

IES Report

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

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

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	25	26	27	27
Total Lumens, 4' rail length (1219mm)	370	382	390	394
Lumens per foot (305mm)	93	95	97	98
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	95	95	95	95

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_FA_BL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L082011215 (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-FA-BL

[LUMINAIRE] ZipTwo LED, 48", 3500K, 90 CRI, zipper board,

[MORE] square 3519, single 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	390
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	26
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	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

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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	1.085	1.085	1.085	1.085	1.085	1.085	1.085	1.085	1.085	1.085
5	0.335	0.335	0.335	0.335	0.335	0.335	0.335	0.335	0.335	0.335
10	0.250	0.250	0.250	0.250	0.250	0.250	0.250	0.250	0.250	0.295
15	0.170	0.170	0.170	0.170	0.170	0.170	0.170	0.170	0.250	0.250
20	0.170	0.170	0.170	0.170	0.170	0.170	0.170	0.170	0.170	0.170
25	0.170	0.170	0.170	0.170	0.170	0.170	0.170	0.170	0.170	0.170
30	0.250	0.250	0.250	0.250	0.210	0.210	0.210	0.210	0.170	0.170
35	0.250	0.250	0.250	0.250	0.250	0.250	0.250	0.250	0.210	0.210
40	0.335	0.335	0.335	0.335	0.295	0.295	0.295	0.250	0.250	0.250
45	0.335	0.335	0.335	0.335	0.335	0.335	0.335	0.295	0.295	0.250
50	0.420	0.420	0.420	0.420	0.375	0.375	0.335	0.335	0.295	0.295
55	0.420	0.420	0.420	0.420	0.420	0.420	0.375	0.375	0.375	0.335
60	0.505	0.505	0.505	0.505	0.460	0.460	0.420	0.420	0.375	0.335
65	0.505	0.505	0.505	0.505	0.505	0.505	0.460	0.420	0.420	0.375
70	0.585	0.585	0.545	0.545	0.505	0.505	0.505	0.460	0.420	0.375
75	0.585	0.585	0.585	0.585	0.545	0.505	0.505	0.460	0.460	0.420
80	0.585	0.585	0.585	0.585	0.585	0.545	0.505	0.505	0.460	0.420
85	0.585	0.585	0.585	0.585	0.585	0.585	0.545	0.505	0.460	0.460
