

IES Report

DoubleBox™ | 107 | 120° Batwing, up | 85° Asymmetric, down | 90 CRI | LO

107-DB-XX-4-48-XX-XX-XX-XX-X-X-Z-LO-359-G1A1-X-BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	57	59	60	62
Total Lumens, 4' rail length (1219mm)	1703	1756	1792	1828
Lumens per foot (305mm)	426	439	448	457
Lumens per foot UP (305mm)	302	311	317	324
Lumens per foot DOWN (305mm)	124	128	131	133
Input Power (W), 4' rail length (1219mm)	29.9	29.9	29.9	29.9
Watts per foot (305mm)	7.5	7.5	7.5	7.5
CRI	96	96	96	96

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_107_DB_LO_359_G1A1_BL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L011800109 (SOURCE REPORT FOR REFERENCE)
[TESTLAB] REPORT BASED ON DATA PRODUCED BY NVLAP ACCREDITED LAB
[ISSUEDATE] 1/12/2018
[MANUFAC] Vode Lighting
[LUMCAT] 107-DB-48-Z-LO-359-G1A1-BL
[LUMINAIRE] DoubleBox LED, 48", 3500K, 90 CRI, zipper board,
[MORE] 120° batwing lens up with white polycarbonate reflectors/85° black asymmetric lens down, low output
[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1792
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	60
Total Luminaire Watts	29.9
Ballast Factor	1.00
CIE Type	Semi-Indirect
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.08 ft
Luminous Width (90-270)	3.77 ft
Luminous Height	0.21 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3745	4186	4674
55	2195	2465	2890
65	1011	1234	1899
75	178	424	1255
85	4	15	581

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	263.395	263.395	263.395	263.395	263.395	263.395	263.395	263.395	263.395	263.395
5	332.145	331.985	331.820	329.315	327.355	324.905	321.990	318.635	314.855	310.690
10	385.040	384.590	382.525	380.080	376.885	372.960	368.340	362.340	355.825	348.810
15	415.680	414.925	412.755	410.260	406.870	401.840	396.295	390.285	383.855	376.225
20	425.395	424.415	422.825	420.640	416.625	412.515	407.960	401.955	396.120	386.345
25	418.175	416.895	415.940	413.040	410.155	406.330	402.025	398.425	389.290	379.685
30	394.925	393.855	393.035	390.795	388.370	385.450	382.350	376.730	369.635	361.055
35	360.630	359.590	358.585	357.685	355.245	352.600	349.365	343.170	337.480	328.560
40	318.195	317.615	316.445	315.175	313.890	311.855	306.955	302.090	295.720	286.670
45	269.205	269.285	268.735	268.005	266.500	264.285	260.085	255.945	248.030	240.355
50	218.140	217.945	217.950	217.535	216.185	214.655	211.740	206.535	196.820	186.765
55	167.650	167.760	168.415	168.510	165.685	166.795	164.355	160.065	154.005	147.015
60	121.235	121.435	122.225	122.650	122.695	121.970	120.095	117.495	113.195	106.600
65	79.465	80.085	81.155	82.000	82.610	82.760	82.015	80.345	77.765	74.090
70	43.680	44.455	45.770	46.800	48.365	49.360	49.725	49.465	48.425	46.975
75	13.950	15.220	17.275	17.700	19.480	21.330	22.700	23.810	25.420	24.865
80	0.915	2.320	1.920	2.400	2.900	3.455	3.985	5.400	5.945	7.600
85	0.330	0.475	0.510	0.530	0.535	0.540	0.500	0.505	0.585	0.830
90	0.460	0.500	0.500	0.500	0.455	0.455	0.455	0.455	0.455	0.455
95	12.705	20.480	21.350	22.935	24.290	25.430	26.135	29.135	27.050	24.605
100	63.355	66.375	67.880	69.310	70.125	70.390	70.320	69.580	66.550	63.025
105	114.840	117.145	118.910	119.830	120.675	121.360	120.550	117.970	114.510	107.935
110	170.805	172.695	174.290	175.090	175.975	175.295	174.270	170.745	164.325	154.270
115	229.595	230.605	231.715	232.045	231.945	231.040	227.925	222.625	215.225	202.870
120	286.725	287.000	287.695	287.535	287.030	283.960	279.690	274.710	261.885	246.400
125	339.620	339.535	339.270	338.015	336.575	331.695	326.780	316.105	303.095	286.720
130	384.210	383.845	382.815	379.980	376.690	371.205	363.060	351.760	336.150	316.750
135	419.250	418.560	416.470	412.775	407.835	401.745	390.550	379.045	360.335	341.540
140	443.750	442.470	439.400	434.690	428.725	421.320	408.995	394.405	377.230	355.995
145	456.535	454.850	451.235	445.800	438.030	428.760	417.565	401.265	384.245	364.295
150	455.540	453.785	450.345	443.535	435.220	425.320	413.980	399.480	382.685	364.325
155	440.095	438.285	435.340	428.805	420.865	411.255	400.200	388.435	373.510	358.005
160	411.945	410.905	407.660	403.435	396.490	388.570	379.535	369.025	358.025	347.300
165	376.740	376.050	373.785	371.145	367.440	361.680	355.390	348.640	341.490	333.670
170	342.775	342.320	341.135	339.780	338.090	336.075	333.745	330.275	326.660	322.880
175	318.610	318.420	318.230	317.675	317.215	316.680	316.080	315.420	314.705	313.940
180	307.500	307.500	307.500	307.500	307.500	307.500	307.500	307.500	307.500	307.500

