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IES INDOOR REPORT
PHOTOMETRIC FILENAME : CNDL 3 LIGHT.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 18097-B
[TESTLAB] LightLab International (www.LightLabInternational.com)
[MANUFAC] Justice Design Group, Los Angeles, CA 90071
[LUMCAT] CandleAria (CNDL) 3-Light Bath Bar
[LUMINAIRE] Justice Design Group - Wall mount bathroom luminaire. Product ID: CNDL 3-Light
[MORE] Steel formed housing and three frosted resin lenses with white interior.
[MORE] 30 LEDs mounted in three 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	1222
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	54
Total Luminaire Watts	22.49
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)	0.50 m
Luminous Height	0.14 m

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2181	2431	5174
55	1839	1917	3672
65	1645	1661	3056
75	1527	1503	3077
85	1470	1424	3442

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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	191.566	191.566	191.566	191.566	191.566	191.566	191.566	191.566	191.566
0.5	189.711	190.263	190.992	191.080	191.699	192.471	193.068	193.112	193.134
1.0	190.197	190.837	191.147	191.279	191.941	193.178	194.127	194.503	194.790
1.5	191.721	192.096	192.096	191.765	192.582	194.194	195.585	196.468	196.821
2.0	193.421	193.575	193.465	192.516	193.332	195.298	197.285	198.654	199.095
2.5	195.496	195.629	195.055	193.642	194.282	196.622	199.206	201.060	201.568
3.0	197.969	197.550	196.821	194.966	195.253	197.991	201.370	203.445	204.130
3.5	200.464	199.868	198.786	196.313	196.380	199.404	203.379	205.940	207.022
4.0	203.048	202.429	200.619	197.815	197.506	201.060	205.609	208.479	209.539
4.5	205.653	204.748	202.739	199.228	198.720	202.716	207.773	211.129	212.365
5.0	208.104	207.397	204.792	200.751	199.868	204.350	209.804	213.558	215.037
5.5	210.577	209.716	206.845	202.452	201.127	205.984	212.034	216.252	217.687
6.0	213.425	212.277	208.943	204.085	202.385	207.751	214.375	218.923	220.778
6.5	215.987	214.750	211.195	205.675	203.556	209.429	216.561	221.507	223.229
7.0	218.548	217.135	213.315	207.375	204.902	211.129	218.901	224.200	226.055
7.5	221.087	219.806	215.479	209.053	206.227	212.895	221.242	226.828	228.793
8.0	223.494	222.257	217.709	210.665	207.552	214.640	223.450	229.389	231.420
8.5	225.967	224.796	219.851	212.365	208.766	216.406	225.768	231.950	234.048
9.0	228.749	227.159	222.036	214.066	210.180	218.150	228.153	234.423	236.676
9.5	231.354	229.610	224.267	215.722	211.615	219.939	230.206	236.830	239.303
10.0	233.849	232.171	226.386	217.444	212.851	221.595	232.414	239.502	241.886
10.5	236.322	234.865	228.616	219.232	214.176	223.383	234.710	241.953	244.492
11.0	239.148	237.183	230.758	220.932	215.501	225.150	236.830	244.404	247.075
11.5	241.798	239.656	232.856	222.787	216.848	226.916	239.060	246.766	249.482
12.0	244.249	242.196	235.086	224.487	218.195	228.683	241.224	249.305	251.977
12.5	246.258	244.470	237.404	226.143	219.497	230.515	243.344	251.513	254.428
13.0	247.671	246.700	239.458	227.866	220.756	232.215	245.485	253.942	256.614
13.5	248.555	248.466	241.732	229.544	222.125	234.004	247.561	256.172	258.446
14.0	248.842	249.592	243.763	231.089	223.450	235.660	249.592	258.204	259.661
14.5	249.526	250.520	245.905	232.834	224.620	237.360	251.602	259.860	260.323
15.0	250.034	251.116	247.914	234.512	226.077	239.038	253.721	261.052	260.610
15.5	250.542	251.580	249.835	236.212	227.402	240.628	255.642	261.516	260.522
16.0	250.718	252.176	251.469	237.890	228.528	242.328	257.563	261.803	260.389
16.5	250.939	252.242	252.948	239.458	229.742	243.962	259.528	261.758	260.080
17.0	250.961	252.396	254.229	241.047	231.178	245.485	261.273	261.538	259.617
17.5	251.248	252.728	255.245	242.703	232.326	247.009	262.774	261.295	259.440
18.0	251.094	252.684	255.885	244.227	233.540	248.643	264.121	260.875	258.844
18.5	251.248	252.661	256.437	245.772	234.821	250.122	264.960	260.478	258.248
19.0	251.204	252.772	256.680	247.318	236.057	251.690	265.424	260.036	257.674
19.5	250.873	252.441	256.857	248.886	237.294	253.125	265.600	259.550	257.011
20.0	250.453	252.352	256.923	250.277	238.464	254.693	265.512	258.888	256.481
20.5	250.100	252.154	256.901	251.822	239.767	256.106	265.269	258.314	255.708
21.0	249.283	251.602	256.812	253.213	240.959	257.585	264.916	257.652	254.980
21.5	248.842	251.050	256.636	254.671	242.196	259.043	264.452	256.835	254.251
22.0	248.400	250.630	256.349	255.996	243.432	260.367	263.966	256.084	253.302
22.5	247.671	249.901	256.062	257.254	244.691	261.780	263.481	255.156	252.176
23.0	246.965	249.040	255.753	258.358	245.861	263.017	262.796	254.185	251.248
23.5	245.949	248.025	255.134	259.131	246.899	264.320	262.023	253.258	249.990
24.0	244.978	246.965	254.582	259.793	248.135	265.534	261.273	251.999	248.709
24.5	244.139	246.104	253.942	260.367	249.217	266.726	260.434	250.608	247.561
25.0	243.123	244.933	253.059	260.831	250.321	267.764	259.484	249.438	246.258
25.5	241.997	243.829	252.220	261.184	251.425	268.559	258.579	248.025	244.779
26.0	240.760	242.571	251.182	261.273	252.374	269.266	257.387	246.501	243.366
26.5	239.590	241.268	250.100	261.538	253.390	269.707	256.305	245.044	241.688

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CANDELA TABULATION - (Cont.)

