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IES INDOOR REPORT
PHOTOMETRIC FILENAME : CLD 6 LIGHT.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LLI-18097-2
[TESTLAB] LightLab International (www.LightLabInternational.com)
[MANUFAC] Justice Design Group, Los Angeles, CA 90071
[LUMCAT] Clouds Resin (CLD) 6-Light Bath Bar
[LUMINAIRE] Justice Design Group - Wall mount bathroom luminaire. Product ID: CLD 6-Light
[MORE] Steel formed housing and six frosted resin lenses with white interior.
[MORE] 60 LEDs mounted in six circular arrays with white plastic dome lenses.
[MORE] No driver.
[MORE] Operating at 120 VAC and 60 Hz.
[OTHER] Absolute test - lamp lumens value set to -1
[MORE] NA conventions used for C0 plane alignment and C-plane rotation direction.
[MORE] The sample was tested at a distance of 8m.
[MORE] This IES file created by LightLab/LSA Report program version 3.820a.
[DATE] This file created: Thursday, April 19, 2018 8:36:38 AM
[ISSUEDATE] Thursday, April 19, 2018 8:36:38 AM

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3092
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	69
Total Luminaire Watts	45
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.54
Spacing Criterion (90-270)	1.72
Spacing Criterion (Diagonal)	1.54
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.08 m
Luminous Width (90-270)	0.99 m
Luminous Height	0.14 m

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2748	3210	7392
55	2309	2508	4980
65	2070	2191	3641
75	1943	2041	2920
85	1887	2007	2234

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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>
0.0	506.310	506.310	506.310	506.310	506.310	506.310	506.310	506.310	506.310
0.5	506.573	501.864	502.688	506.002	506.778	507.714	510.878	510.195	510.101
1.0	505.758	501.191	501.996	505.693	507.312	509.455	514.042	514.388	514.472
1.5	506.479	501.593	502.173	506.011	508.164	511.664	517.833	519.246	519.723
2.0	508.463	503.437	503.212	506.610	509.371	514.154	522.045	524.656	525.489
2.5	511.692	506.030	505.000	507.874	510.925	517.327	526.725	530.469	531.676
3.0	515.642	509.596	507.677	509.259	512.647	520.379	531.732	536.478	538.228
3.5	520.332	513.883	511.009	511.468	514.603	523.954	536.862	542.740	544.920
4.0	525.583	518.797	514.613	513.883	516.812	527.558	542.131	549.151	551.632
4.5	531.358	523.823	518.741	516.794	519.283	531.348	547.532	555.619	558.343
5.0	537.236	529.430	523.233	519.733	521.904	535.411	552.970	561.825	565.241
5.5	543.535	535.458	527.988	523.102	524.600	539.492	558.577	568.536	571.943
6.0	549.900	541.251	532.986	526.612	527.492	543.619	564.427	575.181	578.907
6.5	556.274	547.232	538.181	530.300	530.534	547.860	570.015	581.921	585.899
7.0	562.976	553.504	543.376	534.288	533.660	552.315	575.911	588.510	592.816
7.5	569.528	559.756	548.683	538.106	536.890	556.592	581.696	595.165	599.667
8.0	575.799	565.952	554.224	542.244	540.119	561.263	587.621	601.876	606.462
8.5	582.632	572.055	559.634	546.278	543.376	565.681	593.433	608.241	613.230
9.0	589.044	578.457	565.147	550.546	546.680	570.033	599.246	614.755	620.137
9.5	595.596	584.504	570.520	554.683	549.966	574.526	604.890	621.092	626.530
10.0	602.325	591.000	576.183	558.989	553.354	579.159	610.740	627.532	633.007
10.5	608.793	597.196	581.584	563.463	556.733	583.577	616.262	633.869	639.578
11.0	615.514	603.533	587.031	567.684	560.280	588.070	621.897	639.999	645.466
11.5	622.019	609.823	592.703	572.149	563.584	592.750	627.513	645.859	651.503
12.0	627.831	615.944	598.254	576.539	566.982	597.299	633.045	651.484	657.109
12.5	633.316	621.897	603.842	580.947	570.455	601.811	638.614	657.109	662.407
13.0	637.641	627.345	609.242	585.393	573.955	606.088	644.193	662.276	667.639
13.5	641.544	632.240	614.840	589.942	577.297	610.646	649.444	667.349	672.226
14.0	644.595	636.171	620.100	594.098	580.582	615.046	654.461	672.114	675.839
14.5	647.141	639.812	625.613	598.572	584.130	619.342	659.468	676.194	678.722
15.0	649.696	642.686	630.864	603.074	587.574	623.778	664.392	679.658	680.406
15.5	651.503	645.101	635.928	607.221	590.916	627.944	668.959	682.204	681.034
16.0	652.645	647.038	640.664	611.601	594.472	632.231	673.518	683.664	680.987
16.5	653.365	648.798	644.941	615.851	597.767	636.377	677.879	684.253	680.378
17.0	653.927	649.865	648.695	620.259	601.314	640.608	681.764	684.431	679.414
17.5	654.245	650.632	651.727	624.396	604.637	644.689	685.358	683.767	678.179
18.0	654.245	651.082	654.414	628.758	608.175	648.648	688.503	682.980	676.747
18.5	653.927	651.194	656.510	632.661	611.517	652.532	691.105	681.726	675.268
19.0	653.394	651.100	658.279	636.920	614.952	656.623	693.192	680.322	673.480
19.5	652.598	650.642	659.599	640.935	618.265	660.264	694.475	678.675	671.814
20.0	651.390	650.071	660.526	644.773	621.588	664.045	695.298	676.934	670.017
20.5	649.977	649.013	661.415	648.835	625.145	667.986	695.167	674.996	667.892
21.0	648.414	647.824	661.481	652.710	628.159	671.580	694.924	672.900	665.917
21.5	646.561	646.364	661.387	656.492	631.566	675.081	694.110	670.859	663.624
22.0	644.567	644.661	660.825	660.339	634.655	678.497	692.799	668.547	661.237
22.5	642.480	642.573	660.030	663.802	637.940	681.576	691.133	666.048	659.028
23.0	639.934	640.364	659.187	667.237	640.963	684.375	689.486	663.718	656.623
23.5	637.407	637.968	657.858	670.457	644.062	687.164	687.249	660.872	653.777
24.0	634.861	635.301	656.127	673.237	646.982	689.514	684.955	657.877	650.801
24.5	631.613	632.268	654.498	675.371	649.799	691.526	682.391	655.022	648.021
25.0	628.552	629.160	652.111	677.421	652.682	693.314	679.517	651.671	644.876
25.5	625.379	625.782	649.762	678.516	655.415	694.446	676.503	648.582	641.694
26.0	621.925	622.281	647.010	679.330	658.251	695.504	673.321	644.904	638.052
26.5	618.434	618.509	643.987	679.536	660.769	696.253	669.933	641.197	634.374