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	263.395	263.395	263.395	263.395	263.395	263.395	263.395	263.395	263.395	263.395
5	306.165	301.320	296.190	290.810	285.230	279.480	273.600	267.665	261.690	255.280
10	341.360	333.530	325.570	314.350	303.075	291.565	279.900	268.140	256.420	243.880
15	366.375	353.840	341.000	327.945	314.750	298.000	280.990	263.975	247.200	229.045
20	374.780	362.665	350.315	332.570	315.005	297.680	275.940	254.130	232.875	210.190
25	370.615	357.480	341.750	326.650	305.985	285.130	262.875	237.510	213.240	187.750
30	350.170	338.185	324.155	305.345	287.525	264.195	242.465	214.790	188.950	162.245
35	317.900	307.170	291.765	275.150	255.700	234.270	210.945	185.405	160.135	134.715
40	276.585	264.135	249.900	234.160	214.555	194.395	173.390	151.285	128.085	105.945
45	229.300	217.800	203.805	188.635	173.035	156.315	136.845	117.140	97.860	79.665
50	182.135	171.930	159.035	145.570	132.505	117.470	101.480	85.700	71.040	58.055
55	138.410	128.680	118.355	107.220	95.955	84.205	72.505	61.185	50.195	42.305
60	99.915	92.300	84.305	75.885	67.250	58.665	50.375	42.850	38.570	29.885

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CANDELA TABULATION - (Cont.)

65	68.715	62.870	57.345	51.515	46.035	41.555	36.905	29.340	25.200	21.100
70	43.690	40.440	36.920	33.380	29.880	26.545	23.225	19.965	17.480	14.910
75	24.080	23.130	21.325	19.705	17.815	15.770	14.100	12.650	11.005	9.750
80	8.905	9.260	9.285	8.895	8.490	7.845	7.130	6.665	6.060	5.545
85	1.175	1.430	1.485	1.515	1.950	2.260	2.200	2.375	2.325	2.210
90	0.455	0.375	0.415	0.415	0.375	0.375	0.415	0.375	0.415	0.540
95	23.565	21.015	17.850	15.710	14.430	13.230	11.810	12.180	11.960	11.270
100	58.680	52.250	46.350	42.640	39.840	38.445	37.470	36.860	37.325	36.285
105	100.075	90.450	80.260	72.615	66.930	62.635	60.725	60.180	58.915	58.665
110	143.850	130.625	116.690	105.690	97.855	91.840	88.735	86.770	86.110	85.820
115	184.955	169.565	153.630	138.900	127.835	120.055	115.605	113.480	111.810	111.490
120	228.145	208.565	187.785	167.580	155.655	147.910	142.135	138.145	136.885	137.170
125	263.965	240.835	217.710	194.420	180.940	171.970	165.805	161.905	160.055	160.060
130	294.665	269.300	245.075	223.425	206.355	194.775	187.000	182.445	180.645	180.350
135	316.460	291.670	267.140	246.015	228.615	215.875	207.600	202.300	199.580	200.385
140	333.440	308.830	285.735	264.775	248.240	235.020	226.200	220.525	217.390	218.295
145	342.355	320.930	299.445	280.400	264.400	252.180	243.220	238.060	234.620	235.410
150	345.290	326.185	307.790	291.805	276.965	267.280	258.520	254.270	250.935	251.510
155	342.400	327.180	312.890	299.075	288.870	279.770	272.765	268.695	265.345	266.050
160	336.105	324.560	313.450	305.160	297.135	289.390	285.285	281.570	278.340	279.340
165	326.370	320.140	313.910	307.725	301.610	298.275	295.285	292.420	289.840	290.565
170	318.980	314.980	311.000	308.770	306.625	304.535	302.510	300.550	298.725	299.195
175	313.125	312.280	311.400	310.495	309.570	308.635	307.675	306.750	305.825	306.040
180	307.500	307.500	307.500	307.500	307.500	307.500	307.500	307.500	307.500	307.500

