283	458.817
125	55.224	100.854	143.070	184.281	229.911	273.959	317.170	349.116	394.089	428.036
130	46.217	86.931	126.888	163.840	203.717	242.341	281.801	323.510	361.636	394.338
135	36.036	75.496	109.203	144.155	179.186	212.475	246.342	281.711	316.503	351.873

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CANDELA TABULATION - (Cont.)

140	29.120	57.562	92.016	123.544	155.251	183.614	212.555	242.262	271.122	300.988
145	23.945	42.963	72.411	99.271	129.476	161.670	184.450	205.718	228.747	252.850
150	21.606	36.454	55.313	80.004	103.272	130.889	158.834	177.852	193.119	208.723
155	18.351	31.279	44.794	60.647	81.258	99.271	120.549	143.816	158.665	171.264
160	15.097	25.696	36.454	47.799	58.060	70.988	87.339	101.690	116.210	127.216
165	11.594	18.769	27.776	36.036	44.217	51.392	58.647	65.653	73.078	83.587
170	9.007	12.510	17.774	23.855	29.199	34.374	38.375	43.212	47.381	49.889
175	7.842	8.509	9.843	11.514	13.594	16.351	18.690	20.939	22.442	24.193
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	15.396	15.396	15.396	15.396	15.396	15.396	15.396
5	48.715	50.556	51.810	52.805	53.472	53.810	53.890
10	91.847	95.688	98.853	101.520	103.192	104.197	104.446
15	137.308	143.657	149.071	153.410	156.246	157.918	158.336
20	185.028	194.203	202.215	208.385	212.396	214.814	215.729
25	235.245	247.596	258.354	266.783	272.456	275.959	276.964
30	285.304	300.988	314.583	325.182	331.521	336.358	337.691
35	332.098	353.873	369.896	382.993	392.169	398.170	400.090
40	384.078	407.594	426.871	442.973	454.319	461.494	463.654
45	430.872	457.901	480.761	498.446	511.294	519.713	522.052
50	475.089	504.367	529.815	549.579	564.268	573.524	576.609
55	513.712	545.827	574.280	596.384	612.814	622.746	626.001
60	545.827	580.112	610.227	634.340	651.269	661.699	665.540
65	571.603	607.729	639.257	664.376	681.802	692.480	696.401
70	591.547	628.668	660.285	686.230	705.079	716.345	720.097
75	603.887	641.595	673.631	699.407	718.007	729.860	733.612
80	608.644	647.686	679.891	705.836	724.516	736.368	739.951
85	609.898	648.940	681.473	706.333	724.764	736.697	740.787
90	607.311	644.263	676.716	701.407	719.679	731.273	734.945
95	598.971	635.505	667.292	692.062	709.757	720.843	724.605
100	586.292	621.910	652.861	677.472	694.570	705.248	708.752
105	569.354	603.887	634.002	657.947	674.636	685.056	688.231
110	548.335	581.366	609.480	632.499	649.438	659.698	662.873
115	522.968	554.336	581.038	602.723	618.407	628.499	631.504
120	492.355	521.554	548.077	568.020	582.371	592.044	594.801
125	459.066	487.101	510.707	528.809	542.324	551.251	553.749
130	423.537	448.228	469.914	486.683	498.864	506.955	509.204
135	383.660	405.932	425.448	440.714	451.482	458.568	460.658
140	330.436	360.800	377.897	391.502	401.006	407.017	409.097
145	278.129	304.661	330.854	341.115	349.206	354.381	355.874
150	227.990	248.014	270.625	291.723	298.729	303.068	304.322
155	180.191	194.711	211.062	232.499	245.008	248.342	249.427
160	136.233	142.154	153.659	167.681	188.202	192.452	193.537
165	91.260	96.106	98.186	105.949	116.210	130.968	131.635
170	52.218	54.308	53.810	51.810	55.980	65.156	74.909
175	25.358	25.696	26.114	24.522	22.103	22.442	31.538
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	17.87	N.A.	0.90
0-30	58.69	N.A.	2.80
0-40	136.04	N.A.	6.50
0-60	423.07	N.A.	20.30
0-80	854.27	N.A.	41.00
0-90	1092.24	N.A.	52.40
10-90	1089.73	N.A.	52.30
20-40	118.17	N.A.	5.70
20-50	239.50	N.A.	11.50
40-70	490.22	N.A.	23.50
60-80	431.20	N.A.	20.70
70-80	228.01	N.A.	10.90
80-90	237.97	N.A.	11.40
90-110	448.99	N.A.	21.50
90-120	634.90	N.A.	30.50
90-130	781.88	N.A.	37.50
90-150	948.82	N.A.	45.50
90-180	992.36	N.A.	47.60
110-180	543.38	N.A.	26.10
0-180	2084.6	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	2.51
10-20	15.35
20-30	40.82
30-40	77.35
40-50	121.33
50-60	165.70
60-70	203.19
70-80	228.01
80-90	237.97
90-100	233.38
100-110	215.61
110-120	185.91
120-130	146.98
130-140	103.65
140-150	63.30
150-160	31.68
160-170	10.49
170-180	1.38