27.0	237.978	239.833	248.886	261.449	254.317	269.906	255.090	243.344	240.098
27.5	236.874	238.619	247.627	261.273	255.223	269.950	253.655	241.776	238.464
28.0	235.240	237.139	246.148	260.853	256.062	269.773	252.220	240.032	236.698
28.5	233.673	235.417	244.646	260.389	257.011	269.244	250.652	238.243	234.799
29.0	232.171	233.783	243.167	259.550	257.939	268.559	248.952	236.322	232.900
29.5	230.515	232.237	241.489	258.689	258.778	267.632	247.230	234.401	230.957
30.0	228.859	230.537	239.700	257.629	259.462	266.461	245.375	232.436	228.815
30.5	226.784	228.771	237.868	256.327	260.345	265.203	243.300	230.316	226.585
31.0	225.150	227.137	235.947	255.179	261.030	263.790	241.290	228.153	224.487
31.5	223.383	225.260	234.092	253.810	261.803	262.244	239.171	226.033	222.125
32.0	221.286	223.295	232.237	252.220	262.553	260.456	237.007	223.803	219.917
32.5	219.387	221.440	230.052	250.674	262.995	258.491	234.732	221.418	217.311
33.0	217.333	219.365	228.020	248.842	263.547	256.349	232.524	218.989	214.905
33.5	214.971	217.466	225.967	246.899	263.966	254.251	230.228	216.494	212.034
34.0	213.050	215.280	223.692	245.066	263.834	251.734	227.755	214.088	209.605
34.5	210.996	213.160	221.573	242.792	263.503	249.327	225.348	211.526	206.934
35.0	208.568	210.930	219.276	240.517	262.399	246.810	222.721	208.921	204.085
35.5	206.404	208.877	217.068	238.177	260.897	244.205	220.248	206.293	201.281
36.0	204.108	206.470	214.684	235.726	258.954	241.445	217.665	203.445	198.610
36.5	201.679	204.218	212.454	233.076	256.658	238.817	215.037	200.840	195.673
37.0	199.537	201.966	210.069	230.361	253.765	235.859	212.343	198.102	192.869
37.5	197.241	199.603	207.552	227.601	250.144	232.966	209.605	195.187	189.888
38.0	194.812	197.174	205.256	224.841	246.148	230.052	206.912	192.317	186.951
38.5	192.471	194.768	202.739	221.882	241.997	226.982	203.975	189.292	184.103
39.0	190.109	192.471	200.332	218.945	237.713	224.046	201.193	186.421	181.211
39.5	187.857	189.998	197.837	215.898	233.430	220.955	198.300	183.396	178.164
40.0	185.914	187.636	195.276	212.873	229.124	217.908	195.452	180.438	175.315
40.5	183.661	185.229	192.714	209.892	225.039	214.772	192.427	177.457	172.356
41.0	181.387	182.911	190.219	206.757	220.955	211.703	189.491	174.476	169.508
41.5	179.687	180.636	187.548	203.843	217.002	208.568	186.444	171.451	166.770
42.0	177.832	178.362	184.942	200.773	213.337	205.432	183.441	168.492	164.010
42.5	176.287	176.110	182.270	197.682	209.561	202.231	180.305	165.578	161.361
43.0	174.962	174.012	179.665	194.635	206.006	199.095	177.170	162.730	158.601
43.5	173.814	172.202	176.971	191.434	202.672	195.805	174.101	159.992	156.304
44.0	172.864	170.369	174.366	188.298	199.338	192.493	170.833	157.099	154.074
44.5	171.451	168.956	171.738	185.340	196.115	189.248	167.676	154.560	151.977
45.0	170.281	167.587	169.044	182.005	192.891	185.803	164.474	152.109	150.276
45.5	169.177	166.284	166.572	178.936	189.888	182.535	161.449	149.879	148.598
46.0	167.963	165.203	163.988	175.801	186.708	179.047	158.314	147.804	147.009
46.5	166.682	163.966	161.471	172.666	183.728	175.558	155.200	145.993	145.331
47.0	165.379	162.663	159.131	169.354	180.526	172.092	151.977	144.315	143.630
47.5	164.231	161.515	156.702	166.174	177.280	168.515	149.040	142.637	141.930
48.0	163.061	160.345	154.626	162.995	174.035	164.960	146.103	141.047	140.164
48.5	161.780	158.998	152.595	159.638	170.678	161.294	143.167	139.369	138.684
49.0	160.742	157.806	150.851	156.503	167.256	157.806	140.473	137.757	137.095
49.5	159.550	156.569	149.062	153.191	163.745	154.163	137.868	136.101	135.439
50.0	158.380	155.399	147.494	149.989	160.168	150.696	135.571	134.578	133.959
50.5	157.210	154.140	145.883	146.920	156.415	147.097	133.407	132.922	132.414
51.0	156.150	153.014	144.514	143.917	152.661	143.476	131.442	131.420	130.780
51.5	155.178	151.734	143.277	140.561	148.885	139.965	129.698	129.808	129.389
52.0	153.898	150.696	142.173	137.625	144.889	136.476	128.042	128.417	127.954
52.5	153.014	149.548	140.937	134.666	140.804	133.032	126.629	126.894	126.496
53.0	151.910	148.356	139.766	131.619	136.940	129.632	125.039	125.326	125.061
53.5	150.983	147.274	138.552	128.991	132.944	126.408	123.560	124.178	123.604
54.0	150.034	146.302	137.426	126.276	129.036	123.206	122.147	122.588	122.301
54.5	148.775	145.154	136.234	123.803	125.326	120.270	120.711	121.241	121.109

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CANDELA TABULATION - (Cont.)

