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IES INDOOR REPORT

PHOTOMETRIC FILENAME : CNDL 1 LIGHT.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLI-18097-3

[TESTLAB] LightLab International (www.LightLabInternational.com)

[MANUFAC] Justice Design Group, Los Angeles, CA 90071

[LUMCAT] CandleAria (CNDL) 1-Light Wall Sconce

[LUMINAIRE] Justice Design Group - Wall mount bathroom luminaire. Product ID: CNDL 1-Light

[MORE] Steel formed housing and frosted resin lens with white interior.

[MORE] 10 LEDs mounted in circular array with white plastic dome lens.

[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: Wednesday, April 18, 2018 12:43:45 PM

[ISSUEDATE] Wednesday, April 18, 2018 12:43:45 PM

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	410
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	55
Total Luminaire Watts	7.48
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)	0.17 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	2193	2094	3610
55	1849	1618	2344
65	1654	1374	1751
75	1535	1218	1526
85	1478	1127	1369

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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	64.202	64.202	64.202	64.202	64.202	64.202	64.202	64.202	64.202
0.5	63.581	63.766	64.010	64.040	64.247	64.506	64.706	64.720	64.728
1.0	63.744	63.958	64.062	64.106	64.328	64.743	65.061	65.187	65.283
1.5	64.254	64.380	64.380	64.269	64.543	65.083	65.549	65.845	65.964
2.0	64.824	64.876	64.839	64.521	64.794	65.453	66.119	66.578	66.726
2.5	65.520	65.564	65.372	64.898	65.113	65.897	66.763	67.384	67.555
3.0	66.348	66.208	65.964	65.342	65.438	66.356	67.488	68.184	68.413
3.5	67.185	66.985	66.622	65.793	65.816	66.829	68.161	69.020	69.382
4.0	68.050	67.843	67.236	66.297	66.193	67.384	68.909	69.871	70.226
4.5	68.924	68.620	67.947	66.770	66.600	67.939	69.634	70.759	71.173
5.0	69.745	69.508	68.635	67.281	66.985	68.487	70.315	71.573	72.069
5.5	70.574	70.285	69.323	67.851	67.407	69.035	71.062	72.476	72.957
6.0	71.528	71.144	70.026	68.398	67.828	69.627	71.847	73.371	73.993
6.5	72.387	71.972	70.781	68.931	68.221	70.189	72.579	74.237	74.814
7.0	73.245	72.772	71.491	69.501	68.672	70.759	73.364	75.140	75.761
7.5	74.096	73.667	72.217	70.063	69.116	71.351	74.148	76.020	76.679
8.0	74.903	74.488	72.964	70.603	69.560	71.935	74.888	76.879	77.559
8.5	75.732	75.339	73.682	71.173	69.967	72.527	75.665	77.737	78.440
9.0	76.664	76.131	74.414	71.743	70.441	73.112	76.464	78.566	79.321
9.5	77.537	76.953	75.162	72.298	70.922	73.711	77.152	79.372	80.201
10.0	78.373	77.811	75.872	72.875	71.336	74.266	77.892	80.268	81.067
10.5	79.202	78.714	76.620	73.475	71.780	74.866	78.662	81.089	81.940
11.0	80.149	79.491	77.337	74.044	72.224	75.458	79.372	81.911	82.806
11.5	81.037	80.320	78.040	74.666	72.675	76.050	80.120	82.702	83.613
12.0	81.859	81.171	78.788	75.236	73.127	76.642	80.845	83.553	84.449
12.5	82.532	81.933	79.565	75.791	73.563	77.256	81.555	84.293	85.270
13.0	83.006	82.680	80.253	76.368	73.985	77.826	82.273	85.107	86.003
13.5	83.302	83.272	81.015	76.930	74.444	78.425	82.969	85.855	86.617
14.0	83.398	83.650	81.696	77.448	74.888	78.980	83.650	86.536	87.024
14.5	83.627	83.960	82.414	78.033	75.280	79.550	84.323	87.091	87.246
15.0	83.798	84.160	83.087	78.595	75.769	80.112	85.033	87.490	87.342
15.5	83.968	84.316	83.731	79.165	76.213	80.645	85.677	87.646	87.313
16.0	84.027	84.515	84.279	79.728	76.590	81.215	86.321	87.742	87.268
16.5	84.101	84.538	84.774	80.253	76.997	81.763	86.980	87.727	87.165
17.0	84.108	84.589	85.204	80.786	77.478	82.273	87.564	87.653	87.009
17.5	84.205	84.700	85.544	81.341	77.863	82.784	88.067	87.572	86.950
18.0	84.153	84.686	85.759	81.851	78.270	83.331	88.519	87.431	86.750
18.5	84.205	84.678	85.944	82.369	78.699	83.827	88.800	87.298	86.550
19.0	84.190	84.715	86.025	82.887	79.113	84.353	88.955	87.150	86.358
19.5	84.079	84.604	86.084	83.413	79.528	84.834	89.015	86.987	86.136
20.0	83.938	84.575	86.106	83.879	79.920	85.359	88.985	86.765	85.958
20.5	83.820	84.508	86.099	84.397	80.357	85.833	88.904	86.573	85.699
21.0	83.546	84.323	86.069	84.863	80.756	86.328	88.785	86.351	85.455
21.5	83.398	84.138	86.010	85.352	81.171	86.817	88.630	86.077	85.211
22.0	83.250	83.997	85.914	85.796	81.585	87.261	88.467	85.825	84.893
22.5	83.006	83.753	85.818	86.217	82.007	87.734	88.304	85.514	84.515
23.0	82.769	83.465	85.714	86.587	82.399	88.149	88.075	85.189	84.205
23.5	82.429	83.124	85.507	86.846	82.747	88.585	87.816	84.878	83.783
24.0	82.103	82.769	85.322	87.068	83.161	88.992	87.564	84.456	83.354
24.5	81.822	82.480	85.107	87.261	83.524	89.392	87.283	83.990	82.969
25.0	81.481	82.088	84.811	87.416	83.894	89.740	86.965	83.598	82.532
25.5	81.104	81.718	84.530	87.535	84.264	90.006	86.661	83.124	82.036
26.0	80.690	81.296	84.182	87.564	84.582	90.243	86.262	82.614	81.563
26.5	80.297	80.860	83.820	87.653	84.922	90.391	85.899	82.125	81.000

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CANDELA TABULATION - (Cont.)

