



# The Perfect Lighting Choice.™

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## IES INDOOR REPORT PHOTOMETRIC FILENAME : CLD 2 LIGHT.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] 18097-A  
[TESTLAB] LightLab International ([www.LightLabInternational.com](http://www.LightLabInternational.com))  
[MANUFAC] Justice Design Group, Los Angeles, CA 90071  
[LUMCAT] Clouds Resin (CLD) 2-Light Bath Bar  
[LUMINAIRE] Justice Design Group - Wall mount bathroom luminaire. Product ID: CLD 2-Light  
[MORE] Steel formed housing and two frosted resin lenses with white interior.  
[MORE] 20 LEDs mounted in two 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 20, 2018

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1032
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	69
Total Luminaire Watts	14.98
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)	0.33 m
Luminous Height	0.14 m

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2761	2955	5901
55	2329	2317	4066
65	2083	1996	3256
75	1933	1795	3100
85	1861	1689	3155

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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>	161.721	161.721	161.721	161.721	161.721	161.721	161.721	161.721	161.721
<b>0.5</b>	160.155	160.621	161.236	161.311	161.832	162.485	162.988	163.025	163.044
<b>1.0</b>	160.565	161.106	161.366	161.478	162.038	163.081	163.883	164.200	164.442
<b>1.5</b>	161.851	162.168	162.168	161.888	162.578	163.939	165.113	165.859	166.157
<b>2.0</b>	163.286	163.417	163.324	162.522	163.212	164.871	166.548	167.704	168.077
<b>2.5</b>	165.039	165.150	164.666	163.473	164.013	165.989	168.170	169.736	170.165
<b>3.0</b>	167.126	166.772	166.157	164.591	164.834	167.145	169.997	171.749	172.327
<b>3.5</b>	169.233	168.729	167.816	165.728	165.784	168.338	171.693	173.855	174.769
<b>4.0</b>	171.413	170.892	169.363	166.996	166.735	169.736	173.576	175.999	176.894
<b>4.5</b>	173.613	172.849	171.152	168.189	167.760	171.134	175.402	178.236	179.280
<b>5.0</b>	175.682	175.086	172.886	169.475	168.729	172.513	177.117	180.286	181.535
<b>5.5</b>	177.770	177.043	174.620	170.910	169.792	173.893	179.000	182.560	183.772
<b>6.0</b>	180.174	179.205	176.390	172.290	170.854	175.384	180.976	184.816	186.381
<b>6.5</b>	182.336	181.293	178.292	173.632	171.842	176.800	182.821	186.996	188.450
<b>7.0</b>	184.499	183.306	180.081	175.067	172.979	178.236	184.797	189.271	190.836
<b>7.5</b>	186.642	185.561	181.908	176.484	174.098	179.727	186.773	191.489	193.148
<b>8.0</b>	188.674	187.630	183.790	177.844	175.216	181.199	188.637	193.651	195.366
<b>8.5</b>	190.762	189.774	185.598	179.280	176.241	182.691	190.594	195.813	197.584
<b>9.0</b>	193.110	191.768	187.444	180.715	177.434	184.163	192.607	197.901	199.802
<b>9.5</b>	195.310	193.837	189.326	182.113	178.646	185.673	194.341	199.933	202.020
<b>10.0</b>	197.416	196.000	191.116	183.567	179.690	187.071	196.205	202.188	204.201
<b>10.5</b>	199.504	198.274	192.999	185.077	180.808	188.581	198.143	204.257	206.401
<b>11.0</b>	201.890	200.231	194.807	186.512	181.926	190.072	199.933	206.326	208.582
<b>11.5</b>	204.127	202.319	196.577	188.078	183.063	191.563	201.815	208.321	210.613
<b>12.0</b>	206.196	204.462	198.460	189.513	184.200	193.054	203.642	210.464	212.720
<b>12.5</b>	207.892	206.382	200.417	190.911	185.300	194.602	205.431	212.328	214.789
<b>13.0</b>	209.085	208.265	202.151	192.365	186.363	196.037	207.240	214.379	216.634
<b>13.5</b>	209.830	209.756	204.071	193.781	187.518	197.547	208.992	216.261	218.181
<b>14.0</b>	210.073	210.707	205.786	195.086	188.637	198.945	210.707	217.976	219.206
<b>14.5</b>	210.651	211.489	207.594	196.559	189.625	200.380	212.403	219.374	219.766
<b>15.0</b>	211.079	211.993	209.290	197.975	190.855	201.797	214.192	220.381	220.008
<b>15.5</b>	211.508	212.384	210.912	199.411	191.973	203.139	215.814	220.772	219.933
<b>16.0</b>	211.657	212.887	212.291	200.827	192.924	204.574	217.436	221.014	219.822
<b>16.5</b>	211.844	212.943	213.540	202.151	193.949	205.953	219.095	220.977	219.561
<b>17.0</b>	211.862	213.074	214.621	203.493	195.161	207.240	220.567	220.791	219.169
<b>17.5</b>	212.105	213.353	215.478	204.891	196.130	208.526	221.835	220.586	219.020
<b>18.0</b>	211.974	213.316	216.019	206.177	197.155	209.905	222.972	220.232	218.517
<b>18.5</b>	212.105	213.298	216.485	207.482	198.236	211.154	223.680	219.896	218.013
<b>19.0</b>	212.067	213.391	216.690	208.787	199.280	212.477	224.071	219.523	217.529
<b>19.5</b>	211.788	213.111	216.839	210.110	200.324	213.689	224.221	219.113	216.970
<b>20.0</b>	211.434	213.037	216.895	211.284	201.312	215.012	224.146	218.554	216.522
<b>20.5</b>	211.135	212.869	216.876	212.589	202.412	216.205	223.941	218.069	215.870
<b>21.0</b>	210.446	212.403	216.802	213.764	203.418	217.454	223.643	217.510	215.255
<b>21.5</b>	210.073	211.937	216.653	214.994	204.462	218.684	223.251	216.820	214.640
<b>22.0</b>	209.700	211.583	216.410	216.112	205.506	219.803	222.841	216.187	213.838
<b>22.5</b>	209.085	210.968	216.168	217.175	206.568	220.996	222.431	215.404	212.887
<b>23.0</b>	208.488	210.241	215.907	218.107	207.556	222.040	221.853	214.584	212.105
<b>23.5</b>	207.631	209.383	215.385	218.759	208.432	223.139	221.201	213.801	211.042
<b>24.0</b>	206.811	208.488	214.919	219.318	209.476	224.165	220.567	212.738	209.961
<b>24.5</b>	206.102	207.761	214.379	219.803	210.390	225.171	219.859	211.564	208.992
<b>25.0</b>	205.245	206.774	213.633	220.194	211.322	226.047	219.057	210.576	207.892
<b>25.5</b>	204.294	205.842	212.925	220.493	212.254	226.718	218.293	209.383	206.643
<b>26.0</b>	203.251	204.779	212.049	220.567	213.055	227.315	217.286	208.097	205.450
<b>26.5</b>	202.263	203.679	211.135	220.791	213.913	227.688	216.373	206.867	204.033