90	0.670	0.670	0.630	0.630	0.585	0.585	0.545	0.545	0.460	0.460
95	0.670	0.670	0.670	0.670	0.630	0.585	0.585	0.545	0.505	0.505
100	0.755	0.755	0.755	0.755	0.715	0.715	0.670	0.630	0.585	0.545
105	0.840	0.840	0.840	0.840	0.795	0.795	0.755	0.715	0.670	0.630
110	0.920	0.920	0.880	0.880	0.880	0.840	0.795	0.795	0.715	0.715
115	0.920	0.965	0.920	0.920	0.920	0.880	0.880	0.880	0.795	0.755
120	1.005	1.005	1.005	0.965	0.965	0.965	0.920	0.880	0.840	0.795
125	1.005	1.050	1.050	1.005	0.965	0.965	0.965	0.880	0.880	0.795
130	1.005	1.050	1.050	1.050	1.005	0.965	0.965	0.965	0.795	0.795
135	1.005	1.005	1.050	0.965	0.965	0.965	0.920	0.840	0.840	0.840
140	1.005	1.005	1.050	1.050	1.050	0.920	0.880	0.880	0.880	0.880
145	1.005	1.005	1.050	1.050	0.920	0.880	0.920	0.920	0.920	0.965
150	1.005	1.050	1.050	0.920	0.880	0.920	0.920	0.965	1.090	1.050
155	1.005	1.050	1.050	0.840	0.920	0.920	1.005	1.090	1.090	1.050
160	1.005	1.005	0.840	0.880	0.880	1.090	1.090	1.090	1.090	1.090
165	1.005	0.795	0.795	0.880	1.130	1.215	1.300	1.465	1.720	2.010
170	2.010	1.800	1.885	2.180	2.265	2.345	2.430	2.515	2.600	2.685
175	2.095	2.345	2.600	2.810	2.850	2.890	2.935	2.975	3.020	3.060
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	1.085	1.085	1.085	1.085	1.085	1.085	1.085	1.085	1.085	1.085
5	0.335	0.335	0.335	0.375	0.420	0.460	0.545	0.670	0.840	1.130
10	0.295	0.335	0.335	0.335	0.335	0.335	0.375	0.505	0.795	1.635
15	0.250	0.250	0.250	0.335	0.335	0.335	0.335	0.420	0.840	2.140
20	0.170	0.250	0.250	0.250	0.250	0.335	0.335	0.375	0.840	2.765
25	0.170	0.170	0.170	0.250	0.250	0.250	0.335	0.335	0.795	3.310
30	0.170	0.170	0.170	0.170	0.250	0.250	0.250	0.335	0.840	3.940
35	0.210	0.170	0.170	0.170	0.170	0.250	0.250	0.295	0.840	4.525
40	0.210	0.210	0.170	0.170	0.170	0.170	0.250	0.250	0.880	5.070
45	0.250	0.210	0.210	0.170	0.170	0.170	0.250	0.250	0.880	5.575
50	0.295	0.250	0.210	0.210	0.170	0.170	0.170	0.250	0.880	5.995
55	0.295	0.295	0.210	0.210	0.210	0.170	0.170	0.250	0.920	6.455
60	0.295	0.295	0.250	0.210	0.210	0.170	0.170	0.170	0.880	6.790

