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IES INDOOR REPORT
PHOTOMETRIC FILENAME : ALR-7545W.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LLI-17288-1
[TESTLAB] LightLab international (www.LightLabInt.com)
[MANUFAC] Justice Design Group, Los Angeles, CA 90071
[LUMCAT] FSN-7545W-OPAL
[LUMINAIRE] Justice Design Group - Wall mount outdoor decorative luminaire. Product ID: ALR-7545W
[MORE] Steel formed housing with square glass tube lens.
[MORE] 24 LES 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 3.808a.
[DATE] This file created: Tuesday, October 17, 2017 2:57:58 PM
[ISSUEDATE] Tuesday, October 17, 2017 2:57:58 PM

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	346
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	29
Total Luminaire Watts	11.9
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.20
Spacing Criterion (Diagonal)	1.18
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.10 m
Luminous Width (90-270)	0.10 m
Luminous Height	0.45 m

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3177	2159	2879
55	1982	1416	1691
65	1004	696	752
75	403	246	294
85	150	103	97

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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	176.021	176.021	176.021	176.021	176.021	176.021	176.021	176.021	176.021
0.5	176.808	176.644	176.636	176.374	176.111	175.767	175.611	175.505	175.603
1.0	178.211	177.997	177.694	177.087	176.571	176.005	175.636	175.480	175.587
1.5	179.810	179.736	179.260	178.137	177.210	176.464	176.185	175.628	175.349
2.0	180.810	181.228	181.245	179.334	177.891	176.989	176.800	175.111	174.176
2.5	179.588	181.327	183.524	179.531	176.833	176.628	177.227	173.692	171.159
3.0	175.915	179.457	184.803	178.678	173.783	174.963	177.054	170.175	165.246
3.5	170.839	175.447	183.901	176.103	168.723	171.528	175.611	164.525	157.547
4.0	164.787	170.265	180.285	171.757	163.188	166.952	171.716	156.997	149.117
4.5	159.105	164.402	174.258	167.198	157.981	162.393	165.689	149.412	143.434
5.0	153.717	158.432	166.345	162.877	153.274	157.924	156.891	144.074	140.458
5.5	149.051	152.446	158.580	158.342	148.707	153.250	147.149	140.802	138.810
6.0	144.632	146.985	151.577	153.422	143.918	148.395	137.965	138.367	136.989
6.5	140.081	142.024	144.755	147.698	138.449	143.344	131.151	135.390	133.324
7.0	134.562	137.235	137.916	140.925	131.913	137.432	125.993	130.962	128.420
7.5	127.043	132.135	131.331	133.447	124.738	130.979	121.795	125.706	121.540
8.0	117.162	125.485	124.714	125.796	117.358	123.918	118.334	119.564	113.513
8.5	109.355	116.735	118.383	117.875	110.757	115.882	114.710	112.996	105.280
9.0	106.223	108.494	112.496	110.290	107.371	107.691	110.593	106.067	99.105
9.5	106.403	103.763	106.575	103.910	107.322	100.548	105.600	98.802	97.678
10.0	108.207	102.188	100.778	100.417	108.839	96.301	99.671	93.308	100.097
10.5	109.339	102.508	94.956	99.310	110.618	94.587	92.668	91.225	103.927
11.0	110.536	103.476	89.634	100.122	111.963	94.915	85.469	91.438	106.920
11.5	111.938	104.329	85.206	101.368	113.570	95.702	78.859	93.037	109.158
12.0	113.168	105.329	82.459	102.664	115.735	96.366	73.939	94.374	110.749
12.5	114.283	106.461	81.574	103.755	117.990	97.359	70.823	95.333	112.807
13.0	115.472	107.248	82.033	104.960	119.966	98.695	69.233	96.481	115.185
13.5	116.038	107.863	83.640	106.059	121.614	99.925	68.929	97.965	117.350
14.0	116.178	108.765	85.813	106.969	122.656	100.786	69.790	99.614	120.015
14.5	115.718	109.601	88.027	107.928	122.836	101.557	71.438	101.090	122.426
15.0	115.817	110.167	90.069	108.814	122.180	102.106	73.136	102.500	123.230
15.5	116.866	110.233	92.045	109.281	121.565	102.131	74.702	103.763	122.943
16.0	118.047	110.151	93.898	109.659	120.893	101.623	76.170	104.312	122.164
16.5	119.458	110.610	95.727	109.995	120.433	101.106	77.506	104.255	121.672
17.0	120.729	111.282	97.383	110.274	120.171	100.811	78.974	103.861	121.417
17.5	121.729	111.914	98.933	110.364	120.179	100.901	80.368	103.271	121.319
18.0	122.721	112.406	100.376	110.569	120.163	101.319	81.639	102.779	121.139
18.5	123.664	112.799	101.705	110.905	120.507	101.869	82.861	102.361	120.679
19.0	124.829	113.250	102.943	111.381	121.073	102.311	83.919	102.106	119.868
19.5	126.403	113.849	104.001	112.020	121.762	102.754	84.862	102.065	118.966
20.0	127.977	114.734	104.960	112.807	122.836	103.197	85.608	102.172	117.785
20.5	129.855	115.932	105.944	113.808	124.460	103.615	86.182	102.516	117.039
21.0	131.700	117.473	106.969	114.964	126.387	104.148	86.625	103.033	117.637
21.5	133.340	119.179	107.986	116.309	128.338	105.050	86.986	103.451	119.277
22.0	134.915	120.860	109.019	117.727	130.208	106.149	87.322	103.984	121.327
22.5	136.194	122.426	110.060	119.089	131.774	107.387	87.699	104.730	123.016
23.0	137.358	123.927	111.028	120.515	133.152	108.576	88.043	105.616	124.599
23.5	138.260	125.353	111.971	121.844	134.275	109.798	88.371	106.830	125.993
24.0	139.039	126.674	112.873	122.992	135.079	110.807	88.683	107.904	127.231
24.5	139.810	127.879	113.734	124.107	135.751	111.709	89.036	108.880	128.150
25.0	140.441	129.011	114.636	125.075	136.259	112.529	89.347	109.806	128.748
25.5	141.048	130.044	115.505	125.944	136.678	113.094	89.626	110.454	128.814
26.0	141.663	131.077	116.284	126.698	136.989	113.595	89.880	110.962	128.601
26.5	142.213	132.086	117.063	127.354	137.293	113.980	90.151	111.315	128.068