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CANDELA TABULATION - (Cont.)

27.0	614.830	614.652	640.664	679.545	663.324	696.487	666.273	637.248	630.405
27.5	611.124	610.983	637.304	678.965	665.730	696.440	662.622	633.541	626.437
28.0	607.090	606.987	633.550	677.898	668.267	695.776	658.392	629.189	622.000
28.5	602.887	602.765	629.432	676.419	670.522	694.680	654.245	624.780	617.226
29.0	598.797	598.506	625.220	674.613	672.825	692.968	649.884	620.250	612.472
29.5	594.173	594.145	620.708	672.132	675.090	690.684	645.363	615.420	607.464
30.0	589.549	589.661	616.103	669.221	676.999	687.810	640.617	610.459	602.297
30.5	584.850	585.009	611.161	665.777	678.843	684.291	635.638	605.358	596.887
31.0	579.927	580.301	606.154	662.173	680.285	680.285	630.714	599.920	591.365
31.5	574.891	575.369	600.903	657.961	681.127	675.783	625.257	594.416	585.618
32.0	569.762	570.511	595.530	653.581	681.455	671.318	620.006	588.866	579.730
32.5	564.108	565.307	590.195	648.714	681.380	666.114	614.400	582.866	573.366
33.0	558.474	559.962	584.541	643.463	680.519	660.648	608.625	576.782	567.207
33.5	553.036	554.514	579.010	638.052	679.059	654.798	602.840	570.829	560.804
34.0	547.092	548.983	573.253	632.174	677.009	648.901	596.812	564.277	554.280
34.5	541.223	543.348	567.431	626.175	674.229	642.545	590.616	557.856	547.803
35.0	535.167	537.358	561.506	619.782	670.326	635.937	584.158	551.323	541.130
35.5	529.083	531.508	555.544	613.333	665.168	629.526	577.886	544.640	534.362
36.0	522.896	525.358	549.385	606.313	658.832	622.562	571.119	537.695	527.436
36.5	516.972	519.461	543.423	599.667	652.158	615.813	564.520	531.143	520.781
37.0	510.766	513.274	537.011	592.301	644.736	608.690	557.594	524.029	513.536
37.5	504.148	506.938	530.824	585.000	636.620	601.474	550.611	516.878	506.647
38.0	497.961	500.620	524.319	577.568	628.122	594.341	543.488	509.914	499.740
38.5	491.793	494.311	517.805	569.912	619.566	586.778	536.225	502.604	492.654
39.0	485.896	487.946	511.224	562.339	610.384	579.356	528.737	495.331	485.728
39.5	479.709	481.488	504.541	554.486	600.809	571.681	521.343	488.377	479.045
40.0	473.597	475.263	497.830	546.643	591.150	563.996	513.930	481.226	472.268
40.5	468.000	469.076	491.063	538.705	581.022	556.124	506.114	474.140	465.791
41.0	462.627	463.039	484.389	530.909	571.391	548.346	498.570	467.148	459.623
41.5	457.507	456.899	477.266	522.690	561.020	540.166	490.745	460.259	453.108
42.0	452.668	451.030	470.274	514.435	551.107	531.957	482.761	453.576	446.987
42.5	448.016	445.424	463.404	506.395	540.830	523.851	474.861	446.921	441.015
43.0	443.945	439.911	456.300	498.083	530.553	515.296	467.036	440.379	434.950
43.5	440.257	435.015	449.233	489.715	520.669	506.975	459.024	434.238	429.558
44.0	436.532	430.279	442.148	481.310	510.579	498.326	451.124	428.108	424.598
44.5	433.031	426.011	435.156	472.848	500.797	489.799	443.280	422.192	420.227
45.0	429.577	422.183	428.173	464.275	490.904	480.889	435.446	416.623	415.855
45.5	426.264	418.514	421.275	456.019	481.516	472.446	427.789	411.672	411.690
46.0	422.819	415.163	414.451	447.464	471.576	463.442	420.077	406.889	407.853
46.5	419.637	411.643	407.768	438.750	461.748	454.362	412.626	402.499	403.744
47.0	416.473	408.105	401.460	430.176	451.929	445.386	405.466	398.315	399.962
47.5	413.197	404.942	395.086	421.387	441.904	436.139	398.380	394.402	395.900
48.0	409.874	401.666	389.367	412.748	431.852	426.984	391.791	390.471	392.165
48.5	406.992	398.652	383.826	403.903	421.621	417.877	385.398	386.708	388.197
49.0	403.987	395.516	378.827	395.320	411.110	408.807	379.539	382.796	384.556
49.5	400.748	392.521	374.241	386.671	400.645	399.485	373.904	379.043	380.634
50.0	397.819	389.629	370.113	378.284	390.097	390.593	368.924	375.168	377.152
50.5	394.861	386.568	366.257	369.711	379.351	381.504	364.038	371.480	373.333
51.0	392.100	383.601	362.606	361.221	368.353	372.687	359.546	367.867	370.057
51.5	389.282	380.821	359.031	353.031	357.515	363.589	355.455	364.226	366.481
52.0	386.587	378.135	355.409	344.738	346.526	354.912	351.636	360.865	362.868
52.5	383.844	375.214	352.151	336.913	335.416	346.722	347.883	357.159	359.574
53.0	381.336	372.650	348.922	329.060	324.642	338.430	344.289	353.817	356.045
53.5	378.940	369.954	345.796	321.656	313.785	330.595	340.667	350.261	352.825
54.0	376.375	367.352	342.632	314.730	303.002	323.060	337.072	346.769	349.371
54.5	374.072	365.096	339.787	308.524	292.912	316.237	333.759	343.709	346.067

