



8165 E. Kaiser Blvd. Anaheim, CA 92808  
www.lightlaboratory.com

# Photometric Test Report

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : L101707801.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] L101707801  
[TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)  
[ISSUEDATE] 10/30/2017  
[MANUFAC] Bartco Lighting  
[LUMCAT] ADL210  
[LUMINAIRE] Linear Knife Edge Cove LED  
[BALLASTCAT] PHILIPS ADVANCE XI040C110V054BST1  
[OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND  
[MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.  
[INPUT] 120VAC, 29.04W  
[TEST PROCEDURE] IESNA:LM-79-08

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2805
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	97
Total Luminaire Watts	29.04
Ballast Factor	1.00
CIE Type	Indirect
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.29 ft
Luminous Width (90-270)	3.69 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>
<b>0.0</b>	0	0	0	0	0	0	0	0	0	0
<b>5.0</b>	0	0	0	0	0	0	0	0	0	0
<b>10.0</b>	0	0	0	0	0	0	0	0	0	0
<b>15.0</b>	0	0	0	0	0	0	0	0	0	0
<b>20.0</b>	0	0	0	0	0	0	0	0	0	0
<b>25.0</b>	0	0	0	0	0	0	0	0	0	0
<b>30.0</b>	0	0	0	0	0	0	0	0	0	0
<b>35.0</b>	0	0	0	0	0	0	0	0	0	0
<b>40.0</b>	0	0	0	0	0	0	0	0	0	0
<b>45.0</b>	0	0	0	0	0	0	0	0	0	0
<b>50.0</b>	0	0	0	0	0	0	0	0	0	0
<b>55.0</b>	0	0	0	0	0	0	0	0	0	0
<b>60.0</b>	0	0	0	0	0	0	0	0	0	0
<b>65.0</b>	0	0	0	0	0	0	0	0	0	0
<b>70.0</b>	0	0	0	0	0	0	0	0	0	0
<b>75.0</b>	0	0	0	0	0	0	0	0	0	0
<b>80.0</b>	0	0	0	0	0	0	0	0	0	0
<b>85.0</b>	0	0	0	0	0	0	0	0	0	0
<b>90.0</b>	30	30	30	30	29	28	27	27	25	24
<b>92.5</b>	64	65	64	64	63	62	60	59	57	55
<b>95.0</b>	98	99	98	97	96	95	92	90	88	85
<b>97.5</b>	149	149	149	148	146	144	142	139	135	131
<b>100.0</b>	199	199	199	198	196	193	190	187	182	178
<b>102.5</b>	259	260	259	257	255	252	249	244	239	233
<b>105.0</b>	327	327	327	324	322	319	314	310	303	296
<b>107.5</b>	402	402	401	399	396	392	387	381	374	366
<b>110.0</b>	486	487	485	482	479	474	469	462	453	442
<b>112.5</b>	578	579	576	573	569	563	556	548	537	524
<b>115.0</b>	675	676	672	668	663	656	648	638	624	609
<b>117.5</b>	793	793	788	784	776	768	759	746	732	713
<b>120.0</b>	884	884	879	874	865	855	843	825	807	786
<b>122.5</b>	970	969	962	955	945	935	922	906	885	857
<b>125.0</b>	1053	1051	1046	1039	1029	1020	1002	978	951	919
<b>127.5</b>	1133	1130	1122	1112	1098	1082	1061	1037	1008	974
<b>130.0</b>	1186	1183	1173	1164	1151	1134	1112	1085	1053	1016
<b>132.5</b>	1230	1226	1218	1207	1193	1173	1150	1122	1088	1049
<b>135.0</b>	1260	1257	1248	1237	1221	1201	1176	1146	1110	1070
<b>137.5</b>	1275	1272	1263	1252	1236	1214	1189	1158	1122	1082
<b>140.0</b>	1282	1279	1271	1260	1243	1223	1196	1165	1129	1090
<b>142.5</b>	1280	1279	1270	1259	1243	1221	1195	1165	1130	1093
<b>145.0</b>	1272	1273	1261	1251	1235	1214	1189	1161	1128	1094
<b>147.5</b>	1262	1262	1250	1241	1226	1206	1183	1157	1125	1092
<b>150.0</b>	1251	1250	1239	1231	1217	1198	1176	1152	1122	1089
<b>152.5</b>	1230	1228	1221	1212	1199	1182	1162	1139	1111	1080
<b>155.0</b>	1208	1206	1201	1191	1180	1165	1147	1125	1099	1071
<b>157.5</b>	1182	1180	1175	1166	1156	1142	1125	1106	1081	1055
<b>160.0</b>	1155	1153	1149	1141	1131	1119	1104	1086	1063	1039
<b>162.5</b>	1120	1119	1116	1109	1099	1089	1076	1060	1041	1020
<b>165.0</b>	1085	1083	1083	1076	1067	1058	1047	1034	1018	1000
<b>167.5</b>	1047	1047	1045	1040	1032	1025	1016	1005	991	976
<b>170.0</b>	1009	1010	1007	1003	997	991	984	975	964	952
<b>172.5</b>	967	967	966	963	958	954	949	942	934	925
<b>175.0</b>	925	925	925	922	919	917	914	910	904	899
<b>177.5</b>	878	878	879	877	876	874	873	871	868	865

