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IES INDOOR REPORT
PHOTOMETRIC FILENAME : ALR 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] Alabaster Rocks (ALR) 1-Light Wall Sconce
[LUMINAIRE] Justice Design Group - Wall mount bathroom luminaire. Product ID: ALR 1-Light
[MORE] Steel formed housing and shaved alabaster rock in resin cast lens.
[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	454
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	61
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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : ALR 1 LIGHT.IES

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2430	2320	4000
55	2049	1793	2597
65	1832	1523	1940
75	1701	1350	1691
85	1638	1249	1517

IES INDOOR REPORT
PHOTOMETRIC FILENAME : ALR 1 LIGHT.IES

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	71.143	71.143	71.143	71.143	71.143	71.143	71.143	71.143	71.143
0.5	70.454	70.659	70.930	70.963	71.192	71.479	71.701	71.717	71.725
1.0	70.635	70.873	70.987	71.037	71.283	71.742	72.094	72.234	72.340
1.5	71.201	71.340	71.340	71.217	71.520	72.119	72.636	72.964	73.095
2.0	71.832	71.889	71.848	71.496	71.799	72.529	73.267	73.775	73.939
2.5	72.603	72.652	72.439	71.914	72.152	73.021	73.980	74.669	74.858
3.0	73.521	73.365	73.095	72.406	72.513	73.529	74.784	75.555	75.809
3.5	74.448	74.226	73.825	72.906	72.931	74.054	75.530	76.481	76.883
4.0	75.407	75.178	74.505	73.464	73.349	74.669	76.358	77.424	77.818
4.5	76.375	76.039	75.292	73.989	73.800	75.284	77.162	78.408	78.868
5.0	77.285	77.023	76.055	74.554	74.226	75.891	77.916	79.310	79.860
5.5	78.203	77.884	76.818	75.186	74.694	76.498	78.745	80.311	80.844
6.0	79.261	78.835	77.597	75.793	75.161	77.154	79.614	81.303	81.992
6.5	80.212	79.753	78.433	76.383	75.596	77.777	80.426	82.262	82.902
7.0	81.164	80.639	79.220	77.014	76.096	78.408	81.295	83.263	83.952
7.5	82.107	81.631	80.024	77.638	76.588	79.064	82.164	84.239	84.968
8.0	83.000	82.541	80.852	78.236	77.080	79.712	82.984	85.190	85.944
8.5	83.919	83.484	81.647	78.868	77.531	80.368	83.845	86.141	86.920
9.0	84.952	84.362	82.459	79.499	78.056	81.016	84.731	87.059	87.896
9.5	85.920	85.272	83.287	80.114	78.589	81.680	85.493	87.953	88.872
10.0	86.846	86.223	84.075	80.754	79.048	82.295	86.313	88.945	89.831
10.5	87.765	87.223	84.903	81.418	79.540	82.959	87.166	89.856	90.799
11.0	88.814	88.084	85.698	82.049	80.032	83.615	87.953	90.766	91.758
11.5	89.798	89.003	86.477	82.738	80.532	84.271	88.781	91.643	92.652
12.0	90.708	89.946	87.305	83.369	81.032	84.927	89.585	92.586	93.578
12.5	91.455	90.790	88.166	83.984	81.516	85.608	90.372	93.406	94.489
13.0	91.979	91.619	88.929	84.624	81.984	86.239	91.168	94.308	95.300
13.5	92.307	92.275	89.774	85.247	82.492	86.904	91.938	95.136	95.981
14.0	92.414	92.693	90.528	85.821	82.984	87.519	92.693	95.891	96.432
14.5	92.668	93.037	91.323	86.469	83.419	88.150	93.439	96.506	96.678
15.0	92.857	93.259	92.070	87.092	83.960	88.773	94.226	96.949	96.785
15.5	93.045	93.431	92.783	87.724	84.452	89.364	94.940	97.121	96.752
16.0	93.111	93.652	93.390	88.347	84.870	89.995	95.653	97.227	96.703
16.5	93.193	93.677	93.939	88.929	85.321	90.602	96.383	97.211	96.588
17.0	93.201	93.734	94.415	89.519	85.854	91.168	97.031	97.129	96.416
17.5	93.308	93.857	94.792	90.134	86.280	91.733	97.588	97.039	96.350
18.0	93.250	93.841	95.030	90.700	86.731	92.340	98.088	96.883	96.129
18.5	93.308	93.833	95.235	91.274	87.207	92.890	98.400	96.735	95.907
19.0	93.291	93.874	95.325	91.848	87.666	93.472	98.572	96.571	95.694
19.5	93.168	93.751	95.391	92.430	88.125	94.005	98.638	96.391	95.448
20.0	93.013	93.718	95.415	92.947	88.560	94.587	98.605	96.145	95.251
20.5	92.881	93.644	95.407	93.521	89.044	95.112	98.515	95.932	94.964
21.0	92.578	93.439	95.374	94.038	89.487	95.661	98.384	95.686	94.694
21.5	92.414	93.234	95.309	94.579	89.946	96.202	98.211	95.382	94.423
22.0	92.250	93.078	95.202	95.071	90.405	96.694	98.031	95.104	94.070
22.5	91.979	92.808	95.095	95.538	90.872	97.219	97.851	94.759	93.652
23.0	91.717	92.488	94.981	95.948	91.307	97.678	97.596	94.398	93.308
23.5	91.340	92.111	94.751	96.235	91.692	98.162	97.309	94.054	92.840
24.0	90.979	91.717	94.546	96.481	92.152	98.613	97.031	93.587	92.365
24.5	90.667	91.397	94.308	96.694	92.553	99.056	96.719	93.070	91.938
25.0	90.290	90.963	93.980	96.867	92.963	99.441	96.366	92.635	91.455
25.5	89.872	90.553	93.669	96.998	93.373	99.737	96.030	92.111	90.905
26.0	89.413	90.085	93.283	97.031	93.726	99.999	95.587	91.545	90.380
26.5	88.978	89.601	92.881	97.129	94.103	100.163	95.186	91.004	89.757

IES INDOOR REPORT
PHOTOMETRIC FILENAME : ALR 1 LIGHT.IES

CANDELA TABULATION - (Cont.)