27.0	79.757	80.379	83.413	87.623	85.233	90.458	85.492	81.555	80.468
27.5	79.387	79.972	82.991	87.564	85.537	90.472	85.011	81.030	79.920
28.0	78.840	79.476	82.495	87.424	85.818	90.413	84.530	80.445	79.328
28.5	78.314	78.899	81.992	87.268	86.136	90.236	84.005	79.846	78.692
29.0	77.811	78.351	81.496	86.987	86.447	90.006	83.435	79.202	78.055
29.5	77.256	77.833	80.934	86.698	86.728	89.695	82.858	78.558	77.404
30.0	76.701	77.263	80.334	86.343	86.957	89.303	82.236	77.900	76.686
30.5	76.005	76.671	79.720	85.907	87.253	88.881	81.541	77.189	75.939
31.0	75.458	76.124	79.076	85.522	87.483	88.408	80.867	76.464	75.236
31.5	74.866	75.495	78.455	85.063	87.742	87.890	80.157	75.754	74.444
32.0	74.163	74.836	77.833	84.530	87.993	87.290	79.432	75.006	73.704
32.5	73.526	74.215	77.101	84.012	88.141	86.632	78.669	74.207	72.831
33.0	72.838	73.519	76.420	83.398	88.326	85.914	77.929	73.393	72.024
33.5	72.046	72.883	75.732	82.747	88.467	85.211	77.160	72.557	71.062
34.0	71.403	72.150	74.969	82.133	88.423	84.367	76.331	71.750	70.248
34.5	70.714	71.440	74.259	81.370	88.312	83.561	75.524	70.892	69.353
35.0	69.900	70.692	73.489	80.608	87.942	82.717	74.644	70.019	68.398
35.5	69.175	70.004	72.749	79.824	87.438	81.844	73.815	69.138	67.458
36.0	68.406	69.197	71.950	79.002	86.787	80.919	72.949	68.184	66.563
36.5	67.592	68.443	71.203	78.114	86.018	80.038	72.069	67.310	65.579
37.0	66.874	67.688	70.404	77.204	85.048	79.047	71.166	66.393	64.639
37.5	66.104	66.896	69.560	76.279	83.835	78.077	70.248	65.416	63.640
38.0	65.290	66.082	68.790	75.354	82.495	77.101	69.345	64.454	62.656
38.5	64.506	65.275	67.947	74.363	81.104	76.072	68.361	63.440	61.701
39.0	63.714	64.506	67.140	73.378	79.668	75.088	67.429	62.478	60.732
39.5	62.959	63.677	66.304	72.357	78.233	74.052	66.459	61.464	59.711
40.0	62.308	62.885	65.446	71.343	76.790	73.031	65.505	60.473	58.756
40.5	61.553	62.079	64.587	70.344	75.421	71.980	64.491	59.474	57.764
41.0	60.791	61.302	63.751	69.294	74.052	70.951	63.507	58.475	56.810
41.5	60.221	60.539	62.856	68.317	72.727	69.900	62.486	57.461	55.892
42.0	59.600	59.777	61.982	67.288	71.499	68.850	61.479	56.469	54.967
42.5	59.082	59.022	61.087	66.252	70.233	67.777	60.428	55.493	54.079
43.0	58.638	58.319	60.214	65.231	69.042	66.726	59.378	54.538	53.154
43.5	58.253	57.713	59.311	64.158	67.925	65.623	58.349	53.620	52.385
44.0	57.935	57.098	58.438	63.107	66.807	64.513	57.254	52.651	51.637
44.5	57.461	56.625	57.557	62.116	65.727	63.425	56.196	51.800	50.934
45.0	57.069	56.166	56.654	60.998	64.646	62.271	55.123	50.979	50.364
45.5	56.699	55.729	55.826	59.970	63.640	61.176	54.109	50.231	49.802
46.0	56.292	55.367	54.960	58.919	62.574	60.007	53.058	49.536	49.269
46.5	55.863	54.952	54.116	57.868	61.575	58.837	52.015	48.929	48.707
47.0	55.426	54.516	53.332	56.758	60.502	57.676	50.934	48.366	48.137
47.5	55.041	54.131	52.518	55.692	59.415	56.477	49.950	47.804	47.567
48.0	54.649	53.739	51.822	54.627	58.327	55.285	48.966	47.271	46.975
48.5	54.220	53.287	51.141	53.502	57.202	54.057	47.982	46.709	46.479
49.0	53.872	52.888	50.557	52.451	56.055	52.888	47.079	46.169	45.947
49.5	53.472	52.473	49.957	51.341	54.878	51.667	46.206	45.614	45.392
50.0	53.080	52.081	49.432	50.268	53.680	50.505	45.436	45.103	44.896
50.5	52.688	51.659	48.892	49.240	52.422	49.299	44.711	44.548	44.378
51.0	52.333	51.282	48.433	48.233	51.164	48.085	44.052	44.045	43.830
51.5	52.007	50.853	48.019	47.108	49.898	46.909	43.468	43.505	43.364
52.0	51.578	50.505	47.649	46.124	48.559	45.739	42.913	43.038	42.883
52.5	51.282	50.120	47.234	45.133	47.190	44.585	42.439	42.528	42.395
53.0	50.912	49.721	46.842	44.111	45.895	43.445	41.906	42.002	41.914
53.5	50.601	49.358	46.435	43.231	44.555	42.365	41.410	41.618	41.425
54.0	50.283	49.032	46.058	42.321	43.246	41.292	40.937	41.085	40.989
54.5	49.861	48.648	45.658	41.492	42.002	40.308	40.456	40.633	40.589

