

IES Report

ZipTwo® | 707 | Square 3536, Single Side Diffuse | 80 CRI | SO

707-Z2-4-48-XX-XX-X-0-Z-SO-35-SA-X-WH-0

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	89	92	94	94
Total Lumens, 4' rail length (1219mm)	2308	2381	2430	2430
Lumens per foot (305mm)	577	595	607	607
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_SO_35_SA_WH.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] 9/9/2020
[MANUFAC] Vode Lighting
[LUMCAT] 707-Z2-48-Z-SO-35-SA-WH
[LUMINAIRE] ZipTwo LED, 48", 3500K, 80 CRI, zipper board,
[MORE] square 3536, single side side diffuse lens, standard output
[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2430
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	93
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	76	445
55	0	78	276
65	0	82	173
75	0	87	89
85	0	91	72

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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	17.945	17.945	17.945	17.945	17.945	17.945	17.945	17.945	17.945	17.945
5	0.974	0.974	1.067	1.067	1.067	1.172	1.264	1.264	1.264	1.357
10	0.580	0.684	0.777	0.777	0.777	0.777	0.870	0.870	0.974	0.974
15	0.777	0.777	0.777	0.777	0.777	0.777	0.777	0.777	0.777	0.777
20	0.777	0.870	0.870	0.870	0.870	0.870	0.870	0.870	0.870	0.777
25	0.974	1.067	1.067	1.067	1.067	1.067	1.067	0.974	0.974	0.870
30	1.357	1.357	1.357	1.357	1.264	1.264	1.264	1.172	1.067	1.067
35	1.554	1.554	1.554	1.554	1.554	1.462	1.462	1.264	1.264	1.264
40	1.949	1.949	1.844	1.844	1.752	1.659	1.659	1.554	1.462	1.357
45	2.134	2.134	2.134	2.134	2.042	1.949	1.844	1.752	1.659	1.554
50	2.332	2.332	2.332	2.332	2.239	2.239	2.042	2.042	1.844	1.752
55	2.529	2.622	2.622	2.529	2.529	2.436	2.239	2.239	2.042	1.844
60	2.923	2.819	2.819	2.726	2.726	2.622	2.436	2.436	2.239	2.042
65	3.109	3.016	3.016	2.923	2.819	2.819	2.622	2.529	2.436	2.134
70	3.109	3.109	3.109	3.109	3.016	2.923	2.819	2.622	2.436	2.332
75	3.306	3.306	3.306	3.306	3.213	3.016	3.016	2.819	2.622	2.436
80	3.503	3.503	3.503	3.399	3.306	3.213	3.016	2.819	2.726	2.529
85	3.503	3.503	3.503	3.503	3.399	3.306	3.213	3.016	2.819	2.622