55.0	147.781	144.271	135.085	121.572	121.550	117.289	119.298	119.828	119.696
55.5	147.119	143.277	133.915	119.718	117.996	114.507	117.885	118.548	118.525
56.0	146.214	142.261	132.833	117.819	114.419	112.166	116.472	117.245	117.201
56.5	145.308	141.246	131.619	116.295	111.084	109.936	115.103	115.986	115.920
57.0	144.536	140.429	130.537	114.661	107.971	108.236	113.822	114.684	114.728
57.5	143.608	139.325	129.455	113.116	104.880	106.889	112.498	113.425	113.535
58.0	142.880	138.442	128.307	111.990	102.010	105.785	111.084	112.233	112.321
58.5	141.864	137.625	127.335	111.129	99.492	104.615	109.826	110.996	111.040
59.0	141.180	136.697	126.320	110.091	97.351	103.533	108.589	109.738	109.914
59.5	140.318	135.814	125.260	109.186	95.584	102.473	107.265	108.656	108.899
60.0	139.391	134.997	124.288	108.236	94.260	101.369	106.116	107.463	107.618
60.5	138.574	134.158	123.339	107.265	93.156	100.199	104.880	106.227	106.624
61.0	137.845	133.297	122.345	106.249	92.250	99.051	103.621	105.145	105.344
61.5	137.249	132.546	121.219	105.344	91.433	97.969	102.517	103.997	104.394
62.0	136.366	131.663	120.380	104.218	90.660	96.909	101.303	102.893	103.180
62.5	135.549	130.824	119.431	103.312	89.755	95.761	100.221	101.811	102.032
63.0	134.843	130.007	118.437	102.319	88.894	94.657	99.117	100.574	101.082
63.5	133.915	129.190	117.554	101.347	88.011	93.553	97.991	99.625	99.912
64.0	133.187	128.484	116.737	100.420	87.106	92.559	96.821	98.565	98.918
64.5	132.657	127.689	115.765	99.382	86.178	91.433	95.805	97.549	97.836
65.0	131.906	126.894	115.037	98.455	85.295	90.418	94.723	96.445	96.821
65.5	131.067	126.121	114.043	97.572	84.368	89.247	93.531	95.540	95.783
66.0	130.338	125.436	113.248	96.600	83.462	88.254	92.537	94.480	94.789
66.5	129.698	124.597	112.365	95.584	82.579	87.238	91.433	93.443	93.862
67.0	129.013	123.957	111.504	94.834	81.519	86.134	90.307	92.405	92.824
67.5	128.196	123.184	110.621	93.906	80.702	85.052	89.402	91.433	91.809
68.0	127.490	122.389	109.848	92.846	79.841	84.191	88.408	90.418	90.903
68.5	126.872	121.661	109.053	92.029	78.870	83.043	87.371	89.534	90.042
69.0	126.231	121.020	108.192	91.124	77.920	82.160	86.465	88.541	88.894
69.5	125.525	120.270	107.419	90.153	77.037	81.210	85.450	87.591	88.011
70.0	124.907	119.629	106.558	89.358	76.088	80.128	84.544	86.664	87.172
70.5	124.090	118.879	105.697	88.497	75.160	79.179	83.573	85.781	86.024
71.0	123.383	118.172	105.079	87.503	74.255	78.229	82.601	84.765	85.251
71.5	122.831	117.620	104.306	86.730	73.372	77.280	81.652	83.904	84.346
72.0	122.191	116.892	103.489	85.825	72.511	76.264	80.769	82.955	83.462
72.5	121.595	116.207	102.804	84.898	71.605	75.381	79.841	82.116	82.535
73.0	120.866	115.545	102.054	84.169	70.722	74.432	78.980	81.166	81.674
73.5	120.181	114.926	101.281	83.264	69.839	73.482	78.031	80.349	80.769
74.0	119.718	114.198	100.574	82.380	69.000	72.577	77.192	79.466	79.952
74.5	119.210	113.513	99.780	81.652	68.051	71.650	76.308	78.605	79.046
75.0	118.481	112.961	99.095	80.879	67.278	70.833	75.492	77.810	78.141
75.5	117.753	112.277	98.477	79.996	66.439	69.994	74.608	76.860	77.324
76.0	117.156	111.659	97.792	79.245	65.533	69.044	73.725	76.044	76.441
76.5	116.450	111.040	97.020	78.494	64.672	68.271	72.886	75.204	75.668
77.0	115.743	110.378	96.468	77.700	63.922	67.432	72.003	74.432	74.873
77.5	115.390	109.848	95.739	76.883	63.038	66.505	71.208	73.548	74.145
78.0	114.728	109.186	94.966	76.176	62.310	65.754	70.413	72.732	73.261
78.5	113.977	108.523	94.414	75.293	61.449	64.937	69.618	71.937	72.489
79.0	113.580	107.905	93.752	74.652	60.654	64.054	68.779	71.164	71.539
79.5	112.807	107.309	93.001	73.990	59.859	63.237	67.984	70.325	70.811
80.0	112.453	106.691	92.449	73.129	59.108	62.442	67.189	69.552	70.038
80.5	111.813	106.161	91.742	72.467	58.402	61.669	66.350	68.845	69.353
81.0	111.173	105.587	91.102	71.760	57.629	60.875	65.688	68.028	68.448
81.5	110.753	104.902	90.528	71.053	56.988	60.212	64.937	67.300	67.719
82.0	110.025	104.328	89.844	70.435	56.260	59.417	64.098	66.637	67.035
82.5	109.539	103.864	89.159	69.795	55.509	58.600	63.392	65.887	66.306