27.0	88.380	89.068	92.430	97.096	94.448	100.237	94.735	90.372	89.167
27.5	87.970	88.617	91.963	97.031	94.784	100.253	94.202	89.790	88.560
28.0	87.363	88.068	91.414	96.875	95.095	100.188	93.669	89.142	87.904
28.5	86.781	87.428	90.856	96.703	95.448	99.991	93.086	88.478	87.199
29.0	86.223	86.822	90.307	96.391	95.792	99.737	92.455	87.765	86.494
29.5	85.608	86.248	89.683	96.071	96.104	99.392	91.815	87.051	85.772
30.0	84.993	85.616	89.019	95.678	96.358	98.958	91.127	86.321	84.977
30.5	84.222	84.960	88.339	95.194	96.686	98.490	90.356	85.534	84.148
31.0	83.615	84.353	87.625	94.767	96.940	97.965	89.610	84.731	83.369
31.5	82.959	83.656	86.936	94.259	97.227	97.391	88.822	83.943	82.492
32.0	82.180	82.927	86.248	93.669	97.506	96.727	88.019	83.115	81.672
32.5	81.475	82.238	85.436	93.095	97.670	95.997	87.174	82.230	80.704
33.0	80.713	81.467	84.681	92.414	97.875	95.202	86.354	81.328	79.811
33.5	79.835	80.762	83.919	91.692	98.031	94.423	85.501	80.401	78.745
34.0	79.122	79.950	83.074	91.012	97.982	93.488	84.583	79.507	77.843
34.5	78.359	79.163	82.287	90.167	97.859	92.594	83.689	78.556	76.850
35.0	77.457	78.335	81.434	89.323	97.449	91.660	82.713	77.588	75.793
35.5	76.654	77.572	80.614	88.453	96.891	90.692	81.795	76.613	74.751
36.0	75.801	76.678	79.729	87.543	96.170	89.667	80.836	75.555	73.759
36.5	74.899	75.842	78.900	86.559	95.317	88.691	79.860	74.587	72.668
37.0	74.103	75.005	78.015	85.551	94.243	87.592	78.859	73.570	71.627
37.5	73.251	74.128	77.080	84.526	92.898	86.518	77.843	72.488	70.520
38.0	72.349	73.226	76.227	83.501	91.414	85.436	76.842	71.422	69.429
38.5	71.479	72.332	75.292	82.402	89.872	84.296	75.752	70.299	68.372
39.0	70.602	71.479	74.399	81.311	88.281	83.205	74.718	69.233	67.297
39.5	69.766	70.561	73.472	80.180	86.690	82.057	73.644	68.109	66.166
40.0	69.044	69.684	72.521	79.056	85.091	80.926	72.586	67.010	65.108
40.5	68.208	68.790	71.570	77.949	83.574	79.761	71.463	65.903	64.009
41.0	67.363	67.929	70.643	76.785	82.057	78.622	70.372	64.796	62.951
41.5	66.732	67.084	69.651	75.702	80.590	77.457	69.241	63.673	61.935
42.0	66.043	66.240	68.683	74.563	79.228	76.293	68.126	62.574	60.910
42.5	65.469	65.403	67.691	73.415	77.826	75.104	66.961	61.492	59.926
43.0	64.977	64.624	66.723	72.283	76.506	73.939	65.797	60.434	58.901
43.5	64.550	63.952	65.723	71.094	75.268	72.718	64.657	59.417	58.048
44.0	64.198	63.271	64.755	69.930	74.030	71.488	63.443	58.343	57.220
44.5	63.673	62.746	63.780	68.831	72.832	70.282	62.271	57.400	56.441
45.0	63.238	62.238	62.779	67.593	71.635	69.003	61.082	56.490	55.809
45.5	62.828	61.754	61.861	66.453	70.520	67.789	59.958	55.662	55.186
46.0	62.377	61.352	60.901	65.288	69.339	66.494	58.794	54.891	54.596
46.5	61.902	60.893	59.967	64.124	68.232	65.198	57.638	54.218	53.972
47.0	61.418	60.409	59.097	62.894	67.043	63.911	56.441	53.595	53.341
47.5	60.992	59.983	58.195	61.713	65.838	62.582	55.350	52.972	52.710
48.0	60.557	59.548	57.425	60.532	64.632	61.262	54.259	52.382	52.054
48.5	60.081	59.048	56.670	59.286	63.386	59.901	53.169	51.758	51.504
49.0	59.696	58.605	56.022	58.122	62.115	58.605	52.168	51.160	50.914
49.5	59.253	58.146	55.358	56.892	60.811	57.252	51.201	50.545	50.299
50.0	58.819	57.712	54.776	55.703	59.483	55.965	50.348	49.979	49.749
50.5	58.384	57.244	54.177	54.563	58.089	54.628	49.544	49.364	49.175
51.0	57.990	56.826	53.669	53.448	56.695	53.284	48.815	48.806	48.569
51.5	57.630	56.350	53.210	52.201	55.293	51.980	48.167	48.208	48.052
52.0	57.154	55.965	52.800	51.111	53.808	50.684	47.552	47.691	47.519
52.5	56.826	55.539	52.341	50.012	52.291	49.405	47.027	47.125	46.978
53.0	56.416	55.096	51.906	48.880	50.856	48.142	46.437	46.543	46.445
53.5	56.072	54.694	51.455	47.904	49.372	46.945	45.887	46.117	45.904
54.0	55.719	54.333	51.037	46.896	47.921	45.756	45.362	45.526	45.420
54.5	55.252	53.907	50.594	45.977	46.543	44.665	44.829	45.026	44.977

**IES INDOOR REPORT
PHOTOMETRIC FILENAME : ALR 1 LIGHT.IES**

CANDELA TABULATION - (Cont.)