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CANDELA TABULATION - (Cont.)

55.0	371.564	362.672	336.838	302.553	282.475	309.938	330.371	340.170	342.950
55.5	369.224	360.435	333.815	297.451	272.320	304.359	326.870	336.792	339.497
56.0	366.968	358.057	330.876	292.603	262.941	298.912	323.603	333.609	336.342
56.5	364.881	355.867	328.115	288.176	253.356	294.213	320.280	330.268	333.085
57.0	362.625	353.789	325.260	284.273	244.511	289.823	317.079	327.057	329.874
57.5	360.585	351.496	322.546	280.557	236.462	285.592	313.738	323.922	326.533
58.0	358.413	349.755	319.756	277.178	228.786	281.670	310.509	320.842	323.585
58.5	356.167	347.658	317.201	273.808	221.813	278.310	307.401	317.472	320.337
59.0	354.547	345.777	314.796	271.009	215.785	274.959	304.125	314.346	317.416
59.5	352.432	343.924	312.072	268.145	210.160	271.814	301.121	311.295	314.281
60.0	350.392	342.005	309.666	265.169	204.918	268.641	297.901	308.159	311.192
60.5	348.454	340.227	307.308	262.230	200.173	265.730	294.859	305.089	308.038
61.0	346.788	338.486	304.818	259.281	195.727	262.782	291.817	301.954	304.865
61.5	344.757	336.801	302.553	256.342	191.552	259.955	288.616	298.799	301.823
62.0	342.819	335.079	300.166	253.356	187.490	256.998	285.658	295.748	298.781
62.5	341.060	333.384	297.985	250.417	183.578	254.171	282.513	292.771	295.795
63.0	339.403	331.784	295.729	247.581	179.731	251.400	279.480	289.683	292.800
63.5	337.559	330.146	293.633	244.904	176.071	248.686	276.551	286.772	289.945
64.0	335.921	328.704	291.620	242.096	172.336	246.131	273.378	283.692	286.687
64.5	334.002	327.085	289.439	239.354	168.667	243.426	270.410	280.678	283.842
65.0	332.336	325.700	287.436	236.640	164.961	240.833	267.265	277.636	280.894
65.5	330.782	324.212	285.574	233.729	161.142	238.193	264.195	274.744	277.936
66.0	328.873	322.592	283.458	231.220	157.501	235.666	261.191	271.796	275.137
66.5	327.422	321.179	281.605	228.496	153.757	233.139	258.130	268.913	272.179
67.0	325.634	319.831	279.705	226.044	150.144	230.687	255.135	265.880	269.081
67.5	324.240	318.259	277.842	223.414	146.287	228.216	251.999	262.997	266.348
68.0	322.770	316.930	276.008	220.915	142.759	225.763	249.004	260.124	263.437
68.5	321.085	315.666	274.323	218.584	139.221	223.133	245.850	257.203	260.489
69.0	319.466	314.281	272.413	215.991	135.458	220.596	242.892	254.236	257.559
69.5	317.894	312.924	270.691	213.586	131.892	217.948	239.794	251.353	254.760
70.0	316.443	311.707	268.997	211.152	128.232	215.439	236.930	248.536	251.784
70.5	314.927	310.396	267.303	208.822	124.769	212.743	233.635	245.588	248.985
71.0	313.354	308.983	265.618	206.472	121.352	210.123	230.827	242.649	246.196
71.5	311.735	307.841	263.989	204.179	118.002	207.399	227.757	239.775	243.163
72.0	310.303	306.606	262.482	201.792	114.482	204.759	224.874	236.864	240.234
72.5	308.974	305.379	260.760	199.480	111.290	202.195	221.776	234.122	237.379
73.0	307.364	304.200	259.244	197.187	107.865	199.387	218.678	231.323	234.608
73.5	306.025	303.002	257.625	195.034	104.542	196.841	215.804	228.281	231.501
74.0	304.481	301.869	256.146	192.825	101.425	193.818	212.865	225.454	228.730
74.5	303.358	300.578	254.667	190.747	98.093	190.963	209.814	222.440	225.735
75.0	301.907	299.464	253.179	188.763	94.967	188.145	206.875	219.614	222.834
75.5	300.344	298.331	251.625	186.741	91.822	185.103	203.908	216.656	220.063
76.0	298.902	297.283	250.221	184.813	88.817	182.024	200.912	213.857	217.077
76.5	297.489	296.047	248.845	182.922	85.607	179.113	197.917	210.928	214.044
77.0	296.207	295.018	247.469	180.976	82.930	176.043	194.959	208.063	211.499
77.5	294.615	293.857	246.028	179.207	79.878	172.907	192.114	205.227	208.522
78.0	293.342	292.818	244.680	177.306	76.986	169.669	189.081	202.195	205.508
78.5	291.985	291.835	243.313	175.472	74.234	166.411	186.217	199.377	202.607
79.0	290.506	290.694	241.900	173.722	71.426	163.398	183.147	196.448	199.649
79.5	289.261	289.683	240.655	172.074	68.759	159.972	180.208	193.593	196.850
80.0	287.773	288.597	239.279	170.249	65.979	156.733	177.138	190.663	193.939
80.5	286.631	287.539	237.912	168.648	63.377	153.551	174.236	187.659	191.000
81.0	285.087	286.519	236.686	166.833	60.831	150.106	171.129	184.794	188.061
81.5	283.711	285.424	235.329	165.326	58.378	147.102	168.358	181.996	185.178
82.0	282.447	284.291	234.234	163.706	55.692	143.620	165.288	178.982	182.220
82.5	281.240	283.374	232.933	161.994	53.277	140.353	162.265	176.034	179.300

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CANDELA TABULATION - (Cont.)

