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IES INDOOR REPORT

PHOTOMETRIC FILENAME : ALR 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] Alabaster Rocks (ALR) 3-Light Bath Bar

[LUMINAIRE] Justice Design Group - Wall mount bathroom luminaire. Product ID: ALR 3-Light

[MORE] Steel formed housing and three shaved alabaster rock in resin cast lenses.

[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	1355
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	60
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	2417	2694	5734
55	2038	2125	4070
65	1823	1841	3387
75	1692	1666	3410
85	1629	1578	3815

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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	212.302	212.302	212.302	212.302	212.302	212.302	212.302	212.302	212.302
0.5	210.246	210.858	211.666	211.763	212.449	213.305	213.966	214.015	214.039
1.0	210.785	211.494	211.837	211.984	212.718	214.088	215.140	215.556	215.874
1.5	212.473	212.889	212.889	212.522	213.427	215.214	216.755	217.734	218.126
2.0	214.357	214.528	214.406	213.354	214.259	216.437	218.639	220.157	220.646
2.5	216.657	216.804	216.168	214.602	215.312	217.905	220.768	222.824	223.387
3.0	219.398	218.933	218.126	216.070	216.388	219.422	223.166	225.467	226.225
3.5	222.163	221.502	220.303	217.563	217.636	220.989	225.393	228.232	229.431
4.0	225.026	224.341	222.334	219.227	218.884	222.824	227.865	231.046	232.220
4.5	227.914	226.910	224.684	220.793	220.230	224.659	230.263	233.982	235.352
5.0	230.630	229.847	226.959	222.481	221.502	226.470	232.514	236.674	238.313
5.5	233.370	232.416	229.235	224.365	222.897	228.281	234.985	239.659	241.250
6.0	236.527	235.255	231.560	226.176	224.292	230.238	237.579	242.620	244.676
6.5	239.366	237.995	234.056	227.938	225.589	232.098	240.002	245.483	247.392
7.0	242.204	240.638	236.405	229.822	227.082	233.982	242.596	248.468	250.524
7.5	245.018	243.599	238.803	231.682	228.550	235.940	245.189	251.380	253.558
8.0	247.685	246.315	241.274	233.468	230.018	237.873	247.636	254.219	256.470
8.5	250.426	249.129	243.648	235.352	231.364	239.830	250.206	257.057	259.382
9.0	253.509	251.747	246.070	237.237	232.930	241.764	252.849	259.798	262.294
9.5	256.397	254.464	248.542	239.072	234.520	243.746	255.124	262.465	265.206
10.0	259.162	257.302	250.891	240.981	235.891	245.581	257.571	265.426	268.069
10.5	261.902	260.287	253.362	242.963	237.359	247.563	260.116	268.142	270.956
11.0	265.035	262.857	255.736	244.847	238.827	249.521	262.465	270.858	273.819
11.5	267.971	265.597	258.061	246.902	240.320	251.478	264.937	273.477	276.487
12.0	270.687	268.411	260.532	248.786	241.813	253.436	267.335	276.291	279.252
12.5	272.914	270.932	263.101	250.622	243.256	255.467	269.684	278.738	281.968
13.0	274.480	273.403	265.377	252.530	244.651	257.351	272.057	281.429	284.390
13.5	275.459	275.361	267.898	254.390	246.168	259.333	274.358	283.901	286.421
14.0	275.777	276.609	270.149	256.103	247.636	261.168	276.609	286.152	287.767
14.5	276.535	277.637	272.522	258.036	248.933	263.053	278.836	287.987	288.501
15.0	277.098	278.297	274.749	259.896	250.548	264.912	281.185	289.309	288.819
15.5	277.661	278.811	276.878	261.780	252.017	266.674	283.314	289.823	288.722
16.0	277.857	279.472	278.689	263.640	253.265	268.558	285.443	290.141	288.575
16.5	278.102	279.545	280.328	265.377	254.610	270.369	287.620	290.092	288.232
17.0	278.126	279.717	281.748	267.139	256.201	272.057	289.554	289.847	287.718
17.5	278.444	280.084	282.873	268.974	257.473	273.746	291.217	289.578	287.523
18.0	278.273	280.035	283.583	270.663	258.819	275.557	292.710	289.113	286.862
18.5	278.444	280.010	284.195	272.376	260.238	277.196	293.640	288.673	286.201
19.0	278.395	280.133	284.464	274.088	261.609	278.934	294.154	288.183	285.565
19.5	278.028	279.766	284.660	275.826	262.979	280.524	294.350	287.645	284.831
20.0	277.563	279.668	284.733	277.367	264.276	282.261	294.252	286.911	284.244
20.5	277.172	279.447	284.708	279.080	265.720	283.828	293.983	286.275	283.387
21.0	276.266	278.836	284.611	280.622	267.041	285.467	293.591	285.540	282.580
21.5	275.777	278.224	284.415	282.237	268.411	287.082	293.077	284.635	281.772
22.0	275.288	277.759	284.097	283.705	269.782	288.550	292.539	283.803	280.720
22.5	274.480	276.951	283.779	285.100	271.177	290.116	292.001	282.775	279.472
23.0	273.697	275.997	283.436	286.323	272.473	291.487	291.242	281.699	278.444
23.5	272.571	274.872	282.751	287.180	273.624	292.930	290.385	280.671	277.049
24.0	271.495	273.697	282.139	287.914	274.994	294.276	289.554	279.276	275.630
24.5	270.565	272.743	281.429	288.550	276.193	295.598	288.624	277.735	274.358
25.0	269.439	271.446	280.451	289.064	277.416	296.748	287.571	276.438	272.914
25.5	268.191	270.222	279.521	289.456	278.640	297.629	286.568	274.872	271.274
26.0	266.821	268.827	278.371	289.554	279.692	298.412	285.247	273.183	269.708
26.5	265.524	267.384	277.172	289.847	280.818	298.901	284.048	271.568	267.849

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CANDELA TABULATION - (Cont.)