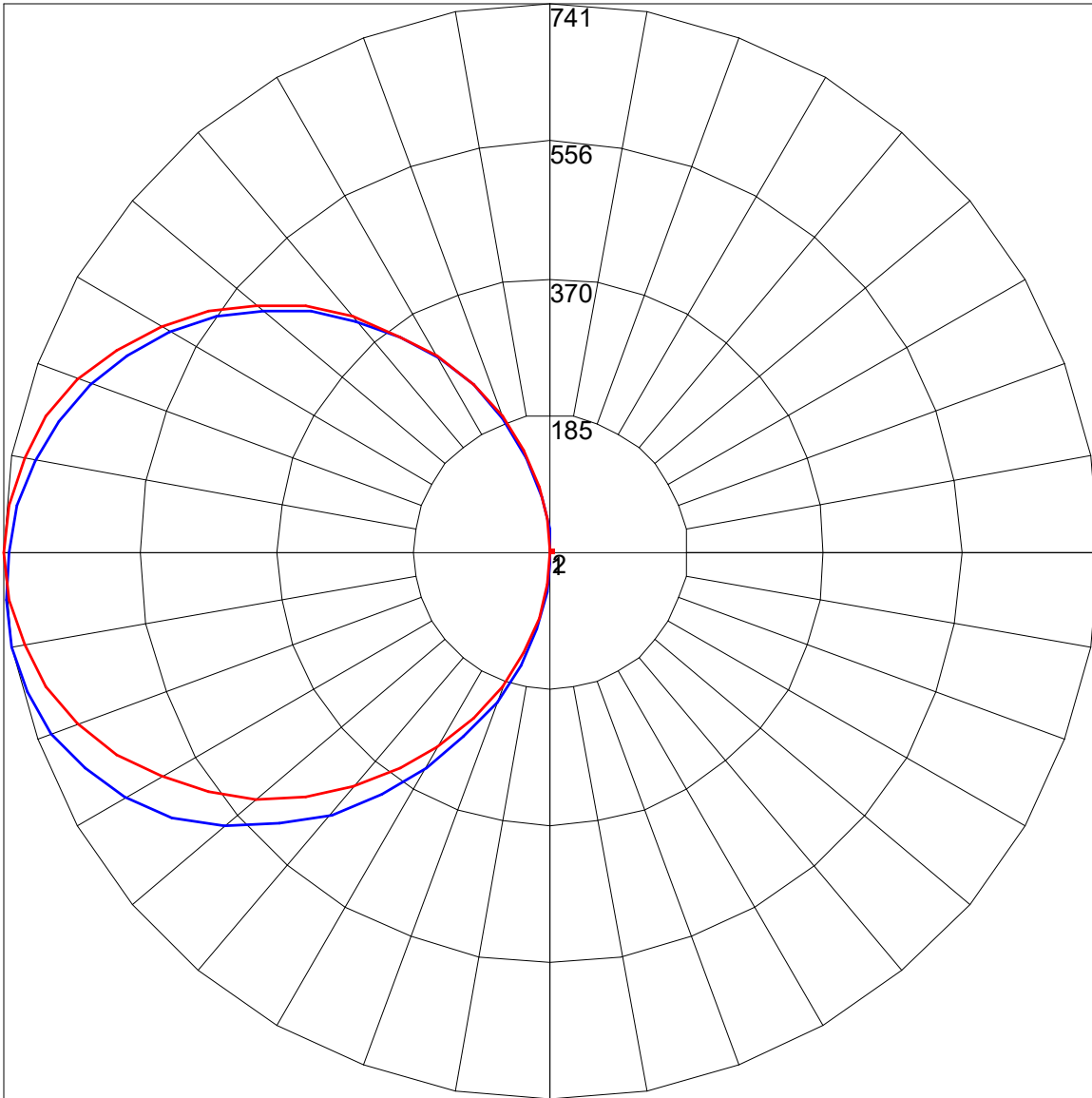
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	108	108	108	108	100	100	100	100	85	85	85	71	71	71	58	58	58	52
1	92	86	79	74	85	78	73	68	65	61	57	53	50	47	42	40	37	32
2	82	71	63	56	74	65	58	51	54	48	43	43	39	35	34	30	27	22
3	73	61	51	44	66	56	47	40	46	39	33	36	31	27	28	24	20	16
4	66	53	43	35	60	48	39	32	39	32	27	31	26	21	24	20	16	12
5	60	46	36	29	54	42	33	27	34	27	22	27	22	17	21	16	13	9
6	55	41	31	24	50	37	29	22	31	24	18	24	19	14	18	14	11	8
7	50	36	27	21	46	33	25	19	27	20	16	22	16	12	17	12	9	6
8	47	33	24	18	42	30	22	16	25	18	13	20	14	10	15	11	8	5
9	43	29	21	15	39	27	19	14	22	16	12	18	13	9	14	10	7	4
10	40	27	19	13	37	25	17	12	20	14	10	16	11	8	13	9	6	4

POLAR GRAPH



Maximum Candela = 740.787 Located At Horizontal Angle = 180, Vertical Angle = 85
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (85) (Through Max. Cd.)