90	3.700	3.700	3.700	3.596	3.503	3.399	3.213	3.016	2.923	2.726
95	3.700	3.700	3.700	3.700	3.596	3.399	3.399	3.213	3.016	2.726
100	3.886	3.886	3.886	3.793	3.700	3.596	3.399	3.213	3.109	2.923
105	4.083	4.083	3.990	3.886	3.793	3.793	3.596	3.399	3.213	3.016
110	4.083	4.083	4.083	4.083	3.990	3.793	3.596	3.503	3.306	3.109
115	4.280	4.176	4.176	4.083	3.990	3.886	3.793	3.596	3.399	3.213
120	4.280	4.280	4.176	4.083	3.990	3.990	3.793	3.596	3.399	3.213
125	4.280	4.280	4.176	4.083	3.990	3.886	3.793	3.596	3.399	3.306
130	4.083	4.083	4.083	3.990	3.990	3.793	3.700	3.596	3.306	3.213
135	4.083	3.990	3.886	3.886	3.793	3.700	3.596	3.399	3.399	3.306
140	3.886	3.793	3.793	3.700	3.700	3.503	3.503	3.503	3.399	3.306
145	3.700	3.700	3.596	3.596	3.399	3.399	3.503	3.596	3.503	3.503
150	3.503	3.503	3.503	3.213	3.306	3.399	3.503	3.700	3.700	3.700
155	3.306	3.306	3.213	3.016	3.213	3.399	3.596	3.700	3.700	3.596
160	3.109	3.109	2.726	2.819	3.109	3.503	3.700	3.596	3.503	3.399
165	2.726	2.436	2.529	2.819	3.399	3.503	3.700	3.990	4.373	4.965
170	3.306	3.886	3.990	5.348	5.638	6.125	6.519	7.006	7.296	7.679
175	5.058	5.638	6.612	7.482	7.482	7.679	7.679	7.784	7.876	7.876
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	17.945	17.945	17.945	17.945	17.945	17.945	17.945	17.945	17.945	17.945
5	1.357	1.752	2.529	3.793	5.545	7.784	10.788	14.198	17.702	21.495
10	1.067	1.172	1.172	1.264	1.357	1.659	4.280	9.721	17.597	26.448
15	0.777	0.974	0.974	1.172	1.172	1.172	1.462	5.742	17.017	30.728
20	0.777	0.777	0.777	0.870	0.974	1.172	1.264	2.923	16.437	34.719
25	0.870	0.870	0.870	0.777	0.870	1.067	1.172	1.462	15.950	38.895
30	1.067	0.974	0.870	0.870	0.870	0.870	1.067	1.264	14.976	42.201
35	1.067	1.067	1.067	0.870	0.870	0.870	0.974	1.172	14.001	44.335
40	1.264	1.172	1.067	1.067	0.870	0.870	0.870	1.172	14.094	47.258
45	1.357	1.264	1.172	1.067	0.974	0.870	0.870	1.067	12.841	49.207
50	1.554	1.357	1.264	1.172	1.067	0.870	0.870	0.974	10.602	51.052
55	1.752	1.554	1.357	1.172	1.067	0.974	0.870	0.870	9.234	53.963
60	1.844	1.659	1.462	1.357	1.172	0.974	0.870	0.870	7.679	54.740