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**CANDELA TABULATION - (Cont.)**

	832	832	832	832	832	832	832	832	832	832
<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<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>
0.0	0	0	0	0	0	0	0	0	0	0
5.0	0	0	0	0	0	0	0	0	0	0
10.0	0	0	0	0	0	0	0	0	0	0
15.0	0	0	0	0	0	0	0	0	0	0
20.0	0	0	0	0	0	0	0	0	0	0
25.0	0	0	0	0	0	0	0	0	0	0
30.0	0	0	0	0	0	0	0	0	0	0
35.0	0	0	0	0	0	0	0	0	0	0
40.0	0	0	0	0	0	0	0	0	0	0
45.0	0	0	0	0	0	0	0	0	0	0
50.0	0	0	0	0	0	0	0	0	0	0
55.0	0	0	0	0	0	0	0	0	0	0
60.0	0	0	0	0	0	0	0	0	0	0
65.0	0	0	0	0	0	0	0	0	0	0
70.0	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0	0	0	0
85.0	0	0	0	0	0	0	0	0	0	0
90.0	23	22	20	19	18	16	14	12	11	9
92.5	52	50	47	45	42	39	35	31	29	25
95.0	82	78	74	70	65	61	55	50	46	40
97.5	127	122	116	110	103	95	87	79	72	65
100.0	172	166	158	150	140	129	119	108	98	90
102.5	227	214	208	197	185	170	155	141	128	116
105.0	288	277	265	251	234	208	196	177	159	144
107.5	355	342	328	310	288	265	240	208	193	174
110.0	429	414	396	374	347	317	286	257	221	205
112.5	509	490	468	440	409	372	335	298	266	238
115.0	592	570	542	509	470	427	383	341	304	273
117.5	688	660	626	586	540	490	440	392	349	313
120.0	760	725	685	641	591	537	483	431	385	345
122.5	823	786	743	693	639	582	524	470	420	379
125.0	883	842	795	741	684	624	564	509	457	413
127.5	934	890	838	783	725	663	602	545	492	447
130.0	975	926	873	817	758	696	636	579	525	479
132.5	1005	955	903	847	788	726	666	610	556	510
135.0	1026	977	925	871	812	752	693	638	586	539
137.5	1038	991	940	886	828	770	713	659	608	562
140.0	1048	1004	954	902	846	789	735	684	634	589
142.5	1054	1011	964	914	860	807	755	707	658	615
145.0	1058	1015	971	922	873	822	774	727	681	639
147.5	1057	1016	972	926	878	830	783	739	695	654
150.0	1055	1016	974	929	883	838	794	751	708	669
152.5	1047	1011	972	931	889	847	806	766	726	689
155.0	1040	1005	970	933	894	856	818	782	745	710
157.5	1027	997	965	931	896	861	827	793	760	728
160.0	1014	988	959	929	897	866	836	806	776	746
162.5	998	975	949	923	895	868	841	814	788	761
165.0	982	961	939	916	893	869	846	823	800	777
167.5	961	944	926	907	887	867	847	828	808	789
170.0	940	926	912	897	880	864	849	833	817	802

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**CANDELA TABULATION - (Cont.)**