55.0	54.883	53.579	50.168	45.149	45.141	43.558	44.305	44.501	44.452
55.5	54.637	53.210	49.733	44.460	43.821	42.525	43.780	44.026	44.018
56.0	54.300	52.833	49.331	43.755	42.492	41.656	43.255	43.542	43.526
56.5	53.964	52.455	48.880	43.189	41.254	40.828	42.747	43.075	43.050
57.0	53.677	52.152	48.478	42.583	40.098	40.196	42.271	42.591	42.607
57.5	53.333	51.742	48.077	42.009	38.950	39.696	41.779	42.123	42.164
58.0	53.062	51.414	47.650	41.590	37.884	39.286	41.254	41.681	41.713
58.5	52.685	51.111	47.289	41.271	36.949	38.852	40.787	41.221	41.238
59.0	52.431	50.766	46.912	40.885	36.154	38.450	40.328	40.754	40.820
59.5	52.111	50.438	46.519	40.549	35.498	38.056	39.836	40.352	40.442
60.0	51.767	50.135	46.158	40.196	35.006	37.646	39.409	39.909	39.967
60.5	51.463	49.823	45.805	39.836	34.596	37.212	38.950	39.450	39.598
61.0	51.193	49.503	45.436	39.458	34.260	36.785	38.483	39.048	39.122
61.5	50.971	49.225	45.018	39.122	33.956	36.383	38.073	38.622	38.770
62.0	50.643	48.897	44.706	38.704	33.669	35.990	37.622	38.212	38.319
62.5	50.340	48.585	44.354	38.368	33.333	35.563	37.220	37.810	37.892
63.0	50.077	48.282	43.985	37.999	33.013	35.153	36.810	37.351	37.540
63.5	49.733	47.978	43.657	37.638	32.685	34.743	36.392	36.998	37.105
64.0	49.462	47.716	43.353	37.294	32.349	34.374	35.957	36.605	36.736
64.5	49.266	47.421	42.993	36.908	32.005	33.956	35.580	36.228	36.334
65.0	48.987	47.125	42.722	36.564	31.677	33.579	35.178	35.818	35.957
65.5	48.675	46.838	42.353	36.236	31.332	33.144	34.735	35.481	35.572
66.0	48.405	46.584	42.058	35.875	30.996	32.775	34.366	35.088	35.203
66.5	48.167	46.273	41.730	35.498	30.668	32.398	33.956	34.702	34.858
67.0	47.913	46.035	41.410	35.219	30.274	31.988	33.538	34.317	34.473
67.5	47.609	45.748	41.082	34.875	29.971	31.586	33.202	33.956	34.096
68.0	47.347	45.453	40.795	34.481	29.651	31.267	32.833	33.579	33.759
68.5	47.117	45.182	40.500	34.178	29.290	30.840	32.447	33.251	33.440
69.0	46.879	44.944	40.180	33.841	28.938	30.512	32.111	32.882	33.013
69.5	46.617	44.665	39.893	33.481	28.610	30.160	31.734	32.529	32.685
70.0	46.387	44.428	39.573	33.185	28.257	29.758	31.398	32.185	32.374
70.5	46.084	44.149	39.253	32.866	27.913	29.405	31.037	31.857	31.947
71.0	45.822	43.886	39.024	32.497	27.577	29.053	30.676	31.480	31.660
71.5	45.617	43.681	38.737	32.210	27.249	28.700	30.324	31.160	31.324
72.0	45.379	43.411	38.433	31.873	26.929	28.323	29.996	30.807	30.996
72.5	45.157	43.157	38.179	31.529	26.593	27.995	29.651	30.496	30.652
73.0	44.887	42.911	37.900	31.258	26.265	27.642	29.331	30.143	30.332
73.5	44.633	42.681	37.613	30.922	25.937	27.290	28.979	29.840	29.996
74.0	44.460	42.410	37.351	30.594	25.625	26.953	28.667	29.512	29.692
74.5	44.272	42.156	37.056	30.324	25.272	26.609	28.339	29.192	29.356
75.0	44.001	41.951	36.802	30.037	24.985	26.306	28.036	28.897	29.020
75.5	43.731	41.697	36.572	29.709	24.674	25.994	27.708	28.544	28.716
76.0	43.509	41.467	36.318	29.430	24.338	25.641	27.380	28.241	28.388
76.5	43.247	41.238	36.031	29.151	24.018	25.354	27.068	27.929	28.101
77.0	42.984	40.992	35.826	28.856	23.739	25.043	26.740	27.642	27.806
77.5	42.853	40.795	35.555	28.552	23.411	24.698	26.445	27.314	27.536
78.0	42.607	40.549	35.268	28.290	23.140	24.420	26.150	27.011	27.208
78.5	42.328	40.303	35.063	27.962	22.821	24.116	25.855	26.716	26.921
79.0	42.181	40.073	34.817	27.724	22.525	23.788	25.543	26.429	26.568
79.5	41.894	39.852	34.538	27.478	22.230	23.485	25.248	26.117	26.297
80.0	41.763	39.622	34.333	27.158	21.951	23.190	24.953	25.830	26.010
80.5	41.525	39.426	34.071	26.912	21.689	22.903	24.641	25.568	25.756
81.0	41.287	39.212	33.833	26.650	21.402	22.607	24.395	25.264	25.420
81.5	41.131	38.958	33.620	26.388	21.164	22.361	24.116	24.994	25.149
82.0	40.861	38.745	33.366	26.158	20.894	22.066	23.805	24.748	24.895
82.5	40.680	38.573	33.112	25.920	20.615	21.763	23.542	24.469	24.625

**IES INDOOR REPORT
PHOTOMETRIC FILENAME : ALR 1 LIGHT.IES**

CANDELA TABULATION - (Cont.)