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CANDELA TABULATION - (Cont.)

65	1.949	1.752	1.554	1.357	1.172	1.067	0.870	0.870	6.415	55.228
70	2.134	1.949	1.752	1.462	1.264	1.172	0.974	0.870	4.965	55.518
75	2.134	1.949	1.752	1.554	1.357	1.172	0.974	0.870	3.503	55.228
80	2.332	2.042	1.752	1.554	1.357	1.172	0.974	0.870	3.886	52.989
85	2.332	2.134	1.844	1.554	1.357	1.172	0.974	0.870	2.923	51.922
90	2.436	2.134	1.949	1.659	1.357	1.172	1.067	0.870	1.949	50.564
95	2.529	2.332	1.949	1.752	1.554	1.357	1.172	0.974	1.462	50.762
100	2.726	2.332	2.134	1.752	1.554	1.357	1.172	1.067	1.462	49.207
105	2.726	2.529	2.239	1.949	1.752	1.462	1.264	1.172	1.659	46.771
110	2.923	2.622	2.332	1.949	1.752	1.554	1.462	1.357	2.042	41.806
115	2.923	2.622	2.436	2.134	1.844	1.752	1.554	1.554	2.436	32.770
120	3.016	2.819	2.436	2.239	2.042	1.752	1.659	2.042	2.819	25.474
125	3.016	2.819	2.529	2.332	2.134	1.949	1.844	2.529	3.213	20.613
130	3.016	2.819	2.622	2.436	2.239	2.134	2.239	3.016	3.503	17.307
135	3.109	3.016	2.819	2.529	2.332	2.239	2.819	3.399	3.793	14.686
140	3.306	3.213	2.923	2.726	2.436	2.622	3.503	3.793	4.176	12.540
145	3.503	3.213	3.016	2.726	2.622	3.399	3.990	4.083	4.373	10.312
150	3.503	3.306	3.109	3.109	3.596	4.768	4.663	4.768	5.150	10.115
155	3.503	3.306	3.596	4.176	5.150	5.440	5.348	5.545	5.928	10.011
160	3.700	4.176	5.058	5.928	6.125	5.928	6.032	6.229	6.612	9.338
165	5.742	6.519	6.902	6.809	6.612	6.612	6.809	7.006	7.192	8.456
170	7.784	7.679	7.482	7.389	7.482	7.482	7.679	7.876	8.074	8.561
175	7.784	7.784	7.876	7.969	8.074	8.271	8.456	8.456	8.654	8.746
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	17.945	17.945	17.945	17.945	17.945	17.945	17.945	17.945	17.945	17.945
5	25.276	28.977	32.677	36.459	39.869	43.268	46.481	49.300	52.119	54.648
10	34.812	43.268	51.724	59.705	67.779	75.168	82.453	89.656	95.874	101.709
15	43.860	56.782	70.110	83.137	95.584	107.636	120.188	131.266	141.578	151.299
20	52.513	70.110	88.195	106.372	123.679	140.696	157.424	174.058	188.836	203.035
25	60.970	83.137	106.372	129.816	152.470	174.731	197.676	218.776	238.426	257.288
30	68.556	99.273	123.296	152.076	180.078	208.185	235.306	262.543	287.425	311.054
35	75.841	106.859	140.116	173.176	208.278	241.338	273.911	306.391	336.435	366.293
40	81.490	118.146	156.159	194.567	235.410	273.818	311.831	351.213	385.352	417.623
45	94.227	128.157	170.752	213.428	259.712	303.178	346.840	387.684	430.070	467.805
50	96.071	138.365	183.976	231.327	282.472	330.704	378.833	425.407	470.624	513.984
55	98.020	146.531	195.831	246.976	302.690	355.401	396.430	459.047	508.057	555.605
60	101.326	152.958	205.262	261.754	317.770	373.868	428.226	486.272	538.785	589.930
65	104.145	158.305	215.087	272.751	331.667	389.134	447.969	508.834	563.969	617.549
70	106.186	160.532	219.658	279.548	342.757	398.182	467.410	526.918	583.898	639.032
75	107.254	163.061	223.741	285.290	351.990	402.949	475.484	538.205	596.252	654.298
80	105.595	164.326	225.875	288.504	356.271	405.861	481.412	546.662	604.708	659.553
85	105.108	164.233	226.560	289.466	357.732	414.422	483.360	548.703	606.564	661.304
90	103.843	164.720	225.005	287.912	355.888	405.478	480.832	543.646	601.506	657.221
95	103.750	162.388	222.186	284.513	351.608	402.659	474.997	536.941	593.816	648.568
100	101.419	158.978	217.813	280.813	342.850	398.472	463.524	525.851	581.670	634.856
105	98.403	152.958	213.730	273.238	333.419	393.124	452.539	511.270	565.233	616.865
110	94.900	147.703	204.682	262.056	323.605	381.454	438.248	493.081	544.713	594.210
115	91.884	141.578	196.028	250.873	309.790	364.727	406.638	470.821	521.478	566.985
120	85.469	133.307	185.716	237.545	293.074	344.891	395.560	446.217	492.211	534.795
125	64.368	117.554	166.762	214.797	267.983	319.325	369.692	406.928	459.348	498.916
130	53.870	101.326	147.900	190.971	237.452	282.472	328.466	377.081	421.521	459.638
135	42.004	87.998	127.287	168.026	208.858	247.660	287.135	328.361	368.915	410.141

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CANDELA TABULATION - (Cont.)