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**CANDELA TABULATION - (Cont.)**

27.0	200.902	202.468	210.110	220.716	214.696	227.855	215.348	205.431	202.691
27.5	199.970	201.442	209.048	220.567	215.460	227.893	214.136	204.108	201.312
28.0	198.591	200.194	207.799	220.213	216.168	227.744	212.925	202.635	199.821
28.5	197.267	198.740	206.531	219.822	216.970	227.296	211.601	201.126	198.218
29.0	196.000	197.360	205.282	219.113	217.752	226.718	210.166	199.504	196.615
29.5	194.602	196.056	203.866	218.386	218.461	225.935	208.712	197.882	194.974
30.0	193.204	194.620	202.356	217.492	219.039	224.948	207.146	196.223	193.166
30.5	191.451	193.129	200.809	216.392	219.784	223.885	205.394	194.434	191.284
31.0	190.072	191.750	199.187	215.422	220.362	222.692	203.698	192.607	189.513
31.5	188.581	190.165	197.621	214.267	221.014	221.387	201.908	190.818	187.518
32.0	186.810	188.506	196.056	212.925	221.648	219.877	200.082	188.935	185.654
32.5	185.207	186.941	194.210	211.620	222.021	218.218	198.162	186.922	183.455
33.0	183.474	185.188	192.495	210.073	222.487	216.410	196.298	184.872	181.423
33.5	181.479	183.585	190.762	208.432	222.841	214.640	194.359	182.765	179.000
34.0	179.857	181.740	188.842	206.885	222.729	212.515	192.272	180.733	176.950
34.5	178.124	179.951	187.052	204.965	222.450	210.483	190.240	178.571	174.694
35.0	176.073	178.068	185.114	203.046	221.518	208.358	188.022	176.372	172.290
35.5	174.247	176.334	183.250	201.070	220.250	206.158	185.934	174.154	169.922
36.0	172.308	174.303	181.237	199.001	218.610	203.828	183.753	171.749	167.667
36.5	170.258	172.401	179.354	196.764	216.671	201.610	181.535	169.549	165.188
37.0	168.450	170.500	177.341	194.471	214.230	199.112	179.261	167.238	162.820
37.5	166.511	168.506	175.216	192.141	211.173	196.671	176.950	164.778	160.304
38.0	164.461	166.455	173.277	189.811	207.799	194.210	174.675	162.354	157.825
38.5	162.485	164.423	171.152	187.313	204.294	191.619	172.196	159.801	155.420
39.0	160.490	162.485	169.121	184.834	200.678	189.140	169.848	157.378	152.978
39.5	158.589	160.397	167.014	182.262	197.062	186.530	167.406	154.824	150.406
40.0	156.949	158.403	164.852	179.708	193.427	183.958	165.001	152.326	148.002
40.5	155.048	156.371	162.690	177.192	189.979	181.311	162.448	149.810	145.504
41.0	153.128	154.414	160.584	174.545	186.530	178.720	159.968	147.293	143.099
41.5	151.692	152.494	158.328	172.084	183.194	176.073	157.396	144.740	140.788
42.0	150.127	150.574	156.129	169.494	180.100	173.427	154.861	142.242	138.458
42.5	148.822	148.673	153.873	166.884	176.912	170.724	152.214	139.781	136.221
43.0	147.703	146.902	151.674	164.312	173.911	168.077	149.567	137.377	133.891
43.5	146.734	145.373	149.400	161.609	171.097	165.300	146.976	135.065	131.953
44.0	145.933	143.826	147.200	158.962	168.282	162.504	144.218	132.624	130.070
44.5	144.740	142.633	144.982	156.464	165.560	159.763	141.552	130.480	128.299
45.0	143.752	141.478	142.708	153.650	162.839	156.856	138.849	128.411	126.864
45.5	142.820	140.378	140.620	151.059	160.304	154.097	136.296	126.528	125.447
46.0	141.794	139.464	138.439	148.412	157.620	151.152	133.649	124.776	124.105
46.5	140.713	138.421	136.314	145.765	155.103	148.207	131.021	123.248	122.688
47.0	139.614	137.321	134.338	142.969	152.401	145.280	128.299	121.831	121.253
47.5	138.644	136.352	132.288	140.285	149.661	142.260	125.820	120.414	119.818
48.0	137.656	135.364	130.536	137.600	146.920	139.259	123.341	119.072	118.327
48.5	136.575	134.227	128.821	134.767	144.087	136.165	120.862	117.656	117.078
49.0	135.699	133.220	127.348	132.120	141.198	133.220	118.588	116.295	115.736
49.5	134.693	132.176	125.839	129.324	138.234	130.144	116.388	114.897	114.338
50.0	133.705	131.188	124.515	126.622	135.215	127.218	114.450	113.611	113.089
50.5	132.717	130.126	123.154	124.031	132.046	124.180	112.623	112.213	111.784
51.0	131.822	129.175	121.999	121.496	128.877	121.123	110.964	110.945	110.405
51.5	131.002	128.094	120.955	118.662	125.690	118.159	109.491	109.585	109.230
52.0	129.921	127.218	120.023	116.183	122.316	115.214	108.093	108.410	108.019
52.5	129.175	126.249	118.979	113.685	118.867	112.306	106.900	107.124	106.789
53.0	128.243	125.242	117.991	111.113	115.605	109.435	105.558	105.801	105.577
53.5	127.460	124.329	116.966	108.895	112.231	106.714	104.309	104.831	104.347
54.0	126.659	123.509	116.015	106.602	108.932	104.011	103.116	103.489	103.247
54.5	125.596	122.539	115.009	104.514	105.801	101.532	101.905	102.352	102.240