83.0	40.410	38.319	32.915	25.650	20.344	21.517	23.280	24.190	24.338
83.5	40.213	38.138	32.693	25.404	20.098	21.263	23.001	23.903	24.051
84.0	40.041	37.941	32.447	25.199	19.844	20.984	22.755	23.665	23.780
84.5	39.827	37.704	32.267	24.936	19.606	20.721	22.476	23.370	23.501
85.0	39.655	37.490	32.054	24.723	19.385	20.459	22.238	23.132	23.304
85.5	39.467	37.294	31.816	24.502	19.122	20.180	22.009	22.870	23.017
86.0	39.270	37.089	31.611	24.264	18.909	19.959	21.714	22.558	22.812
86.5	39.065	36.925	31.447	24.059	18.671	19.705	21.468	22.329	22.476
87.0	38.843	36.720	31.209	23.903	18.458	19.467	21.246	22.115	22.247
87.5	38.663	36.506	31.037	23.657	18.294	19.245	21.000	21.845	22.033
88.0	38.491	36.383	30.865	23.501	18.048	19.024	20.787	21.623	21.763
88.5	38.302	36.195	30.676	23.329	17.901	18.803	20.557	21.402	21.525
89.0	38.269	36.088	30.537	23.140	17.728	18.647	20.336	21.148	21.254
89.5	38.286	36.080	30.537	23.124	17.605	18.483	20.131	20.943	21.049
90.0	38.212	36.129	30.594	23.157	17.671	18.442	20.049	20.820	20.910
90.5	38.335	36.178	30.602	23.181	17.671	18.458	20.000	20.754	20.869
91.0	38.442	36.211	30.652	23.231	17.655	18.458	19.959	20.721	20.828
91.5	38.474	36.310	30.693	23.280	17.712	18.466	19.951	20.705	20.754
92.0	38.540	36.301	30.775	23.263	17.720	18.466	19.910	20.639	20.730
92.5	38.589	36.367	30.807	23.329	17.769	18.442	19.877	20.574	20.672
93.0	38.655	36.424	30.807	23.386	17.753	18.393	19.877	20.549	20.639
93.5	38.753	36.465	30.922	23.411	17.835	18.401	19.877	20.516	20.582
94.0	38.794	36.547	30.955	23.477	17.819	18.384	19.803	20.484	20.516
94.5	38.852	36.572	31.004	23.493	17.860	18.343	19.828	20.426	20.418
95.0	38.975	36.629	31.037	23.534	17.860	18.343	19.770	20.311	20.361
95.5	38.958	36.720	31.078	23.583	17.884	18.335	19.729	20.279	20.336
96.0	39.057	36.761	31.135	23.616	17.901	18.319	19.688	20.238	20.229
96.5	39.106	36.802	31.234	23.641	17.950	18.294	19.639	20.147	20.180
97.0	39.163	36.859	31.217	23.698	17.942	18.278	19.614	20.090	20.074
97.5	39.204	36.908	31.267	23.764	17.950	18.237	19.590	20.074	20.033
98.0	39.294	36.916	31.324	23.755	18.015	18.253	19.516	19.992	19.967
98.5	39.303	36.990	31.365	23.829	18.024	18.204	19.491	19.934	19.885
99.0	39.352	37.039	31.365	23.895	18.048	18.155	19.475	19.869	19.819
99.5	39.409	37.056	31.422	23.870	18.065	18.155	19.385	19.803	19.705
100.0	39.426	37.097	31.447	23.919	18.106	18.122	19.368	19.746	19.655
100.5	39.491	37.105	31.455	23.960	18.114	18.097	19.344	19.664	19.573
101.0	39.483	37.130	31.488	24.010	18.155	18.065	19.295	19.573	19.491
101.5	39.573	37.146	31.521	24.026	18.171	18.007	19.237	19.524	19.377
102.0	39.540	37.171	31.513	24.067	18.237	17.991	19.180	19.434	19.344
102.5	39.565	37.171	31.521	24.075	18.237	17.966	19.106	19.352	19.262
103.0	39.573	37.195	31.537	24.108	18.286	17.901	19.040	19.286	19.188
103.5	39.573	37.203	31.521	24.157	18.270	17.876	18.991	19.237	19.040
104.0	39.639	37.212	31.488	24.108	18.286	17.835	18.917	19.155	19.008
104.5	39.655	37.244	31.496	24.157	18.302	17.786	18.819	19.057	18.876
105.0	39.581	37.253	31.480	24.182	18.352	17.737	18.729	18.999	18.786
105.5	39.622	37.203	31.472	24.133	18.368	17.696	18.639	18.893	18.680
106.0	39.655	37.212	31.496	24.149	18.343	17.663	18.548	18.778	18.614
106.5	39.639	37.228	31.480	24.149	18.368	17.622	18.466	18.696	18.507
107.0	39.663	37.228	31.455	24.141	18.343	17.589	18.368	18.573	18.425
107.5	39.639	37.203	31.447	24.133	18.343	17.540	18.286	18.475	18.286
108.0	39.639	37.195	31.431	24.174	18.368	17.441	18.196	18.311	18.147
108.5	39.655	37.187	31.447	24.133	18.335	17.425	18.114	18.212	17.999
109.0	39.581	37.179	31.406	24.133	18.352	17.335	18.024	18.073	17.909
109.5	39.606	37.121	31.365	24.100	18.311	17.310	17.933	17.966	17.704
110.0	39.565	37.130	31.340	24.100	18.335	17.269	17.843	17.802	17.638
110.5	39.573	37.064	31.340	24.092	18.302	17.220	17.728	17.720	17.433

