



# The Perfect Lighting Choice.™

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## IES INDOOR REPORT PHOTOMETRIC FILENAME : CLD 4 LIGHT.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] 18097-C  
[TESTLAB] LightLab International ([www.LightLabInternational.com](http://www.LightLabInternational.com))  
[MANUFAC] Justice Design Group, Los Angeles, CA 90071  
[LUMCAT] Clouds Resin (CLD) 4-Light Bath Bar  
[LUMINAIRE] Justice Design Group - Wall mount bathroom luminaire. Product ID: CLD 4-Light  
[MORE] Steel formed housing and four frosted resin lenses with white interior.  
[MORE] 40 LEDs mounted in four circular arrays with white plastic dome lenses.  
[MORE] No driver.  
[MORE] Operating at 120 VAC and 60 Hz.  
[MORE] Simulated data from test of one and six lamp fixtures.  
[ISSUE DATE] April 18, 2018

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2061
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	69
Total Luminaire Watts	29.99
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.56
Spacing Criterion (90-270)	1.74
Spacing Criterion (Diagonal)	1.54
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.08 m
Luminous Width (90-270)	0.66 m
Luminous Height	0.14 m

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2757	3139	6922
55	2325	2483	5003
65	2079	2158	4267
75	1930	1959	4463
85	1858	1863	5379

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**CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>
<b>0.0</b>	322.921	322.921	322.921	322.921	322.921	322.921	322.921	322.921	322.921
<b>0.5</b>	319.794	320.725	321.953	322.102	323.144	324.447	325.452	325.526	325.563
<b>1.0</b>	320.613	321.692	322.214	322.437	323.553	325.638	327.238	327.871	328.355
<b>1.5</b>	323.181	323.814	323.814	323.256	324.633	327.350	329.695	331.184	331.779
<b>2.0</b>	326.047	326.308	326.122	324.521	325.898	329.211	332.561	334.868	335.613
<b>2.5</b>	329.546	329.769	328.801	326.419	327.499	331.444	335.799	338.925	339.781
<b>3.0</b>	333.715	333.007	331.779	328.653	329.136	333.752	339.446	342.945	344.099
<b>3.5</b>	337.920	336.915	335.092	330.923	331.035	336.134	342.833	347.151	348.975
<b>4.0</b>	342.275	341.233	338.181	333.454	332.933	338.925	346.593	351.431	353.218
<b>4.5</b>	346.667	345.141	341.754	335.836	334.980	341.717	350.240	355.898	357.982
<b>5.0</b>	350.798	349.607	345.215	338.404	336.915	344.471	353.664	359.992	362.486
<b>5.5</b>	354.967	353.516	348.677	341.270	339.037	347.225	357.424	364.533	366.952
<b>6.0</b>	359.769	357.833	352.213	344.024	341.159	350.203	361.369	369.036	372.163
<b>6.5</b>	364.086	362.002	356.009	346.704	343.131	353.032	365.054	373.391	376.294
<b>7.0</b>	368.404	366.021	359.582	349.570	345.402	355.898	368.999	377.932	381.058
<b>7.5</b>	372.684	370.525	363.230	352.399	347.635	358.875	372.944	382.361	385.674
<b>8.0</b>	376.741	374.657	366.989	355.116	349.868	361.816	376.666	386.679	390.103
<b>8.5</b>	380.909	378.937	370.600	357.982	351.915	364.793	380.574	390.996	394.532
<b>9.0</b>	385.599	382.919	374.284	360.848	354.297	367.734	384.594	395.165	398.961
<b>9.5</b>	389.991	387.051	378.044	363.639	356.716	370.748	388.056	399.222	403.390
<b>10.0</b>	394.197	391.368	381.617	366.543	358.801	373.540	391.778	403.725	407.745
<b>10.5</b>	398.366	395.909	385.376	369.557	361.034	376.555	395.649	407.857	412.137
<b>11.0</b>	403.130	399.817	388.986	372.423	363.267	379.532	399.222	411.988	416.492
<b>11.5</b>	407.596	403.986	392.522	375.550	365.538	382.510	402.981	415.971	420.549
<b>12.0</b>	411.728	408.266	396.281	378.416	367.808	385.488	406.628	420.251	424.755
<b>12.5</b>	415.115	412.100	400.189	381.207	370.004	388.577	410.202	423.973	428.886
<b>13.0</b>	417.497	415.859	403.651	384.110	372.126	391.443	413.812	428.067	432.571
<b>13.5</b>	418.986	418.837	407.485	386.939	374.433	394.458	417.311	431.826	435.660
<b>14.0</b>	419.469	420.735	410.909	389.545	376.666	397.249	420.735	435.251	437.707
<b>14.5</b>	420.623	422.298	414.519	392.485	378.639	400.115	424.122	438.042	438.824
<b>15.0</b>	421.479	423.303	417.906	395.314	381.096	402.944	427.695	440.052	439.308
<b>15.5</b>	422.335	424.085	421.144	398.180	383.329	405.624	430.933	440.834	439.159
<b>16.0</b>	422.633	425.090	423.899	401.008	385.227	408.489	434.171	441.318	438.935
<b>16.5</b>	423.005	425.201	426.392	403.651	387.274	411.244	437.484	441.243	438.414
<b>17.0</b>	423.043	425.462	428.551	406.331	389.693	413.812	440.424	440.871	437.633
<b>17.5</b>	423.526	426.020	430.263	409.122	391.629	416.380	442.955	440.461	437.335
<b>18.0</b>	423.266	425.946	431.343	411.690	393.676	419.134	445.226	439.754	436.330
<b>18.5</b>	423.526	425.908	432.273	414.296	395.835	421.628	446.640	439.084	435.325
<b>19.0</b>	423.452	426.095	432.682	416.901	397.919	424.271	447.422	438.340	434.357
<b>19.5</b>	422.894	425.536	432.980	419.544	400.003	426.690	447.719	437.521	433.241
<b>20.0</b>	422.186	425.387	433.092	421.889	401.976	429.333	447.570	436.404	432.348
<b>20.5</b>	421.591	425.052	433.055	424.494	404.172	431.715	447.161	435.437	431.045
<b>21.0</b>	420.214	424.122	432.906	426.839	406.182	434.209	446.566	434.320	429.817
<b>21.5</b>	419.469	423.191	432.608	429.295	408.266	436.665	445.784	432.943	428.588
<b>22.0</b>	418.725	422.484	432.124	431.529	410.350	438.898	444.965	431.678	426.988
<b>22.5</b>	417.497	421.256	431.640	433.650	412.472	441.280	444.146	430.114	425.090
<b>23.0</b>	416.306	419.804	431.119	435.511	414.445	443.365	442.992	428.477	423.526
<b>23.5</b>	414.594	418.092	430.077	436.814	416.194	445.561	441.690	426.913	421.405
<b>24.0</b>	412.956	416.306	429.147	437.931	418.278	447.608	440.424	424.792	419.246
<b>24.5</b>	411.542	414.854	428.067	438.898	420.102	449.618	439.010	422.447	417.311
<b>25.0</b>	409.829	412.881	426.578	439.680	421.963	451.367	437.409	420.474	415.115
<b>25.5</b>	407.931	411.020	425.164	440.275	423.824	452.707	435.883	418.092	412.621
<b>26.0</b>	405.847	408.899	423.415	440.424	425.425	453.898	433.874	415.524	410.239
<b>26.5</b>	403.874	406.703	421.591	440.871	427.137	454.642	432.050	413.068	407.410