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83.0	108.810	103.180	88.629	69.066	54.780	57.938	62.685	65.136	65.533
83.5	108.280	102.694	88.033	68.404	54.118	57.253	61.934	64.363	64.761
84.0	107.817	102.164	87.371	67.852	53.434	56.503	61.272	63.723	64.032
84.5	107.243	101.524	86.885	67.145	52.793	55.796	60.521	62.928	63.281
85.0	106.779	100.950	86.311	66.571	52.197	55.090	59.881	62.288	62.751
85.5	106.271	100.420	85.670	65.975	51.491	54.339	59.263	61.581	61.979
86.0	105.741	99.868	85.118	65.335	50.916	53.743	58.468	60.742	61.427
86.5	105.189	99.426	84.677	64.783	50.276	53.058	57.805	60.124	60.521
87.0	104.593	98.874	84.036	64.363	49.702	52.418	57.209	59.550	59.903
87.5	104.107	98.300	83.573	63.701	49.260	51.822	56.547	58.821	59.329
88.0	103.644	97.969	83.109	63.281	48.598	51.226	55.973	58.225	58.600
88.5	103.136	97.461	82.601	62.818	48.201	50.629	55.355	57.629	57.960
89.0	103.047	97.174	82.226	62.310	47.737	50.210	54.758	56.944	57.231
89.5	103.092	97.152	82.226	62.266	47.406	49.768	54.206	56.392	56.679
90.0	102.893	97.284	82.380	62.354	47.582	49.658	53.986	56.061	56.304
90.5	103.224	97.417	82.403	62.420	47.582	49.702	53.853	55.884	56.194
91.0	103.511	97.505	82.535	62.553	47.538	49.702	53.743	55.796	56.083
91.5	103.599	97.770	82.645	62.685	47.693	49.724	53.721	55.752	55.884
92.0	103.776	97.748	82.866	62.641	47.715	49.724	53.610	55.575	55.818
92.5	103.908	97.925	82.955	62.818	47.847	49.658	53.522	55.399	55.664
93.0	104.085	98.079	82.955	62.972	47.803	49.525	53.522	55.332	55.575
93.5	104.350	98.190	83.264	63.038	48.024	49.548	53.522	55.244	55.421
94.0	104.460	98.411	83.352	63.215	47.980	49.503	53.323	55.156	55.244
94.5	104.615	98.477	83.484	63.259	48.090	49.393	53.389	55.001	54.979
95.0	104.946	98.631	83.573	63.370	48.090	49.393	53.235	54.692	54.825
95.5	104.902	98.874	83.683	63.502	48.156	49.371	53.124	54.604	54.758
96.0	105.167	98.985	83.838	63.590	48.201	49.327	53.014	54.493	54.471
96.5	105.300	99.095	84.103	63.657	48.333	49.260	52.882	54.251	54.339
97.0	105.454	99.250	84.059	63.811	48.311	49.216	52.815	54.096	54.052
97.5	105.564	99.382	84.191	63.988	48.333	49.106	52.749	54.052	53.941
98.0	105.807	99.404	84.346	63.966	48.510	49.150	52.550	53.831	53.765
98.5	105.829	99.603	84.456	64.164	48.532	49.018	52.484	53.676	53.544
99.0	105.962	99.735	84.456	64.341	48.598	48.885	52.440	53.500	53.367
99.5	106.116	99.780	84.611	64.275	48.642	48.885	52.197	53.323	53.058
100.0	106.161	99.890	84.677	64.407	48.753	48.797	52.153	53.169	52.926
100.5	106.337	99.912	84.699	64.518	48.775	48.731	52.087	52.948	52.705
101.0	106.315	99.978	84.787	64.650	48.885	48.642	51.954	52.705	52.484
101.5	106.558	100.022	84.876	64.694	48.929	48.488	51.800	52.572	52.175
102.0	106.470	100.089	84.853	64.805	49.106	48.444	51.645	52.330	52.087
102.5	106.536	100.089	84.876	64.827	49.106	48.377	51.446	52.109	51.866
103.0	106.558	100.155	84.920	64.915	49.238	48.201	51.270	51.932	51.667
103.5	106.558	100.177	84.876	65.048	49.194	48.134	51.137	51.800	51.270
104.0	106.735	100.199	84.787	64.915	49.238	48.024	50.939	51.579	51.181
104.5	106.779	100.287	84.809	65.048	49.283	47.892	50.674	51.314	50.828
105.0	106.580	100.309	84.765	65.114	49.415	47.759	50.431	51.159	50.585
105.5	106.691	100.177	84.743	64.981	49.459	47.649	50.188	50.872	50.298
106.0	106.779	100.199	84.809	65.026	49.393	47.560	49.945	50.563	50.122
106.5	106.735	100.243	84.765	65.026	49.459	47.450	49.724	50.342	49.835
107.0	106.801	100.243	84.699	65.004	49.393	47.362	49.459	50.011	49.614
107.5	106.735	100.177	84.677	64.981	49.393	47.229	49.238	49.746	49.238
108.0	106.735	100.155	84.633	65.092	49.459	46.964	48.996	49.305	48.863
108.5	106.779	100.133	84.677	64.981	49.371	46.920	48.775	49.040	48.466
109.0	106.580	100.111	84.566	64.981	49.415	46.677	48.532	48.664	48.223
109.5	106.646	99.956	84.456	64.893	49.305	46.611	48.289	48.377	47.671
110.0	106.536	99.978	84.390	64.893	49.371	46.500	48.046	47.936	47.494
110.5	106.558	99.802	84.390	64.871	49.283	46.368	47.737	47.715	46.942

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CANDELA TABULATION - (Cont.)