27.0	263.738	265.793	275.826	289.749	281.845	299.121	282.702	269.684	266.087
27.5	262.514	264.447	274.431	289.554	282.849	299.170	281.111	267.947	264.276
28.0	260.703	262.808	272.792	289.089	283.779	298.974	279.521	266.013	262.318
28.5	258.966	260.899	271.128	288.575	284.831	298.387	277.783	264.031	260.214
29.0	257.302	259.088	269.488	287.645	285.859	297.629	275.899	261.902	258.110
29.5	255.467	257.375	267.628	286.691	286.788	296.601	273.991	259.774	255.956
30.0	253.632	255.491	265.646	285.516	287.547	295.304	271.935	257.596	253.583
30.5	251.331	253.534	263.615	284.072	288.526	293.909	269.635	255.247	251.111
31.0	249.521	251.723	261.486	282.800	289.284	292.343	267.408	252.849	248.786
31.5	247.563	249.643	259.431	281.283	290.141	290.630	265.059	250.499	246.168
32.0	245.238	247.465	257.375	279.521	290.973	288.648	262.661	248.028	243.721
32.5	243.134	245.410	254.953	277.808	291.462	286.470	260.141	245.385	240.834
33.0	240.858	243.109	252.702	275.777	292.074	284.097	257.694	242.693	238.167
33.5	238.240	241.005	250.426	273.624	292.539	281.772	255.149	239.928	234.985
34.0	236.111	238.583	247.906	271.593	292.392	278.982	252.408	237.261	232.294
34.5	233.835	236.233	245.556	269.072	292.025	276.315	249.741	234.423	229.333
35.0	231.144	233.762	243.012	266.552	290.801	273.526	246.829	231.535	226.176
35.5	228.746	231.486	240.565	263.958	289.138	270.638	244.088	228.623	223.069
36.0	226.201	228.819	237.922	261.242	286.984	267.579	241.225	225.467	220.108
36.5	223.509	226.323	235.450	258.305	284.439	264.668	238.313	222.579	216.853
37.0	221.135	223.827	232.808	255.296	281.234	261.389	235.328	219.545	213.745
37.5	218.591	221.209	230.018	252.237	277.221	258.183	232.294	216.315	210.442
38.0	215.899	218.517	227.473	249.178	272.792	254.953	229.308	213.134	207.187
38.5	213.305	215.850	224.684	245.899	268.191	251.552	226.054	209.781	204.031
39.0	210.687	213.305	222.016	242.645	263.444	248.297	222.971	206.600	200.825
39.5	208.191	210.564	219.251	239.268	258.697	244.871	219.765	203.248	197.448
40.0	206.037	207.946	216.413	235.915	253.925	241.494	216.608	199.969	194.292
40.5	203.541	205.279	213.574	232.612	249.398	238.020	213.256	196.665	191.013
41.0	201.021	202.709	210.809	229.137	244.871	234.618	210.002	193.362	187.856
41.5	199.137	200.189	207.848	225.907	240.491	231.144	206.625	190.010	184.822
42.0	197.081	197.669	204.961	222.506	236.429	227.669	203.297	186.731	181.763
42.5	195.368	195.173	202.000	219.080	232.245	224.121	199.822	183.501	178.827
43.0	193.900	192.848	199.112	215.703	228.305	220.646	196.347	180.344	175.768
43.5	192.628	190.842	196.127	212.155	224.610	217.000	192.946	177.310	173.223
44.0	191.576	188.811	193.240	208.680	220.915	213.329	189.324	174.104	170.752
44.5	190.010	187.244	190.328	205.401	217.343	209.732	185.825	171.290	168.427
45.0	188.713	185.727	187.342	201.706	213.770	205.915	182.277	168.574	166.543
45.5	187.489	184.284	184.602	198.305	210.442	202.293	178.925	166.102	164.683
46.0	186.143	183.085	181.739	194.830	206.918	198.427	175.450	163.802	162.921
46.5	184.724	181.714	178.949	191.355	203.615	194.561	172.000	161.796	161.062
47.0	183.280	180.270	176.355	187.685	200.067	190.719	168.427	159.936	159.177
47.5	182.008	178.998	173.664	184.161	196.470	186.755	165.173	158.076	157.293
48.0	180.711	177.701	171.363	180.638	192.873	182.815	161.918	156.314	155.336
48.5	179.292	176.208	169.112	176.918	189.153	178.753	158.663	154.455	153.696
49.0	178.142	174.887	167.179	173.443	185.360	174.887	155.678	152.668	151.934
49.5	176.820	173.517	165.197	169.773	181.470	170.850	152.791	150.833	150.099
50.0	175.523	172.220	163.460	166.225	177.505	167.008	150.246	149.145	148.459
50.5	174.226	170.825	161.673	162.823	173.345	163.019	147.848	147.309	146.747
51.0	173.052	169.577	160.156	159.495	169.186	159.006	145.670	145.645	144.936
51.5	171.975	168.158	158.786	155.776	165.001	155.115	143.737	143.859	143.394
52.0	170.556	167.008	157.562	152.522	160.572	151.249	141.902	142.318	141.804
52.5	169.577	165.735	156.192	149.243	156.045	147.432	140.335	140.629	140.189
53.0	168.354	164.414	154.895	145.866	151.763	143.663	138.574	138.892	138.598
53.5	167.326	163.215	153.549	142.954	147.334	140.091	136.934	137.619	136.983
54.0	166.274	162.138	152.301	139.944	143.003	136.543	135.368	135.857	135.539
54.5	164.879	160.866	150.980	137.203	138.892	133.288	133.777	134.365	134.218

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CANDELA TABULATION - (Cont.)