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**CANDELA TABULATION - (Cont.)**

27.0	401.157	404.284	419.544	440.722	428.700	454.977	430.003	410.202	404.730
27.5	399.296	402.237	417.422	440.424	430.226	455.052	427.583	407.559	401.976
28.0	396.542	399.743	414.929	439.717	431.640	454.754	425.164	404.619	398.998
28.5	393.899	396.840	412.398	438.935	433.241	453.861	422.521	401.604	395.797
29.0	391.368	394.085	409.904	437.521	434.804	452.707	419.655	398.366	392.597
29.5	388.577	391.480	407.075	436.070	436.218	451.144	416.752	395.128	389.321
30.0	385.785	388.614	404.060	434.283	437.372	449.171	413.626	391.815	385.711
30.5	382.287	385.636	400.971	432.087	438.861	447.049	410.127	388.242	381.952
31.0	379.532	382.882	397.733	430.152	440.015	444.667	406.740	384.594	378.416
31.5	376.555	379.718	394.606	427.844	441.318	442.062	403.167	381.021	374.433
32.0	373.019	376.406	391.480	425.164	442.583	439.047	399.519	377.262	370.711
32.5	369.818	373.279	387.795	422.559	443.327	435.735	395.686	373.242	366.319
33.0	366.356	369.781	384.371	419.469	444.258	432.124	391.964	369.148	362.262
33.5	362.374	366.580	380.909	416.194	444.965	428.588	388.093	364.942	357.424
34.0	359.136	362.895	377.076	413.105	444.742	424.345	383.924	360.885	353.329
34.5	355.674	359.322	373.503	409.271	444.183	420.288	379.867	356.568	348.826
35.0	351.580	355.563	369.632	405.437	442.322	416.045	375.438	352.176	344.024
35.5	347.933	352.101	365.910	401.492	439.792	411.653	371.269	347.746	339.298
36.0	344.062	348.044	361.890	397.361	436.516	407.001	366.915	342.945	334.794
36.5	339.967	344.248	358.131	392.894	432.645	402.572	362.486	338.553	329.844
37.0	336.357	340.451	354.111	388.316	427.769	397.584	357.945	333.938	325.117
37.5	332.486	336.469	349.868	383.664	421.665	392.708	353.329	329.025	320.092
38.0	328.392	332.375	345.997	379.011	414.929	387.795	348.789	324.186	315.142
38.5	324.447	328.318	341.754	374.024	407.931	382.622	343.838	319.087	310.340
39.0	320.464	324.447	337.697	369.074	400.711	377.671	339.149	314.248	305.465
39.5	316.668	320.278	333.491	363.937	393.490	372.461	334.273	309.149	300.328
40.0	313.392	316.296	329.174	358.838	386.232	367.324	329.471	304.162	295.527
40.5	309.596	312.239	324.856	353.813	379.346	362.039	324.372	299.137	290.539
41.0	305.762	308.330	320.650	348.528	372.461	356.865	319.422	294.112	285.738
41.5	302.896	304.497	316.147	343.615	365.798	351.580	314.286	289.013	281.123
42.0	299.770	300.663	311.755	338.441	359.620	346.295	309.224	284.026	276.470
42.5	297.164	296.867	307.251	333.231	353.255	340.898	303.939	279.113	272.004
43.0	294.931	293.331	302.859	328.094	347.263	335.613	298.653	274.311	267.351
43.5	292.996	290.279	298.318	322.697	341.642	330.067	293.480	269.696	263.480
44.0	291.395	287.190	293.926	317.412	336.022	324.484	287.971	264.820	259.721
44.5	289.013	284.807	289.497	312.425	330.588	319.013	282.649	260.540	256.185
45.0	287.041	282.500	284.956	306.804	325.154	313.206	277.252	256.409	253.319
45.5	285.180	280.304	280.788	301.631	320.092	307.698	272.153	252.649	250.491
46.0	283.133	278.480	276.433	296.346	314.732	301.817	266.867	249.151	247.811
46.5	280.974	276.396	272.190	291.060	309.708	295.936	261.619	246.099	244.982
47.0	278.778	274.200	268.245	285.477	304.311	290.093	256.185	243.270	242.116
47.5	276.842	272.264	264.150	280.118	298.839	284.063	251.235	240.441	239.250
48.0	274.870	270.292	260.652	274.758	293.368	278.071	246.285	237.761	236.273
48.5	272.711	268.021	257.227	269.101	287.711	271.892	241.334	234.933	233.779
49.0	270.962	266.011	254.287	263.815	281.941	266.011	236.794	232.216	231.099
49.5	268.952	263.927	251.272	258.232	276.024	259.870	232.402	229.424	228.307
50.0	266.979	261.954	248.630	252.835	269.994	254.026	228.531	226.856	225.814
50.5	265.006	259.833	245.913	247.662	263.666	247.960	224.883	224.064	223.208
51.0	263.220	257.935	243.605	242.600	257.339	241.856	221.571	221.533	220.454
51.5	261.582	255.776	241.521	236.943	250.974	235.938	218.630	218.816	218.109
52.0	259.423	254.026	239.660	231.992	244.238	230.057	215.839	216.472	215.690
52.5	257.935	252.091	237.575	227.005	237.352	224.250	213.457	213.903	213.233
53.0	256.074	250.081	235.603	221.868	230.838	218.519	210.777	211.261	210.814
53.5	254.510	248.257	233.555	217.439	224.102	213.084	208.283	209.325	208.358
54.0	252.910	246.620	231.657	212.861	217.514	207.688	205.901	206.645	206.162
54.5	250.788	244.684	229.647	208.693	211.261	202.737	203.482	204.375	204.152