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CANDELA TABULATION - (Cont.)

65	0.335	0.295	0.295	0.210	0.210	0.170	0.170	0.170	0.920	7.125
70	0.375	0.295	0.295	0.250	0.210	0.210	0.170	0.170	0.880	7.335
75	0.375	0.335	0.295	0.295	0.210	0.210	0.170	0.170	0.880	7.545
80	0.375	0.375	0.295	0.295	0.210	0.210	0.170	0.170	0.880	7.710
85	0.375	0.375	0.295	0.295	0.210	0.210	0.170	0.170	0.840	7.710
90	0.420	0.375	0.295	0.295	0.210	0.210	0.210	0.170	0.755	7.710
95	0.460	0.420	0.375	0.295	0.295	0.250	0.210	0.170	0.460	7.840
100	0.505	0.460	0.420	0.375	0.335	0.295	0.250	0.250	0.545	7.920
105	0.585	0.545	0.460	0.420	0.375	0.335	0.250	0.250	0.630	7.670
110	0.630	0.585	0.545	0.460	0.420	0.335	0.335	0.335	0.755	6.750
115	0.715	0.630	0.545	0.505	0.505	0.420	0.420	0.460	0.920	5.995
120	0.755	0.715	0.630	0.630	0.545	0.545	0.460	0.715	1.090	5.070
125	0.755	0.715	0.670	0.670	0.630	0.630	0.585	1.005	1.300	4.610
130	0.795	0.755	0.715	0.670	0.670	0.670	0.715	1.215	1.465	3.900
135	0.840	0.795	0.795	0.715	0.715	0.755	1.005	1.385	1.595	3.645
140	0.840	0.880	0.795	0.755	0.715	0.965	1.260	1.510	1.720	3.395
145	1.005	0.880	0.795	0.755	0.920	1.385	1.465	1.675	1.845	3.145
150	1.050	0.965	0.920	1.090	1.465	1.845	1.845	1.970	2.220	3.185
155	1.050	1.005	1.300	1.675	1.970	2.095	2.220	2.345	2.555	3.355
160	1.300	1.635	1.970	2.220	2.305	2.390	2.515	2.640	2.850	3.435
165	2.180	2.390	2.515	2.600	2.600	2.685	2.810	2.935	3.060	3.435
170	2.725	2.810	2.850	2.890	2.935	3.020	3.100	3.225	3.310	3.520
175	3.060	3.060	3.100	3.185	3.270	3.310	3.435	3.480	3.520	3.565
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	1.085	1.085	1.085	1.085	1.085	1.085	1.085	1.085	1.085	1.085
5	1.510	1.930	2.390	2.850	3.355	3.770	4.190	4.610	4.990	5.325
10	2.640	3.770	4.945	6.075	7.085	8.005	8.930	9.765	10.560	11.275
15	3.900	5.740	7.420	9.010	10.605	12.115	13.620	15.045	16.305	17.520
20	5.195	7.630	9.810	12.030	14.290	16.515	18.565	20.620	22.465	24.225
25	6.455	9.390	12.240	15.170	18.190	21.040	23.805	26.530	29.045	31.390
30	7.585	11.105	14.670	18.275	22.130	25.690	29.170	32.690	35.835	38.935
35	8.550	12.865	17.140	21.460	26.070	30.430	34.745	38.980	42.960	46.730
40	9.640	14.670	19.575	24.645	30.175	35.290	40.445	45.560	50.460	54.905
45	10.690	16.180	22.005	27.830	34.115	40.150	46.060	52.095	57.925	63.205
50	11.610	17.815	24.265	30.850	38.055	44.845	51.680	58.845	65.300	71.420
55	12.575	19.280	26.490	33.780	41.745	49.455	57.085	65.175	72.465	79.505
60	13.410	20.705	28.500	36.505	45.265	53.690	62.155	71.085	79.215	87.095
65	14.085	21.960	30.305	38.935	48.365	57.460	66.640	76.365	85.290	93.885
70	14.755	23.260	31.895	41.030	51.050	60.730	70.495	80.890	90.490	99.625
75	15.465	24.140	33.155	42.750	53.230	63.370	73.640	84.200	94.555	104.195
80	15.885	24.810	34.160	44.050	54.905	65.385	75.905	86.800	97.070	107.295
85	16.135	25.275	34.830	44.890	55.955	66.600	77.330	88.350	98.785	109.055
90	16.260	25.525	35.125	45.305	56.455	67.100	77.915	88.940	99.330	109.515
95	16.345	25.565	35.165	45.305	56.415	67.100	77.745	88.645	98.955	109.055
100	16.390	25.525	34.995	45.015	55.995	66.475	76.950	87.640	97.695	107.630
105	16.305	25.315	34.580	44.345	54.990	65.175	75.440	85.835	95.560	105.115
110	16.010	24.895	33.865	43.295	53.605	63.415	73.180	83.155	92.500	101.635
115	14.755	24.225	32.860	41.870	51.425	61.065	70.370	79.800	88.600	97.195
120	12.490	22.840	31.435	40.150	49.165	57.880	66.890	75.650	83.865	91.870
125	10.940	19.445	28.290	36.295	44.845	53.440	62.535	70.915	78.460	85.750
130	9.265	15.800	24.770	32.610	40.025	47.695	55.365	63.625	71.880	79.005
135	7.795	13.790	19.785	28.290	35.250	41.830	48.660	55.660	62.535	69.910

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CANDELA TABULATION - (Cont.)