55.0	163.778	159.887	149.707	134.732	134.707	129.985	132.211	132.799	132.652
55.5	163.044	158.786	148.411	132.676	130.768	126.901	130.645	131.379	131.355
56.0	162.040	157.660	147.212	130.572	126.804	124.308	129.079	129.936	129.887
56.5	161.037	156.535	145.866	128.883	123.109	121.836	127.562	128.541	128.468
57.0	160.181	155.629	144.667	127.073	119.658	119.952	126.143	127.097	127.146
57.5	159.153	154.406	143.468	125.360	116.233	118.459	124.675	125.702	125.825
58.0	158.345	153.427	142.195	124.112	113.051	117.236	123.109	124.381	124.479
58.5	157.220	152.522	141.118	123.158	110.262	115.939	121.714	123.011	123.060
59.0	156.461	151.494	139.993	122.007	107.888	114.740	120.343	121.616	121.812
59.5	155.507	150.515	138.818	121.004	105.931	113.565	118.875	120.417	120.686
60.0	154.479	149.610	137.742	119.952	104.462	112.342	117.603	119.095	119.267
60.5	153.574	148.680	136.689	118.875	103.239	111.045	116.233	117.725	118.166
61.0	152.766	147.725	135.588	117.750	102.236	109.772	114.838	116.526	116.746
61.5	152.106	146.893	134.340	116.746	101.330	108.573	113.614	115.254	115.694
62.0	151.127	145.915	133.410	115.498	100.474	107.399	112.268	114.030	114.348
62.5	150.221	144.985	132.358	114.495	99.471	106.126	111.069	112.831	113.076
63.0	149.438	144.079	131.257	113.394	98.516	104.903	109.846	111.461	112.024
63.5	148.411	143.174	130.278	112.317	97.537	103.679	108.598	110.409	110.727
64.0	147.603	142.391	129.373	111.290	96.534	102.578	107.301	109.234	109.626
64.5	147.016	141.510	128.296	110.139	95.506	101.330	106.175	108.108	108.427
65.0	146.184	140.629	127.489	109.112	94.528	100.205	104.976	106.885	107.301
65.5	145.254	139.773	126.388	108.133	93.500	98.908	103.655	105.882	106.151
66.0	144.446	139.014	125.507	107.056	92.497	97.807	102.554	104.707	105.050
66.5	143.737	138.084	124.528	105.931	91.518	96.681	101.330	103.557	104.022
67.0	142.978	137.375	123.574	105.099	90.343	95.457	100.082	102.407	102.872
67.5	142.073	136.518	122.595	104.071	89.438	94.258	99.079	101.330	101.746
68.0	141.290	135.637	121.738	102.896	88.484	93.304	97.978	100.205	100.743
68.5	140.605	134.830	120.857	101.991	87.407	92.032	96.828	99.226	99.789
69.0	139.895	134.120	119.903	100.988	86.355	91.053	95.825	98.125	98.516
69.5	139.112	133.288	119.047	99.911	85.376	90.001	94.699	97.072	97.537
70.0	138.427	132.578	118.092	99.030	84.324	88.802	93.696	96.045	96.608
70.5	137.521	131.746	117.138	98.076	83.296	87.749	92.619	95.066	95.335
71.0	136.738	130.963	116.453	96.975	82.293	86.697	91.542	93.940	94.479
71.5	136.127	130.352	115.596	96.118	81.314	85.645	90.490	92.986	93.475
72.0	135.417	129.544	114.691	95.115	80.359	84.519	89.511	91.934	92.497
72.5	134.756	128.786	113.932	94.087	79.356	83.541	88.484	91.004	91.469
73.0	133.949	128.052	113.100	93.280	78.377	82.488	87.529	89.952	90.515
73.5	133.190	127.366	112.244	92.276	77.399	81.436	86.477	89.046	89.511
74.0	132.676	126.559	111.461	91.298	76.469	80.433	85.547	88.068	88.606
74.5	132.114	125.800	110.580	90.490	75.417	79.405	84.568	87.113	87.603
75.0	131.306	125.189	109.821	89.634	74.560	78.500	83.663	86.232	86.599
75.5	130.499	124.430	109.136	88.655	73.630	77.570	82.684	85.180	85.694
76.0	129.838	123.745	108.378	87.823	72.627	76.518	81.705	84.275	84.715
76.5	129.055	123.060	107.521	86.991	71.673	75.661	80.775	83.345	83.859
77.0	128.272	122.326	106.909	86.110	70.841	74.731	79.797	82.488	82.978
77.5	127.880	121.738	106.102	85.205	69.862	73.704	78.916	81.510	82.170
78.0	127.146	121.004	105.245	84.422	69.054	72.872	78.035	80.604	81.191
78.5	126.314	120.270	104.634	83.443	68.100	71.966	77.154	79.723	80.335
79.0	125.874	119.585	103.900	82.733	67.219	70.987	76.224	78.867	79.283
79.5	125.017	118.924	103.068	81.999	66.338	70.082	75.343	77.937	78.475
80.0	124.626	118.239	102.456	81.045	65.506	69.201	74.462	77.081	77.619
80.5	123.916	117.652	101.673	80.311	64.723	68.345	73.532	76.297	76.860
81.0	123.206	117.016	100.963	79.528	63.867	67.464	72.798	75.392	75.857
81.5	122.742	116.257	100.327	78.744	63.157	66.730	71.966	74.585	75.049
82.0	121.934	115.621	99.568	78.059	62.350	65.849	71.036	73.850	74.291
82.5	121.396	115.107	98.810	77.350	61.518	64.943	70.253	73.018	73.483

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CANDELA TABULATION - (Cont.)