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CANDELA TABULATION - (Cont.)

55.0	49.528	48.352	45.273	40.744	40.737	39.309	39.982	40.160	40.115
55.5	49.306	48.019	44.881	40.123	39.546	38.376	39.509	39.731	39.723
56.0	49.003	47.678	44.518	39.486	38.347	37.592	39.035	39.294	39.279
56.5	48.699	47.338	44.111	38.976	37.229	36.845	38.576	38.872	38.850
57.0	48.440	47.064	43.749	38.428	36.186	36.275	38.147	38.436	38.450
57.5	48.130	46.694	43.386	37.910	35.150	35.823	37.703	38.014	38.051
58.0	47.885	46.398	43.001	37.533	34.188	35.453	37.229	37.614	37.644
58.5	47.545	46.124	42.676	37.244	33.344	35.061	36.808	37.200	37.215
59.0	47.316	45.813	42.335	36.896	32.627	34.699	36.393	36.778	36.837
59.5	47.027	45.517	41.980	36.593	32.035	34.343	35.949	36.415	36.497
60.0	46.716	45.244	41.655	36.275	31.591	33.973	35.564	36.016	36.068
60.5	46.442	44.962	41.336	35.949	31.221	33.581	35.150	35.601	35.735
61.0	46.198	44.674	41.003	35.609	30.917	33.196	34.728	35.239	35.305
61.5	45.998	44.422	40.626	35.305	30.643	32.834	34.358	34.854	34.987
62.0	45.702	44.126	40.345	34.928	30.384	32.479	33.951	34.484	34.580
62.5	45.429	43.845	40.027	34.625	30.081	32.094	33.589	34.121	34.195
63.0	45.192	43.571	39.694	34.292	29.792	31.724	33.219	33.707	33.877
63.5	44.881	43.297	39.398	33.966	29.496	31.354	32.841	33.389	33.485
64.0	44.637	43.061	39.124	33.655	29.193	31.021	32.449	33.034	33.152
64.5	44.459	42.794	38.798	33.307	28.882	30.643	32.109	32.693	32.789
65.0	44.208	42.528	38.554	32.997	28.586	30.303	31.746	32.323	32.449
65.5	43.926	42.269	38.221	32.701	28.275	29.911	31.346	32.020	32.101
66.0	43.682	42.039	37.955	32.375	27.972	29.578	31.013	31.665	31.768
66.5	43.468	41.758	37.659	32.035	27.676	29.237	30.643	31.317	31.457
67.0	43.238	41.544	37.370	31.783	27.321	28.867	30.266	30.969	31.110
67.5	42.964	41.285	37.074	31.472	27.047	28.505	29.963	30.643	30.769
68.0	42.728	41.018	36.815	31.117	26.758	28.216	29.630	30.303	30.466
68.5	42.520	40.774	36.549	30.843	26.433	27.831	29.282	30.007	30.177
69.0	42.306	40.559	36.260	30.540	26.115	27.535	28.978	29.674	29.792
69.5	42.069	40.308	36.001	30.214	25.819	27.217	28.638	29.356	29.496
70.0	41.862	40.093	35.712	29.948	25.500	26.855	28.335	29.045	29.215
70.5	41.588	39.842	35.424	29.659	25.190	26.536	28.009	28.749	28.830
71.0	41.351	39.605	35.217	29.326	24.886	26.218	27.683	28.409	28.571
71.5	41.166	39.420	34.958	29.067	24.590	25.900	27.365	28.120	28.268
72.0	40.952	39.176	34.684	28.764	24.302	25.560	27.069	27.802	27.972
72.5	40.752	38.946	34.454	28.453	23.998	25.264	26.758	27.521	27.661
73.0	40.508	38.724	34.203	28.209	23.702	24.945	26.470	27.202	27.373
73.5	40.278	38.517	33.944	27.905	23.406	24.627	26.152	26.929	27.069
74.0	40.123	38.273	33.707	27.609	23.125	24.324	25.870	26.633	26.795
74.5	39.953	38.043	33.441	27.365	22.807	24.013	25.574	26.344	26.492
75.0	39.708	37.858	33.211	27.106	22.548	23.739	25.301	26.078	26.189
75.5	39.464	37.629	33.004	26.810	22.267	23.458	25.005	25.759	25.915
76.0	39.264	37.422	32.775	26.559	21.963	23.140	24.709	25.486	25.619
76.5	39.028	37.215	32.516	26.307	21.675	22.881	24.427	25.204	25.360
77.0	38.791	36.993	32.331	26.041	21.423	22.600	24.131	24.945	25.093
77.5	38.672	36.815	32.086	25.767	21.127	22.289	23.865	24.649	24.849
78.0	38.450	36.593	31.827	25.530	20.883	22.037	23.599	24.376	24.553
78.5	38.199	36.371	31.642	25.234	20.594	21.763	23.332	24.109	24.294
79.0	38.066	36.164	31.420	25.019	20.328	21.467	23.051	23.850	23.976
79.5	37.807	35.964	31.169	24.797	20.061	21.194	22.785	23.569	23.732
80.0	37.688	35.757	30.984	24.509	19.810	20.927	22.518	23.310	23.473
80.5	37.474	35.579	30.747	24.287	19.573	20.668	22.237	23.073	23.243
81.0	37.259	35.387	30.532	24.050	19.314	20.402	22.015	22.799	22.940
81.5	37.118	35.157	30.340	23.813	19.099	20.180	21.763	22.555	22.696
82.0	36.874	34.965	30.111	23.606	18.855	19.913	21.482	22.333	22.466
82.5	36.711	34.810	29.881	23.391	18.604	19.640	21.245	22.082	22.222