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**CANDELA TABULATION - (Cont.)**

55.0	249.113	243.195	227.712	204.933	204.896	197.713	201.100	201.993	201.770
55.5	247.997	241.521	225.739	201.807	198.904	193.023	198.718	199.834	199.797
56.0	246.471	239.808	223.916	198.606	192.874	189.078	196.335	197.638	197.564
56.5	244.945	238.096	221.868	196.038	187.254	185.318	194.028	195.517	195.405
57.0	243.642	236.719	220.045	193.283	182.006	182.452	191.869	193.321	193.395
57.5	242.079	234.858	218.221	190.678	176.795	180.182	189.636	191.199	191.385
58.0	240.851	233.369	216.285	188.780	171.956	178.321	187.254	189.189	189.338
58.5	239.138	231.992	214.648	187.328	167.713	176.348	185.132	187.105	187.179
59.0	237.985	230.429	212.936	185.579	164.103	174.525	183.048	184.983	185.281
59.5	236.533	228.940	211.149	184.053	161.125	172.738	180.815	183.160	183.569
60.0	234.970	227.563	209.511	182.452	158.892	170.877	178.879	181.150	181.410
60.5	233.593	226.149	207.911	180.815	157.031	168.904	176.795	179.065	179.735
61.0	232.364	224.697	206.236	179.103	155.505	166.969	174.673	177.242	177.577
61.5	231.360	223.432	204.338	177.577	154.128	165.145	172.812	175.306	175.976
62.0	229.871	221.943	202.923	175.678	152.825	163.359	170.765	173.445	173.929
62.5	228.494	220.528	201.323	174.152	151.299	161.423	168.942	171.621	171.994
63.0	227.303	219.151	199.648	172.477	149.848	159.562	167.081	169.537	170.393
63.5	225.739	217.774	198.159	170.840	148.359	157.701	165.182	167.937	168.420
64.0	224.511	216.583	196.782	169.277	146.833	156.026	163.210	166.150	166.746
64.5	223.618	215.243	195.144	167.527	145.270	154.128	161.498	164.438	164.922
65.0	222.352	213.903	193.916	165.964	143.781	152.416	159.674	162.577	163.210
65.5	220.938	212.601	192.241	164.475	142.218	150.443	157.664	161.051	161.460
66.0	219.710	211.447	190.901	162.837	140.692	148.768	155.989	159.264	159.785
66.5	218.630	210.032	189.413	161.125	139.203	147.056	154.128	157.515	158.222
67.0	217.476	208.953	187.961	159.860	137.416	145.195	152.230	155.766	156.473
67.5	216.099	207.650	186.472	158.297	136.039	143.371	150.704	154.128	154.761
68.0	214.908	206.310	185.169	156.510	134.588	141.920	149.029	152.416	153.235
68.5	213.866	205.082	183.830	155.133	132.950	139.984	147.280	150.927	151.783
69.0	212.787	204.003	182.378	153.607	131.349	138.496	145.754	149.252	149.848
69.5	211.596	202.737	181.075	151.969	129.861	136.895	144.041	147.652	148.359
70.0	210.554	201.658	179.624	150.629	128.260	135.071	142.515	146.088	146.945
70.5	209.176	200.392	178.172	149.178	126.697	133.471	140.878	144.600	145.009
71.0	207.985	199.201	177.130	147.503	125.171	131.870	139.240	142.888	143.706
71.5	207.055	198.271	175.827	146.200	123.682	130.270	137.640	141.436	142.180
72.0	205.975	197.043	174.450	144.674	122.230	128.558	136.151	139.836	140.692
72.5	204.971	195.889	173.296	143.111	120.704	127.069	134.588	138.421	139.128
73.0	203.742	194.772	172.031	141.883	119.216	125.469	133.136	136.821	137.677
73.5	202.588	193.730	170.728	140.357	117.727	123.868	131.535	135.444	136.151
74.0	201.807	192.502	169.537	138.868	116.312	122.342	130.121	133.955	134.774
74.5	200.951	191.348	168.197	137.640	114.712	120.779	128.632	132.503	133.248
75.0	199.723	190.418	167.043	136.337	113.409	119.402	127.255	131.163	131.722
75.5	198.494	189.264	166.001	134.848	111.995	117.987	125.766	129.563	130.344
76.0	197.489	188.222	164.847	133.583	110.469	116.387	124.278	128.186	128.856
76.5	196.298	187.179	163.545	132.317	109.017	115.084	122.863	126.771	127.553
77.0	195.107	186.063	162.614	130.977	107.752	113.670	121.374	125.469	126.213
77.5	194.512	185.169	161.386	129.600	106.263	112.107	120.034	123.980	124.985
78.0	193.395	184.053	160.083	128.409	105.035	110.841	118.695	122.603	123.496
78.5	192.130	182.936	159.153	126.920	103.583	109.464	117.355	121.263	122.193
79.0	191.460	181.894	158.036	125.841	102.243	107.975	115.940	119.960	120.593
79.5	190.157	180.889	156.771	124.724	100.903	106.598	114.600	118.546	119.365
80.0	189.561	179.847	155.840	123.273	99.638	105.258	113.260	117.243	118.062
80.5	188.482	178.954	154.649	122.156	98.447	103.955	111.846	116.052	116.908
81.0	187.403	177.986	153.570	120.965	97.144	102.616	110.729	114.675	115.382
81.5	186.696	176.832	152.602	119.774	96.065	101.499	109.464	113.447	114.154
82.0	185.467	175.864	151.448	118.732	94.837	100.159	108.050	112.330	113.000
82.5	184.648	175.083	150.294	117.652	93.571	98.782	106.859	111.064	111.772