83.0	120.588	114.348	98.223	76.542	60.710	64.209	69.470	72.187	72.627
83.5	120.001	113.810	97.562	75.808	59.976	63.451	68.638	71.330	71.771
84.0	119.487	113.223	96.828	75.196	59.217	62.619	67.904	70.620	70.963
84.5	118.851	112.513	96.289	74.413	58.508	61.836	67.072	69.740	70.131
85.0	118.337	111.877	95.653	73.777	57.847	61.053	66.363	69.030	69.544
85.5	117.774	111.290	94.944	73.116	57.064	60.221	65.677	68.247	68.687
86.0	117.187	110.678	94.332	72.407	56.428	59.560	64.797	67.317	68.076
86.5	116.575	110.188	93.842	71.795	55.718	58.801	64.062	66.632	67.072
87.0	115.914	109.577	93.133	71.330	55.082	58.092	63.402	65.996	66.387
87.5	115.376	108.940	92.619	70.596	54.593	57.431	62.668	65.188	65.751
88.0	114.862	108.573	92.105	70.131	53.858	56.770	62.031	64.527	64.943
88.5	114.299	108.011	91.542	69.617	53.418	56.110	61.346	63.867	64.234
89.0	114.201	107.692	91.126	69.054	52.904	55.645	60.686	63.108	63.426
89.5	114.250	107.668	91.126	69.005	52.537	55.155	60.074	62.496	62.814
90.0	114.030	107.815	91.298	69.103	52.733	55.033	59.829	62.129	62.399
90.5	114.397	107.962	91.322	69.177	52.733	55.082	59.682	61.934	62.276
91.0	114.715	108.060	91.469	69.324	52.684	55.082	59.560	61.836	62.154
91.5	114.813	108.353	91.591	69.470	52.855	55.106	59.536	61.787	61.934
92.0	115.009	108.329	91.836	69.421	52.880	55.106	59.413	61.591	61.860
92.5	115.156	108.524	91.934	69.617	53.026	55.033	59.315	61.395	61.689
93.0	115.352	108.696	91.934	69.788	52.978	54.886	59.315	61.322	61.591
93.5	115.645	108.818	92.276	69.862	53.222	54.911	59.315	61.224	61.420
94.0	115.768	109.063	92.374	70.058	53.173	54.862	59.095	61.126	61.224
94.5	115.939	109.136	92.521	70.107	53.296	54.739	59.168	60.955	60.930
95.0	116.306	109.307	92.619	70.229	53.296	54.739	58.997	60.612	60.759
95.5	116.257	109.577	92.741	70.376	53.369	54.715	58.875	60.514	60.686
96.0	116.551	109.699	92.913	70.474	53.418	54.666	58.752	60.392	60.367
96.5	116.697	109.821	93.206	70.547	53.565	54.593	58.606	60.123	60.221
97.0	116.869	109.993	93.157	70.718	53.540	54.544	58.532	59.952	59.903
97.5	116.991	110.139	93.304	70.914	53.565	54.421	58.459	59.903	59.780
98.0	117.260	110.164	93.475	70.890	53.761	54.470	58.239	59.658	59.584
98.5	117.285	110.384	93.598	71.110	53.785	54.323	58.165	59.487	59.340
99.0	117.432	110.531	93.598	71.306	53.858	54.177	58.116	59.291	59.144
99.5	117.603	110.580	93.769	71.232	53.907	54.177	57.847	59.095	58.801
100.0	117.652	110.702	93.842	71.379	54.030	54.079	57.798	58.924	58.655
100.5	117.848	110.727	93.867	71.501	54.054	54.005	57.725	58.679	58.410
101.0	117.823	110.800	93.965	71.648	54.177	53.907	57.578	58.410	58.165
101.5	118.092	110.849	94.063	71.697	54.226	53.736	57.407	58.263	57.823
102.0	117.994	110.923	94.038	71.819	54.421	53.687	57.235	57.994	57.725
102.5	118.068	110.923	94.063	71.844	54.421	53.614	57.015	57.749	57.480
103.0	118.092	110.996	94.112	71.942	54.568	53.418	56.819	57.553	57.260
103.5	118.092	111.020	94.063	72.089	54.519	53.345	56.673	57.407	56.819
104.0	118.288	111.045	93.965	71.942	54.568	53.222	56.452	57.162	56.721
104.5	118.337	111.143	93.989	72.089	54.617	53.075	56.159	56.868	56.330
105.0	118.117	111.167	93.940	72.162	54.764	52.929	55.889	56.697	56.061
105.5	118.239	111.020	93.916	72.015	54.813	52.806	55.620	56.379	55.743
106.0	118.337	111.045	93.989	72.064	54.739	52.708	55.351	56.036	55.547
106.5	118.288	111.094	93.940	72.064	54.813	52.586	55.106	55.792	55.229
107.0	118.361	111.094	93.867	72.040	54.739	52.488	54.813	55.425	54.984
107.5	118.288	111.020	93.842	72.015	54.739	52.341	54.568	55.131	54.568
108.0	118.288	110.996	93.794	72.138	54.813	52.048	54.299	54.642	54.152
108.5	118.337	110.971	93.842	72.015	54.715	51.999	54.054	54.348	53.712
109.0	118.117	110.947	93.720	72.015	54.764	51.730	53.785	53.932	53.442
109.5	118.190	110.776	93.598	71.917	54.642	51.656	53.516	53.614	52.831
110.0	118.068	110.800	93.524	71.917	54.715	51.534	53.247	53.124	52.635
110.5	118.092	110.604	93.524	71.893	54.617	51.387	52.904	52.880	52.023

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CANDELA TABULATION - (Cont.)