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**CANDELA TABULATION - (Cont.)**

55.0	124.758	121.794	114.040	102.632	102.613	99.016	100.712	101.159	101.047
55.5	124.198	120.955	113.052	101.066	99.612	96.667	99.519	100.078	100.060
56.0	123.434	120.098	112.138	99.463	96.592	94.691	98.326	98.978	98.941
56.5	122.670	119.240	111.113	98.177	93.778	92.809	97.170	97.916	97.860
57.0	122.017	118.550	110.200	96.798	91.150	91.373	96.089	96.816	96.853
57.5	121.235	117.618	109.286	95.493	88.540	90.236	94.971	95.754	95.847
58.0	120.619	116.873	108.317	94.542	86.117	89.304	93.778	94.747	94.822
58.5	119.762	116.183	107.497	93.815	83.992	88.316	92.715	93.703	93.741
59.0	119.184	115.400	106.639	92.939	82.184	87.403	91.672	92.641	92.790
59.5	118.457	114.655	105.745	92.175	80.693	86.508	90.553	91.727	91.932
60.0	117.674	113.965	104.925	91.373	79.574	85.576	89.584	90.721	90.851
60.5	116.985	113.257	104.123	90.553	78.642	84.588	88.540	89.677	90.013
61.0	116.370	112.530	103.284	89.696	77.878	83.619	87.478	88.764	88.931
61.5	115.866	111.896	102.334	88.931	77.188	82.706	86.546	87.794	88.130
62.0	115.121	111.150	101.625	87.981	76.536	81.811	85.520	86.862	87.105
62.5	114.431	110.442	100.824	87.217	75.772	80.842	84.607	85.949	86.135
63.0	113.834	109.752	99.985	86.378	75.045	79.910	83.675	84.905	85.334
63.5	113.052	109.063	99.239	85.558	74.299	78.978	82.724	84.104	84.346
64.0	112.436	108.466	98.550	84.775	73.535	78.139	81.736	83.209	83.507
64.5	111.989	107.795	97.730	83.899	72.752	77.188	80.879	82.352	82.594
65.0	111.355	107.124	97.114	83.116	72.006	76.331	79.966	81.420	81.736
65.5	110.647	106.472	96.276	82.370	71.223	75.343	78.959	80.655	80.860
66.0	110.032	105.894	95.605	81.550	70.459	74.504	78.120	79.761	80.022
66.5	109.491	105.186	94.859	80.693	69.714	73.647	77.188	78.884	79.239
67.0	108.914	104.645	94.132	80.059	68.819	72.715	76.238	78.008	78.363
67.5	108.224	103.993	93.386	79.276	68.129	71.801	75.473	77.188	77.505
68.0	107.627	103.322	92.734	78.381	67.402	71.074	74.635	76.331	76.741
68.5	107.105	102.706	92.063	77.692	66.582	70.105	73.758	75.585	76.014
69.0	106.565	102.166	91.336	76.927	65.781	69.359	72.994	74.746	75.045
69.5	105.968	101.532	90.684	76.107	65.035	68.558	72.137	73.945	74.299
70.0	105.446	100.992	89.957	75.436	64.233	67.645	71.373	73.162	73.591
70.5	104.757	100.358	89.230	74.709	63.451	66.843	70.552	72.416	72.621
71.0	104.160	99.761	88.708	73.870	62.686	66.042	69.732	71.559	71.969
71.5	103.694	99.295	88.055	73.218	61.941	65.240	68.931	70.832	71.205
72.0	103.154	98.680	87.366	72.454	61.214	64.383	68.185	70.030	70.459
72.5	102.650	98.102	86.788	71.671	60.450	63.637	67.402	69.322	69.676
73.0	102.035	97.543	86.154	71.056	59.704	62.835	66.675	68.521	68.949
73.5	101.458	97.021	85.502	70.291	58.958	62.034	65.874	67.831	68.185
74.0	101.066	96.406	84.905	69.546	58.250	61.270	65.165	67.085	67.495
74.5	100.637	95.828	84.234	68.931	57.448	60.487	64.420	66.358	66.731
75.0	100.022	95.362	83.656	68.278	56.796	59.797	63.730	65.687	65.967
75.5	99.407	94.784	83.134	67.533	56.088	59.089	62.985	64.886	65.277
76.0	98.904	94.262	82.557	66.899	55.324	58.287	62.239	64.196	64.532
76.5	98.307	93.741	81.904	66.265	54.597	57.635	61.531	63.488	63.879
77.0	97.711	93.181	81.438	65.594	53.963	56.927	60.785	62.835	63.208
77.5	97.413	92.734	80.823	64.904	53.217	56.144	60.114	62.090	62.593
78.0	96.853	92.175	80.171	64.308	52.602	55.510	59.443	61.400	61.848
78.5	96.220	91.616	79.705	63.562	51.875	54.820	58.772	60.729	61.195
79.0	95.884	91.094	79.145	63.022	51.204	54.075	58.064	60.077	60.394
79.5	95.232	90.590	78.512	62.463	50.533	53.385	57.393	59.368	59.778
80.0	94.934	90.068	78.046	61.736	49.899	52.714	56.722	58.716	59.126
80.5	94.393	89.621	77.449	61.176	49.303	52.062	56.013	58.120	58.548
81.0	93.852	89.136	76.909	60.580	48.650	51.390	55.454	57.430	57.784
81.5	93.498	88.559	76.424	59.984	48.110	50.831	54.820	56.815	57.169
82.0	92.883	88.074	75.846	59.462	47.495	50.160	54.112	56.256	56.591
82.5	92.473	87.683	75.268	58.921	46.861	49.471	53.515	55.622	55.976