IES INDOOR REPORT
PHOTOMETRIC FILENAME : ALR 1 LIGHT.IES

CANDELA TABULATION - (Cont.)

111.0	39.524	37.072	31.308	24.116	18.311	17.171	17.655	17.581	17.286
111.5	39.499	37.048	31.308	24.083	18.270	17.130	17.523	17.466	17.212
112.0	39.401	37.031	31.275	24.075	18.261	17.048	17.441	17.318	17.031
112.5	39.426	36.998	31.209	24.051	18.278	17.023	17.368	17.204	16.867
113.0	39.409	36.949	31.209	24.026	18.270	16.949	17.277	17.081	16.720
113.5	39.360	36.908	31.168	23.993	18.245	16.917	17.146	16.908	16.605
114.0	39.294	36.884	31.111	23.993	18.237	16.876	17.064	16.818	16.474
114.5	39.311	36.834	31.086	23.952	18.229	16.794	16.982	16.630	16.310
115.0	39.212	36.777	31.012	23.919	18.188	16.744	16.810	16.449	16.121
115.5	39.180	36.785	30.980	23.895	18.196	16.679	16.769	16.285	15.974
116.0	39.098	36.670	30.914	23.837	18.130	16.671	16.630	16.064	15.801
116.5	39.106	36.638	30.873	23.829	18.155	16.572	16.490	15.892	15.629
117.0	38.999	36.580	30.807	23.788	18.114	16.539	16.433	15.736	15.334
117.5	38.909	36.498	30.783	23.747	18.073	16.482	16.343	15.514	15.178
118.0	38.860	36.441	30.684	23.682	18.040	16.408	16.211	15.350	14.916
118.5	38.786	36.408	30.635	23.649	17.991	16.351	16.097	15.170	14.727
119.0	38.688	36.301	30.578	23.632	17.966	16.302	16.031	14.981	14.498
119.5	38.606	36.252	30.520	23.591	17.966	16.252	15.883	14.768	14.252
120.0	38.532	36.203	30.471	23.526	17.909	16.195	15.818	14.547	14.030
120.5	38.474	36.072	30.406	23.444	17.868	16.113	15.695	14.350	13.817
121.0	38.392	36.014	30.307	23.444	17.802	16.056	15.564	14.170	13.596
121.5	38.245	35.957	30.225	23.403	17.802	15.974	15.506	13.989	13.366
122.0	38.179	35.834	30.168	23.304	17.778	15.908	15.391	13.784	13.128
122.5	38.064	35.752	30.110	23.247	17.712	15.883	15.285	13.612	12.931
123.0	37.974	35.678	30.004	23.222	17.671	15.785	15.195	13.423	12.710
123.5	37.851	35.522	29.914	23.116	17.638	15.736	15.104	13.259	12.439
124.0	37.835	35.408	29.856	23.083	17.622	15.687	14.957	13.063	12.259
124.5	37.630	35.326	29.766	23.026	17.556	15.605	14.883	12.899	12.062
125.0	37.490	35.194	29.684	22.960	17.499	15.588	14.809	12.718	11.857
125.5	37.351	35.088	29.561	22.870	17.458	15.514	14.719	12.562	11.701
126.0	37.187	34.940	29.471	22.821	17.441	15.482	14.662	12.423	11.529
126.5	37.121	34.801	29.364	22.739	17.400	15.441	14.555	12.259	11.357
127.0	36.875	34.694	29.274	22.698	17.376	15.400	14.432	12.128	11.185
127.5	36.711	34.530	29.151	22.624	17.343	15.334	14.366	12.013	11.054
128.0	36.597	34.383	29.044	22.534	17.286	15.318	14.293	11.833	10.906
128.5	36.416	34.219	28.930	22.484	17.286	15.301	14.186	11.685	10.767
129.0	36.236	34.128	28.831	22.394	17.212	15.227	14.104	11.521	10.627
129.5	36.113	33.948	28.692	22.337	17.179	15.178	14.047	11.382	10.537
130.0	35.875	33.833	28.577	22.222	17.146	15.088	13.899	11.250	10.406
130.5	35.736	33.669	28.446	22.165	17.146	15.063	13.842	11.127	10.234
131.0	35.572	33.505	28.323	22.115	17.064	15.014	13.760	11.013	10.160
131.5	35.432	33.366	28.216	22.009	17.031	14.981	13.661	10.857	10.086
132.0	35.194	33.202	28.060	21.984	17.007	14.949	13.579	10.742	9.947
132.5	34.981	32.989	27.946	21.861	16.958	14.899	13.522	10.619	9.824
133.0	34.834	32.833	27.814	21.763	16.884	14.850	13.423	10.512	9.799
133.5	34.612	32.669	27.675	21.697	16.876	14.809	13.350	10.430	9.676
134.0	34.432	32.472	27.544	21.599	16.802	14.793	13.259	10.316	9.635
134.5	34.260	32.292	27.404	21.492	16.794	14.744	13.202	10.193	9.528
135.0	34.055	32.119	27.232	21.394	16.728	14.678	13.120	10.119	9.446
135.5	33.858	31.898	27.126	21.312	16.679	14.686	13.038	10.029	9.364
136.0	33.636	31.783	26.962	21.213	16.621	14.596	12.940	9.881	9.258
136.5	33.431	31.595	26.822	21.148	16.580	14.555	12.849	9.815	9.151
137.0	33.202	31.373	26.675	21.025	16.539	14.506	12.817	9.717	9.036
137.5	32.972	31.185	26.527	20.935	16.457	14.465	12.694	9.602	8.995
138.0	32.726	30.988	26.371	20.853	16.441	14.391	12.653	9.553	8.971
138.5	32.538	30.775	26.240	20.746	16.392	14.391	12.620	9.471	8.864