111.0	117.945	110.629	93.426	71.966	54.642	51.240	52.684	52.464	51.583
111.5	117.872	110.555	93.426	71.868	54.519	51.118	52.292	52.121	51.363
112.0	117.578	110.507	93.329	71.844	54.495	50.873	52.048	51.681	50.824
112.5	117.652	110.409	93.133	71.771	54.544	50.800	51.827	51.338	50.335
113.0	117.603	110.262	93.133	71.697	54.519	50.579	51.558	50.971	49.894
113.5	117.456	110.139	93.010	71.599	54.446	50.482	51.167	50.457	49.552
114.0	117.260	110.066	92.839	71.599	54.421	50.359	50.922	50.188	49.160
114.5	117.309	109.919	92.766	71.477	54.397	50.115	50.677	49.625	48.671
115.0	117.016	109.748	92.546	71.379	54.274	49.968	50.164	49.087	48.108
115.5	116.918	109.772	92.448	71.306	54.299	49.772	50.041	48.597	47.668
116.0	116.673	109.430	92.252	71.134	54.103	49.748	49.625	47.937	47.154
116.5	116.697	109.332	92.130	71.110	54.177	49.454	49.209	47.423	46.640
117.0	116.379	109.161	91.934	70.987	54.054	49.356	49.038	46.958	45.759
117.5	116.110	108.916	91.860	70.865	53.932	49.185	48.769	46.297	45.294
118.0	115.963	108.745	91.567	70.669	53.834	48.964	48.377	45.808	44.511
118.5	115.743	108.647	91.420	70.571	53.687	48.793	48.035	45.270	43.948
119.0	115.449	108.329	91.249	70.523	53.614	48.646	47.839	44.707	43.263
119.5	115.205	108.182	91.077	70.400	53.614	48.500	47.398	44.070	42.529
120.0	114.985	108.035	90.931	70.204	53.442	48.328	47.203	43.410	41.868
120.5	114.813	107.644	90.735	69.960	53.320	48.084	46.836	42.823	41.232
121.0	114.569	107.472	90.441	69.960	53.124	47.912	46.444	42.284	40.571
121.5	114.128	107.301	90.196	69.837	53.124	47.668	46.273	41.746	39.886
122.0	113.932	106.934	90.025	69.544	53.051	47.472	45.930	41.134	39.176
122.5	113.590	106.689	89.854	69.372	52.855	47.398	45.612	40.620	38.589
123.0	113.321	106.469	89.536	69.299	52.733	47.105	45.343	40.057	37.929
123.5	112.954	106.004	89.267	68.981	52.635	46.958	45.074	39.568	37.121
124.0	112.905	105.661	89.095	68.883	52.586	46.811	44.633	38.981	36.583
124.5	112.293	105.417	88.826	68.712	52.390	46.566	44.413	38.491	35.995
125.0	111.877	105.025	88.581	68.516	52.219	46.517	44.193	37.953	35.384
125.5	111.461	104.707	88.214	68.247	52.097	46.297	43.924	37.488	34.919
126.0	110.971	104.267	87.945	68.100	52.048	46.199	43.752	37.072	34.405
126.5	110.776	103.851	87.627	67.855	51.925	46.077	43.434	36.583	33.891
127.0	110.042	103.533	87.358	67.733	51.852	45.955	43.067	36.191	33.377
127.5	109.552	103.043	86.991	67.513	51.754	45.759	42.871	35.849	32.986
128.0	109.210	102.603	86.673	67.244	51.583	45.710	42.651	35.310	32.545
128.5	108.671	102.113	86.330	67.097	51.583	45.661	42.333	34.870	32.129
129.0	108.133	101.844	86.037	66.828	51.363	45.441	42.088	34.380	31.713
129.5	107.766	101.306	85.621	66.656	51.265	45.294	41.917	33.964	31.444
130.0	107.056	100.963	85.278	66.314	51.167	45.025	41.477	33.573	31.052
130.5	106.640	100.474	84.886	66.142	51.167	44.951	41.305	33.206	30.539
131.0	106.151	99.984	84.519	65.996	50.922	44.805	41.061	32.863	30.318
131.5	105.735	99.568	84.201	65.677	50.824	44.707	40.767	32.398	30.098
132.0	105.025	99.079	83.736	65.604	50.751	44.609	40.522	32.056	29.682
132.5	104.389	98.443	83.394	65.237	50.604	44.462	40.351	31.689	29.315
133.0	103.949	97.978	83.002	64.943	50.384	44.315	40.057	31.371	29.242
133.5	103.288	97.488	82.586	64.748	50.359	44.193	39.837	31.126	28.875
134.0	102.750	96.901	82.195	64.454	50.139	44.144	39.568	30.783	28.752
134.5	102.236	96.363	81.779	64.136	50.115	43.997	39.397	30.416	28.434
135.0	101.624	95.849	81.265	63.842	49.919	43.801	39.152	30.196	28.189
135.5	101.037	95.188	80.947	63.598	49.772	43.826	38.907	29.927	27.945
136.0	100.376	94.846	80.457	63.304	49.601	43.557	38.614	29.486	27.627
136.5	99.764	94.283	80.041	63.108	49.478	43.434	38.344	29.291	27.309
137.0	99.079	93.622	79.601	62.741	49.356	43.287	38.247	28.997	26.966
137.5	98.394	93.059	79.160	62.472	49.111	43.165	37.880	28.654	26.844
138.0	97.660	92.472	78.696	62.227	49.062	42.945	37.757	28.508	26.770
138.5	97.097	91.836	78.304	61.909	48.916	42.945	37.659	28.263	26.452