Vert. Angles **Horizontal Angles**

	<u>100</u>	<u>105</u>	<u>110</u>	<u>115</u>	<u>120</u>	<u>125</u>	<u>130</u>	<u>135</u>	<u>140</u>	<u>145</u>
0	263.395	263.395	263.395	263.395	263.395	263.395	263.395	263.395	263.395	263.395
5	248.930	242.705	236.620	230.730	225.085	219.725	214.690	210.020	205.745	201.905
10	231.540	219.425	207.635	196.250	185.350	176.370	167.985	160.215	153.125	146.770
15	211.280	193.860	178.040	163.090	149.665	136.885	124.830	115.380	107.905	100.900
20	188.130	167.530	148.750	131.390	114.615	102.570	91.560	81.015	71.735	66.445
25	163.125	140.940	120.540	101.505	87.825	74.460	63.835	56.425	49.430	43.515
30	136.630	114.955	93.575	78.430	63.750	53.905	45.455	38.605	34.500	30.405
35	110.875	89.950	72.270	57.935	47.315	38.735	32.755	28.105	24.645	22.400
40	85.910	67.735	54.200	42.480	34.705	28.745	24.215	21.360	18.875	17.450
45	63.910	50.110	39.690	31.955	25.795	21.890	19.070	16.755	15.585	14.435
50	46.615	36.920	29.175	24.115	20.300	17.430	15.500	14.285	13.315	12.690
55	34.165	27.440	22.400	18.630	16.185	14.505	13.280	12.385	11.810	11.350
60	24.610	20.540	17.385	15.010	13.315	12.210	11.490	10.800	10.295	9.955
65	17.965	15.435	13.525	12.100	11.020	10.260	9.640	9.115	8.900	8.740
70	13.025	11.460	10.315	9.400	8.750	8.235	7.860	7.600	7.505	7.460
75	8.770	8.045	7.260	6.830	6.590	6.320	6.120	5.920	5.860	5.875
80	5.105	4.690	4.585	4.440	4.330	4.230	4.095	4.100	4.170	4.180
85	2.180	2.120	2.255	2.310	2.120	2.005	1.905	1.830	1.835	1.835
90	0.500	0.455	0.455	0.455	0.540	0.540	0.540	0.540	0.540	0.580
95	11.890	12.680	13.745	15.430	16.575	17.865	19.720	21.425	19.965	19.725
100	37.085	37.605	39.105	41.390	45.115	48.585	53.150	56.060	56.605	57.970
105	59.975	61.270	63.250	68.060	75.365	82.795	89.510	94.910	98.735	100.600
110	86.750	89.340	92.975	99.580	109.465	120.545	130.655	139.020	145.495	145.350
115	112.890	116.225	121.825	130.785	144.015	160.130	175.615	185.610	192.420	196.050
120	138.945	142.270	148.520	158.630	173.795	194.480	214.105	228.950	240.955	249.065
125	161.910	166.120	173.350	185.225	204.235	225.365	247.270	269.730	285.580	296.555
130	182.630	187.745	196.395	211.280	230.290	252.210	276.190	298.060	317.160	332.410
135	203.105	208.305	218.380	233.035	251.470	273.725	297.120	321.415	339.845	357.700

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CANDELA TABULATION - (Cont.)

140	221.185	226.650	237.250	250.960	269.430	290.405	313.190	335.180	356.230	372.640
145	237.895	244.245	253.660	266.545	283.120	302.380	322.065	342.520	361.605	378.535
150	252.935	259.520	266.890	278.825	291.925	308.180	325.325	342.465	359.515	375.570
155	267.475	272.105	278.955	286.870	298.450	310.595	323.825	337.655	351.615	365.360
160	280.820	282.475	288.395	294.390	300.685	310.005	319.815	329.305	338.390	348.090
165	291.575	292.710	293.980	298.780	303.445	308.210	313.040	319.020	325.540	331.330
170	299.810	300.500	301.285	302.150	303.095	306.110	309.125	312.075	314.930	317.670
175	306.265	306.530	306.790	307.065	307.345	307.630	307.925	308.220	308.520	308.815
180	307.500	307.500	307.500	307.500	307.500	307.500	307.500	307.500	307.500	307.500