<b>172.5</b>	916	906	895	883	870	858	846	834	823	811
<b>175.0</b>	892	886	878	870	860	852	843	836	828	820
<b>177.5</b>	862	859	855	851	846	842	837	834	830	826
<b>180.0</b>	832	832	832	832	832	832	832	832	832	832

**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>
<b>0.0</b>	0	0	0	0	0	0	0	0	0	0
<b>5.0</b>	0	0	0	0	0	0	0	0	0	0
<b>10.0</b>	0	0	0	0	0	0	0	0	0	0
<b>15.0</b>	0	0	0	0	0	0	0	0	0	0
<b>20.0</b>	0	0	0	0	0	0	0	0	0	0
<b>25.0</b>	0	0	0	0	0	0	0	0	0	0
<b>30.0</b>	0	0	0	0	0	0	0	0	0	0
<b>35.0</b>	0	0	0	0	0	0	0	0	0	0
<b>40.0</b>	0	0	0	0	0	0	0	0	0	0
<b>45.0</b>	0	0	0	0	0	0	0	0	0	0
<b>50.0</b>	0	0	0	0	0	0	0	0	0	0
<b>55.0</b>	0	0	0	0	0	0	0	0	0	0
<b>60.0</b>	0	0	0	0	0	0	0	0	0	0
<b>65.0</b>	0	0	0	0	0	0	0	0	0	0
<b>70.0</b>	0	0	0	0	0	0	0	0	0	0
<b>75.0</b>	0	0	0	0	0	0	0	0	0	0
<b>80.0</b>	0	0	0	0	0	0	0	0	0	0
<b>85.0</b>	0	0	0	0	0	0	0	0	0	0
<b>90.0</b>	9	8	8	8	8	8	8	8	8	8
<b>92.5</b>	21	19	14	13	12	10	9	9	8	8
<b>95.0</b>	33	30	20	17	14	12	9	9	8	8
<b>97.5</b>	57	49	39	34	29	25	22	19	18	16
<b>100.0</b>	80	69	58	50	43	38	33	29	28	24
<b>102.5</b>	104	92	80	70	62	54	49	44	40	37
<b>105.0</b>	131	117	103	91	81	73	66	60	56	51
<b>107.5</b>	158	142	127	113	101	92	84	77	72	67
<b>110.0</b>	186	168	152	136	123	112	103	96	89	84
<b>112.5</b>	208	195	177	161	146	133	123	114	107	101
<b>115.0</b>	247	217	204	186	170	156	144	134	127	120
<b>117.5</b>	285	261	238	211	200	184	171	160	150	143
<b>120.0</b>	316	290	266	243	218	207	193	181	171	162
<b>122.5</b>	347	320	295	272	251	233	213	204	193	183
<b>125.0</b>	380	353	326	302	280	261	243	230	214	207
<b>127.5</b>	413	385	358	334	310	289	271	257	244	233
<b>130.0</b>	444	416	389	365	341	319	300	284	271	260
<b>132.5</b>	474	445	420	396	372	350	330	313	299	287
<b>135.0</b>	503	474	450	427	404	382	361	343	328	315
<b>137.5</b>	525	497	472	451	429	407	386	368	352	339
<b>140.0</b>	553	524	500	479	459	438	418	400	384	370
<b>142.5</b>	579	550	527	507	488	469	449	432	416	402
<b>145.0</b>	604	576	552	533	515	498	481	464	448	435
<b>147.5</b>	619	591	568	549	532	516	499	484	469	456
<b>150.0</b>	635	607	584	565	549	534	519	504	490	477
<b>152.5</b>	657	630	607	589	573	559	545	532	520	508
<b>155.0</b>	680	653	631	612	597	584	572	560	550	539
<b>157.5</b>	700	675	653	635	620	607	595	585	575	566
<b>160.0</b>	721	697	676	658	643	630	619	609	602	593
<b>162.5</b>	738	717	697	680	666	653	643	633	625	617

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**CANDELA TABULATION - (Cont.)**

165.0	757	737	719	703	689	677	667	657	649	642
167.5	772	755	739	725	713	701	692	683	675	668
170.0	787	773	760	748	737	726	717	709	702	695
172.5	800	789	778	769	761	752	745	738	732	727
175.0	812	804	797	790	784	778	772	767	762	758
177.5	822	818	815	811	809	805	803	800	798	795
180.0	832	832	832	832	832	832	832	832	832	832