IES INDOOR REPORT
PHOTOMETRIC FILENAME : ALR 1 LIGHT.IES

CANDELA TABULATION - (Cont.)

139.0	32.292	30.602	26.068	20.623	16.302	14.366	12.505	9.356	8.799
139.5	32.078	30.381	25.904	20.525	16.261	14.309	12.448	9.291	8.717
140.0	31.914	30.184	25.682	20.443	16.236	14.293	12.390	9.200	8.635
140.5	31.685	29.946	25.568	20.287	16.138	14.219	12.284	9.135	8.561
141.0	31.455	29.791	25.387	20.229	16.105	14.161	12.251	9.020	8.462
141.5	31.258	29.528	25.240	20.098	16.039	14.153	12.169	8.938	8.380
142.0	31.021	29.331	25.051	19.967	15.957	14.104	12.103	8.840	8.282
142.5	30.734	29.126	24.895	19.869	15.908	14.047	12.062	8.799	8.184
143.0	30.504	28.889	24.715	19.737	15.851	14.030	12.005	8.667	8.159
143.5	30.258	28.651	24.518	19.606	15.785	13.956	11.906	8.594	8.085
144.0	30.028	28.429	24.346	19.508	15.695	13.899	11.890	8.528	8.036
144.5	29.782	28.200	24.174	19.401	15.637	13.915	11.874	8.479	7.979
145.0	29.520	28.003	24.018	19.237	15.564	13.850	11.783	8.372	7.938
145.5	29.282	27.773	23.837	19.147	15.514	13.792	11.726	8.331	7.929
146.0	29.012	27.527	23.641	19.024	15.432	13.727	11.701	8.274	7.979
146.5	28.774	27.273	23.436	18.893	15.342	13.702	11.628	8.151	7.970
147.0	28.536	27.052	23.280	18.762	15.260	13.653	11.636	8.093	7.946
147.5	28.290	26.773	23.091	18.630	15.236	13.612	11.562	8.044	7.970
148.0	27.995	26.543	22.886	18.507	15.129	13.555	11.513	7.979	7.987
148.5	27.716	26.322	22.714	18.368	15.088	13.505	11.472	7.905	8.003
149.0	27.421	26.101	22.509	18.253	14.990	13.473	11.455	7.831	8.044
149.5	27.216	25.846	22.312	18.089	14.899	13.448	11.406	7.798	8.085
150.0	26.937	25.568	22.115	17.974	14.801	13.366	11.365	7.741	8.077
150.5	26.666	25.354	21.910	17.843	14.752	13.350	11.341	7.708	8.126
151.0	26.404	25.059	21.730	17.679	14.662	13.284	11.291	7.700	8.184
151.5	26.166	24.821	21.541	17.564	14.580	13.251	11.250	7.634	8.151
152.0	25.822	24.600	21.320	17.450	14.506	13.186	11.218	7.560	8.134
152.5	25.543	24.313	21.140	17.277	14.407	13.153	11.152	7.552	8.167
153.0	25.330	24.042	20.894	17.105	14.342	13.112	11.160	7.519	8.159
153.5	25.002	23.805	20.721	16.974	14.243	13.046	11.144	7.511	8.192
154.0	24.723	23.542	20.500	16.843	14.161	12.989	11.078	7.495	8.167
154.5	24.420	23.263	20.270	16.679	14.088	12.931	11.078	7.495	8.151
155.0	24.116	22.976	20.074	16.523	14.014	12.866	11.029	7.487	8.151
155.5	23.846	22.698	19.869	16.359	13.915	12.817	10.963	7.503	8.200
156.0	23.583	22.452	19.647	16.244	13.817	12.784	10.963	7.511	8.200
156.5	23.222	22.181	19.409	16.064	13.760	12.710	10.963	7.478	8.249
157.0	23.001	21.927	19.221	15.892	13.628	12.661	10.914	7.413	8.233
157.5	22.681	21.648	18.983	15.736	13.522	12.579	10.898	7.380	8.192
158.0	22.394	21.345	18.794	15.605	13.448	12.538	10.890	7.323	8.192
158.5	22.140	21.107	18.598	15.424	13.325	12.472	10.849	7.216	8.184
159.0	21.820	20.844	18.343	15.260	13.227	12.382	10.832	7.175	8.192
159.5	21.525	20.549	18.130	15.121	13.128	12.357	10.816	7.077	8.200
160.0	21.222	20.254	17.901	14.916	13.022	12.267	10.758	7.068	8.192
160.5	20.951	19.983	17.687	14.760	12.931	12.234	10.709	7.027	8.184
161.0	20.631	19.688	17.441	14.612	12.841	12.152	10.660	7.011	8.249
161.5	20.287	19.409	17.236	14.399	12.718	12.087	10.586	6.913	8.282
162.0	19.967	19.131	16.958	14.219	12.620	12.005	10.512	6.847	8.323
162.5	19.664	18.844	16.744	14.079	12.562	11.947	10.398	6.773	8.323
163.0	19.360	18.540	16.515	13.891	12.407	11.865	10.143	6.724	8.339
163.5	19.032	18.270	16.261	13.727	12.341	11.783	9.873	6.601	8.389
164.0	18.762	17.966	16.039	13.571	12.243	11.759	9.537	6.396	8.364
164.5	18.425	17.655	15.801	13.350	12.120	11.660	9.118	6.216	8.208
165.0	18.106	17.343	15.564	13.177	12.005	11.505	8.733	6.125	7.962
165.5	17.761	17.064	15.318	12.981	11.898	11.324	8.323	6.084	7.634
166.0	17.466	16.761	15.063	12.825	11.759	11.037	7.831	6.052	7.257
166.5	17.113	16.441	14.776	12.653	11.603	10.644	7.421	5.970	6.724