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CANDELA TABULATION - (Cont.)

139.0	96.363	91.322	77.790	61.542	48.646	42.871	37.317	27.920	26.256
139.5	95.727	90.661	77.301	61.248	48.524	42.700	37.145	27.725	26.012
140.0	95.237	90.074	76.640	61.004	48.451	42.651	36.974	27.455	25.767
140.5	94.552	89.364	76.297	60.539	48.157	42.431	36.656	27.260	25.547
141.0	93.867	88.900	75.759	60.367	48.059	42.260	36.558	26.917	25.253
141.5	93.280	88.116	75.319	59.976	47.863	42.235	36.313	26.672	25.008
142.0	92.570	87.529	74.756	59.584	47.619	42.088	36.118	26.379	24.715
142.5	91.714	86.917	74.291	59.291	47.472	41.917	35.995	26.256	24.421
143.0	91.028	86.208	73.753	58.899	47.301	41.868	35.824	25.865	24.348
143.5	90.294	85.498	73.165	58.508	47.105	41.648	35.530	25.645	24.127
144.0	89.609	84.837	72.651	58.214	46.836	41.477	35.482	25.449	23.981
144.5	88.875	84.152	72.138	57.896	46.664	41.526	35.433	25.302	23.809
145.0	88.092	83.565	71.673	57.407	46.444	41.330	35.163	24.984	23.687
145.5	87.382	82.880	71.134	57.137	46.297	41.159	34.992	24.862	23.662
146.0	86.575	82.146	70.547	56.770	46.053	40.963	34.919	24.690	23.809
146.5	85.865	81.387	69.935	56.379	45.783	40.889	34.698	24.323	23.785
147.0	85.156	80.727	69.470	55.987	45.539	40.743	34.723	24.152	23.711
147.5	84.422	79.895	68.908	55.596	45.465	40.620	34.503	24.005	23.785
148.0	83.541	79.209	68.296	55.229	45.147	40.449	34.356	23.809	23.834
148.5	82.709	78.549	67.782	54.813	45.025	40.302	34.234	23.589	23.883
149.0	81.828	77.888	67.170	54.470	44.731	40.204	34.185	23.369	24.005
149.5	81.216	77.129	66.583	53.981	44.462	40.131	34.038	23.271	24.127
150.0	80.384	76.297	65.996	53.638	44.168	39.886	33.915	23.100	24.103
150.5	79.576	75.661	65.384	53.247	44.022	39.837	33.842	23.002	24.250
151.0	78.793	74.780	64.846	52.757	43.752	39.641	33.695	22.977	24.421
151.5	78.084	74.071	64.283	52.415	43.508	39.544	33.573	22.782	24.323
152.0	77.056	73.410	63.622	52.072	43.287	39.348	33.475	22.561	24.274
152.5	76.224	72.554	63.084	51.558	42.994	39.250	33.279	22.537	24.372
153.0	75.588	71.746	62.350	51.044	42.798	39.128	33.304	22.439	24.348
153.5	74.609	71.036	61.836	50.653	42.504	38.932	33.255	22.415	24.446
154.0	73.777	70.253	61.175	50.261	42.260	38.760	33.059	22.366	24.372
154.5	72.872	69.421	60.490	49.772	42.039	38.589	33.059	22.366	24.323
155.0	71.966	68.565	59.903	49.307	41.819	38.393	32.912	22.341	24.323
155.5	71.159	67.733	59.291	48.818	41.526	38.247	32.716	22.390	24.470
156.0	70.376	66.999	58.630	48.475	41.232	38.149	32.716	22.415	24.470
156.5	69.299	66.191	57.920	47.937	41.061	37.929	32.716	22.317	24.617
157.0	68.638	65.433	57.358	47.423	40.669	37.782	32.570	22.121	24.568
157.5	67.684	64.601	56.648	46.958	40.351	37.537	32.521	22.023	24.446
158.0	66.828	63.695	56.085	46.566	40.131	37.415	32.496	21.852	24.446
158.5	66.069	62.986	55.498	46.028	39.764	37.219	32.374	21.534	24.421
159.0	65.115	62.203	54.739	45.539	39.470	36.950	32.325	21.411	24.446
159.5	64.234	61.322	54.103	45.123	39.176	36.876	32.276	21.118	24.470
160.0	63.328	60.441	53.418	44.511	38.858	36.607	32.105	21.093	24.446
160.5	62.521	59.633	52.782	44.046	38.589	36.509	31.958	20.971	24.421
161.0	61.567	58.752	52.048	43.606	38.320	36.265	31.811	20.922	24.617
161.5	60.539	57.920	51.436	42.969	37.953	36.069	31.591	20.628	24.715
162.0	59.584	57.089	50.604	42.431	37.659	35.824	31.371	20.432	24.837
162.5	58.679	56.232	49.968	42.015	37.488	35.653	31.028	20.212	24.837
163.0	57.774	55.327	49.283	41.452	37.023	35.408	30.269	20.065	24.886
163.5	56.795	54.519	48.524	40.963	36.827	35.163	29.462	19.698	25.033
164.0	55.987	53.614	47.863	40.498	36.534	35.090	28.459	19.087	24.959
164.5	54.984	52.684	47.154	39.837	36.167	34.796	27.211	18.548	24.494
165.0	54.030	51.754	46.444	39.323	35.824	34.331	26.061	18.279	23.760
165.5	53.002	50.922	45.710	38.736	35.506	33.793	24.837	18.157	22.782
166.0	52.121	50.017	44.951	38.271	35.090	32.937	23.369	18.059	21.656
166.5	51.069	49.062	44.095	37.757	34.625	31.762	22.145	17.814	20.065