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**CANDELA TABULATION - (Cont.)**

<b>83.0</b>	183.420	173.929	149.401	116.424	92.343	97.665	105.668	109.799	110.469
<b>83.5</b>	182.527	173.110	148.396	115.308	91.226	96.511	104.402	108.496	109.166
<b>84.0</b>	181.745	172.217	147.280	114.377	90.072	95.246	103.285	107.417	107.938
<b>84.5</b>	180.778	171.138	146.461	113.186	88.993	94.055	102.020	106.077	106.673
<b>85.0</b>	179.996	170.170	145.493	112.218	87.988	92.864	100.941	104.998	105.779
<b>85.5</b>	179.140	169.277	144.414	111.213	86.797	91.598	99.898	103.807	104.477
<b>86.0</b>	178.247	168.346	143.483	110.134	85.829	90.593	98.559	102.392	103.546
<b>86.5</b>	177.316	167.602	142.739	109.203	84.750	89.440	97.442	101.350	102.020
<b>87.0</b>	176.311	166.671	141.659	108.496	83.782	88.360	96.437	100.382	100.978
<b>87.5</b>	175.492	165.703	140.878	107.380	83.038	87.355	95.320	99.154	100.010
<b>88.0</b>	174.711	165.145	140.096	106.673	81.921	86.350	94.353	98.149	98.782
<b>88.5</b>	173.855	164.289	139.240	105.891	81.251	85.345	93.311	97.144	97.702
<b>89.0</b>	173.706	163.805	138.607	105.035	80.470	84.638	92.306	95.990	96.474
<b>89.5</b>	173.780	163.768	138.607	104.960	79.911	83.894	91.375	95.060	95.544
<b>90.0</b>	173.445	163.991	138.868	105.109	80.209	83.708	91.003	94.502	94.911
<b>90.5</b>	174.003	164.215	138.905	105.221	80.209	83.782	90.780	94.204	94.725
<b>91.0</b>	174.487	164.364	139.128	105.444	80.135	83.782	90.593	94.055	94.539
<b>91.5</b>	174.636	164.810	139.314	105.668	80.395	83.819	90.556	93.980	94.204
<b>92.0</b>	174.934	164.773	139.687	105.593	80.432	83.819	90.370	93.683	94.092
<b>92.5</b>	175.157	165.071	139.836	105.891	80.656	83.708	90.221	93.385	93.832
<b>93.0</b>	175.455	165.331	139.836	106.151	80.581	83.484	90.221	93.273	93.683
<b>93.5</b>	175.902	165.517	140.357	106.263	80.953	83.522	90.221	93.124	93.422
<b>94.0</b>	176.088	165.890	140.505	106.561	80.879	83.447	89.886	92.976	93.124
<b>94.5</b>	176.348	166.001	140.729	106.635	81.065	83.261	89.998	92.715	92.678
<b>95.0</b>	176.907	166.262	140.878	106.821	81.065	83.261	89.737	92.194	92.417
<b>95.5</b>	176.832	166.671	141.064	107.045	81.177	83.224	89.551	92.045	92.306
<b>96.0</b>	177.279	166.857	141.324	107.194	81.251	83.149	89.365	91.859	91.822
<b>96.5</b>	177.502	167.043	141.771	107.305	81.475	83.038	89.142	91.450	91.598
<b>97.0</b>	177.763	167.304	141.697	107.566	81.437	82.963	89.030	91.189	91.115
<b>97.5</b>	177.949	167.527	141.920	107.864	81.475	82.777	88.919	91.115	90.928
<b>98.0</b>	178.358	167.564	142.180	107.826	81.772	82.852	88.584	90.742	90.631
<b>98.5</b>	178.395	167.899	142.366	108.161	81.810	82.628	88.472	90.482	90.258
<b>99.0</b>	178.619	168.123	142.366	108.459	81.921	82.405	88.397	90.184	89.961
<b>99.5</b>	178.879	168.197	142.627	108.347	81.996	82.405	87.988	89.886	89.440
<b>100.0</b>	178.954	168.383	142.739	108.571	82.182	82.256	87.914	89.626	89.216
<b>100.5</b>	179.252	168.420	142.776	108.757	82.219	82.145	87.802	89.254	88.844
<b>101.0</b>	179.214	168.532	142.925	108.980	82.405	81.996	87.579	88.844	88.472
<b>101.5</b>	179.624	168.607	143.074	109.055	82.480	81.735	87.318	88.621	87.951
<b>102.0</b>	179.475	168.718	143.036	109.241	82.777	81.661	87.058	88.211	87.802
<b>102.5</b>	179.586	168.718	143.074	109.278	82.777	81.549	86.723	87.839	87.430
<b>103.0</b>	179.624	168.830	143.148	109.427	83.001	81.251	86.425	87.541	87.095
<b>103.5</b>	179.624	168.867	143.074	109.650	82.926	81.140	86.202	87.318	86.425
<b>104.0</b>	179.921	168.904	142.925	109.427	83.001	80.953	85.867	86.946	86.276
<b>104.5</b>	179.996	169.053	142.962	109.650	83.075	80.730	85.420	86.499	85.680
<b>105.0</b>	179.661	169.090	142.888	109.762	83.298	80.507	85.010	86.239	85.271
<b>105.5</b>	179.847	168.867	142.850	109.538	83.373	80.321	84.601	85.755	84.787
<b>106.0</b>	179.996	168.904	142.962	109.613	83.261	80.172	84.192	85.234	84.489
<b>106.5</b>	179.921	168.979	142.888	109.613	83.373	79.986	83.819	84.862	84.006
<b>107.0</b>	180.033	168.979	142.776	109.576	83.261	79.837	83.373	84.303	83.633
<b>107.5</b>	179.921	168.867	142.739	109.538	83.261	79.614	83.001	83.857	83.001
<b>108.0</b>	179.921	168.830	142.664	109.725	83.373	79.167	82.591	83.112	82.368
<b>108.5</b>	179.996	168.793	142.739	109.538	83.224	79.092	82.219	82.666	81.698
<b>109.0</b>	179.661	168.755	142.553	109.538	83.298	78.683	81.810	82.033	81.288
<b>109.5</b>	179.773	168.495	142.366	109.390	83.112	78.571	81.400	81.549	80.358
<b>110.0</b>	179.586	168.532	142.255	109.390	83.224	78.385	80.991	80.805	80.060
<b>110.5</b>	179.624	168.234	142.255	109.352	83.075	78.162	80.470	80.432	79.130