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CANDELA TABULATION - (Cont.)

83.0	36.467	34.580	29.704	23.147	18.359	19.418	21.009	21.830	21.963
83.5	36.290	34.417	29.504	22.925	18.137	19.188	20.757	21.571	21.704
84.0	36.134	34.240	29.282	22.740	17.908	18.937	20.535	21.356	21.460
84.5	35.942	34.025	29.119	22.503	17.693	18.700	20.283	21.090	21.208
85.0	35.786	33.833	28.927	22.311	17.494	18.463	20.069	20.875	21.031
85.5	35.616	33.655	28.712	22.111	17.257	18.211	19.862	20.639	20.772
86.0	35.439	33.470	28.527	21.897	17.064	18.012	19.595	20.357	20.587
86.5	35.254	33.322	28.379	21.712	16.850	17.782	19.373	20.150	20.283
87.0	35.054	33.137	28.164	21.571	16.657	17.568	19.173	19.958	20.076
87.5	34.891	32.945	28.009	21.349	16.509	17.368	18.951	19.714	19.884
88.0	34.736	32.834	27.854	21.208	16.287	17.168	18.759	19.514	19.640
88.5	34.565	32.664	27.683	21.053	16.154	16.968	18.552	19.314	19.425
89.0	34.536	32.567	27.558	20.883	15.999	16.828	18.352	19.085	19.181
89.5	34.551	32.560	27.558	20.868	15.888	16.680	18.167	18.900	18.996
90.0	34.484	32.604	27.609	20.898	15.947	16.643	18.093	18.789	18.870
90.5	34.595	32.649	27.617	20.920	15.947	16.657	18.049	18.729	18.833
91.0	34.691	32.678	27.661	20.964	15.932	16.657	18.012	18.700	18.796
91.5	34.721	32.767	27.698	21.009	15.984	16.665	18.004	18.685	18.729
92.0	34.780	32.760	27.772	20.994	15.991	16.665	17.967	18.626	18.707
92.5	34.824	32.819	27.802	21.053	16.036	16.643	17.938	18.567	18.655
93.0	34.884	32.871	27.802	21.105	16.021	16.598	17.938	18.544	18.626
93.5	34.972	32.908	27.905	21.127	16.095	16.606	17.938	18.515	18.574
94.0	35.009	32.982	27.935	21.186	16.080	16.591	17.871	18.485	18.515
94.5	35.061	33.004	27.979	21.201	16.117	16.554	17.893	18.433	18.426
95.0	35.172	33.056	28.009	21.238	16.117	16.554	17.841	18.330	18.374
95.5	35.157	33.137	28.046	21.282	16.139	16.546	17.804	18.300	18.352
96.0	35.246	33.174	28.098	21.312	16.154	16.532	17.767	18.263	18.256
96.5	35.291	33.211	28.187	21.334	16.199	16.509	17.723	18.182	18.211
97.0	35.342	33.263	28.172	21.386	16.191	16.495	17.701	18.130	18.115
97.5	35.379	33.307	28.216	21.445	16.199	16.458	17.679	18.115	18.078
98.0	35.461	33.315	28.268	21.438	16.258	16.472	17.612	18.041	18.019
98.5	35.468	33.381	28.305	21.504	16.265	16.428	17.590	17.989	17.945
99.0	35.513	33.426	28.305	21.564	16.287	16.384	17.575	17.930	17.886
99.5	35.564	33.441	28.357	21.541	16.302	16.384	17.494	17.871	17.782
100.0	35.579	33.478	28.379	21.586	16.339	16.354	17.479	17.819	17.738
100.5	35.638	33.485	28.386	21.623	16.347	16.332	17.457	17.745	17.664
101.0	35.631	33.507	28.416	21.667	16.384	16.302	17.412	17.664	17.590
101.5	35.712	33.522	28.446	21.682	16.398	16.250	17.360	17.619	17.486
102.0	35.683	33.544	28.438	21.719	16.458	16.236	17.309	17.538	17.457
102.5	35.705	33.544	28.446	21.726	16.458	16.213	17.242	17.464	17.383
103.0	35.712	33.566	28.460	21.756	16.502	16.154	17.183	17.405	17.316
103.5	35.712	33.574	28.446	21.800	16.487	16.132	17.138	17.360	17.183
104.0	35.772	33.581	28.416	21.756	16.502	16.095	17.072	17.286	17.153
104.5	35.786	33.611	28.423	21.800	16.517	16.051	16.983	17.198	17.035
105.0	35.720	33.618	28.409	21.823	16.561	16.006	16.902	17.146	16.953
105.5	35.757	33.574	28.401	21.778	16.576	15.969	16.820	17.050	16.857
106.0	35.786	33.581	28.423	21.793	16.554	15.940	16.739	16.946	16.798
106.5	35.772	33.596	28.409	21.793	16.576	15.903	16.665	16.872	16.702
107.0	35.794	33.596	28.386	21.786	16.554	15.873	16.576	16.761	16.628
107.5	35.772	33.574	28.379	21.778	16.554	15.829	16.502	16.672	16.502
108.0	35.772	33.566	28.364	21.815	16.576	15.740	16.421	16.524	16.376
108.5	35.786	33.559	28.379	21.778	16.546	15.725	16.347	16.435	16.243
109.0	35.720	33.552	28.342	21.778	16.561	15.644	16.265	16.310	16.162
109.5	35.742	33.500	28.305	21.749	16.524	15.621	16.184	16.213	15.977
110.0	35.705	33.507	28.283	21.749	16.546	15.584	16.102	16.065	15.917
110.5	35.712	33.448	28.283	21.741	16.517	15.540	15.999	15.991	15.732