**Vert. Horizontal Angles  
Angles**

	<u>150</u>	<u>155</u>	<u>160</u>	<u>165</u>	<u>170</u>	<u>175</u>	<u>180</u>
0.0	0	0	0	0	0	0	0
5.0	0	0	0	0	0	0	0
10.0	0	0	0	0	0	0	0
15.0	0	0	0	0	0	0	0
20.0	0	0	0	0	0	0	0
25.0	0	0	0	0	0	0	0
30.0	0	0	0	0	0	0	0
35.0	0	0	0	0	0	0	0
40.0	0	0	0	0	0	0	0
45.0	0	0	0	0	0	0	0
50.0	0	0	0	0	0	0	0
55.0	0	0	0	0	0	0	0
60.0	0	0	0	0	0	0	0
65.0	0	0	0	0	0	0	0
70.0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0
80.0	0	0	0	0	0	0	0
85.0	0	0	0	0	0	0	0
90.0	8	8	8	8	7	7	7
92.5	8	8	8	8	7	7	7
95.0	8	8	8	8	7	7	7
97.5	15	14	13	13	12	12	12
100.0	21	20	18	17	16	16	16
102.5	34	32	30	29	28	27	27
105.0	48	46	44	42	41	40	40
107.5	63	60	58	56	55	54	53
110.0	79	76	73	71	70	69	68
112.5	97	92	89	87	85	84	84
115.0	114	110	106	104	102	101	100
117.5	137	132	128	125	123	122	121
120.0	156	150	146	142	140	139	138
122.5	176	170	165	162	159	158	157
125.0	199	192	186	183	180	179	178
127.5	224	214	210	206	202	201	200
130.0	250	242	235	230	227	226	224
132.5	277	269	262	256	253	252	250
135.0	305	296	289	284	280	279	277
137.5	328	319	312	306	302	301	299
140.0	358	349	341	335	331	329	328
142.5	390	380	372	366	361	359	358
145.0	422	413	404	398	393	391	390
147.5	444	434	426	419	414	412	411
150.0	466	456	448	441	436	434	433
152.5	498	489	481	475	470	468	467
155.0	530	522	515	509	505	503	502

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**CANDELA TABULATION - (Cont.)**

<b>157.5</b>	558	551	545	540	536	535	534
<b>160.0</b>	587	581	576	572	568	567	566
<b>162.5</b>	611	606	602	598	595	594	593
<b>165.0</b>	636	632	628	625	622	621	621
<b>167.5</b>	663	658	654	651	649	648	648
<b>170.0</b>	690	685	681	678	676	675	675
<b>172.5</b>	722	718	715	712	710	709	709
<b>175.0</b>	754	750	748	745	743	743	742
<b>177.5</b>	793	791	790	789	788	788	787
<b>180.0</b>	832	832	832	832	832	832	832

**IES INDOOR REPORT**  
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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	0.00	N.A.	0.00
0-30	0.00	N.A.	0.00
0-40	0.00	N.A.	0.00
0-60	0.00	N.A.	0.00
0-80	0.00	N.A.	0.00
0-90	4.26	N.A.	0.20
10-90	4.26	N.A.	0.20
20-40	0.00	N.A.	0.00
20-50	0.00	N.A.	0.00
40-70	0.00	N.A.	0.00
60-80	0.00	N.A.	0.00
70-80	0.00	N.A.	0.00
80-90	4.26	N.A.	0.20
90-110	246.29	N.A.	8.80
90-120	606.71	N.A.	21.60
90-130	1103.27	N.A.	39.30
90-150	2115.36	N.A.	75.40
90-180	2801.07	N.A.	99.80
110-180	2554.78	N.A.	91.10
0-180	2805.32	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	0.00
10-20	0.00
20-30	0.00
30-40	0.00
40-50	0.00
50-60	0.00
60-70	0.00
70-80	0.00
80-90	4.26
90-100	58.48
100-110	187.80
110-120	360.43
120-130	496.56
130-140	532.76
140-150	479.33
150-160	372.21
160-170	234.16
170-180	79.33