83.0	279.686	282.129	231.772	160.449	51.059	137.105	159.176	173.197	176.595
83.5	278.460	281.062	230.462	158.942	48.475	133.736	156.172	170.343	173.553
84.0	277.000	280.004	229.226	157.416	46.126	130.525	153.195	167.469	170.689
84.5	275.886	278.947	228.066	155.797	44.104	127.025	150.219	164.549	167.844
85.0	274.473	277.917	227.027	154.506	41.895	123.636	147.102	161.769	165.110
85.5	273.069	276.850	225.922	153.102	39.686	120.398	144.228	158.867	162.228
86.0	271.927	275.923	224.837	152.016	37.768	117.066	141.242	156.200	159.420
86.5	270.588	274.922	223.732	150.677	35.830	113.658	138.313	153.438	156.640
87.0	269.297	274.061	222.693	149.395	33.808	110.148	135.411	150.827	153.916
87.5	268.014	272.844	221.635	148.272	31.946	106.985	132.538	148.262	151.501
88.0	267.031	271.936	220.699	147.139	30.111	103.737	129.776	145.838	149.011
88.5	265.581	271.103	219.754	146.184	28.230	100.611	127.090	143.517	146.465
89.0	264.673	270.382	219.305	145.426	26.770	97.793	124.582	141.420	144.032
89.5	264.195	270.298	218.921	145.258	25.637	95.444	122.438	140.091	142.122
90.0	264.242	271.225	219.155	145.211	25.375	93.497	120.735	139.370	140.522
90.5	264.607	273.153	219.707	145.454	25.281	91.485	118.881	139.267	138.930
91.0	265.131	275.774	220.540	146.362	25.749	89.613	117.168	138.968	137.321
91.5	265.955	277.571	221.448	147.588	25.824	87.638	115.446	136.946	135.879
92.0	266.957	278.329	222.590	149.180	26.086	85.476	113.743	133.932	134.382
92.5	268.342	277.880	223.975	150.883	26.376	83.295	112.002	130.956	132.800
93.0	269.437	277.730	225.305	152.418	26.788	81.076	110.336	128.550	131.087
93.5	270.953	277.926	226.755	153.841	27.135	78.558	108.501	126.566	129.617
94.0	272.367	279.040	228.197	155.170	27.593	76.097	106.807	124.769	127.970
94.5	273.602	280.023	229.573	156.499	28.080	73.794	105.094	122.887	126.323
95.0	274.819	281.174	230.902	157.641	28.632	71.641	103.288	121.249	124.862
95.5	276.401	282.316	232.306	158.886	29.184	69.470	101.322	119.471	123.131
96.0	277.421	283.468	233.644	160.253	30.046	67.242	99.506	117.796	121.390
96.5	278.769	284.478	234.824	161.741	30.813	65.080	97.615	115.933	119.677
97.0	280.182	285.639	236.200	163.388	32.011	62.946	95.659	114.183	117.899
97.5	281.521	286.482	237.519	164.858	33.069	60.746	93.825	112.348	116.027
98.0	282.578	287.446	238.586	166.636	34.173	58.734	91.794	110.289	114.426
98.5	283.861	288.316	239.878	168.031	35.409	56.684	89.875	108.510	112.348
99.0	284.844	289.196	241.114	169.716	36.598	54.662	87.947	106.470	110.663
99.5	286.079	290.057	242.115	171.391	37.515	52.921	86.093	104.664	108.604
100.0	287.258	290.825	243.397	173.085	38.020	51.124	84.259	102.698	106.741
100.5	288.232	291.789	244.820	174.620	38.741	49.290	82.312	100.648	104.664
101.0	289.364	292.537	246.168	176.034	39.228	47.792	80.468	98.757	102.698
101.5	290.413	293.230	247.544	177.419	39.714	46.650	78.456	96.810	100.704
102.0	291.592	294.072	249.013	178.926	40.482	45.546	76.574	94.789	98.757
102.5	292.659	294.821	250.305	180.311	41.399	44.619	74.796	92.842	96.623
103.0	293.689	295.626	251.634	181.528	42.242	43.861	72.952	90.942	94.527
103.5	294.672	296.291	253.010	182.614	43.309	43.224	71.220	89.098	92.580
104.0	295.626	297.096	254.424	183.756	44.376	43.084	69.507	87.142	90.698
104.5	296.497	297.891	255.668	184.542	45.546	42.635	67.720	85.279	88.489
105.0	297.676	298.603	256.820	185.319	46.641	42.438	65.997	83.360	86.561
105.5	298.575	299.314	258.121	185.796	47.727	42.391	64.284	81.376	84.483
106.0	299.501	299.932	259.394	186.283	48.859	42.457	62.534	79.588	82.630
106.5	300.381	300.709	260.423	186.638	50.048	42.813	61.130	77.388	80.683
107.0	301.289	301.326	261.659	187.060	51.265	43.384	59.642	75.601	78.652
107.5	302.206	302.122	262.567	187.069	52.397	43.945	58.219	73.663	76.874
108.0	302.964	302.862	263.643	187.125	53.642	44.666	56.871	71.716	74.852
108.5	303.910	303.423	264.551	187.144	55.018	45.387	55.776	70.003	72.877
109.0	304.902	304.078	265.365	187.106	56.151	46.238	54.690	68.188	70.921
109.5	305.688	304.799	266.152	186.957	57.358	47.193	53.455	66.231	68.993
110.0	306.559	305.333	266.966	186.816	58.603	48.148	52.388	64.453	67.280
110.5	307.429	306.016	267.752	186.657	59.773	49.215	51.433	62.646	65.436