140	6.830	11.525	16.095	22.295	30.595	36.715	42.120	47.990	53.730	59.765
145	5.995	9.305	13.875	17.730	23.430	31.730	36.840	40.990	45.390	50.210
150	5.825	8.425	11.485	15.510	18.945	23.305	29.590	34.745	38.180	41.200
155	5.365	7.755	10.185	12.575	15.970	18.905	21.625	25.610	29.045	32.440
160	4.860	6.960	8.930	10.855	12.700	14.670	17.015	19.445	21.755	23.135
165	4.360	5.740	7.460	8.970	10.395	11.860	12.950	14.250	15.380	16.975
170	3.980	4.735	5.700	6.875	7.920	8.845	9.600	10.225	11.025	11.650
175	3.730	3.980	4.360	4.735	5.195	5.740	6.205	6.620	6.875	7.165
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	1.085	1.085	1.085	1.085	1.085	1.085	1.085
5	5.575	5.825	6.035	6.205	6.330	6.370	6.370
10	11.905	12.450	12.950	13.285	13.540	13.620	13.665
15	18.610	19.490	20.245	20.915	21.290	21.500	21.625
20	25.820	27.160	28.290	29.170	29.800	30.135	30.260
25	33.530	35.375	36.965	38.140	39.020	39.525	39.735
30	41.705	44.050	46.105	47.610	48.785	49.500	49.790
35	50.210	53.145	55.700	57.715	59.180	60.100	60.355
40	59.140	62.745	65.845	68.315	70.120	71.295	71.670
45	68.190	72.510	76.320	79.255	81.475	82.900	83.320
50	77.120	82.355	86.840	90.405	93.045	94.720	95.225
55	86.005	92.040	97.235	101.345	104.405	106.415	107.045
60	94.385	101.260	107.210	111.820	115.260	117.520	118.275
65	101.890	109.390	115.930	121.040	124.855	127.370	128.165
70	108.550	116.265	123.220	128.710	132.820	135.460	136.300
75	113.455	121.505	128.795	134.455	138.645	141.455	142.335
80	116.725	124.980	132.360	138.140	142.415	145.140	146.020
85	118.610	126.950	134.285	140.070	144.260	147.030	147.865
90	119.030	127.285	134.495	140.155	144.345	147.030	147.950
95	118.360	126.450	133.615	139.190	143.300	145.980	146.775
100	116.725	124.605	131.560	137.010	141.075	143.675	144.515
105	113.960	121.630	128.335	133.615	137.595	140.030	140.825
110	110.060	117.355	123.810	128.920	132.610	135.000	135.795
115	105.075	111.945	118.025	122.885	126.325	128.505	129.175
120	99.205	105.535	111.110	115.595	118.820	120.790	121.460
125	92.460	98.240	103.355	107.420	110.315	112.115	112.745
130	85.040	90.155	94.765	98.410	101.010	102.600	103.105
135	77.075	81.605	85.670	88.810	91.035	92.460	92.875
140	66.180	72.590	76.070	78.880	80.765	82.020	82.400
145	55.365	60.690	66.345	68.610	70.330	71.335	71.670
150	45.140	49.205	53.900	58.300	59.725	60.605	60.855
155	34.995	38.180	41.620	45.895	48.870	49.580	49.875
160	23.930	24.980	27.580	30.555	35.080	36.170	36.380
165	17.980	18.650	18.695	20.200	22.255	25.485	25.565
170	11.985	12.155	11.650	11.065	11.905	14.375	16.260
175	7.295	7.295	7.165	6.580	5.825	5.910	8.635
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	2.34	N.A.	0.60
0-30	8.11	N.A.	2.10
0-40	19.64	N.A.	5.00
0-60	66.41	N.A.	17.00
0-80	145.09	N.A.	37.20
0-90	190.97	N.A.	49.00
10-90	190.68	N.A.	48.90
20-40	17.30	N.A.	4.40
20-50	36.37	N.A.	9.30
40-70	82.88	N.A.	21.30
60-80	78.69	N.A.	20.20
70-80	42.58	N.A.	10.90
80-90	45.88	N.A.	11.80
90-110	88.90	N.A.	22.80
90-120	126.30	N.A.	32.40
90-130	155.94	N.A.	40.00
90-150	189.56	N.A.	48.60
90-180	198.69	N.A.	51.00
110-180	109.79	N.A.	28.20
0-180	389.66	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	0.29
10-20	2.05
20-30	5.78
30-40	11.52
40-50	19.07
50-60	27.70
60-70	36.11
70-80	42.58
80-90	45.88
90-100	45.89
100-110	43.01
110-120	37.40
120-130	29.64
130-140	20.85
140-150	12.77
150-160	6.39
160-170	2.31
170-180	0.42