111.0	106.426	99.824	84.301	64.937	49.305	46.236	47.538	47.340	46.545
111.5	106.359	99.757	84.301	64.849	49.194	46.125	47.185	47.030	46.346
112.0	106.094	99.713	84.213	64.827	49.172	45.904	46.964	46.633	45.860
112.5	106.161	99.625	84.036	64.761	49.216	45.838	46.765	46.324	45.419
113.0	106.116	99.492	84.036	64.694	49.194	45.639	46.523	45.993	45.021
113.5	105.984	99.382	83.926	64.606	49.128	45.551	46.169	45.529	44.712
114.0	105.807	99.316	83.772	64.606	49.106	45.441	45.948	45.286	44.359
114.5	105.852	99.183	83.705	64.496	49.084	45.220	45.728	44.778	43.917
115.0	105.587	99.029	83.507	64.407	48.973	45.087	45.264	44.292	43.409
115.5	105.498	99.051	83.418	64.341	48.996	44.911	45.154	43.851	43.012
116.0	105.277	98.742	83.242	64.187	48.819	44.889	44.778	43.255	42.548
116.5	105.300	98.653	83.131	64.164	48.885	44.624	44.403	42.791	42.084
117.0	105.012	98.499	82.955	64.054	48.775	44.535	44.248	42.372	41.290
117.5	104.770	98.278	82.888	63.944	48.664	44.381	44.005	41.775	40.870
118.0	104.637	98.124	82.623	63.767	48.576	44.182	43.652	41.334	40.164
118.5	104.438	98.035	82.491	63.679	48.444	44.028	43.343	40.848	39.656
119.0	104.173	97.748	82.336	63.635	48.377	43.895	43.166	40.340	39.037
119.5	103.953	97.616	82.182	63.524	48.377	43.763	42.769	39.766	38.375
120.0	103.754	97.483	82.049	63.348	48.223	43.608	42.592	39.170	37.779
120.5	103.599	97.130	81.873	63.127	48.112	43.387	42.261	38.640	37.205
121.0	103.379	96.975	81.608	63.127	47.936	43.233	41.908	38.154	36.609
121.5	102.981	96.821	81.387	63.016	47.936	43.012	41.753	37.668	35.990
122.0	102.804	96.490	81.232	62.751	47.869	42.835	41.444	37.116	35.350
122.5	102.495	96.269	81.078	62.597	47.693	42.769	41.157	36.653	34.820
123.0	102.252	96.070	80.791	62.531	47.582	42.504	40.914	36.145	34.224
123.5	101.921	95.651	80.548	62.244	47.494	42.372	40.671	35.703	33.495
124.0	101.877	95.341	80.393	62.155	47.450	42.239	40.274	35.173	33.010
124.5	101.325	95.121	80.150	62.001	47.273	42.018	40.075	34.732	32.480
125.0	100.950	94.767	79.930	61.824	47.119	41.974	39.876	34.246	31.928
125.5	100.574	94.480	79.598	61.581	47.008	41.775	39.634	33.827	31.508
126.0	100.133	94.083	79.356	61.449	46.964	41.687	39.479	33.451	31.044
126.5	99.956	93.708	79.068	61.228	46.854	41.577	39.192	33.010	30.581
127.0	99.294	93.420	78.826	61.117	46.788	41.466	38.861	32.656	30.117
127.5	98.852	92.979	78.494	60.919	46.699	41.290	38.684	32.347	29.764
128.0	98.543	92.581	78.207	60.676	46.545	41.245	38.485	31.861	29.366
128.5	98.057	92.140	77.898	60.543	46.545	41.201	38.198	31.464	28.991
129.0	97.572	91.897	77.633	60.300	46.346	41.003	37.978	31.022	28.616
129.5	97.240	91.411	77.258	60.146	46.258	40.870	37.823	30.647	28.373
130.0	96.600	91.102	76.949	59.837	46.169	40.627	37.426	30.294	28.020
130.5	96.225	90.660	76.596	59.682	46.169	40.561	37.271	29.963	27.556
131.0	95.783	90.219	76.264	59.550	45.948	40.428	37.050	29.653	27.357
131.5	95.408	89.844	75.977	59.263	45.860	40.340	36.785	29.234	27.158
132.0	94.767	89.402	75.558	59.196	45.794	40.252	36.564	28.925	26.783
132.5	94.193	88.828	75.249	58.865	45.661	40.119	36.410	28.594	26.452
133.0	93.796	88.408	74.895	58.600	45.463	39.987	36.145	28.307	26.386
133.5	93.200	87.967	74.520	58.424	45.441	39.876	35.946	28.086	26.054
134.0	92.714	87.437	74.167	58.159	45.242	39.832	35.703	27.777	25.944
134.5	92.250	86.951	73.791	57.872	45.220	39.700	35.549	27.445	25.657
135.0	91.698	86.487	73.328	57.607	45.043	39.523	35.328	27.247	25.436
135.5	91.168	85.891	73.041	57.386	44.911	39.545	35.107	27.004	25.215
136.0	90.572	85.582	72.599	57.121	44.756	39.302	34.842	26.606	24.928
136.5	90.020	85.074	72.224	56.944	44.646	39.192	34.599	26.430	24.641
137.0	89.402	84.478	71.826	56.613	44.535	39.060	34.511	26.165	24.332
137.5	88.784	83.970	71.429	56.370	44.315	38.949	34.180	25.856	24.222
138.0	88.121	83.440	71.009	56.149	44.270	38.750	34.069	25.723	24.156
138.5	87.613	82.866	70.656	55.862	44.138	38.750	33.981	25.502	23.868

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CANDELA TABULATION - (Cont.)