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111.0	308.496	306.437	268.398	186.517	60.962	50.263	50.347	60.934	63.423
111.5	309.254	306.999	269.006	186.114	62.001	51.424	49.608	59.361	61.748
112.0	309.947	307.504	269.568	185.618	63.152	52.566	48.784	57.807	59.988
112.5	310.771	307.907	269.905	185.103	64.219	53.895	48.110	56.394	57.938
113.0	311.501	308.478	270.354	184.495	65.445	55.130	47.539	55.084	56.441
113.5	312.165	308.899	270.495	183.877	66.615	56.581	46.884	53.904	54.831
114.0	312.652	309.161	270.785	183.091	67.766	57.817	46.426	52.781	53.137
114.5	313.167	309.432	270.944	182.314	68.918	59.108	45.892	51.677	51.780
115.0	313.691	309.713	271.084	181.490	70.050	60.503	45.490	50.553	50.488
115.5	314.000	309.919	271.019	180.629	71.239	61.860	45.237	49.786	49.440
116.0	314.187	310.031	270.925	179.871	72.418	63.320	45.031	48.681	48.560
116.5	314.767	310.106	270.738	178.879	73.616	64.444	44.909	48.148	47.605
117.0	314.898	310.247	270.607	178.102	74.768	65.829	45.022	47.315	46.781
117.5	315.132	310.153	270.279	177.316	75.807	67.186	44.937	46.585	45.920
118.0	315.132	310.069	270.083	176.502	77.089	68.515	45.003	46.079	45.340
118.5	315.423	309.984	269.549	175.481	78.203	69.975	45.218	45.443	44.600
119.0	315.544	309.722	269.016	174.517	79.289	71.286	45.396	45.040	44.104
119.5	315.535	309.460	268.529	173.787	80.515	72.699	45.724	44.516	43.608
120.0	315.591	309.067	268.005	172.739	81.760	74.094	45.920	44.179	42.934
120.5	315.863	308.758	267.294	171.747	82.677	75.460	46.444	43.917	42.766
121.0	315.825	308.328	266.535	170.792	83.997	76.939	46.809	43.646	42.008
121.5	315.919	307.841	265.787	169.669	85.073	78.427	47.483	43.430	41.867
122.0	315.816	307.102	264.888	168.714	86.093	79.813	48.017	43.505	41.455
122.5	315.919	306.596	263.999	167.675	87.207	81.254	48.700	43.187	41.109
123.0	315.638	305.922	262.979	166.627	88.340	82.677	49.308	43.187	40.594
123.5	315.395	305.145	262.014	165.522	89.332	84.128	50.198	42.990	40.613
124.0	314.636	304.415	260.882	164.427	90.268	85.672	50.928	43.084	40.342
124.5	313.869	303.489	259.890	163.398	91.316	87.216	51.761	43.075	40.154
125.0	313.223	302.665	258.626	162.209	92.355	88.845	52.893	43.037	40.042
125.5	312.409	301.626	257.503	161.160	93.300	90.324	53.867	43.224	40.080
126.0	311.407	300.718	256.005	160.037	94.339	91.915	54.934	43.468	40.005
126.5	310.509	299.595	254.779	159.120	95.238	93.432	56.066	43.636	39.986
127.0	309.694	298.575	253.422	158.090	96.240	95.060	57.190	43.936	40.257
127.5	308.712	297.292	251.803	156.892	96.970	96.576	58.369	44.320	40.501
128.0	307.607	296.057	250.464	156.012	97.962	98.093	59.502	44.750	40.641
128.5	306.596	294.484	248.892	155.048	98.692	99.562	60.587	45.012	40.997
129.0	305.520	293.099	247.338	154.028	99.459	100.957	61.804	45.555	40.997
129.5	304.209	291.274	245.541	153.186	100.264	102.689	63.105	46.135	41.643
130.0	302.955	289.570	243.809	152.203	101.041	103.962	64.172	46.688	42.017
130.5	301.757	287.792	241.900	151.192	101.706	105.506	65.408	47.249	42.551
131.0	300.334	285.976	240.159	150.322	102.221	106.975	66.437	48.082	42.990
131.5	298.865	284.039	238.315	149.395	103.007	108.398	67.663	48.672	43.533
132.0	297.442	282.176	236.443	148.384	103.587	110.092	68.918	49.552	44.207
132.5	295.645	280.182	234.384	147.532	104.242	111.627	70.069	50.413	44.909
133.0	293.970	278.254	232.418	146.306	104.673	113.069	71.286	51.340	45.639
133.5	292.416	276.382	230.415	145.445	105.169	114.454	72.531	52.276	46.360
134.0	290.385	274.267	228.234	144.490	105.459	115.961	73.850	53.277	47.184
134.5	288.606	272.189	225.988	143.489	105.871	117.112	74.955	54.232	48.110
135.0	286.566	269.896	223.741	142.609	106.339	118.423	76.331	55.449	49.009
135.5	284.750	267.724	221.504	141.664	106.676	119.359	77.482	56.534	50.010
136.0	282.532	265.412	219.183	140.718	106.947	120.323	78.736	57.714	51.171
136.5	280.454	263.100	216.750	139.698	107.172	121.109	79.925	58.977	52.285
137.0	278.132	260.667	214.475	138.725	107.219	121.755	81.254	60.222	53.446
137.5	275.746	258.205	212.004	137.817	107.294	122.326	82.518	61.289	54.784
138.0	273.331	255.818	209.673	136.871	107.490	122.607	83.903	62.356	56.029
138.5	270.757	253.310	207.277	136.001	107.546	122.831	85.157	63.685	57.470