Vert. Horizontal Angles

	<u>150</u>	<u>155</u>	<u>160</u>	<u>165</u>	<u>170</u>	<u>175</u>	<u>180</u>
0	263.395	263.395	263.395	263.395	263.395	263.395	263.395
5	198.525	195.630	193.250	191.395	190.090	189.345	189.160
10	141.210	136.150	131.970	128.710	126.405	125.070	124.720
15	94.715	89.415	85.050	81.440	78.825	77.305	76.890
20	61.735	57.415	53.790	50.975	48.825	47.530	47.165
25	40.280	37.465	35.035	33.025	31.590	30.655	30.390
30	27.460	25.775	24.300	23.065	22.150	21.575	21.425
35	20.210	19.130	18.285	17.570	17.020	16.695	16.610
40	16.280	15.350	14.865	14.445	14.130	13.930	13.865
45	13.815	13.165	12.860	12.640	12.465	12.315	12.290
50	12.230	11.925	11.650	11.490	11.385	11.295	11.295
55	11.095	10.860	10.720	10.625	10.520	10.455	10.465
60	9.765	9.660	9.675	9.710	9.775	9.750	9.800
65	8.645	8.615	8.590	8.650	8.710	8.915	8.970
70	7.560	7.605	7.595	7.550	7.380	7.535	7.725
75	5.950	6.110	6.310	6.440	6.350	5.990	6.475
80	4.305	4.400	4.555	4.695	4.850	4.635	4.900
85	1.880	1.940	1.975	2.080	2.190	2.315	2.160
90	0.580	0.580	0.580	0.580	0.540	0.540	0.480
95	18.730	18.335	18.160	18.405	18.940	20.395	18.350
100	57.615	58.240	59.105	60.030	60.800	59.925	71.825
105	101.400	103.115	105.090	106.755	106.545	107.085	121.400
110	150.225	152.965	153.355	152.305	154.600	167.815	173.380
115	199.685	201.605	203.280	207.420	216.540	226.985	227.355
120	252.620	257.005	262.745	270.240	276.775	278.565	279.170
125	308.560	313.140	319.775	322.935	324.840	326.260	327.330
130	344.220	352.630	358.585	362.300	365.265	367.680	368.600
135	369.705	381.340	387.945	393.145	397.365	400.405	401.150
140	387.165	399.860	407.150	413.280	418.395	422.145	423.485
145	395.010	406.155	415.255	423.025	428.805	432.700	434.365
150	389.880	401.325	411.170	419.330	425.935	429.370	431.125
155	376.260	386.625	395.715	403.150	409.225	412.055	413.770
160	357.325	365.215	372.215	378.445	382.380	384.955	386.535
165	336.765	341.795	346.375	349.430	351.670	353.305	354.320
170	320.310	322.045	323.565	324.865	325.930	326.755	327.330
175	309.105	309.395	309.670	309.935	310.190	310.425	310.640
180	307.500	307.500	307.500	307.500	307.500	307.500	307.500

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	93.95	N.A.	5.20
0-30	194.14	N.A.	10.80
0-40	303.81	N.A.	17.00
0-60	466.98	N.A.	26.10
0-80	520.21	N.A.	29.00
0-90	522.64	N.A.	29.20
10-90	497.93	N.A.	27.80
20-40	209.86	N.A.	11.70
20-50	305.43	N.A.	17.00
40-70	201.69	N.A.	11.30
60-80	53.22	N.A.	3.00
70-80	14.71	N.A.	0.80
80-90	2.43	N.A.	0.10
90-110	123.08	N.A.	6.90
90-120	298.67	N.A.	16.70
90-130	528.43	N.A.	29.50
90-150	986.54	N.A.	55.00
90-180	1269.47	N.A.	70.80
110-180	1146.39	N.A.	64.00
0-180	1792.11	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	24.71
10-20	69.24
20-30	100.19
30-40	109.67
40-50	95.57
50-60	67.60
60-70	38.51
70-80	14.71
80-90	2.43
90-100	24.92
100-110	98.16
110-120	175.59
120-130	229.75
130-140	242.46
140-150	215.66
150-160	159.95
160-170	93.12
170-180	29.86