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**CANDELA TABULATION - (Cont.)**

111.0	179.400	168.272	142.106	109.464	83.112	77.939	80.135	79.800	78.460
111.5	179.289	168.160	142.106	109.315	82.926	77.753	79.539	79.279	78.125
112.0	178.842	168.086	141.957	109.278	82.889	77.380	79.167	78.609	77.306
112.5	178.954	167.937	141.659	109.166	82.963	77.269	78.832	78.088	76.562
113.0	178.879	167.713	141.659	109.055	82.926	76.934	78.423	77.529	75.892
113.5	178.656	167.527	141.473	108.906	82.814	76.785	77.827	76.748	75.370
114.0	178.358	167.416	141.213	108.906	82.777	76.599	77.455	76.338	74.775
114.5	178.433	167.192	141.101	108.720	82.740	76.227	77.083	75.482	74.031
115.0	177.986	166.932	140.766	108.571	82.554	76.003	76.301	74.663	73.175
115.5	177.837	166.969	140.617	108.459	82.591	75.705	76.115	73.919	72.505
116.0	177.465	166.448	140.319	108.199	82.293	75.668	75.482	72.914	71.723
116.5	177.502	166.299	140.133	108.161	82.405	75.222	74.849	72.132	70.941
117.0	177.018	166.038	139.836	107.975	82.219	75.073	74.589	71.425	69.601
117.5	176.609	165.666	139.724	107.789	82.033	74.812	74.179	70.420	68.894
118.0	176.386	165.406	139.277	107.491	81.884	74.477	73.584	69.676	67.703
118.5	176.051	165.257	139.054	107.342	81.661	74.217	73.063	68.857	66.847
119.0	175.604	164.773	138.793	107.268	81.549	73.993	72.765	68.001	65.805
119.5	175.232	164.550	138.533	107.082	81.549	73.770	72.095	67.033	64.688
120.0	174.897	164.326	138.310	106.784	81.288	73.509	71.797	66.028	63.683
120.5	174.636	163.731	138.012	106.412	81.102	73.137	71.239	65.135	62.716
121.0	174.264	163.470	137.565	106.412	80.805	72.877	70.644	64.316	61.711
121.5	173.594	163.210	137.193	106.226	80.805	72.505	70.383	63.497	60.669
122.0	173.296	162.651	136.932	105.779	80.693	72.207	69.862	62.567	59.589
122.5	172.775	162.279	136.672	105.519	80.395	72.095	69.378	61.785	58.696
123.0	172.366	161.944	136.188	105.407	80.209	71.648	68.969	60.929	57.691
123.5	171.808	161.237	135.779	104.923	80.060	71.425	68.559	60.185	56.463
124.0	171.733	160.716	135.518	104.774	79.986	71.202	67.889	59.291	55.644
124.5	170.803	160.344	135.109	104.514	79.688	70.830	67.554	58.547	54.751
125.0	170.170	159.748	134.736	104.216	79.427	70.755	67.219	57.728	53.820
125.5	169.537	159.264	134.178	103.807	79.241	70.420	66.810	57.021	53.113
126.0	168.793	158.594	133.769	103.583	79.167	70.271	66.549	56.388	52.331
126.5	168.495	157.962	133.285	103.211	78.981	70.085	66.065	55.644	51.550
127.0	167.378	157.478	132.875	103.025	78.869	69.899	65.507	55.048	50.768
127.5	166.634	156.733	132.317	102.690	78.720	69.601	65.209	54.527	50.173
128.0	166.113	156.063	131.833	102.281	78.460	69.527	64.874	53.708	49.503
128.5	165.294	155.319	131.312	102.057	78.460	69.453	64.391	53.038	48.870
129.0	164.475	154.910	130.866	101.648	78.125	69.118	64.018	52.294	48.237
129.5	163.917	154.091	130.233	101.387	77.976	68.894	63.758	51.661	47.828
130.0	162.837	153.570	129.712	100.866	77.827	68.485	63.088	51.066	47.232
130.5	162.205	152.825	129.116	100.606	77.827	68.373	62.827	50.508	46.451
131.0	161.460	152.081	128.558	100.382	77.455	68.150	62.455	49.986	46.116
131.5	160.828	151.448	128.074	99.898	77.306	68.001	62.009	49.279	45.781
132.0	159.748	150.704	127.367	99.787	77.194	67.852	61.636	48.758	45.148
132.5	158.781	149.736	126.846	99.229	76.971	67.629	61.376	48.200	44.590
133.0	158.111	149.029	126.250	98.782	76.636	67.405	60.929	47.716	44.478
133.5	157.106	148.284	125.617	98.484	76.599	67.219	60.594	47.344	43.920
134.0	156.287	147.391	125.022	98.037	76.264	67.145	60.185	46.823	43.733
134.5	155.505	146.572	124.389	97.554	76.227	66.922	59.924	46.264	43.250
135.0	154.575	145.791	123.608	97.107	75.929	66.624	59.552	45.929	42.877
135.5	153.681	144.786	123.124	96.735	75.705	66.661	59.180	45.520	42.505
136.0	152.676	144.265	122.379	96.288	75.445	66.252	58.733	44.850	42.021
136.5	151.746	143.409	121.747	95.990	75.259	66.065	58.324	44.552	41.538
137.0	150.704	142.404	121.077	95.432	75.073	65.842	58.175	44.106	41.016
137.5	149.662	141.548	120.407	95.023	74.701	65.656	57.617	43.585	40.830
138.0	148.545	140.654	119.700	94.650	74.626	65.321	57.430	43.361	40.719
138.5	147.689	139.687	119.104	94.167	74.403	65.321	57.282	42.989	40.235