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139.0	268.089	250.736	204.965	135.093	107.677	123.075	86.337	64.921	58.715
139.5	265.468	248.190	202.401	134.194	107.668	123.309	87.656	65.913	59.867
140.0	263.007	245.550	200.126	133.417	107.780	123.412	89.032	67.242	61.336
140.5	260.021	242.808	197.533	132.556	108.080	123.112	90.361	68.347	62.675
141.0	257.241	240.112	195.119	131.555	107.940	122.934	91.653	69.592	63.704
141.5	254.395	237.416	192.629	130.825	107.780	122.148	93.038	70.659	65.155
142.0	251.559	234.618	190.158	129.992	107.808	121.268	94.386	71.744	66.653
142.5	248.517	231.988	187.705	129.234	107.687	120.276	95.678	73.036	67.813
143.0	245.728	229.067	185.131	128.457	107.359	119.040	97.091	74.244	69.376
143.5	242.724	226.147	182.698	127.670	107.060	117.945	98.346	75.414	70.471
144.0	239.513	223.105	180.217	126.903	106.919	116.560	99.609	76.705	71.857
144.5	236.546	220.250	177.718	126.276	106.526	115.325	101.107	77.604	73.308
145.0	233.401	217.423	175.285	125.527	106.180	113.761	102.389	79.008	74.403
145.5	230.247	214.297	172.776	124.759	105.366	112.123	103.887	80.234	75.835
146.0	227.167	211.358	170.296	123.973	104.635	110.373	105.132	81.516	77.379
146.5	223.947	208.438	167.918	123.262	103.728	108.501	106.404	82.649	78.680
147.0	220.671	205.227	165.494	122.401	102.670	106.517	107.546	83.903	79.860
147.5	217.405	202.223	163.107	121.717	101.687	104.523	108.885	85.195	81.619
148.0	214.035	199.237	160.777	120.941	100.442	102.370	109.896	86.505	82.761
148.5	210.740	196.232	158.512	120.276	99.048	100.339	110.850	87.834	84.212
149.0	207.577	193.078	156.172	119.452	97.831	98.533	111.918	89.032	85.644
149.5	204.291	189.989	153.953	118.741	96.427	96.773	112.648	90.408	87.020
150.0	200.950	186.938	151.772	117.721	95.210	95.219	113.368	91.672	88.508
150.5	197.618	183.896	149.592	116.710	94.190	93.712	113.986	93.141	90.333
151.0	194.089	180.788	147.429	115.830	93.010	91.906	114.389	94.648	91.578
151.5	190.757	177.643	145.398	114.754	91.896	90.521	114.520	95.790	93.104
152.0	187.443	174.630	143.358	113.612	90.633	89.182	114.454	97.241	94.948
152.5	183.999	171.503	141.411	112.591	89.875	88.106	113.986	98.692	96.736
153.0	180.564	168.471	139.501	111.487	88.948	87.020	113.864	99.881	97.980
153.5	177.316	165.550	137.667	110.429	88.124	86.065	113.293	101.219	99.937
154.0	173.928	162.593	135.795	109.409	87.151	84.708	112.629	102.352	101.425
154.5	170.577	159.682	133.979	107.986	85.925	83.491	111.983	103.456	102.792
155.0	167.376	156.696	132.313	106.545	84.895	82.237	111.150	104.523	104.635
155.5	164.015	153.747	130.413	105.103	84.043	80.468	110.158	105.356	106.049
156.0	160.767	151.108	128.962	103.503	83.098	79.101	108.623	106.367	107.406
156.5	157.594	148.131	127.315	101.987	82.359	77.707	106.798	107.097	108.894
157.0	154.356	145.454	125.780	100.386	81.788	76.527	104.757	107.528	109.943
157.5	151.464	142.731	124.104	98.757	81.170	75.432	102.211	108.042	110.972
158.0	148.665	140.344	122.663	97.381	80.796	74.702	99.993	108.436	111.955
158.5	146.007	137.873	121.221	96.034	80.824	74.103	97.859	108.716	112.816
159.0	143.068	135.514	119.771	94.704	80.767	73.850	95.884	108.642	113.368
159.5	140.550	133.155	118.310	93.357	80.356	73.841	93.637	108.333	114.136
160.0	137.863	130.946	117.103	92.262	79.607	73.673	91.410	107.902	114.557
160.5	135.327	128.700	115.652	90.989	78.858	73.223	88.929	107.612	114.819
161.0	132.856	126.669	114.145	89.819	77.716	72.652	86.355	107.004	114.978
161.5	130.432	124.507	112.854	88.808	76.799	71.829	83.538	106.423	114.857
162.0	128.326	122.710	111.478	87.572	76.396	71.239	80.636	105.609	114.080
162.5	126.079	120.819	110.214	86.552	76.312	70.715	77.931	104.813	112.956
163.0	124.011	118.872	108.941	85.410	76.527	70.331	75.395	103.793	111.599
163.5	121.980	117.187	107.574	84.277	76.518	70.462	73.223	102.586	110.139
164.0	120.154	115.353	105.965	83.070	76.359	70.715	71.585	101.069	108.370
164.5	118.114	113.565	104.486	81.722	75.685	70.958	69.779	99.104	106.414
165.0	116.036	112.067	102.792	80.337	74.871	70.902	68.103	96.998	104.298
165.5	114.089	110.364	101.088	78.905	74.141	70.106	66.840	94.489	102.015
166.0	111.927	108.108	99.459	77.557	73.429	68.890	65.436	91.962	99.806
166.5	110.148	105.515	97.597	76.218	72.615	68.066	64.284	89.313	97.241