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CANDELA TABULATION - (Cont.)

111.0	35.668	33.455	28.253	21.763	16.524	15.496	15.932	15.866	15.599
111.5	35.646	33.433	28.253	21.734	16.487	15.459	15.814	15.762	15.533
112.0	35.557	33.418	28.224	21.726	16.480	15.385	15.740	15.629	15.370
112.5	35.579	33.389	28.164	21.704	16.495	15.362	15.673	15.525	15.222
113.0	35.564	33.344	28.164	21.682	16.487	15.296	15.592	15.414	15.089
113.5	35.520	33.307	28.127	21.652	16.465	15.266	15.473	15.259	14.985
114.0	35.461	33.285	28.076	21.652	16.458	15.229	15.399	15.177	14.867
114.5	35.476	33.241	28.053	21.615	16.450	15.155	15.325	15.007	14.719
115.0	35.387	33.189	27.987	21.586	16.413	15.111	15.170	14.844	14.548
115.5	35.357	33.196	27.957	21.564	16.421	15.052	15.133	14.696	14.415
116.0	35.283	33.093	27.898	21.512	16.361	15.044	15.007	14.497	14.260
116.5	35.291	33.063	27.861	21.504	16.384	14.955	14.881	14.341	14.104
117.0	35.194	33.011	27.802	21.467	16.347	14.926	14.830	14.201	13.838
117.5	35.113	32.937	27.780	21.430	16.310	14.874	14.748	14.001	13.697
118.0	35.069	32.886	27.691	21.371	16.280	14.807	14.630	13.853	13.461
118.5	35.002	32.856	27.646	21.342	16.236	14.756	14.526	13.690	13.290
119.0	34.913	32.760	27.595	21.327	16.213	14.711	14.467	13.520	13.083
119.5	34.839	32.715	27.543	21.290	16.213	14.667	14.334	13.327	12.861
120.0	34.773	32.671	27.498	21.231	16.162	14.615	14.275	13.128	12.661
120.5	34.721	32.553	27.439	21.157	16.125	14.541	14.164	12.950	12.469
121.0	34.647	32.501	27.350	21.157	16.065	14.489	14.045	12.787	12.269
121.5	34.514	32.449	27.276	21.120	16.065	14.415	13.993	12.624	12.062
122.0	34.454	32.338	27.225	21.031	16.043	14.356	13.890	12.439	11.847
122.5	34.351	32.264	27.173	20.979	15.984	14.334	13.794	12.284	11.670
123.0	34.269	32.197	27.077	20.957	15.947	14.245	13.712	12.114	11.470
123.5	34.158	32.057	26.995	20.861	15.917	14.201	13.631	11.966	11.226
124.0	34.144	31.953	26.943	20.831	15.903	14.156	13.498	11.788	11.063
124.5	33.959	31.879	26.862	20.779	15.843	14.082	13.431	11.640	10.885
125.0	33.833	31.761	26.788	20.720	15.792	14.067	13.364	11.477	10.700
125.5	33.707	31.665	26.677	20.639	15.755	14.001	13.283	11.337	10.560
126.0	33.559	31.531	26.596	20.594	15.740	13.971	13.231	11.211	10.404
126.5	33.500	31.406	26.499	20.520	15.703	13.934	13.135	11.063	10.249
127.0	33.278	31.309	26.418	20.483	15.681	13.897	13.024	10.945	10.094
127.5	33.130	31.161	26.307	20.417	15.651	13.838	12.965	10.841	9.975
128.0	33.026	31.028	26.211	20.335	15.599	13.823	12.898	10.678	9.842
128.5	32.863	30.880	26.107	20.291	15.599	13.808	12.802	10.545	9.716
129.0	32.701	30.799	26.018	20.209	15.533	13.742	12.728	10.397	9.590
129.5	32.590	30.636	25.893	20.158	15.503	13.697	12.676	10.271	9.509
130.0	32.375	30.532	25.789	20.054	15.473	13.616	12.543	10.153	9.391
130.5	32.249	30.384	25.671	20.002	15.473	13.594	12.491	10.042	9.235
131.0	32.101	30.236	25.560	19.958	15.399	13.549	12.417	9.938	9.169
131.5	31.975	30.111	25.463	19.862	15.370	13.520	12.328	9.798	9.102
132.0	31.761	29.963	25.323	19.839	15.348	13.490	12.254	9.694	8.976
132.5	31.568	29.770	25.219	19.728	15.303	13.446	12.203	9.583	8.865
133.0	31.435	29.630	25.101	19.640	15.237	13.401	12.114	9.487	8.843
133.5	31.235	29.482	24.975	19.580	15.229	13.364	12.047	9.413	8.732
134.0	31.073	29.304	24.857	19.492	15.163	13.350	11.966	9.309	8.695
134.5	30.917	29.141	24.731	19.395	15.155	13.305	11.914	9.198	8.599
135.0	30.732	28.986	24.575	19.307	15.096	13.246	11.840	9.132	8.525
135.5	30.555	28.786	24.479	19.233	15.052	13.253	11.766	9.050	8.451
136.0	30.355	28.682	24.331	19.144	15.000	13.172	11.677	8.917	8.355
136.5	30.170	28.512	24.205	19.085	14.963	13.135	11.596	8.858	8.258
137.0	29.963	28.312	24.072	18.974	14.926	13.091	11.566	8.769	8.155
137.5	29.755	28.142	23.939	18.892	14.852	13.054	11.455	8.665	8.118
138.0	29.533	27.965	23.798	18.818	14.837	12.987	11.418	8.621	8.096
138.5	29.363	27.772	23.680	18.722	14.793	12.987	11.389	8.547	7.999