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**CANDELA TABULATION - (Cont.)**

139.0	146.572	138.905	118.322	93.608	73.993	65.209	56.760	42.468	39.937
139.5	145.605	137.900	117.578	93.162	73.807	64.949	56.500	42.170	39.565
140.0	144.860	137.007	116.573	92.789	73.696	64.874	56.239	41.761	39.193
140.5	143.818	135.927	116.052	92.082	73.249	64.539	55.756	41.463	38.858
141.0	142.776	135.220	115.233	91.822	73.100	64.279	55.607	40.942	38.411
141.5	141.883	134.029	114.563	91.226	72.802	64.242	55.234	40.570	38.039
142.0	140.803	133.136	113.707	90.631	72.430	64.018	54.937	40.123	37.592
142.5	139.501	132.205	113.000	90.184	72.207	63.758	54.751	39.937	37.146
143.0	138.458	131.126	112.181	89.589	71.946	63.683	54.490	39.342	37.034
143.5	137.342	130.047	111.288	88.993	71.648	63.348	54.043	39.007	36.699
144.0	136.300	129.042	110.506	88.546	71.239	63.088	53.969	38.709	36.476
144.5	135.183	128.000	109.725	88.063	70.979	63.162	53.895	38.485	36.215
145.0	133.992	127.106	109.017	87.318	70.644	62.865	53.485	38.002	36.029
145.5	132.913	126.064	108.199	86.909	70.420	62.604	53.225	37.816	35.992
146.0	131.684	124.948	107.305	86.350	70.048	62.306	53.113	37.555	36.215
146.5	130.605	123.794	106.375	85.755	69.639	62.195	52.778	36.997	36.178
147.0	129.526	122.789	105.668	85.159	69.266	61.971	52.815	36.736	36.066
147.5	128.409	121.523	104.812	84.564	69.155	61.785	52.480	36.513	36.178
148.0	127.069	120.481	103.881	84.006	68.671	61.525	52.257	36.215	36.252
148.5	125.804	119.476	103.099	83.373	68.485	61.301	52.071	35.880	36.327
149.0	124.464	118.471	102.169	82.852	68.038	61.152	51.996	35.545	36.513
149.5	123.533	117.317	101.276	82.107	67.629	61.041	51.773	35.396	36.699
150.0	122.268	116.052	100.382	81.586	67.182	60.669	51.587	35.136	36.662
150.5	121.039	115.084	99.452	80.991	66.959	60.594	51.475	34.987	36.885
151.0	119.848	113.744	98.633	80.246	66.549	60.296	51.252	34.950	37.146
151.5	118.769	112.665	97.777	79.725	66.177	60.148	51.066	34.652	36.997
152.0	117.206	111.660	96.772	79.204	65.842	59.850	50.917	34.317	36.922
152.5	115.940	110.357	95.953	78.423	65.396	59.701	50.619	34.280	37.071
153.0	114.973	109.129	94.837	77.641	65.098	59.515	50.656	34.131	37.034
153.5	113.484	108.050	94.055	77.045	64.651	59.217	50.582	34.094	37.183
154.0	112.218	106.859	93.050	76.450	64.279	58.956	50.284	34.019	37.071
154.5	110.841	105.593	92.008	75.705	63.944	58.696	50.284	34.019	36.997
155.0	109.464	104.290	91.115	74.998	63.609	58.398	50.061	33.982	36.997
155.5	108.236	103.025	90.184	74.254	63.162	58.175	49.763	34.056	37.220
156.0	107.045	101.908	89.179	73.733	62.716	58.026	49.763	34.094	37.220
156.5	105.407	100.680	88.100	72.914	62.455	57.691	49.763	33.945	37.443
157.0	104.402	99.526	87.244	72.132	61.860	57.468	49.540	33.647	37.369
157.5	102.951	98.261	86.164	71.425	61.376	57.095	49.465	33.498	37.183
158.0	101.648	96.884	85.308	70.830	61.041	56.909	49.428	33.237	37.183
158.5	100.494	95.804	84.415	70.011	60.482	56.612	49.242	32.754	37.146
159.0	99.042	94.613	83.261	69.266	60.036	56.202	49.168	32.567	37.183
159.5	97.702	93.273	82.293	68.634	59.589	56.091	49.093	32.121	37.220
160.0	96.325	91.933	81.251	67.703	59.105	55.681	48.833	32.084	37.183
160.5	95.097	90.705	80.284	66.996	58.696	55.532	48.609	31.898	37.146
161.0	93.646	89.365	79.167	66.326	58.287	55.160	48.386	31.823	37.443
161.5	92.082	88.100	78.236	65.358	57.728	54.862	48.051	31.376	37.592
162.0	90.631	86.834	76.971	64.539	57.282	54.490	47.716	31.079	37.778
162.5	89.254	85.532	76.003	63.907	57.021	54.230	47.195	30.744	37.778
163.0	87.876	84.154	74.961	63.051	56.314	53.857	46.041	30.520	37.853
163.5	86.388	82.926	73.807	62.306	56.016	53.485	44.813	29.962	38.076
164.0	85.159	81.549	72.802	61.599	55.569	53.373	43.287	29.032	37.964
164.5	83.633	80.135	71.723	60.594	55.011	52.927	41.389	28.213	37.257
165.0	82.182	78.720	70.644	59.813	54.490	52.220	39.639	27.803	36.141
165.5	80.619	77.455	69.527	58.919	54.006	51.401	37.778	27.617	34.652
166.0	79.279	76.078	68.373	58.212	53.373	50.098	35.545	27.468	32.940
166.5	77.678	74.626	67.070	57.430	52.666	48.312	33.684	27.096	30.520