140	33.942	67.094	107.254	144.002	180.960	214.020	247.753	282.379	316.019	350.830
145	27.910	50.077	84.402	115.710	150.916	188.442	214.994	239.784	266.626	294.721
150	25.184	42.491	64.473	93.252	120.373	152.563	185.136	207.304	225.098	243.287
155	21.390	36.459	52.212	70.690	94.714	115.710	140.511	167.632	184.939	199.624
160	17.597	29.951	42.491	55.715	67.674	82.743	101.802	118.529	135.453	148.283
165	13.514	21.878	32.376	42.004	51.539	59.902	68.359	76.525	85.179	97.428
170	10.498	14.581	20.718	27.805	34.034	40.066	44.730	50.367	55.228	58.151
175	9.141	9.918	11.472	13.421	15.846	19.059	21.785	24.406	26.158	28.200
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	17.945	17.945	17.945	17.945	17.945	17.945	17.945
5	56.782	58.928	60.390	61.550	62.327	62.721	62.814
10	107.056	111.534	115.223	118.332	120.280	121.452	121.742
15	160.045	167.446	173.756	178.814	182.120	184.069	184.556
20	215.667	226.362	235.700	242.892	247.567	250.386	251.453
25	274.201	288.596	301.136	310.961	317.573	321.656	322.828
30	332.549	350.830	366.676	379.030	386.419	392.057	393.611
35	387.092	412.473	431.149	446.414	457.110	464.104	466.343
40	447.679	475.090	497.559	516.328	529.552	537.915	540.432
45	502.222	533.728	560.373	580.986	595.962	605.775	608.501
50	553.761	587.888	617.549	640.587	657.708	668.496	672.092
55	598.780	636.214	669.378	695.142	714.293	725.870	729.663
60	636.214	676.176	711.277	739.384	759.116	771.272	775.750
65	666.258	708.366	745.114	774.393	794.704	807.151	811.722
70	689.504	732.772	769.625	799.866	821.837	834.968	839.341
75	703.888	747.840	785.181	815.225	836.905	850.721	855.094
80	709.433	754.940	792.477	822.718	844.492	858.307	862.483
85	710.894	756.401	794.322	823.298	844.782	858.690	863.458
90	707.878	750.949	788.777	817.556	838.854	852.368	856.648
95	698.158	740.741	777.792	806.664	827.289	840.211	844.596
100	683.379	724.896	760.972	789.658	809.587	822.034	826.117
105	663.636	703.888	738.990	766.899	786.352	798.498	802.198
110	639.137	677.637	710.407	737.238	756.981	768.941	772.641
115	609.568	646.132	677.254	702.531	720.812	732.575	736.078
120	573.887	607.921	638.835	662.082	678.809	690.084	693.297
125	535.085	567.762	595.277	616.378	632.130	642.536	645.447
130	493.673	522.452	547.729	567.275	581.473	590.904	593.526
135	447.192	473.152	495.900	513.694	526.246	534.505	536.941
140	385.155	420.546	440.475	456.332	467.410	474.417	476.841
145	324.185	355.111	385.642	397.602	407.032	413.064	414.804
150	265.744	289.084	315.439	340.031	348.197	353.255	354.716
155	210.030	226.954	246.013	270.999	285.580	289.466	290.731
160	158.792	165.694	179.104	195.448	219.368	224.321	225.585
165	106.372	112.021	114.446	123.494	135.453	152.656	153.433
170	60.865	63.301	62.721	60.390	65.250	75.945	87.313
175	29.557	29.951	30.438	28.582	25.764	26.158	36.760
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	20.83	N.A.	0.90
0-30	68.41	N.A.	2.80
0-40	158.57	N.A.	6.50
0-60	493.13	N.A.	20.30
0-80	995.73	N.A.	41.00
0-90	1273.11	N.A.	52.40
10-90	1270.18	N.A.	52.30
20-40	137.74	N.A.	5.70
20-50	279.16	N.A.	11.50
40-70	571.39	N.A.	23.50
60-80	502.60	N.A.	20.70
70-80	265.77	N.A.	10.90
80-90	277.38	N.A.	11.40
90-110	523.34	N.A.	21.50
90-120	740.03	N.A.	30.50
90-130	911.35	N.A.	37.50
90-150	1105.94	N.A.	45.50
90-180	1156.69	N.A.	47.60
110-180	633.36	N.A.	26.10
0-180	2429.8	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	2.93
10-20	17.90
20-30	47.58
30-40	90.16
40-50	141.42
50-60	193.13
60-70	236.84
70-80	265.77
80-90	277.38
90-100	272.02
100-110	251.31
110-120	216.69
120-130	171.32
130-140	120.81
140-150	73.78
150-160	36.93
160-170	12.22
170-180	1.60