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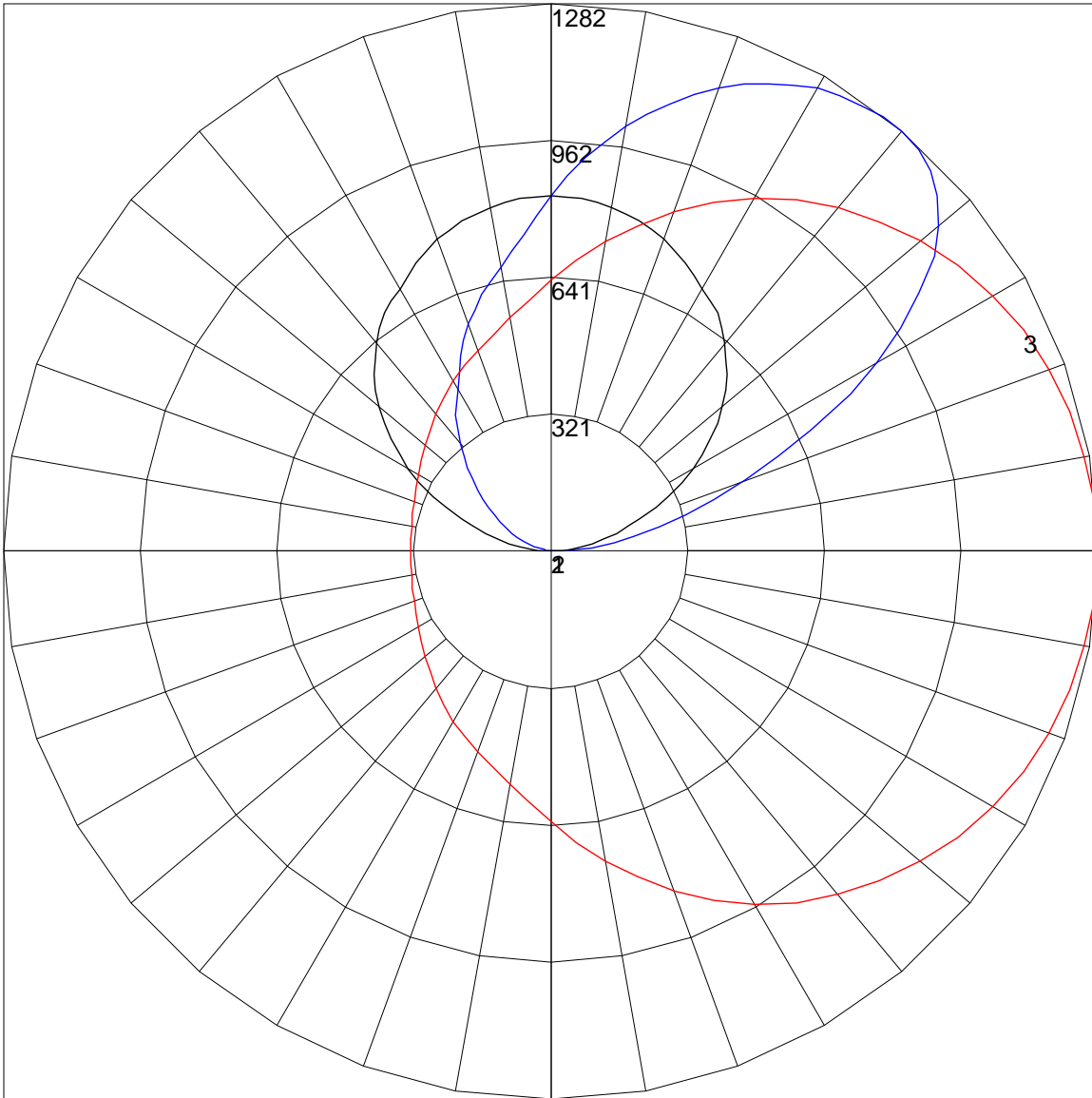
**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10	0
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8	0
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7	0
3	72	63	56	51	61	54	49	44	37	34	31	21	20	18	7	6	6	0
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5	0
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4	0
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4	0
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3	0
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3	0
9	43	32	25	20	37	27	22	18	19	15	13	11	9	8	4	3	3	0
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2	0



POLAR GRAPH



Maximum Candela = 1282 Located At Horizontal Angle = 0, Vertical Angle = 140

# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)

# 2 - Vertical Plane Through Horizontal Angles (90 - 270)

# 3 - Horizontal Cone Through Vertical Angle (140) (Through Max. Cd.)