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**CANDELA TABULATION - (Cont.)**

167.0	76.040	73.249	66.028	56.686	51.550	46.413	32.195	26.910	27.654
167.5	74.589	71.872	64.949	55.756	49.949	44.143	30.706	26.128	25.161
168.0	72.914	70.234	63.460	55.048	47.716	41.686	29.776	25.607	22.183
168.5	71.388	68.783	62.343	54.155	45.743	39.379	29.180	24.975	19.429
169.0	69.825	67.443	61.301	52.815	43.064	36.922	28.511	23.746	16.153
169.5	68.187	66.028	59.924	51.177	40.681	34.540	28.250	22.406	12.655
170.0	66.475	64.502	58.547	48.982	38.002	32.716	27.729	20.471	9.417
170.5	64.837	62.567	57.095	46.711	35.731	31.525	26.984	18.089	6.811
171.0	63.162	60.780	54.974	44.329	33.833	30.334	26.389	16.005	4.169
171.5	61.636	59.254	53.150	41.835	32.530	29.664	25.347	14.218	2.754
172.0	59.850	57.542	51.364	39.453	31.376	29.180	23.560	12.096	2.457
172.5	58.324	55.197	48.870	37.704	30.372	28.324	21.476	10.012	2.419
173.0	55.644	53.076	46.488	36.066	29.515	27.357	19.354	8.002	2.308
173.5	52.443	50.656	43.808	34.131	28.436	25.384	16.563	6.774	1.973
174.0	50.731	47.530	40.719	32.567	27.543	22.518	13.697	6.253	1.712
174.5	47.939	44.515	37.927	30.781	25.868	19.652	10.943	5.620	1.452
175.0	44.590	41.277	35.247	28.548	23.449	16.377	8.747	5.136	1.117
175.5	40.235	37.518	32.084	26.277	20.471	12.804	7.481	4.243	0.819
176.0	35.880	33.349	28.957	23.560	17.307	9.714	6.625	3.536	1.079
176.5	31.190	28.659	25.272	19.727	13.623	7.481	5.657	2.494	0.856
177.0	25.719	23.895	21.141	15.818	10.310	6.290	4.764	1.638	0.707
177.5	20.062	18.536	17.233	12.320	7.593	5.546	4.020	1.079	0.707
178.0	14.032	12.990	13.139	8.374	5.583	4.615	3.164	0.893	1.191
178.5	8.933	8.300	8.672	5.322	4.504	3.796	2.382	0.968	0.819
179.0	5.248	4.987	4.652	3.313	3.499	3.015	1.861	0.893	0.930
179.5	1.861	2.829	1.787	1.787	2.419	2.419	1.154	0.930	1.303
180.0	1.340	1.340	1.340	1.340	1.340	1.340	1.340	1.340	1.340



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : CLD 4 LIGHT.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	151.72	N.A.	7.40
0-30	348.41	N.A.	16.90
0-40	586.26	N.A.	28.50
0-60	1003.17	N.A.	48.70
0-80	1327.2	N.A.	64.40
0-90	1458.14	N.A.	70.80
10-90	1423.76	N.A.	69.10
20-40	434.54	N.A.	21.10
20-50	658.73	N.A.	32.00
40-70	588.71	N.A.	28.60
60-80	324.03	N.A.	15.70
70-80	152.23	N.A.	7.40
80-90	130.94	N.A.	6.40
90-110	239.38	N.A.	11.60
90-120	344.92	N.A.	16.70
90-130	433.12	N.A.	21.00
90-150	552.14	N.A.	26.80
90-180	602.50	N.A.	29.20
110-180	363.12	N.A.	17.60
0-180	2060.64	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	34.38
10-20	117.34
20-30	196.69
30-40	237.85
40-50	224.19
50-60	192.72
60-70	171.80
70-80	152.23
80-90	130.94
90-100	122.00
100-110	117.38
110-120	105.53
120-130	88.21
130-140	69.13
140-150	49.89
150-160	31.94
160-170	15.69
170-180	2.73

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : CLD 4 LIGHT.IES**

**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	112	112	112	112	112	106	106	106	106	95	95	95	85	85	85	75	75	75	71
1	100	94	89	85	85	94	89	85	81	80	76	73	71	68	66	63	60	59	54
2	90	81	74	68	68	85	77	70	65	69	63	59	61	57	53	54	51	48	44
3	82	71	63	56	56	77	67	60	54	60	54	49	54	49	44	47	43	40	37
4	75	63	54	47	47	70	59	51	45	53	47	41	48	42	38	42	38	34	31
5	69	56	47	40	40	65	53	45	39	48	41	36	43	37	33	38	33	30	27
6	63	50	41	35	35	60	48	40	34	43	36	31	38	33	28	34	30	26	23
7	59	45	37	31	31	55	43	35	29	39	32	27	35	29	25	31	27	23	21
8	54	41	33	27	27	51	39	31	26	36	29	24	32	26	22	29	24	21	18
9	51	38	30	24	24	48	36	28	23	33	26	22	29	24	20	27	22	19	16
10	47	35	27	22	22	45	33	26	21	30	24	20	27	22	18	25	20	17	15