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CANDELA TABULATION - (Cont.)

139.0	29.141	27.617	23.525	18.611	14.711	12.965	11.285	8.443	7.940
139.5	28.949	27.417	23.377	18.522	14.674	12.913	11.233	8.384	7.866
140.0	28.801	27.239	23.177	18.448	14.652	12.898	11.181	8.303	7.792
140.5	28.594	27.025	23.073	18.308	14.563	12.832	11.085	8.244	7.726
141.0	28.386	26.884	22.910	18.256	14.534	12.780	11.056	8.140	7.637
141.5	28.209	26.647	22.777	18.137	14.474	12.772	10.982	8.066	7.563
142.0	27.994	26.470	22.607	18.019	14.400	12.728	10.922	7.977	7.474
142.5	27.735	26.285	22.466	17.930	14.356	12.676	10.885	7.940	7.385
143.0	27.528	26.070	22.304	17.812	14.304	12.661	10.834	7.822	7.363
143.5	27.306	25.856	22.126	17.693	14.245	12.595	10.745	7.755	7.296
144.0	27.099	25.656	21.971	17.605	14.164	12.543	10.730	7.696	7.252
144.5	26.877	25.449	21.815	17.508	14.112	12.558	10.715	7.652	7.200
145.0	26.640	25.271	21.675	17.360	14.045	12.499	10.634	7.555	7.163
145.5	26.425	25.064	21.512	17.279	14.001	12.447	10.582	7.518	7.156
146.0	26.181	24.842	21.334	17.168	13.927	12.388	10.560	7.467	7.200
146.5	25.967	24.612	21.149	17.050	13.845	12.365	10.493	7.356	7.193
147.0	25.752	24.413	21.009	16.931	13.771	12.321	10.501	7.304	7.171
147.5	25.530	24.161	20.838	16.813	13.749	12.284	10.434	7.259	7.193
148.0	25.264	23.954	20.653	16.702	13.653	12.232	10.390	7.200	7.208
148.5	25.012	23.754	20.498	16.576	13.616	12.188	10.353	7.134	7.222
149.0	24.746	23.554	20.313	16.472	13.527	12.158	10.338	7.067	7.259
149.5	24.561	23.325	20.135	16.324	13.446	12.136	10.293	7.037	7.296
150.0	24.309	23.073	19.958	16.221	13.357	12.062	10.256	6.986	7.289
150.5	24.065	22.881	19.773	16.102	13.313	12.047	10.234	6.956	7.333
151.0	23.828	22.614	19.610	15.954	13.231	11.988	10.190	6.949	7.385
151.5	23.613	22.400	19.440	15.851	13.157	11.958	10.153	6.889	7.356
152.0	23.303	22.200	19.240	15.747	13.091	11.899	10.123	6.823	7.341
152.5	23.051	21.941	19.077	15.592	13.002	11.870	10.064	6.815	7.370
153.0	22.859	21.697	18.855	15.436	12.943	11.833	10.071	6.786	7.363
153.5	22.563	21.482	18.700	15.318	12.854	11.773	10.057	6.778	7.393
154.0	22.311	21.245	18.500	15.200	12.780	11.722	9.997	6.764	7.370
154.5	22.037	20.994	18.293	15.052	12.713	11.670	9.997	6.764	7.356
155.0	21.763	20.735	18.115	14.911	12.647	11.611	9.953	6.756	7.356
155.5	21.519	20.483	17.930	14.763	12.558	11.566	9.894	6.771	7.400
156.0	21.282	20.261	17.730	14.659	12.469	11.537	9.894	6.778	7.400
156.5	20.957	20.017	17.516	14.497	12.417	11.470	9.894	6.749	7.444
157.0	20.757	19.788	17.346	14.341	12.299	11.426	9.849	6.690	7.430
157.5	20.468	19.536	17.131	14.201	12.203	11.352	9.835	6.660	7.393
158.0	20.209	19.262	16.961	14.082	12.136	11.315	9.827	6.608	7.393
158.5	19.980	19.048	16.783	13.919	12.025	11.255	9.790	6.512	7.385
159.0	19.691	18.811	16.554	13.771	11.936	11.174	9.775	6.475	7.393
159.5	19.425	18.544	16.361	13.646	11.847	11.152	9.761	6.386	7.400
160.0	19.151	18.278	16.154	13.461	11.751	11.070	9.709	6.379	7.393
160.5	18.907	18.034	15.962	13.320	11.670	11.041	9.664	6.342	7.385
161.0	18.618	17.767	15.740	13.187	11.588	10.967	9.620	6.327	7.444
161.5	18.308	17.516	15.555	12.994	11.477	10.908	9.553	6.238	7.474
162.0	18.019	17.264	15.303	12.832	11.389	10.834	9.487	6.179	7.511
162.5	17.745	17.005	15.111	12.706	11.337	10.782	9.383	6.112	7.511
163.0	17.471	16.731	14.904	12.536	11.196	10.708	9.154	6.068	7.526
163.5	17.175	16.487	14.674	12.388	11.137	10.634	8.910	5.957	7.570
164.0	16.931	16.213	14.474	12.247	11.048	10.612	8.606	5.772	7.548
164.5	16.628	15.932	14.260	12.047	10.937	10.523	8.229	5.609	7.407
165.0	16.339	15.651	14.045	11.892	10.834	10.382	7.881	5.528	7.185
165.5	16.028	15.399	13.823	11.714	10.737	10.219	7.511	5.491	6.889
166.0	15.762	15.126	13.594	11.574	10.612	9.960	7.067	5.461	6.549
166.5	15.444	14.837	13.335	11.418	10.471	9.605	6.697	5.387	6.068