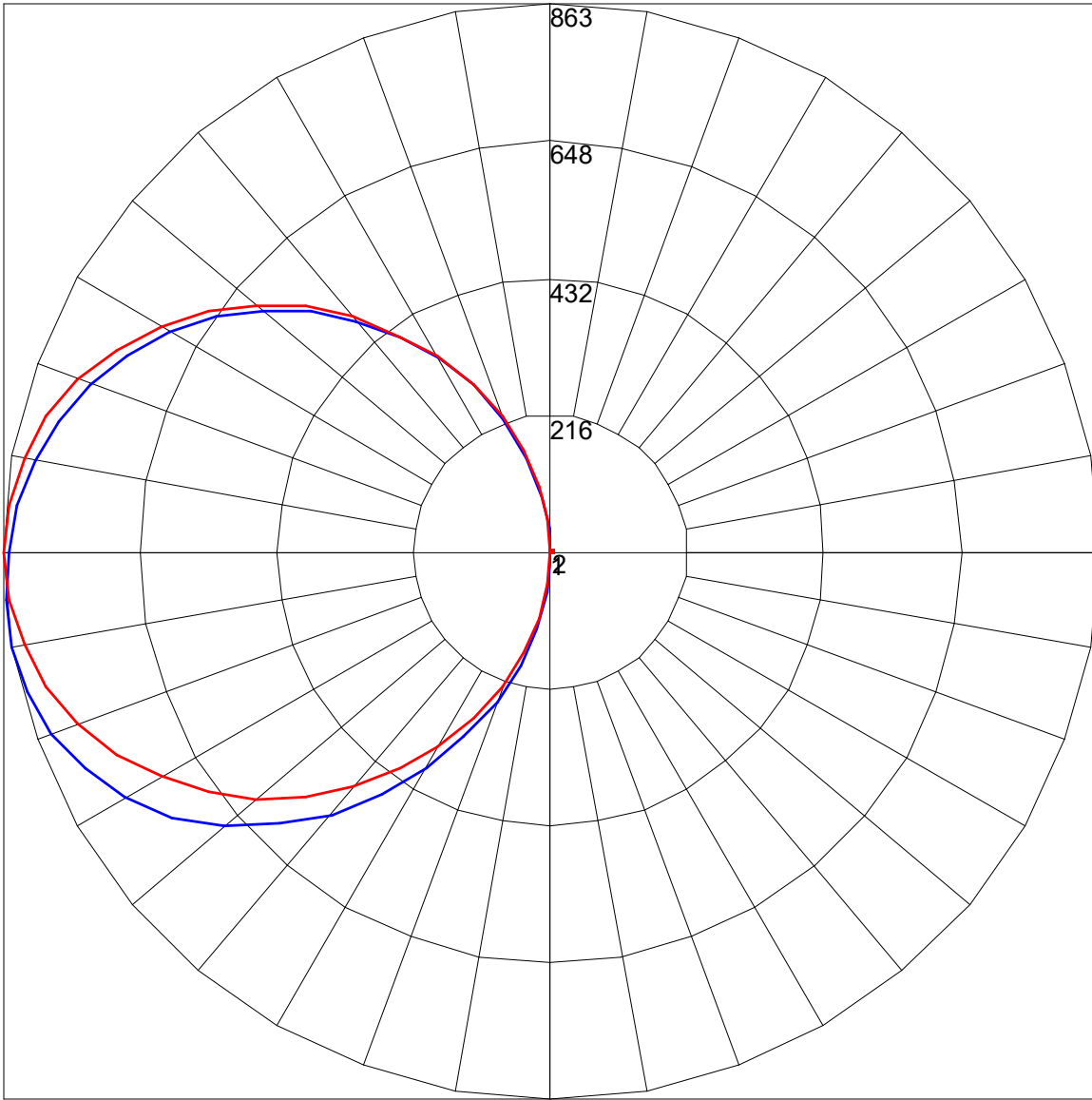
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	79	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 = 863.458 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.)