**IES INDOOR REPORT
PHOTOMETRIC FILENAME : ALR 1 LIGHT.IES**

CANDELA TABULATION - (Cont.)

167.0	16.753	16.138	14.547	12.489	11.357	10.225	7.093	5.929	6.093
167.5	16.433	15.834	14.309	12.284	11.004	9.725	6.765	5.756	5.543
168.0	16.064	15.473	13.981	12.128	10.512	9.184	6.560	5.642	4.887
168.5	15.728	15.154	13.735	11.931	10.078	8.676	6.429	5.502	4.280
169.0	15.383	14.858	13.505	11.636	9.487	8.134	6.281	5.232	3.559
169.5	15.022	14.547	13.202	11.275	8.963	7.610	6.224	4.936	2.788
170.0	14.645	14.211	12.899	10.791	8.372	7.208	6.109	4.510	2.075
170.5	14.284	13.784	12.579	10.291	7.872	6.945	5.945	3.985	1.501
171.0	13.915	13.391	12.111	9.766	7.454	6.683	5.814	3.526	0.918
171.5	13.579	13.054	11.710	9.217	7.167	6.535	5.584	3.132	0.607
172.0	13.186	12.677	11.316	8.692	6.913	6.429	5.191	2.665	0.541
172.5	12.849	12.161	10.767	8.307	6.691	6.240	4.731	2.206	0.533
173.0	12.259	11.693	10.242	7.946	6.503	6.027	4.264	1.763	0.508
173.5	11.554	11.160	9.651	7.519	6.265	5.592	3.649	1.492	0.435
174.0	11.177	10.471	8.971	7.175	6.068	4.961	3.018	1.378	0.377
174.5	10.562	9.807	8.356	6.781	5.699	4.330	2.411	1.238	0.320
175.0	9.824	9.094	7.765	6.289	5.166	3.608	1.927	1.132	0.246
175.5	8.864	8.266	7.068	5.789	4.510	2.821	1.648	0.935	0.180
176.0	7.905	7.347	6.380	5.191	3.813	2.140	1.460	0.779	0.238
176.5	6.872	6.314	5.568	4.346	3.001	1.648	1.246	0.549	0.189
177.0	5.666	5.264	4.658	3.485	2.271	1.386	1.050	0.361	0.156
177.5	4.420	4.084	3.797	2.714	1.673	1.222	0.886	0.238	0.156
178.0	3.091	2.862	2.895	1.845	1.230	1.017	0.697	0.197	0.262
178.5	1.968	1.829	1.911	1.173	0.992	0.836	0.525	0.213	0.180
179.0	1.156	1.099	1.025	0.730	0.771	0.664	0.410	0.197	0.205
179.5	0.410	0.623	0.394	0.394	0.533	0.533	0.254	0.205	0.287
180.0	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295

IES INDOOR REPORT
PHOTOMETRIC FILENAME : ALR 1 LIGHT.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	33.43	N.A.	7.40
0-30	76.76	N.A.	16.90
0-40	129.16	N.A.	28.50
0-60	221.01	N.A.	48.70
0-80	292.40	N.A.	64.40
0-90	321.24	N.A.	70.80
10-90	313.67	N.A.	69.10
20-40	95.73	N.A.	21.10
20-50	145.13	N.A.	32.00
40-70	129.70	N.A.	28.60
60-80	71.39	N.A.	15.70
70-80	33.54	N.A.	7.40
80-90	28.85	N.A.	6.40
90-110	52.74	N.A.	11.60
90-120	75.99	N.A.	16.70
90-130	95.42	N.A.	21.00
90-150	121.64	N.A.	26.80
90-180	132.74	N.A.	29.20
110-180	80.00	N.A.	17.60
0-180	453.98	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	7.57
10-20	25.85
20-30	43.33
30-40	52.40
40-50	49.39
50-60	42.46
60-70	37.85
70-80	33.54
80-90	28.85
90-100	26.88
100-110	25.86
110-120	23.25
120-130	19.43
130-140	15.23
140-150	10.99
150-160	7.04
160-170	3.46
170-180	0.60

IES INDOOR REPORT
PHOTOMETRIC FILENAME : ALR 1 LIGHT.IES

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	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	66	63	61	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	48	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	40	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	36	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	19	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 : ALR 1 LIGHT.IES