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CANDELA TABULATION - (Cont.)

167.0	15.118	14.563	13.128	11.270	10.249	9.228	6.401	5.350	5.498
167.5	14.830	14.289	12.913	11.085	9.931	8.776	6.105	5.195	5.002
168.0	14.497	13.964	12.617	10.945	9.487	8.288	5.920	5.091	4.410
168.5	14.193	13.675	12.395	10.767	9.095	7.829	5.802	4.965	3.863
169.0	13.882	13.409	12.188	10.501	8.562	7.341	5.668	4.721	3.212
169.5	13.557	13.128	11.914	10.175	8.088	6.867	5.617	4.455	2.516
170.0	13.216	12.824	11.640	9.738	7.555	6.505	5.513	4.070	1.872
170.5	12.891	12.439	11.352	9.287	7.104	6.268	5.365	3.596	1.354
171.0	12.558	12.084	10.930	8.813	6.727	6.031	5.247	3.182	0.829
171.5	12.254	11.781	10.567	8.318	6.468	5.898	5.039	2.827	0.548
172.0	11.899	11.440	10.212	7.844	6.238	5.802	4.684	2.405	0.488
172.5	11.596	10.974	9.716	7.496	6.038	5.631	4.270	1.991	0.481
173.0	11.063	10.552	9.243	7.171	5.868	5.439	3.848	1.591	0.459
173.5	10.427	10.071	8.710	6.786	5.654	5.047	3.293	1.347	0.392
174.0	10.086	9.450	8.096	6.475	5.476	4.477	2.723	1.243	0.340
174.5	9.531	8.850	7.541	6.120	5.143	3.907	2.176	1.117	0.289
175.0	8.865	8.207	7.008	5.676	4.662	3.256	1.739	1.021	0.222
175.5	7.999	7.459	6.379	5.224	4.070	2.546	1.487	0.844	0.163
176.0	7.134	6.630	5.757	4.684	3.441	1.931	1.317	0.703	0.215
176.5	6.201	5.698	5.025	3.922	2.708	1.487	1.125	0.496	0.170
177.0	5.113	4.751	4.203	3.145	2.050	1.251	0.947	0.326	0.141
177.5	3.989	3.685	3.426	2.449	1.510	1.103	0.799	0.215	0.141
178.0	2.790	2.583	2.612	1.665	1.110	0.918	0.629	0.178	0.237
178.5	1.776	1.650	1.724	1.058	0.895	0.755	0.474	0.192	0.163
179.0	1.043	0.992	0.925	0.659	0.696	0.599	0.370	0.178	0.185
179.5	0.370	0.562	0.355	0.355	0.481	0.481	0.229	0.185	0.259
180.0	0.266	0.266	0.266	0.266	0.266	0.266	0.266	0.266	0.266

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	30.16	N.A.	7.40
0-30	69.27	N.A.	16.90
0-40	116.56	N.A.	28.50
0-60	199.45	N.A.	48.70
0-80	263.87	N.A.	64.40
0-90	289.90	N.A.	70.80
10-90	283.07	N.A.	69.10
20-40	86.39	N.A.	21.10
20-50	130.97	N.A.	32.00
40-70	117.05	N.A.	28.60
60-80	64.42	N.A.	15.70
70-80	30.27	N.A.	7.40
80-90	26.03	N.A.	6.40
90-110	47.59	N.A.	11.60
90-120	68.58	N.A.	16.70
90-130	86.11	N.A.	21.00
90-150	109.77	N.A.	26.80
90-180	119.79	N.A.	29.20
110-180	72.19	N.A.	17.60
0-180	409.69	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	6.84
10-20	23.33
20-30	39.11
30-40	47.29
40-50	44.57
50-60	38.32
60-70	34.16
70-80	30.27
80-90	26.03
90-100	24.26
100-110	23.34
110-120	20.98
120-130	17.54
130-140	13.74
140-150	9.92
150-160	6.35
160-170	3.12
170-180	0.54

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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : CNDL 1 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

X=2H	Y=2H	11.6	12.8	12.4	13.6	14.5	9.9	11.0	10.6	11.8	12.8
	3H	14.0	15.0	14.7	15.8	16.8	11.7	12.8	12.5	13.6	14.5
	4H	15.1	16.1	15.9	16.9	17.9	12.6	13.6	13.3	14.4	15.3
	6H	16.2	17.2	17.0	18.0	18.9	13.3	14.2	14.1	15.0	16.0
	8H	16.7	17.6	17.5	18.5	19.4	13.7	14.5	14.4	15.4	16.4
	12H	17.3	18.1	18.1	18.9	19.9	14.0	14.8	14.8	15.6	16.7