139.0	86.951	82.403	70.192	55.531	43.895	38.684	33.672	25.193	23.692
139.5	86.377	81.806	69.751	55.266	43.785	38.530	33.517	25.017	23.471
140.0	85.935	81.276	69.155	55.045	43.718	38.485	33.363	24.774	23.250
140.5	85.317	80.636	68.845	54.626	43.453	38.287	33.076	24.597	23.052
141.0	84.699	80.217	68.360	54.471	43.365	38.132	32.988	24.288	22.787
141.5	84.169	79.510	67.962	54.118	43.188	38.110	32.767	24.067	22.566
142.0	83.529	78.980	67.454	53.765	42.968	37.978	32.590	23.802	22.301
142.5	82.756	78.428	67.035	53.500	42.835	37.823	32.480	23.692	22.036
143.0	82.138	77.788	66.549	53.147	42.681	37.779	32.325	23.339	21.970
143.5	81.475	77.148	66.019	52.793	42.504	37.580	32.060	23.140	21.771
144.0	80.857	76.551	65.556	52.528	42.261	37.426	32.016	22.963	21.638
144.5	80.195	75.933	65.092	52.241	42.107	37.470	31.972	22.831	21.484
145.0	79.488	75.403	64.672	51.800	41.908	37.293	31.729	22.544	21.373
145.5	78.848	74.785	64.187	51.557	41.775	37.139	31.574	22.433	21.351
146.0	78.119	74.123	63.657	51.226	41.555	36.962	31.508	22.279	21.484
146.5	77.479	73.438	63.105	50.872	41.312	36.896	31.309	21.948	21.462
147.0	76.838	72.842	62.685	50.519	41.091	36.763	31.332	21.793	21.396
147.5	76.176	72.091	62.177	50.166	41.025	36.653	31.133	21.660	21.462
148.0	75.381	71.473	61.625	49.835	40.738	36.498	31.000	21.484	21.506
148.5	74.630	70.877	61.162	49.459	40.627	36.366	30.890	21.285	21.550
149.0	73.836	70.281	60.610	49.150	40.362	36.277	30.846	21.086	21.660
149.5	73.284	69.596	60.080	48.708	40.119	36.211	30.713	20.998	21.771
150.0	72.533	68.845	59.550	48.399	39.854	35.990	30.603	20.844	21.749
150.5	71.804	68.271	58.998	48.046	39.722	35.946	30.537	20.755	21.881
151.0	71.098	67.476	58.512	47.604	39.479	35.770	30.404	20.733	22.036
151.5	70.457	66.836	58.004	47.295	39.258	35.681	30.294	20.556	21.948
152.0	69.530	66.240	57.408	46.986	39.060	35.505	30.205	20.358	21.903
152.5	68.779	65.467	56.922	46.523	38.795	35.416	30.029	20.336	21.992
153.0	68.205	64.739	56.260	46.059	38.618	35.306	30.051	20.247	21.970
153.5	67.322	64.098	55.796	45.706	38.353	35.129	30.007	20.225	22.058
154.0	66.571	63.392	55.200	45.352	38.132	34.975	29.830	20.181	21.992
154.5	65.754	62.641	54.582	44.911	37.933	34.820	29.830	20.181	21.948
155.0	64.937	61.868	54.052	44.491	37.735	34.644	29.698	20.159	21.948
155.5	64.209	61.117	53.500	44.050	37.470	34.511	29.521	20.203	22.080
156.0	63.502	60.455	52.904	43.740	37.205	34.423	29.521	20.225	22.080
156.5	62.531	59.726	52.263	43.255	37.050	34.224	29.521	20.137	22.212
157.0	61.934	59.042	51.756	42.791	36.697	34.092	29.388	19.960	22.168
157.5	61.073	58.291	51.115	42.372	36.410	33.871	29.344	19.872	22.058
158.0	60.300	57.474	50.607	42.018	36.211	33.760	29.322	19.717	22.058
158.5	59.616	56.834	50.077	41.532	35.880	33.584	29.212	19.430	22.036
159.0	58.755	56.127	49.393	41.091	35.615	33.341	29.168	19.320	22.058
159.5	57.960	55.332	48.819	40.716	35.350	33.275	29.124	19.055	22.080
160.0	57.143	54.538	48.201	40.164	35.063	33.032	28.969	19.033	22.058
160.5	56.414	53.809	47.627	39.744	34.820	32.943	28.836	18.923	22.036
161.0	55.553	53.014	46.964	39.347	34.577	32.723	28.704	18.878	22.212
161.5	54.626	52.263	46.412	38.772	34.246	32.546	28.505	18.613	22.301
162.0	53.765	51.513	45.661	38.287	33.981	32.325	28.307	18.437	22.411
162.5	52.948	50.740	45.087	37.911	33.827	32.171	27.997	18.238	22.411
163.0	52.131	49.923	44.469	37.404	33.407	31.950	27.313	18.106	22.455
163.5	51.248	49.194	43.785	36.962	33.230	31.729	26.584	17.774	22.588
164.0	50.519	48.377	43.188	36.542	32.965	31.663	25.679	17.222	22.522
164.5	49.614	47.538	42.548	35.946	32.634	31.398	24.553	16.737	22.102
165.0	48.753	46.699	41.908	35.483	32.325	30.978	23.515	16.494	21.440
165.5	47.825	45.948	41.245	34.953	32.038	30.492	22.411	16.383	20.556
166.0	47.030	45.132	40.561	34.533	31.663	29.720	21.086	16.295	19.541
166.5	46.081	44.270	39.788	34.069	31.243	28.660	19.982	16.074	18.106

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CANDELA TABULATION - (Cont.)