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**CANDELA TABULATION - (Cont.)**

83.0	91.858	87.105	74.821	58.306	46.246	48.911	52.919	54.988	55.324
83.5	91.411	86.695	74.318	57.747	45.687	48.334	52.285	54.336	54.671
84.0	91.019	86.247	73.758	57.281	45.109	47.700	51.726	53.795	54.056
84.5	90.534	85.707	73.348	56.684	44.568	47.103	51.092	53.124	53.422
85.0	90.143	85.222	72.864	56.200	44.065	46.507	50.552	52.583	52.975
85.5	89.714	84.775	72.323	55.696	43.468	45.873	50.030	51.987	52.322
86.0	89.267	84.309	71.857	55.156	42.984	45.370	49.359	51.279	51.856
86.5	88.801	83.936	71.484	54.690	42.443	44.792	48.800	50.757	51.092
87.0	88.298	83.470	70.944	54.336	41.959	44.251	48.296	50.272	50.570
87.5	87.888	82.985	70.552	53.776	41.586	43.748	47.737	49.657	50.086
88.0	87.496	82.706	70.161	53.422	41.027	43.245	47.252	49.154	49.471
88.5	87.067	82.277	69.732	53.031	40.691	42.742	46.730	48.650	48.930
89.0	86.993	82.035	69.415	52.602	40.300	42.387	46.227	48.073	48.315
89.5	87.030	82.016	69.415	52.565	40.020	42.015	45.761	47.607	47.849
90.0	86.862	82.128	69.546	52.639	40.169	41.921	45.575	47.327	47.532
90.5	87.142	82.240	69.564	52.695	40.169	41.959	45.463	47.178	47.439
91.0	87.384	82.314	69.676	52.807	40.132	41.959	45.370	47.103	47.346
91.5	87.459	82.538	69.770	52.919	40.262	41.977	45.351	47.066	47.178
92.0	87.608	82.519	69.956	52.882	40.281	41.977	45.258	46.917	47.122
92.5	87.720	82.668	70.030	53.031	40.393	41.921	45.183	46.768	46.991
93.0	87.869	82.799	70.030	53.161	40.356	41.810	45.183	46.712	46.917
93.5	88.093	82.892	70.291	53.217	40.542	41.828	45.183	46.637	46.786
94.0	88.186	83.078	70.366	53.366	40.505	41.791	45.016	46.563	46.637
94.5	88.316	83.134	70.478	53.404	40.598	41.698	45.072	46.432	46.414
95.0	88.596	83.265	70.552	53.497	40.598	41.698	44.941	46.171	46.283
95.5	88.559	83.470	70.646	53.609	40.654	41.679	44.848	46.097	46.227
96.0	88.782	83.563	70.776	53.683	40.691	41.642	44.755	46.004	45.985
96.5	88.894	83.656	71.000	53.739	40.803	41.586	44.643	45.798	45.873
97.0	89.025	83.787	70.962	53.870	40.784	41.549	44.587	45.668	45.631
97.5	89.118	83.899	71.074	54.019	40.803	41.455	44.531	45.631	45.538
98.0	89.323	83.917	71.205	54.000	40.952	41.493	44.363	45.444	45.388
98.5	89.342	84.085	71.298	54.168	40.971	41.381	44.307	45.314	45.202
99.0	89.453	84.197	71.298	54.317	41.027	41.269	44.270	45.165	45.053
99.5	89.584	84.234	71.428	54.261	41.064	41.269	44.065	45.016	44.792
100.0	89.621	84.327	71.484	54.373	41.157	41.194	44.028	44.885	44.680
100.5	89.770	84.346	71.503	54.466	41.176	41.138	43.972	44.699	44.494
101.0	89.752	84.402	71.578	54.578	41.269	41.064	43.860	44.494	44.307
101.5	89.957	84.439	71.652	54.615	41.306	40.933	43.729	44.382	44.046
102.0	89.882	84.495	71.634	54.708	41.455	40.896	43.599	44.177	43.972
102.5	89.938	84.495	71.652	54.727	41.455	40.840	43.431	43.990	43.785
103.0	89.957	84.551	71.689	54.802	41.567	40.691	43.282	43.841	43.618
103.5	89.957	84.570	71.652	54.913	41.530	40.635	43.170	43.729	43.282
104.0	90.106	84.588	71.578	54.802	41.567	40.542	43.002	43.543	43.208
104.5	90.143	84.663	71.596	54.913	41.604	40.430	42.779	43.319	42.909
105.0	89.975	84.682	71.559	54.969	41.716	40.318	42.574	43.189	42.704
105.5	90.068	84.570	71.540	54.858	41.754	40.225	42.369	42.947	42.462
106.0	90.143	84.588	71.596	54.895	41.698	40.151	42.164	42.686	42.313
106.5	90.106	84.626	71.559	54.895	41.754	40.057	41.977	42.499	42.070
107.0	90.162	84.626	71.503	54.876	41.698	39.983	41.754	42.220	41.884
107.5	90.106	84.570	71.484	54.858	41.698	39.871	41.567	41.996	41.567
108.0	90.106	84.551	71.447	54.951	41.754	39.647	41.362	41.623	41.250
108.5	90.143	84.532	71.484	54.858	41.679	39.610	41.176	41.399	40.915
109.0	89.975	84.514	71.391	54.858	41.716	39.405	40.971	41.083	40.710
109.5	90.031	84.383	71.298	54.783	41.623	39.349	40.766	40.840	40.244
110.0	89.938	84.402	71.242	54.783	41.679	39.256	40.561	40.467	40.095
110.5	89.957	84.253	71.242	54.764	41.604	39.144	40.300	40.281	39.629