UGR TABLE - CORRECTED

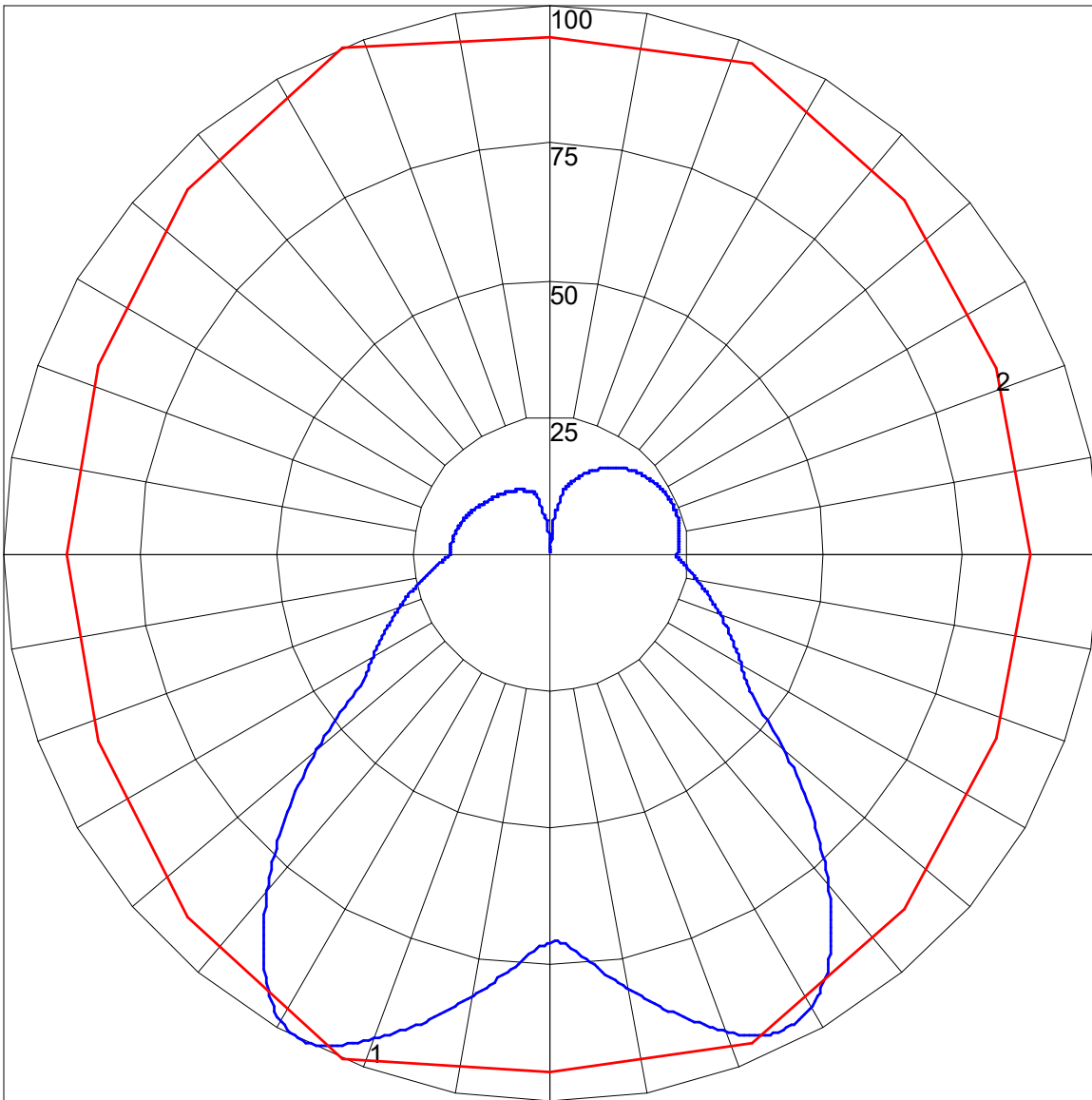
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	12.1	13.2	12.8	14.0	14.9	10.3	11.5	11.0	12.2	13.2
	3H	14.4	15.5	15.1	16.2	17.2	12.1	13.2	12.9	14.0	14.9
	4H	15.5	16.5	16.3	17.3	18.3	13.0	14.0	13.7	14.8	15.7
	6H	16.6	17.6	17.4	18.4	19.3	13.7	14.7	14.5	15.4	16.4
	8H	17.2	18.0	17.9	18.9	19.9	14.1	14.9	14.9	15.8	16.8
	12H	17.7	18.5	18.5	19.3	20.4	14.4	15.2	15.2	16.0	17.1
4H	2H	12.6	13.6	13.4	14.4	15.4	11.1	12.1	11.9	12.9	13.9
	3H	15.2	16.1	16.0	16.9	17.9	13.2	14.1	14.0	14.9	15.9
	4H	16.5	17.3	17.3	18.1	19.1	14.2	15.0	15.0	15.8	16.8
	6H	17.8	18.5	18.6	19.3	20.4	15.1	15.8	15.9	16.6	17.6
	8H	18.4	19.1	19.2	19.9	21.0	15.5	16.1	16.3	17.0	18.0
	12H	19.0	19.6	19.9	20.5	21.5	15.9	16.5	16.7	17.3	18.4
8H	4H	16.8	17.5	17.7	18.4	19.4	14.8	15.4	15.6	16.3	17.3
	6H	18.4	18.9	19.2	19.8	20.8	15.9	16.4	16.7	17.3	18.4
	8H	19.1	19.7	20.0	20.5	21.6	16.4	16.9	17.3	17.8	18.9
	12H	19.9	20.4	20.8	21.3	22.4	17.0	17.4	17.8	18.3	19.4
12H	4H	16.9	17.5	17.7	18.4	19.4	14.9	15.5	15.8	16.4	17.4
	6H	18.5	19.0	19.3	19.8	20.9	16.1	16.6	17.0	17.5	18.6
	8H	19.3	19.8	20.2	20.7	21.8	16.8	17.2	17.6	18.1	19.2

Maximum UGR = 22.4

POLAR GRAPH



Maximum Candela = 100.253 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.)