167.0	45.109	43.453	39.170	33.628	30.581	27.534	19.099	15.964	16.405
167.5	44.248	42.636	38.530	33.076	29.631	26.187	18.216	15.500	14.926
168.0	43.255	41.665	37.646	32.656	28.307	24.730	17.664	15.191	13.160
168.5	42.349	40.804	36.984	32.126	27.136	23.361	17.311	14.816	11.526
169.0	41.422	40.009	36.366	31.332	25.547	21.903	16.913	14.087	9.583
169.5	40.451	39.170	35.549	30.360	24.133	20.490	16.759	13.292	7.507
170.0	39.435	38.265	34.732	29.057	22.544	19.408	16.450	12.144	5.586
170.5	38.463	37.116	33.871	27.710	21.197	18.702	16.008	10.731	4.041
171.0	37.470	36.057	32.612	26.297	20.071	17.995	15.655	9.494	2.473
171.5	36.564	35.151	31.530	24.818	19.298	17.598	15.036	8.435	1.634
172.0	35.505	34.136	30.470	23.405	18.613	17.311	13.977	7.176	1.457
172.5	34.599	32.745	28.991	22.367	18.017	16.803	12.740	5.940	1.435
173.0	33.010	31.486	27.578	21.396	17.509	16.229	11.482	4.747	1.369
173.5	31.111	30.051	25.988	20.247	16.869	15.059	9.826	4.019	1.170
174.0	30.095	28.196	24.156	19.320	16.339	13.358	8.125	3.709	1.016
174.5	28.439	26.408	22.500	18.260	15.346	11.658	6.492	3.334	0.861
175.0	26.452	24.487	20.910	16.935	13.910	9.715	5.189	3.047	0.662
175.5	23.868	22.257	19.033	15.588	12.144	7.596	4.438	2.517	0.486
176.0	21.285	19.784	17.178	13.977	10.267	5.763	3.930	2.098	0.640
176.5	18.503	17.002	14.992	11.702	8.081	4.438	3.356	1.479	0.508
177.0	15.257	14.175	12.541	9.384	6.116	3.732	2.826	0.972	0.420
177.5	11.901	10.996	10.223	7.308	4.504	3.290	2.385	0.640	0.420
178.0	8.324	7.706	7.794	4.968	3.312	2.738	1.877	0.530	0.707
178.5	5.299	4.924	5.145	3.157	2.672	2.252	1.413	0.574	0.486
179.0	3.113	2.959	2.760	1.965	2.076	1.788	1.104	0.530	0.552
179.5	1.104	1.678	1.060	1.060	1.435	1.435	0.684	0.552	0.773
180.0	0.795	0.795	0.795	0.795	0.795	0.795	0.795	0.795	0.795

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	90.00	N.A.	7.40
0-30	206.69	N.A.	16.90
0-40	347.79	N.A.	28.50
0-60	595.11	N.A.	48.70
0-80	787.33	N.A.	64.40
0-90	865.01	N.A.	70.80
10-90	844.61	N.A.	69.10
20-40	257.78	N.A.	21.10
20-50	390.78	N.A.	32.00
40-70	349.24	N.A.	28.60
60-80	192.23	N.A.	15.70
70-80	90.31	N.A.	7.40
80-90	77.68	N.A.	6.40
90-110	142.01	N.A.	11.60
90-120	204.61	N.A.	16.70
90-130	256.94	N.A.	21.00
90-150	327.54	N.A.	26.80
90-180	357.42	N.A.	29.20
110-180	215.41	N.A.	17.60
0-180	1222.43	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	20.39
10-20	69.61
20-30	116.68
30-40	141.10
40-50	133.00
50-60	114.32
60-70	101.92
70-80	90.31
80-90	77.68
90-100	72.38
100-110	69.63
110-120	62.60
120-130	52.33
130-140	41.01
140-150	29.59
150-160	18.95
160-170	9.31
170-180	1.62

IES INDOOR REPORT
PHOTOMETRIC FILENAME : CNDL 3 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	71
1	100	94	89	85	94	89	85	81	80	76	73	71	68	66	63	61	59	54	54
2	90	81	74	68	85	77	70	65	69	64	59	61	57	53	54	51	48	44	44
3	82	71	63	56	77	67	60	54	60	54	49	54	49	44	47	44	40	37	37
4	75	63	54	47	70	60	51	45	53	47	41	48	42	38	42	38	34	31	31
5	69	56	47	40	65	53	45	39	48	41	36	43	37	33	38	33	30	27	27
6	63	50	41	35	60	48	40	34	43	36	31	39	33	29	34	30	26	23	23
7	59	45	37	31	55	43	35	29	39	32	27	35	29	25	31	27	23	21	21
8	54	41	33	27	51	39	32	26	36	29	24	32	26	22	29	24	21	18	18
9	51	38	30	24	48	36	28	23	33	26	22	29	24	20	27	22	19	16	16
10	47	35	27	22	45	33	26	21	30	24	20	27	22	18	25	20	17	15	15