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**CANDELA TABULATION - (Cont.)**

111.0	89.845	84.271	71.168	54.820	41.623	39.032	40.132	39.964	39.293
111.5	89.789	84.216	71.168	54.746	41.530	38.939	39.834	39.703	39.125
112.0	89.565	84.178	71.093	54.727	41.511	38.753	39.647	39.368	38.715
112.5	89.621	84.104	70.944	54.671	41.549	38.697	39.480	39.107	38.342
113.0	89.584	83.992	70.944	54.615	41.530	38.529	39.274	38.827	38.007
113.5	89.472	83.899	70.851	54.541	41.474	38.454	38.976	38.436	37.746
114.0	89.323	83.843	70.720	54.541	41.455	38.361	38.790	38.231	37.448
114.5	89.360	83.731	70.664	54.447	41.437	38.175	38.603	37.802	37.075
115.0	89.136	83.600	70.496	54.373	41.344	38.063	38.212	37.392	36.646
115.5	89.062	83.619	70.422	54.317	41.362	37.914	38.119	37.019	36.311
116.0	88.876	83.358	70.273	54.186	41.213	37.895	37.802	36.516	35.919
116.5	88.894	83.284	70.180	54.168	41.269	37.671	37.485	36.124	35.528
117.0	88.652	83.153	70.030	54.075	41.176	37.597	37.355	35.770	34.857
117.5	88.447	82.967	69.975	53.981	41.083	37.466	37.150	35.267	34.503
118.0	88.335	82.836	69.751	53.832	41.008	37.299	36.851	34.894	33.906
118.5	88.167	82.762	69.639	53.758	40.896	37.168	36.590	34.484	33.477
119.0	87.944	82.519	69.509	53.720	40.840	37.056	36.441	34.055	32.956
119.5	87.757	82.407	69.378	53.627	40.840	36.944	36.106	33.571	32.396
120.0	87.589	82.296	69.266	53.478	40.710	36.814	35.957	33.067	31.893
120.5	87.459	81.997	69.117	53.292	40.617	36.628	35.677	32.620	31.408
121.0	87.272	81.867	68.893	53.292	40.467	36.497	35.379	32.210	30.905
121.5	86.937	81.736	68.707	53.199	40.467	36.311	35.248	31.800	30.383
122.0	86.788	81.457	68.577	52.975	40.412	36.162	34.987	31.334	29.843
122.5	86.527	81.270	68.446	52.844	40.262	36.106	34.745	30.942	29.395
123.0	86.322	81.103	68.204	52.788	40.169	35.882	34.540	30.514	28.892
123.5	86.042	80.748	67.999	52.546	40.095	35.770	34.335	30.141	28.277
124.0	86.005	80.488	67.868	52.472	40.057	35.658	33.999	29.694	27.867
124.5	85.539	80.301	67.663	52.341	39.908	35.472	33.832	29.321	27.419
125.0	85.222	80.003	67.477	52.192	39.778	35.435	33.664	28.911	26.953
125.5	84.905	79.761	67.197	51.987	39.685	35.267	33.459	28.556	26.599
126.0	84.532	79.425	66.992	51.875	39.647	35.192	33.328	28.240	26.208
126.5	84.383	79.108	66.750	51.689	39.554	35.099	33.086	27.867	25.816
127.0	83.824	78.866	66.545	51.596	39.498	35.006	32.806	27.569	25.425
127.5	83.451	78.493	66.265	51.428	39.424	34.857	32.657	27.308	25.127
128.0	83.190	78.158	66.023	51.223	39.293	34.820	32.490	26.898	24.791
128.5	82.780	77.785	65.762	51.111	39.293	34.782	32.247	26.562	24.474
129.0	82.370	77.580	65.538	50.906	39.125	34.614	32.061	26.189	24.157
129.5	82.091	77.170	65.221	50.775	39.051	34.503	31.930	25.872	23.952
130.0	81.550	76.909	64.960	50.514	38.976	34.298	31.595	25.574	23.654
130.5	81.233	76.536	64.662	50.384	38.976	34.242	31.464	25.294	23.263
131.0	80.860	76.163	64.383	50.272	38.790	34.130	31.278	25.034	23.095
131.5	80.543	75.846	64.140	50.030	38.715	34.055	31.054	24.679	22.927
132.0	80.003	75.473	63.786	49.974	38.659	33.981	30.868	24.418	22.610
132.5	79.518	74.989	63.525	49.694	38.548	33.869	30.737	24.139	22.331
133.0	79.183	74.635	63.227	49.471	38.380	33.757	30.514	23.896	22.275
133.5	78.679	74.262	62.910	49.321	38.361	33.664	30.346	23.710	21.995
134.0	78.269	73.814	62.612	49.098	38.193	33.627	30.141	23.449	21.902
134.5	77.878	73.404	62.295	48.855	38.175	33.515	30.010	23.170	21.660
135.0	77.412	73.013	61.903	48.632	38.026	33.366	29.824	23.002	21.473
135.5	76.965	72.510	61.661	48.445	37.914	33.384	29.638	22.797	21.287
136.0	76.461	72.249	61.288	48.222	37.783	33.179	29.414	22.461	21.045
136.5	75.995	71.820	60.971	48.073	37.690	33.086	29.209	22.312	20.802
137.0	75.473	71.317	60.636	47.793	37.597	32.974	29.134	22.088	20.541
137.5	74.951	70.888	60.300	47.588	37.410	32.881	28.855	21.827	20.448
138.0	74.392	70.441	59.946	47.402	37.373	32.713	28.762	21.716	20.392
138.5	73.964	69.956	59.648	47.159	37.261	32.713	28.687	21.529	20.150