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167.0	108.230	103.615	95.987	75.011	72.287	67.458	63.246	86.599	94.985
167.5	106.507	101.537	94.190	73.701	71.801	66.971	62.310	83.716	91.981
168.0	104.635	99.703	92.430	72.634	71.754	66.372	61.570	80.636	88.836
168.5	102.820	97.934	90.521	71.782	71.436	66.259	61.008	77.725	86.131
169.0	101.013	96.006	88.742	70.696	71.323	66.147	60.335	74.721	83.351
169.5	99.478	94.087	86.365	69.676	71.014	65.801	59.698	71.632	80.440
170.0	97.662	92.299	84.006	68.384	70.518	65.829	59.389	68.496	77.304
170.5	95.734	90.633	81.535	67.476	69.685	66.156	58.706	65.211	74.562
171.0	93.928	88.911	79.036	66.475	68.562	66.596	57.817	62.338	71.772
171.5	91.971	87.535	76.920	65.763	67.411	67.036	57.236	59.670	69.320
172.0	90.343	85.831	75.086	64.921	66.409	67.149	56.431	57.115	66.821
172.5	88.705	84.259	73.205	64.088	65.557	66.849	55.860	55.233	64.284
173.0	86.973	82.677	71.117	63.414	65.052	66.194	55.430	53.661	62.066
173.5	85.185	80.842	69.283	62.665	64.612	65.632	55.018	52.154	59.576
174.0	83.632	79.139	67.345	62.122	64.575	65.398	54.681	51.003	57.442
174.5	81.956	77.435	65.267	61.439	64.771	65.295	54.756	49.936	55.065
175.0	80.215	75.825	63.030	60.934	64.837	65.211	55.093	49.018	52.753
175.5	78.858	74.300	60.803	60.297	64.781	64.996	55.524	47.970	50.338
176.0	77.351	72.840	58.828	59.932	64.706	64.790	56.048	46.884	48.129
176.5	75.984	71.482	57.208	59.745	64.481	64.743	56.937	45.752	46.435
177.0	74.187	70.275	55.992	59.623	64.303	64.809	57.873	44.469	45.096
177.5	72.138	69.067	54.784	59.633	64.182	64.958	58.472	43.749	43.777
178.0	70.359	67.841	53.792	59.520	64.350	65.024	58.884	42.700	42.569
178.5	68.478	66.465	52.950	59.174	64.565	65.118	58.940	42.148	41.596
179.0	66.887	65.370	51.836	58.921	64.724	65.380	59.090	41.820	40.697
179.5	65.380	64.050	50.844	58.350	64.678	65.408	59.024	41.764	40.070
180.0	56.478	56.478	56.478	56.478	56.478	56.478	56.478	56.478	56.478

IES INDOOR REPORT
PHOTOMETRIC FILENAME : CLD 6 LIGHT.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	233.36	N.A.	7.50
0-30	536.28	N.A.	17.30
0-40	901.39	N.A.	29.20
0-60	1541.71	N.A.	49.90
0-80	2029.69	N.A.	65.60
0-90	2214.89	N.A.	71.60
10-90	2161.91	N.A.	69.90
20-40	668.03	N.A.	21.60
20-50	1012.48	N.A.	32.70
40-70	901.75	N.A.	29.20
60-80	487.98	N.A.	15.80
70-80	226.55	N.A.	7.30
80-90	185.20	N.A.	6.00
90-110	318.24	N.A.	10.30
90-120	463.61	N.A.	15.00
90-130	595.56	N.A.	19.30
90-150	791.82	N.A.	25.60
90-180	876.83	N.A.	28.40
110-180	558.60	N.A.	18.10
0-180	3091.72	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	52.98
10-20	180.38
20-30	302.93
30-40	365.11
40-50	344.45
50-60	295.87
60-70	261.43
70-80	226.55
80-90	185.20
90-100	163.23
100-110	155.01
110-120	145.37
120-130	131.95
130-140	112.07
140-150	84.19
150-160	53.03
160-170	25.63
170-180	6.35

IES INDOOR REPORT
PHOTOMETRIC FILENAME : CLD 6 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	76	76	76	72
1	100	95	90	85	85	95	90	85	81	80	77	74	72	69	66	64	61	60	56
2	91	82	75	68	68	85	78	71	65	69	64	60	62	58	54	55	52	49	45
3	82	72	63	56	56	77	68	60	54	61	55	50	54	49	45	48	44	41	38
4	75	63	54	47	47	71	60	52	46	54	47	42	48	43	38	43	39	35	32
5	69	56	47	41	41	65	53	45	39	48	41	36	43	38	33	39	34	30	27
6	64	50	42	35	35	60	48	40	34	43	37	31	39	33	29	35	30	27	24
7	59	46	37	31	31	55	43	35	30	39	33	28	35	30	26	32	27	24	21
8	55	41	33	27	27	52	40	32	26	36	29	25	32	27	23	29	25	21	19
9	51	38	30	24	24	48	36	29	24	33	27	22	30	24	20	27	22	19	17
10	48	35	27	22	22	45	33	26	21	30	24	20	28	22	18	25	20	17	15