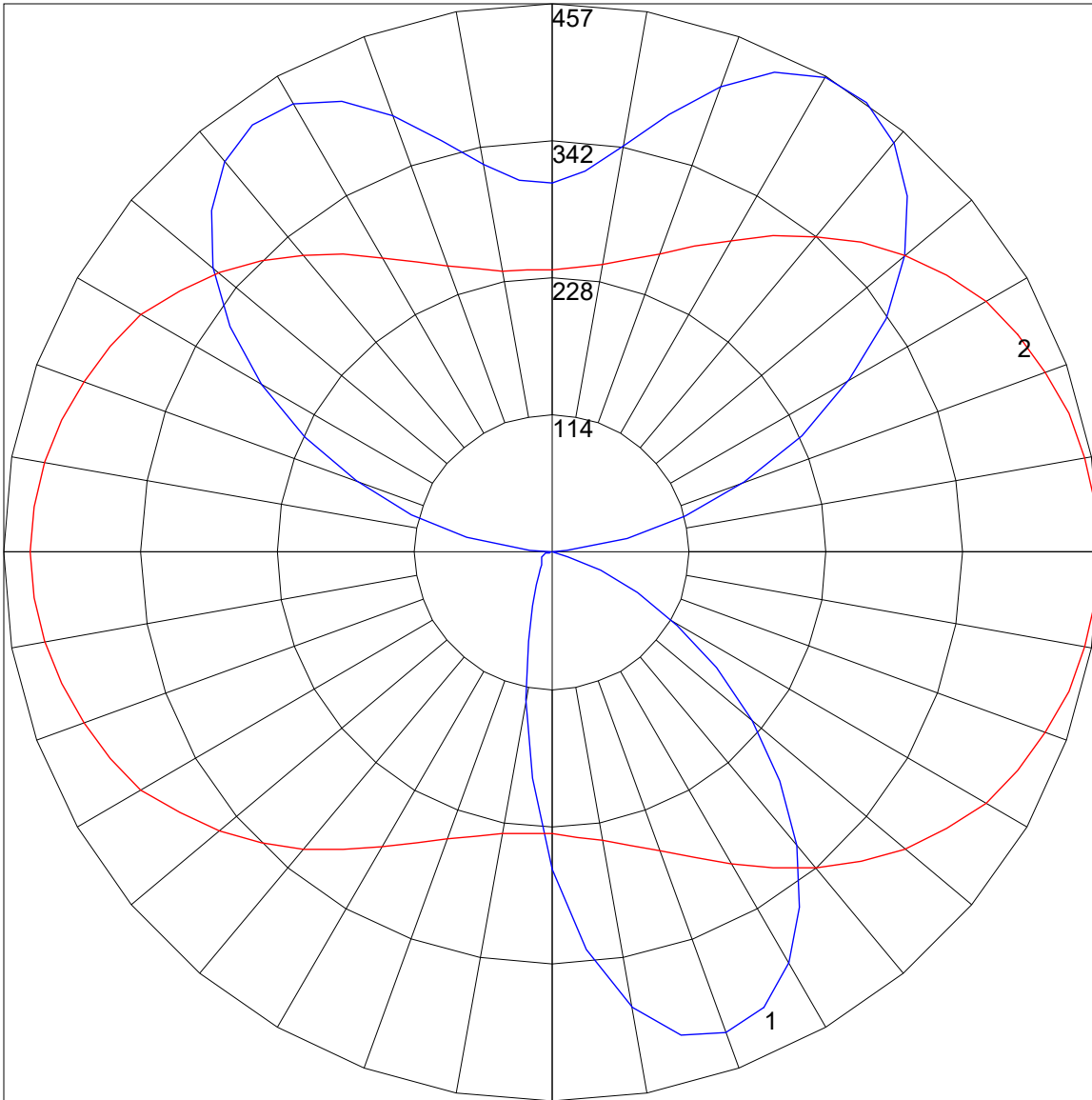
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	102	102	102	102	92	92	92	92	72	72	72	54	54	54	37	37	37	29
1	94	90	86	83	84	81	78	75	64	62	60	48	47	46	33	33	32	26
2	86	79	73	68	77	71	66	62	56	53	50	43	41	39	30	29	28	22
3	78	70	63	57	70	63	57	52	50	46	43	38	35	33	27	25	24	19
4	72	62	54	49	64	56	50	45	45	40	37	34	31	29	24	23	21	17
5	66	55	48	42	59	50	43	39	40	35	32	31	28	25	22	20	19	15
6	61	49	42	36	54	45	38	34	36	31	28	28	25	22	20	18	17	13
7	56	45	37	32	50	41	34	29	33	28	25	25	22	20	19	16	15	12
8	52	40	33	28	47	37	30	26	30	25	22	23	20	18	17	15	13	11
9	48	37	30	25	44	34	27	23	27	23	19	21	18	16	16	14	12	10
10	45	34	27	22	41	31	25	21	25	21	18	20	17	14	15	13	11	9

POLAR GRAPH



Maximum Candela = 456.535 Located At Horizontal Angle = 0, Vertical Angle = 145
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (145) (Through Max. Cd.)