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**CANDELA TABULATION - (Cont.)**

139.0	73.404	69.564	59.257	46.880	37.056	32.657	28.426	21.268	20.001
139.5	72.920	69.061	58.884	46.656	36.963	32.527	28.296	21.119	19.814
140.0	72.547	68.614	58.380	46.470	36.907	32.490	28.165	20.914	19.628
140.5	72.025	68.073	58.120	46.115	36.684	32.322	27.923	20.765	19.460
141.0	71.503	67.719	57.709	45.985	36.609	32.191	27.848	20.504	19.236
141.5	71.056	67.123	57.374	45.687	36.460	32.173	27.662	20.318	19.050
142.0	70.515	66.675	56.945	45.388	36.273	32.061	27.513	20.094	18.826
142.5	69.863	66.209	56.591	45.165	36.162	31.930	27.419	20.001	18.603
143.0	69.341	65.669	56.181	44.866	36.031	31.893	27.289	19.702	18.547
143.5	68.782	65.128	55.734	44.568	35.882	31.725	27.065	19.535	18.379
144.0	68.260	64.625	55.342	44.345	35.677	31.595	27.028	19.386	18.267
144.5	67.700	64.103	54.951	44.102	35.546	31.632	26.991	19.274	18.137
145.0	67.104	63.656	54.597	43.729	35.379	31.483	26.786	19.031	18.044
145.5	66.563	63.134	54.186	43.524	35.267	31.352	26.655	18.938	18.025
146.0	65.948	62.574	53.739	43.245	35.080	31.203	26.599	18.808	18.137
146.5	65.408	61.997	53.273	42.947	34.875	31.147	26.432	18.528	18.118
147.0	64.867	61.493	52.919	42.648	34.689	31.036	26.450	18.398	18.062
147.5	64.308	60.860	52.490	42.350	34.633	30.942	26.282	18.286	18.118
148.0	63.637	60.338	52.024	42.070	34.391	30.812	26.171	18.137	18.155
148.5	63.003	59.834	51.633	41.754	34.298	30.700	26.077	17.969	18.193
149.0	62.332	59.331	51.167	41.493	34.074	30.626	26.040	17.801	18.286
149.5	61.866	58.753	50.719	41.120	33.869	30.570	25.928	17.727	18.379
150.0	61.232	58.120	50.272	40.859	33.645	30.383	25.835	17.596	18.360
150.5	60.617	57.635	49.806	40.561	33.533	30.346	25.779	17.522	18.472
151.0	60.021	56.964	49.396	40.188	33.328	30.197	25.667	17.503	18.603
151.5	59.480	56.423	48.967	39.927	33.142	30.122	25.574	17.354	18.528
152.0	58.697	55.920	48.464	39.666	32.974	29.973	25.500	17.186	18.491
152.5	58.064	55.268	48.054	39.274	32.750	29.899	25.350	17.167	18.565
153.0	57.579	54.652	47.495	38.883	32.601	29.805	25.369	17.093	18.547
153.5	56.833	54.112	47.103	38.585	32.378	29.656	25.332	17.074	18.621
154.0	56.200	53.515	46.600	38.287	32.191	29.526	25.183	17.037	18.565
154.5	55.510	52.882	46.078	37.914	32.024	29.395	25.183	17.037	18.528
155.0	54.820	52.229	45.631	37.560	31.856	29.246	25.071	17.018	18.528
155.5	54.205	51.596	45.165	37.187	31.632	29.134	24.922	17.056	18.640
156.0	53.609	51.036	44.661	36.926	31.408	29.060	24.922	17.074	18.640
156.5	52.788	50.421	44.121	36.516	31.278	28.892	24.922	17.000	18.752
157.0	52.285	49.843	43.692	36.124	30.980	28.780	24.810	16.851	18.715
157.5	51.558	49.210	43.152	35.770	30.737	28.594	24.773	16.776	18.621
158.0	50.906	48.520	42.723	35.472	30.570	28.501	24.754	16.646	18.621
158.5	50.328	47.979	42.276	35.062	30.290	28.351	24.661	16.403	18.603
159.0	49.601	47.383	41.698	34.689	30.066	28.146	24.623	16.310	18.621
159.5	48.930	46.712	41.213	34.372	29.843	28.090	24.586	16.086	18.640
160.0	48.240	46.041	40.691	33.906	29.600	27.885	24.456	16.068	18.621
160.5	47.625	45.426	40.206	33.552	29.395	27.811	24.344	15.974	18.603
161.0	46.898	44.755	39.647	33.216	29.190	27.624	24.232	15.937	18.752
161.5	46.115	44.121	39.181	32.732	28.911	27.475	24.064	15.714	18.826
162.0	45.388	43.487	38.548	32.322	28.687	27.289	23.896	15.564	18.920
162.5	44.699	42.835	38.063	32.005	28.556	27.158	23.636	15.397	18.920
163.0	44.009	42.145	37.541	31.576	28.202	26.972	23.058	15.285	18.957
163.5	43.263	41.530	36.963	31.203	28.053	26.786	22.443	15.005	19.069
164.0	42.648	40.840	36.460	30.849	27.830	26.730	21.678	14.539	19.013
164.5	41.884	40.132	35.919	30.346	27.550	26.506	20.728	14.129	18.659
165.0	41.157	39.424	35.379	29.954	27.289	26.152	19.852	13.924	18.099
165.5	40.374	38.790	34.820	29.507	27.047	25.742	18.920	13.831	17.354
166.0	39.703	38.100	34.242	29.153	26.730	25.089	17.801	13.756	16.496
166.5	38.902	37.373	33.589	28.762	26.376	24.195	16.869	13.570	15.285