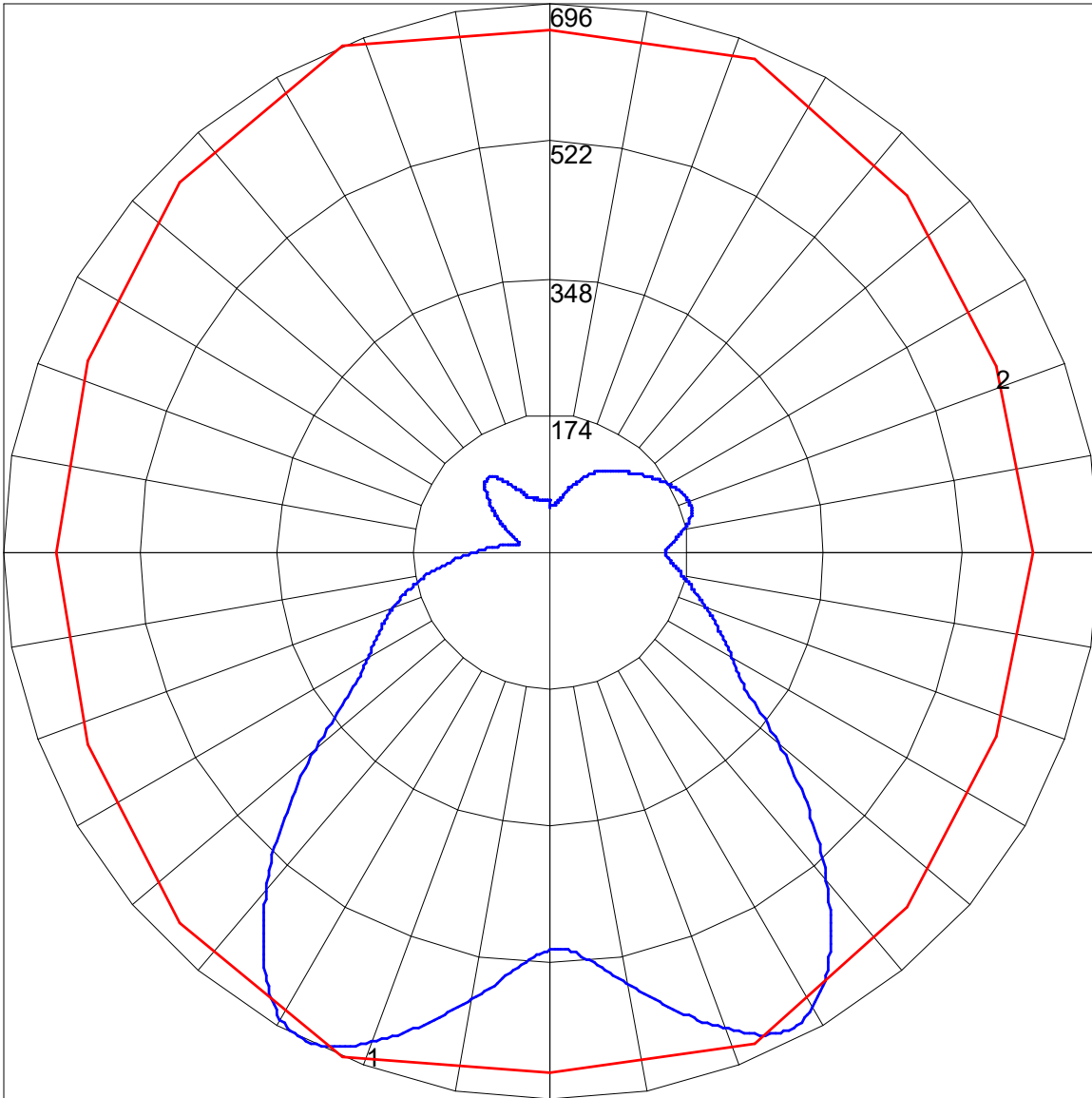
IES INDOOR REPORT
PHOTOMETRIC FILENAME : CLD 6 LIGHT.IES

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	12.8	13.9	13.5	14.7	15.6	11.0	12.2	11.7	12.9	13.8
	3H	15.1	16.2	15.9	17.0	17.9	12.4	13.5	13.1	14.2	15.2
	4H	16.2	17.3	17.0	18.0	19.0	12.9	13.9	13.6	14.7	15.6
	6H	17.4	18.3	18.1	19.1	20.0	13.2	14.1	14.0	14.9	15.9
	8H	17.9	18.8	18.7	19.6	20.5	13.3	14.2	14.1	15.0	16.0
	12H	18.4	19.2	19.2	20.0	21.0	13.3	14.2	14.1	15.0	16.0
4H	2H	13.4	14.4	14.2	15.2	16.2	12.1	13.1	12.8	13.9	14.8
	3H	16.1	16.9	16.8	17.7	18.7	13.8	14.7	14.6	15.5	16.5
	4H	17.4	18.2	18.2	19.0	20.0	14.6	15.4	15.4	16.2	17.2
	6H	18.7	19.4	19.5	20.2	21.2	15.1	15.8	15.9	16.6	17.6
	8H	19.3	20.0	20.1	20.8	21.8	15.3	15.9	16.1	16.8	17.8
	12H	19.9	20.5	20.7	21.4	22.4	15.4	16.0	16.2	16.8	17.9
8H	4H	17.8	18.5	18.6	19.3	20.3	15.5	16.1	16.3	17.0	18.0
	6H	19.4	19.9	20.2	20.8	21.8	16.3	16.9	17.1	17.7	18.8
	8H	20.2	20.7	21.0	21.5	22.6	16.6	17.1	17.5	18.0	19.0
	12H	20.9	21.4	21.8	22.3	23.4	16.9	17.3	17.7	18.2	19.3
12H	4H	17.9	18.5	18.7	19.3	20.4	15.7	16.3	16.6	17.2	18.2
	6H	19.5	20.0	20.4	20.9	21.9	16.7	17.2	17.5	18.1	19.1
	8H	20.4	20.8	21.2	21.7	22.8	17.1	17.6	18.0	18.5	19.5

Maximum UGR = 23.4

POLAR GRAPH



Maximum Candela = 696.487 Located At Horizontal Angle = 112.5, Vertical Angle = 27
1 - Vertical Plane Through Horizontal Angles (112.5 - 292.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (27) (Through Max. Cd.)