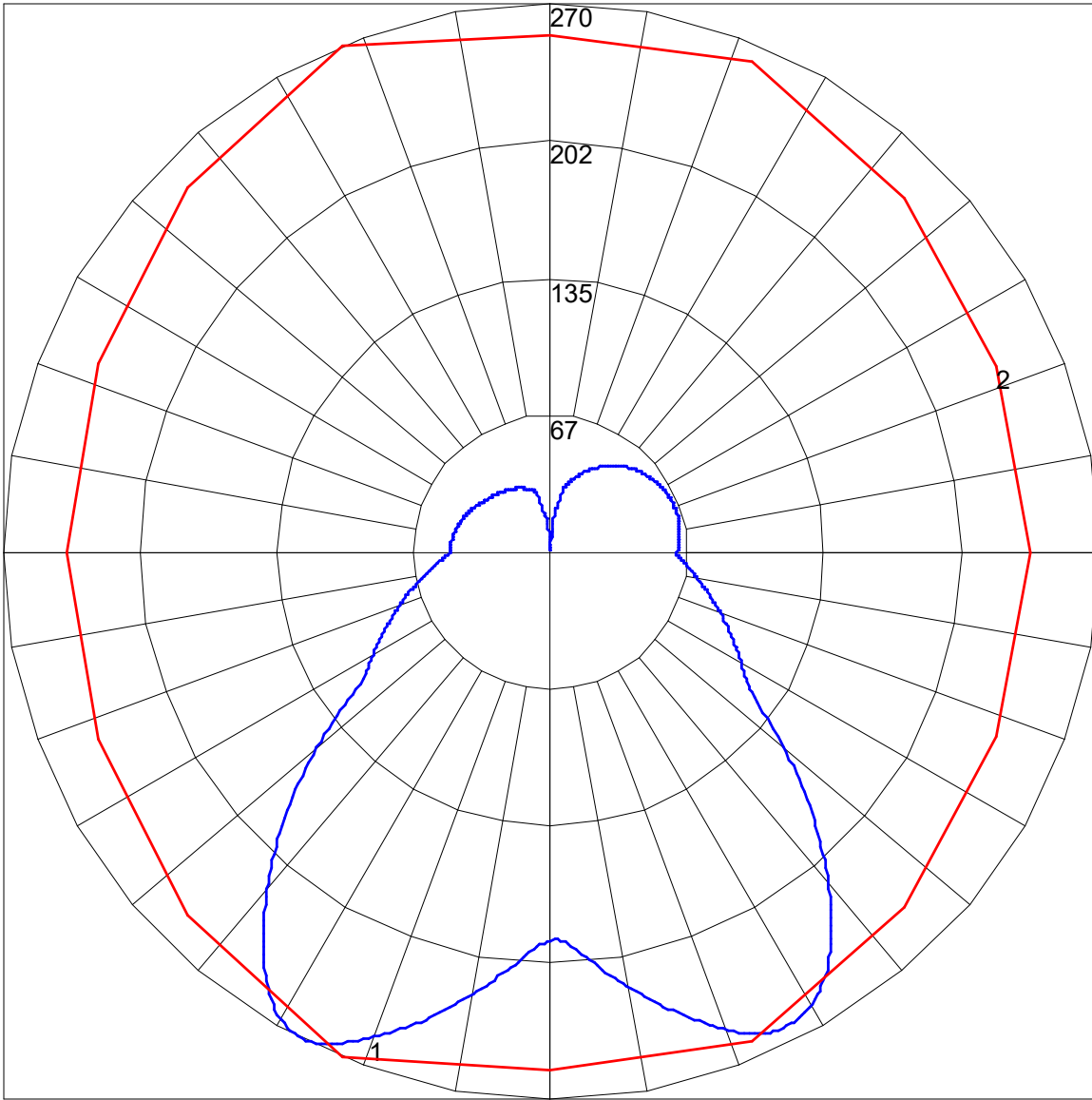
IES INDOOR REPORT
PHOTOMETRIC FILENAME : CNDL 3 LIGHT.IES

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	11.9	13.1	12.6	13.8	14.8	10.1	11.3	10.9	12.1	13.0
	3H	14.2	15.3	14.9	16.0	17.0	12.0	13.0	12.7	13.8	14.8
	4H	15.3	16.3	16.1	17.1	18.1	12.8	13.8	13.5	14.5	15.5
	6H	16.4	17.3	17.2	18.1	19.1	13.5	14.4	14.3	15.2	16.2
	8H	16.9	17.8	17.7	18.6	19.6	13.8	14.7	14.6	15.5	16.5
	12H	17.4	18.2	18.2	19.1	20.1	14.1	15.0	14.9	15.8	16.8
4H	2H	12.5	13.5	13.3	14.3	15.3	11.1	12.1	11.9	12.9	13.9
	3H	15.1	15.9	15.9	16.8	17.8	13.1	14.0	13.9	14.8	15.8
	4H	16.4	17.2	17.2	18.0	19.0	14.1	14.9	14.9	15.7	16.7
	6H	17.6	18.3	18.4	19.2	20.2	14.9	15.6	15.8	16.5	17.5
	8H	18.2	18.9	19.0	19.7	20.8	15.3	16.0	16.2	16.8	17.9
	12H	18.8	19.4	19.7	20.3	21.3	15.7	16.3	16.6	17.2	18.2
8H	4H	16.8	17.4	17.6	18.3	19.3	14.8	15.4	15.6	16.3	17.3
	6H	18.3	18.8	19.1	19.7	20.7	15.9	16.4	16.7	17.3	18.3
	8H	19.0	19.5	19.9	20.4	21.5	16.4	16.9	17.2	17.8	18.8
	12H	19.8	20.3	20.7	21.1	22.2	16.9	17.3	17.7	18.2	19.3
12H	4H	16.9	17.5	17.7	18.3	19.4	15.0	15.6	15.8	16.4	17.5
	6H	18.4	18.9	19.3	19.8	20.9	16.2	16.7	17.0	17.5	18.6
	8H	19.3	19.7	20.1	20.6	21.7	16.8	17.2	17.6	18.1	19.2

Maximum UGR = 22.2

POLAR GRAPH



Maximum Candela = 269.95 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.)