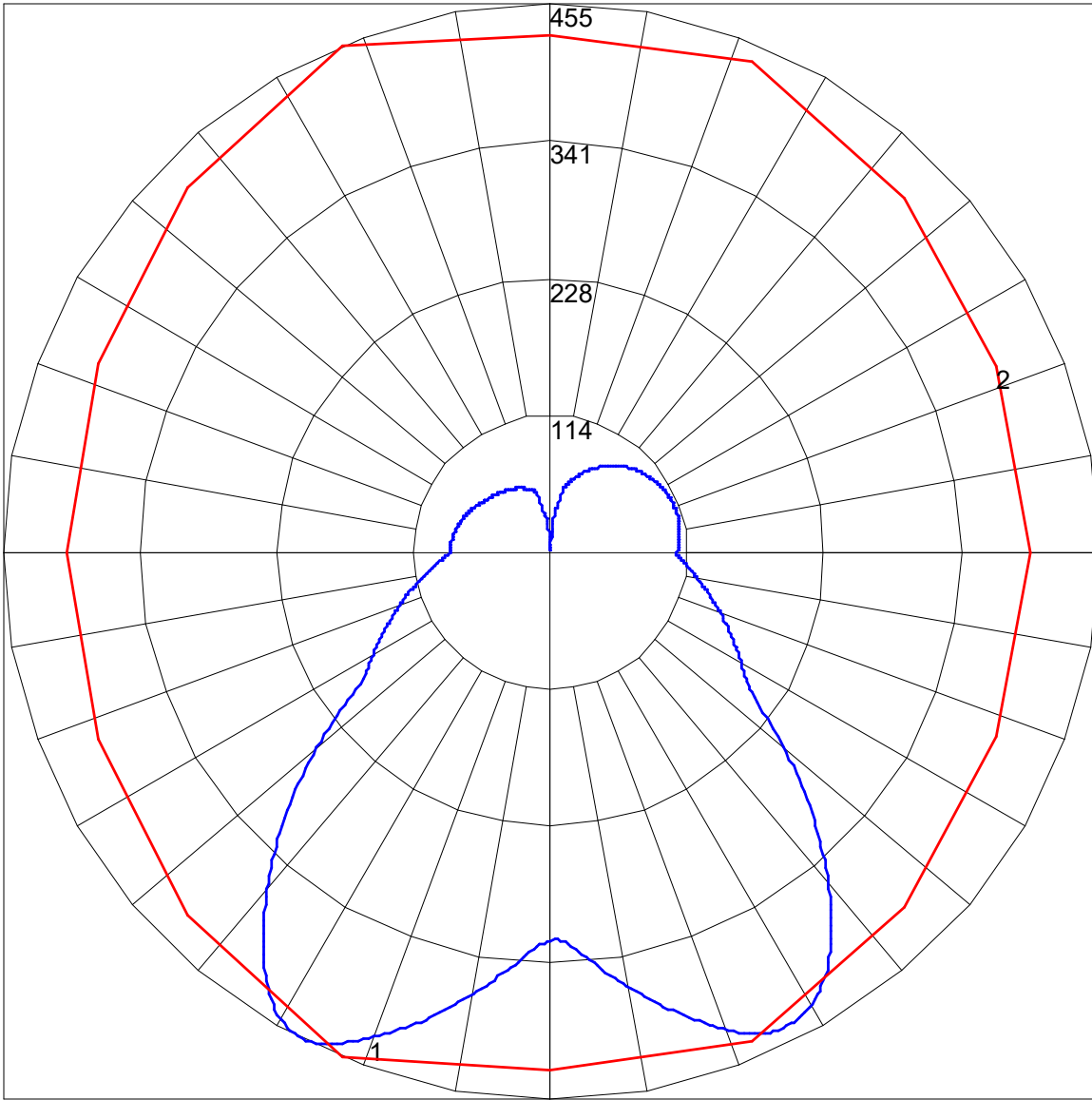
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : CLD 4 LIGHT.IES**

**UGR TABLE - CORRECTED**

Reflectances											
Ceiling Cavity	70	70	50	50	30	70	70	50	50	30	
Walls	50	30	50	30	30	50	30	50	30	30	
Floor Cavity	20	20	20	20	20	20	20	20	20	20	
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	12.7	13.9	13.5	14.7	15.6	11.0	12.1	11.7	12.9	13.8
	3H	15.0	16.1	15.8	16.9	17.8	12.8	13.8	13.5	14.6	15.6
	4H	16.1	17.1	16.9	17.9	18.9	13.6	14.6	14.4	15.4	16.3
	6H	17.2	18.1	18.0	18.9	19.9	14.3	15.2	15.1	16.0	17.0
	8H	17.7	18.6	18.5	19.4	20.4	14.6	15.5	15.4	16.3	17.3
	12H	18.2	19.1	19.0	19.9	20.9	14.9	15.8	15.7	16.6	17.6
4H	2H	13.4	14.4	14.2	15.2	16.2	11.9	12.9	12.7	13.7	14.7
	3H	15.9	16.8	16.7	17.6	18.6	14.0	14.8	14.8	15.7	16.7
	4H	17.2	18.0	18.0	18.8	19.8	14.9	15.7	15.7	16.5	17.5
	6H	18.5	19.2	19.3	20.0	21.0	15.8	16.5	16.6	17.3	18.3
	8H	19.1	19.7	19.9	20.6	21.6	16.2	16.8	17.0	17.7	18.7
	12H	19.7	20.3	20.5	21.1	22.2	16.5	17.2	17.4	18.0	19.1
8H	4H	17.6	18.3	18.4	19.1	20.2	15.6	16.3	16.5	17.1	18.2
	6H	19.1	19.7	20.0	20.6	21.6	16.7	17.3	17.6	18.2	19.2
	8H	19.9	20.4	20.7	21.3	22.3	17.2	17.7	18.1	18.6	19.7
	12H	20.7	21.1	21.5	22.0	23.1	17.7	18.2	18.6	19.1	20.2
12H	4H	17.7	18.3	18.6	19.2	20.2	15.8	16.4	16.7	17.3	18.3
	6H	19.3	19.8	20.1	20.6	21.7	17.0	17.5	17.9	18.4	19.5
	8H	20.1	20.6	21.0	21.4	22.5	17.6	18.1	18.5	18.9	20.0

Maximum UGR = 23.1

POLAR GRAPH



Maximum Candela = 455.052 Located At Horizontal Angle = 112.5, Vertical Angle = 27.5  
# 1 - Vertical Plane Through Horizontal Angles (112.5 - 292.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (27.5) (Through Max. Cd.)