UGR Viewed Endwise

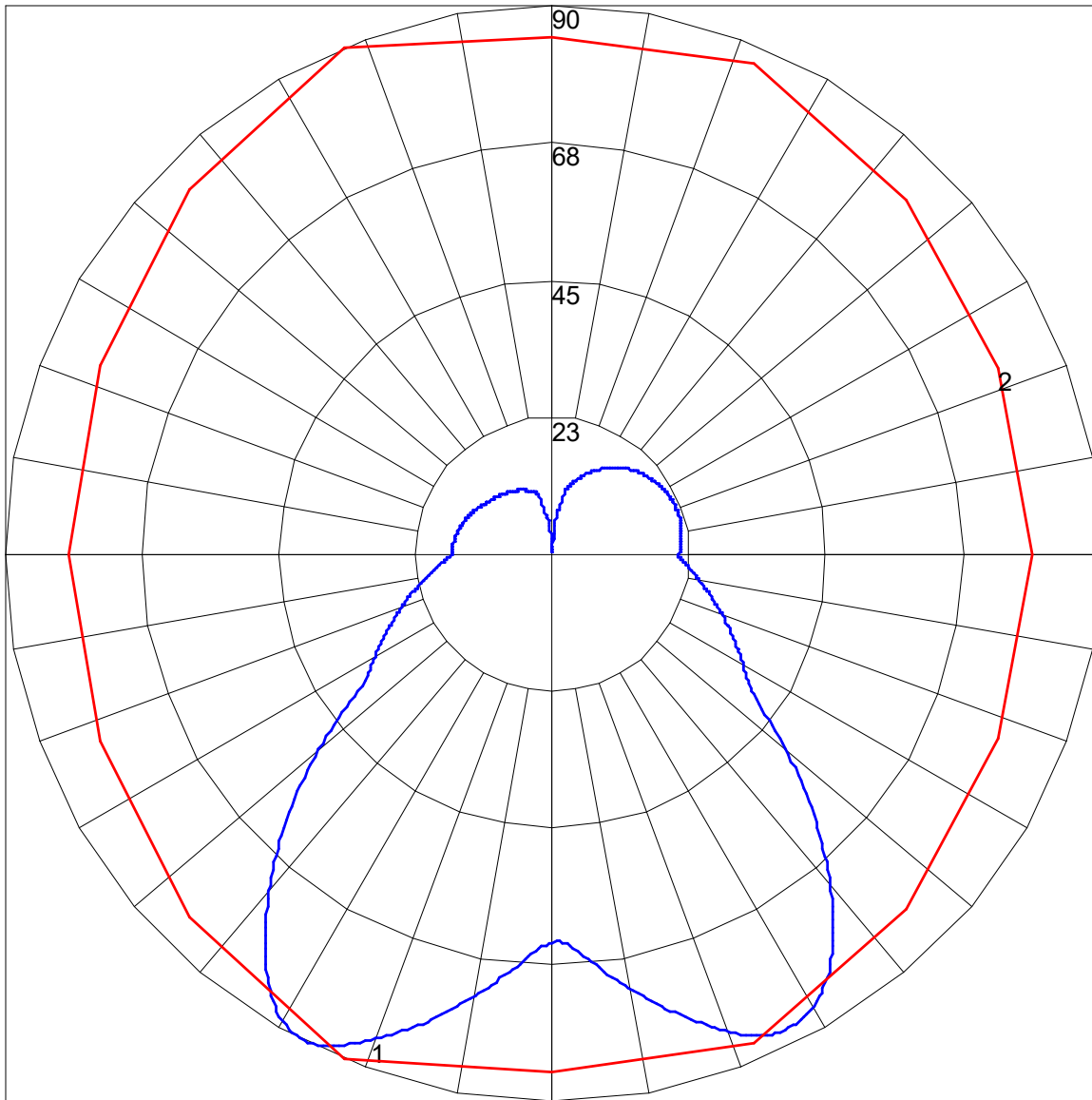
4H	2H	12.2	13.2	13.0	14.0	15.0	10.7	11.7	11.5	12.5	13.5
	3H	14.8	15.6	15.6	16.5	17.5	12.8	13.7	13.6	14.5	15.5
	4H	16.1	16.9	16.9	17.7	18.7	13.8	14.6	14.6	15.4	16.4
	6H	17.4	18.1	18.2	18.9	20.0	14.7	15.4	15.5	16.2	17.2
	8H	18.0	18.7	18.8	19.5	20.6	15.1	15.7	15.9	16.6	17.6
	12H	18.6	19.2	19.5	20.1	21.1	15.5	16.1	16.3	16.9	18.0

8H	4H	16.4	17.1	17.3	17.9	19.0	14.4	15.0	15.2	15.9	16.9
	6H	18.0	18.5	18.8	19.4	20.4	15.5	16.0	16.3	16.9	18.0
	8H	18.7	19.2	19.6	20.1	21.2	16.0	16.5	16.9	17.4	18.5
	12H	19.5	20.0	20.4	20.9	22.0	16.6	17.0	17.4	17.9	19.0

12H	4H	16.5	17.1	17.3	18.0	19.0	14.5	15.1	15.4	16.0	17.0
	6H	18.1	18.6	18.9	19.4	20.5	15.7	16.2	16.6	17.1	18.2
	8H	18.9	19.4	19.8	20.3	21.4	16.3	16.8	17.2	17.7	18.8

Maximum UGR = 22.0

POLAR GRAPH



Maximum Candela = 90.472 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.)