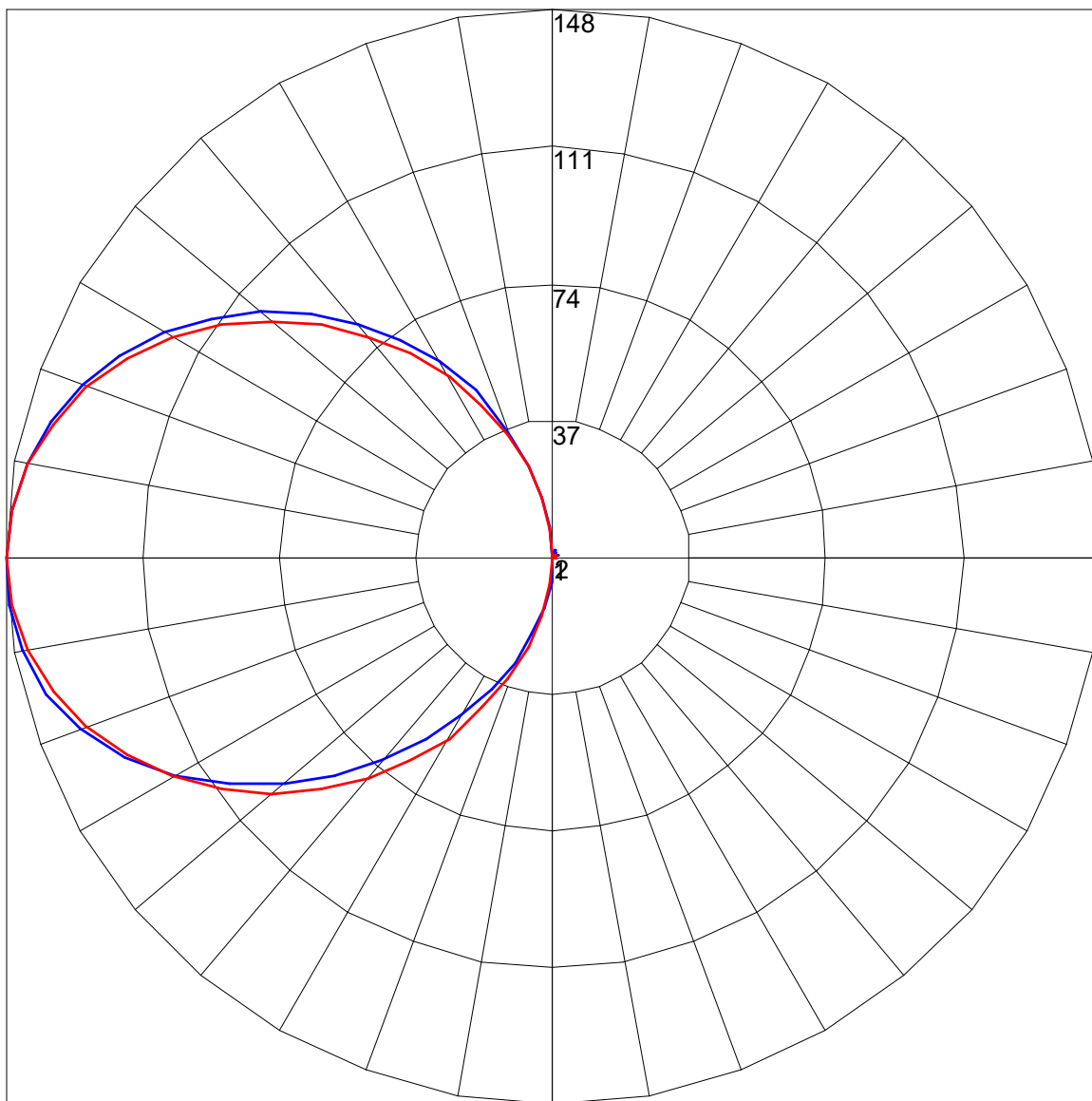
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	91	84	78	73	83	77	72	67	63	59	55	51	48	45	39	37	34	29
2	81	70	62	55	73	64	56	50	52	46	41	41	37	33	31	28	25	19
3	72	60	50	43	65	54	46	39	44	37	32	35	29	25	26	22	18	14
4	65	52	42	34	59	47	38	31	38	31	26	30	24	20	22	18	14	10
5	59	45	36	28	54	41	32	26	33	26	21	26	20	16	19	15	11	8
6	54	40	31	24	49	36	28	22	29	23	18	23	18	13	17	13	9	6
7	50	36	27	20	45	33	24	18	26	20	15	21	15	11	15	11	8	5
8	46	32	23	17	42	29	21	16	24	17	13	19	13	10	14	10	7	4
9	43	29	21	15	39	27	19	14	22	15	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 = 147.95 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.)