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**CANDELA TABULATION - (Cont.)**

<b>167.0</b>	38.082	36.684	33.067	28.389	25.816	23.244	16.124	13.477	13.850
<b>167.5</b>	37.355	35.994	32.527	27.923	25.015	22.107	15.378	13.085	12.601
<b>168.0</b>	36.516	35.174	31.781	27.569	23.896	20.877	14.912	12.824	11.109
<b>168.5</b>	35.752	34.447	31.222	27.121	22.909	19.721	14.614	12.507	9.730
<b>169.0</b>	34.969	33.776	30.700	26.450	21.566	18.491	14.278	11.892	8.090
<b>169.5</b>	34.148	33.067	30.010	25.630	20.374	17.298	14.148	11.221	6.338
<b>170.0</b>	33.291	32.303	29.321	24.530	19.031	16.385	13.887	10.252	4.716
<b>170.5</b>	32.471	31.334	28.594	23.393	17.894	15.788	13.514	9.059	3.411
<b>171.0</b>	31.632	30.439	27.531	22.200	16.944	15.192	13.216	8.015	2.088
<b>171.5</b>	30.868	29.675	26.618	20.951	16.291	14.856	12.694	7.120	1.379
<b>172.0</b>	29.973	28.817	25.723	19.758	15.714	14.614	11.799	6.058	1.230
<b>172.5</b>	29.209	27.643	24.474	18.882	15.210	14.185	10.755	5.014	1.212
<b>173.0</b>	27.867	26.581	23.281	18.062	14.782	13.700	9.693	4.008	1.156
<b>173.5</b>	26.264	25.369	21.939	17.093	14.241	12.712	8.295	3.392	0.988
<b>174.0</b>	25.406	23.803	20.392	16.310	13.794	11.277	6.860	3.132	0.857
<b>174.5</b>	24.008	22.293	18.994	15.415	12.955	9.842	5.480	2.815	0.727
<b>175.0</b>	22.331	20.672	17.652	14.297	11.743	8.202	4.380	2.572	0.559
<b>175.5</b>	20.150	18.789	16.068	13.160	10.252	6.412	3.747	2.125	0.410
<b>176.0</b>	17.969	16.701	14.502	11.799	8.668	4.865	3.318	1.771	0.541
<b>176.5</b>	15.620	14.353	12.657	9.879	6.822	3.747	2.833	1.249	0.429
<b>177.0</b>	12.880	11.967	10.588	7.922	5.163	3.150	2.386	0.820	0.354
<b>177.5</b>	10.047	9.283	8.630	6.170	3.803	2.777	2.013	0.541	0.354
<b>178.0</b>	7.027	6.505	6.580	4.194	2.796	2.311	1.584	0.447	0.596
<b>178.5</b>	4.474	4.157	4.343	2.666	2.255	1.901	1.193	0.485	0.410
<b>179.0</b>	2.628	2.498	2.330	1.659	1.752	1.510	0.932	0.447	0.466
<b>179.5</b>	0.932	1.417	0.895	0.895	1.212	1.212	0.578	0.466	0.652
<b>180.0</b>	0.671	0.671	0.671	0.671	0.671	0.671	0.671	0.671	0.671



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : CLD 2 LIGHT.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	75.98	N.A.	7.40
0-30	174.48	N.A.	16.90
0-40	293.60	N.A.	28.50
0-60	502.39	N.A.	48.70
0-80	664.67	N.A.	64.40
0-90	730.24	N.A.	70.80
10-90	713.03	N.A.	69.10
20-40	217.62	N.A.	21.10
20-50	329.90	N.A.	32.00
40-70	294.83	N.A.	28.60
60-80	162.28	N.A.	15.70
70-80	76.24	N.A.	7.40
80-90	65.57	N.A.	6.40
90-110	119.89	N.A.	11.60
90-120	172.74	N.A.	16.70
90-130	216.91	N.A.	21.00
90-150	276.51	N.A.	26.80
90-180	301.74	N.A.	29.20
110-180	181.85	N.A.	17.60
0-180	1031.98	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	17.22
10-20	58.77
20-30	98.50
30-40	119.12
40-50	112.28
50-60	96.51
60-70	86.04
70-80	76.24
80-90	65.57
90-100	61.10
100-110	58.79
110-120	52.85
120-130	44.18
130-140	34.62
140-150	24.98
150-160	16.00
160-170	7.86
170-180	1.37

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : CLD 2 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	61	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