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CANDELA TABULATION - (Cont.)

167.0	49.992	48.157	43.410	37.268	33.891	30.514	21.167	17.692	18.181
167.5	49.038	47.252	42.700	36.656	32.839	29.021	20.188	17.178	16.542
168.0	47.937	46.175	41.721	36.191	31.371	27.406	19.576	16.835	14.584
168.5	46.933	45.221	40.987	35.604	30.074	25.889	19.184	16.419	12.773
169.0	45.906	44.340	40.302	34.723	28.312	24.274	18.744	15.612	10.620
169.5	44.829	43.410	39.397	33.646	26.746	22.708	18.573	14.731	8.320
170.0	43.703	42.407	38.491	32.203	24.984	21.509	18.230	13.459	6.191
170.5	42.627	41.134	37.537	30.710	23.491	20.726	17.741	11.892	4.478
171.0	41.526	39.960	36.142	29.144	22.243	19.943	17.349	10.522	2.741
171.5	40.522	38.956	34.943	27.504	21.387	19.503	16.664	9.348	1.811
172.0	39.348	37.831	33.769	25.938	20.628	19.184	15.490	7.953	1.615
172.5	38.344	36.289	32.129	24.788	19.968	18.622	14.119	6.582	1.591
173.0	36.583	34.894	30.563	23.711	19.405	17.985	12.724	5.261	1.517
173.5	34.478	33.304	28.801	22.439	18.695	16.689	10.889	4.454	1.297
174.0	33.353	31.248	26.770	21.411	18.108	14.804	9.005	4.111	1.126
174.5	31.517	29.266	24.935	20.237	17.007	12.920	7.194	3.695	0.954
175.0	29.315	27.137	23.173	18.768	15.416	10.767	5.750	3.377	0.734
175.5	26.452	24.666	21.093	17.276	13.459	8.418	4.918	2.790	0.538
176.0	23.589	21.925	19.038	15.490	11.379	6.387	4.356	2.325	0.710
176.5	20.506	18.842	16.615	12.969	8.956	4.918	3.719	1.639	0.563
177.0	16.909	15.710	13.899	10.400	6.778	4.135	3.132	1.077	0.465
177.5	13.189	12.186	11.330	8.100	4.992	3.646	2.643	0.710	0.465
178.0	9.225	8.540	8.638	5.506	3.671	3.034	2.080	0.587	0.783
178.5	5.873	5.457	5.702	3.499	2.961	2.496	1.566	0.636	0.538
179.0	3.450	3.279	3.059	2.178	2.300	1.982	1.224	0.587	0.612
179.5	1.224	1.860	1.175	1.175	1.591	1.591	0.759	0.612	0.856
180.0	0.881	0.881	0.881	0.881	0.881	0.881	0.881	0.881	0.881

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	99.75	N.A.	7.40
0-30	229.06	N.A.	16.90
0-40	385.43	N.A.	28.50
0-60	659.52	N.A.	48.70
0-80	872.56	N.A.	64.40
0-90	958.64	N.A.	70.80
10-90	936.04	N.A.	69.10
20-40	285.68	N.A.	21.10
20-50	433.08	N.A.	32.00
40-70	387.04	N.A.	28.60
60-80	213.03	N.A.	15.70
70-80	100.08	N.A.	7.40
80-90	86.08	N.A.	6.40
90-110	157.38	N.A.	11.60
90-120	226.76	N.A.	16.70
90-130	284.75	N.A.	21.00
90-150	363.00	N.A.	26.80
90-180	396.11	N.A.	29.20
110-180	238.73	N.A.	17.60
0-180	1354.75	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	22.60
10-20	77.15
20-30	129.31
30-40	156.37
40-50	147.39
50-60	126.70
60-70	112.95
70-80	100.08
80-90	86.08
90-100	80.21
100-110	77.17
110-120	69.38
120-130	57.99
130-140	45.45
140-150	32.80
150-160	21.00
160-170	10.32
170-180	1.79

IES INDOOR REPORT
PHOTOMETRIC FILENAME : ALR 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
1	100	94	89	85	94	89	85	81	80	76	73	71	68	66	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	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
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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	12.3	13.5	13.0	14.2	15.2	UGR Viewed Endwise			
	3H	14.6	15.7	15.3	16.4	17.4	10.5	11.7	11.3	12.5
	4H	15.7	16.7	16.5	17.5	18.5	12.4	13.4	13.1	14.2
	6H	16.8	17.7	17.6	18.5	19.5	13.2	14.2	13.9	14.9
	8H	17.3	18.2	18.1	19.0	20.0	13.9	14.8	14.7	15.6
	12H	17.8	18.7	18.6	19.5	20.5	14.2	15.1	15.0	15.9
							14.5	15.4	15.3	16.2