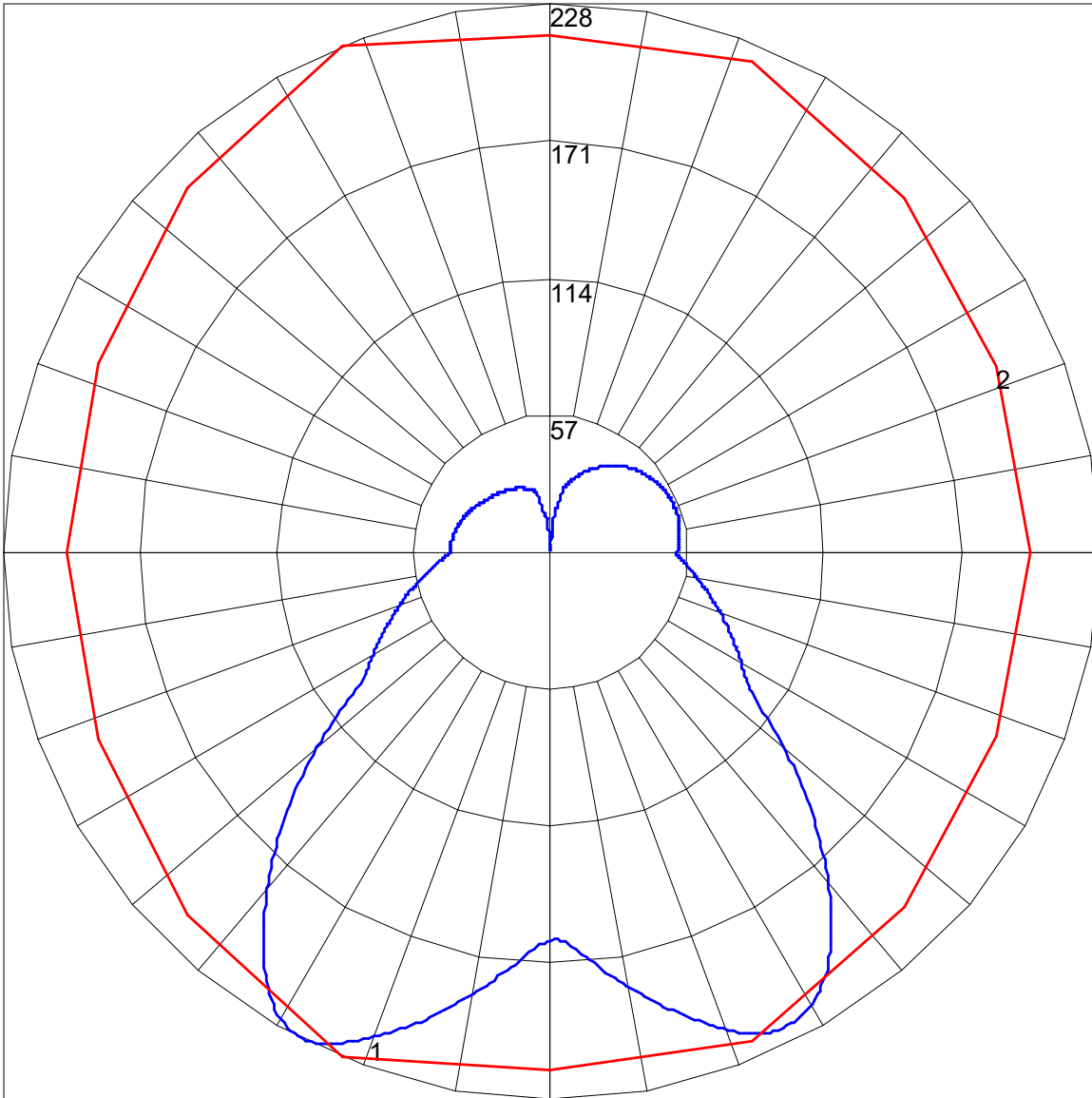
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : CLD 2 LIGHT.IES**

**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	12.6	13.8	13.4	14.6	15.5	10.9	12.0	11.6	12.8	13.7
	3H	14.9	16.0	15.7	16.8	17.7	12.7	13.8	13.5	14.5	15.5
	4H	16.1	17.1	16.8	17.8	18.8	13.5	14.5	14.3	15.3	16.3
	6H	17.1	18.1	17.9	18.9	19.9	14.2	15.2	15.0	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	19.0	19.0	19.8	20.8	14.9	15.7	15.7	16.6	17.6
4H	2H	13.3	14.3	14.0	15.0	16.0	11.8	12.8	12.6	13.6	14.6
	3H	15.8	16.7	16.6	17.5	18.5	13.9	14.7	14.6	15.5	16.5
	4H	17.1	17.9	17.9	18.7	19.7	14.8	15.6	15.6	16.4	17.4
	6H	18.4	19.1	19.2	19.9	20.9	15.7	16.4	16.5	17.2	18.2
	8H	19.0	19.6	19.8	20.5	21.5	16.1	16.7	16.9	17.6	18.6
	12H	19.6	20.2	20.4	21.1	22.1	16.5	17.1	17.3	17.9	19.0
8H	4H	17.5	18.2	18.3	19.0	20.0	15.5	16.1	16.3	17.0	18.0
	6H	19.0	19.6	19.8	20.4	21.5	16.6	17.1	17.4	18.0	19.0
	8H	19.8	20.3	20.6	21.1	22.2	17.1	17.6	17.9	18.5	19.5
	12H	20.5	21.0	21.4	21.9	23.0	17.6	18.1	18.5	18.9	20.0
12H	4H	17.6	18.2	18.4	19.0	20.1	15.6	16.2	16.5	17.1	18.2
	6H	19.1	19.6	20.0	20.5	21.6	16.8	17.3	17.7	18.2	19.3
	8H	20.0	20.4	20.8	21.3	22.4	17.4	17.9	18.3	18.8	19.9

Maximum UGR = 23.0

POLAR GRAPH



Maximum Candela = 227.893 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.)