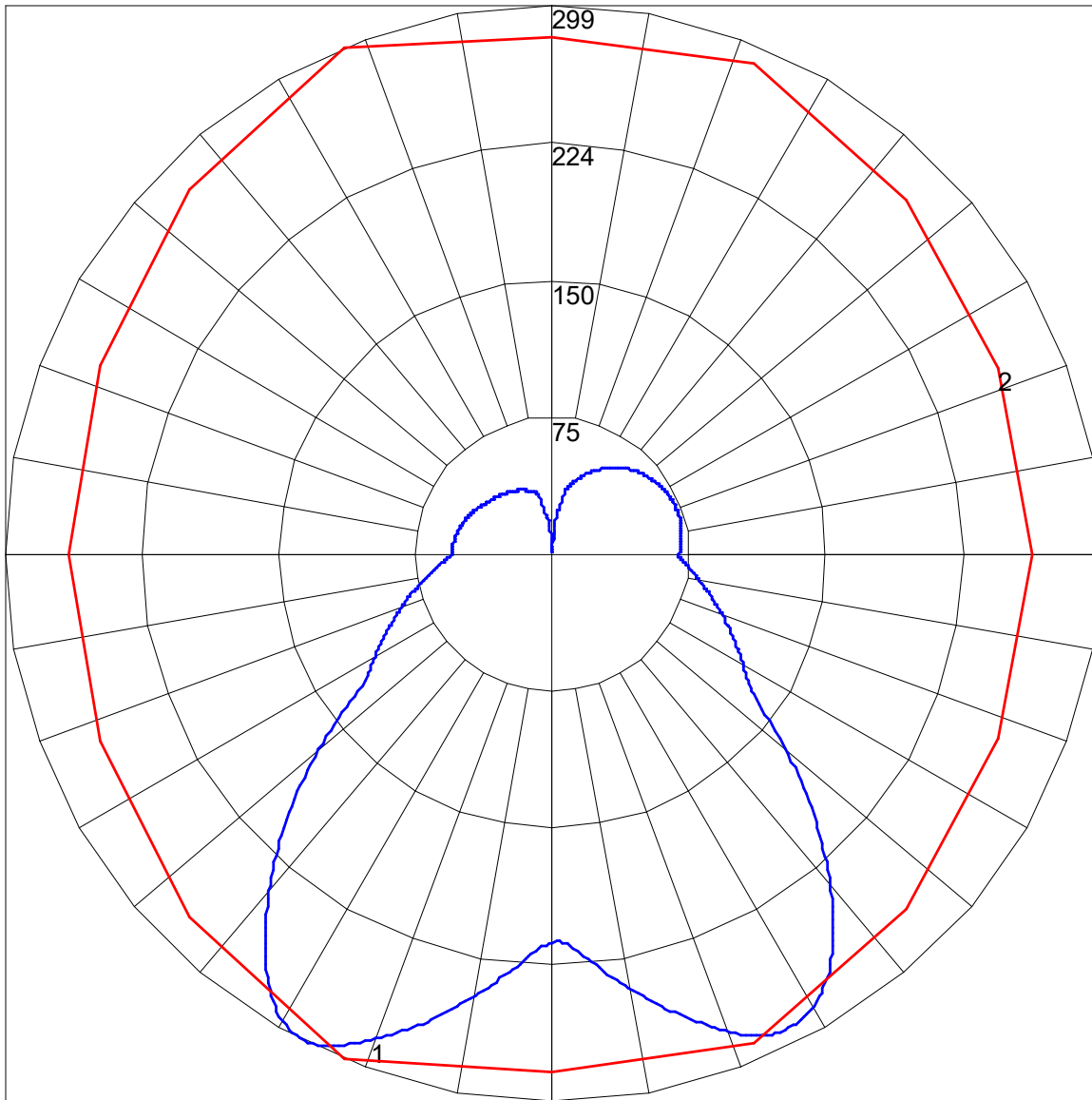
4H	2H	12.9	13.9	13.7	14.7	15.7	11.5	12.5	12.3	13.3
	3H	15.5	16.4	16.3	17.2	18.2	13.5	14.4	14.3	15.2
	4H	16.8	17.6	17.6	18.4	19.4	14.5	15.3	15.3	16.1
	6H	18.0	18.7	18.9	19.6	20.6	15.3	16.0	16.2	16.9
	8H	18.6	19.3	19.5	20.1	21.2	15.7	16.4	16.6	17.2
	12H	19.2	19.8	20.1	20.7	21.7	16.1	16.7	17.0	17.6

8H	4H	17.2	17.8	18.0	18.7	19.7	15.2	15.8	16.0	16.7
	6H	18.7	19.2	19.5	20.1	21.2	16.3	16.8	17.1	17.7
	8H	19.4	19.9	20.3	20.8	21.9	16.8	17.3	17.6	18.2
	12H	20.2	20.7	21.1	21.5	22.6	17.3	17.7	18.1	18.6

12H	4H	17.3	17.9	18.1	18.7	19.8	15.4	16.0	16.2	16.8
	6H	18.8	19.3	19.7	20.2	21.3	16.6	17.1	17.4	17.9
	8H	19.7	20.1	20.5	21.0	22.1	17.2	17.6	18.0	18.5

Maximum UGR = 22.6

POLAR GRAPH



Maximum Candela = 299.17 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.)