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CANDELA TABULATION - (Cont.)

27.0	142.614	133.119	117.809	127.969	137.571	114.324	90.389	111.389	127.428
27.5	143.016	134.054	118.482	128.478	137.776	114.579	90.594	111.233	126.616
28.0	143.213	134.956	119.154	128.879	137.916	114.751	90.717	110.880	125.452
28.5	143.369	135.743	119.761	129.273	137.965	114.931	90.815	110.323	124.041
29.0	143.459	136.407	120.294	129.634	138.039	115.095	90.922	109.437	122.270
29.5	143.590	136.915	120.761	129.945	138.006	115.235	90.930	108.379	120.204
30.0	143.853	137.309	121.245	130.306	138.014	115.399	90.930	107.067	117.932
30.5	144.148	137.621	121.631	130.528	138.014	115.497	90.815	105.427	115.472
31.0	144.427	137.809	121.950	130.782	137.990	115.579	90.602	103.640	112.881
31.5	144.746	137.817	122.205	130.946	137.990	115.595	90.282	101.688	110.085
32.0	145.017	137.850	122.352	131.011	137.924	115.571	89.839	99.589	107.231
32.5	145.214	137.785	122.467	131.044	137.867	115.497	89.314	97.375	104.312
33.0	145.304	137.694	122.508	130.995	137.727	115.308	88.699	95.087	101.459
33.5	145.189	137.498	122.508	130.823	137.571	115.120	87.904	92.709	98.662
34.0	145.066	137.317	122.442	130.585	137.383	114.792	86.961	90.315	95.858
34.5	144.656	137.030	122.336	130.314	137.079	114.398	85.961	87.879	93.242
35.0	144.099	136.743	122.188	129.921	136.678	113.964	84.878	85.460	90.651
35.5	143.303	136.350	122.049	129.470	136.177	113.447	83.607	82.992	88.076
36.0	142.483	136.022	121.827	128.945	135.546	112.955	82.336	80.655	85.616
36.5	141.532	135.603	121.631	128.305	134.833	112.406	80.934	78.376	83.140
37.0	140.474	135.111	121.426	127.666	134.029	111.823	79.417	76.235	80.622
37.5	139.466	134.595	121.221	126.936	133.152	111.249	77.867	74.120	78.080
38.0	138.400	134.103	120.942	126.132	132.200	110.643	76.252	72.094	75.604
38.5	137.383	133.521	120.712	125.239	131.225	109.995	74.636	70.094	73.013
39.0	136.423	132.971	120.368	124.312	130.085	109.355	73.021	68.109	70.381
39.5	135.513	132.356	120.048	123.254	128.953	108.642	71.406	66.076	67.781
40.0	134.644	131.700	119.679	122.205	127.699	107.945	69.749	64.001	65.100
40.5	133.734	131.052	119.236	121.106	126.362	107.166	68.142	61.894	62.427
41.0	132.856	130.380	118.695	119.892	124.960	106.297	66.535	59.688	59.786
41.5	131.872	129.609	118.105	118.679	123.418	105.370	64.969	57.375	57.097
42.0	130.921	128.806	117.457	117.457	121.836	104.378	63.361	55.071	54.358
42.5	129.863	127.912	116.727	116.194	120.171	103.328	61.869	52.677	51.455
43.0	128.617	126.977	115.866	114.939	118.441	102.221	60.311	50.143	48.528
43.5	127.354	126.034	114.964	113.652	116.661	101.057	58.860	47.765	45.453
44.0	125.960	124.976	114.005	112.422	114.907	99.769	57.416	45.321	42.460
44.5	124.435	123.820	112.922	111.094	113.094	98.466	55.973	42.796	39.352
45.0	122.820	122.598	111.848	109.823	111.299	97.047	54.587	40.328	36.465
45.5	121.155	121.245	110.700	108.519	109.511	95.587	53.218	37.884	33.579
46.0	119.285	119.810	109.478	107.149	107.617	94.046	51.931	35.399	30.988
46.5	117.424	118.351	108.289	105.755	105.772	92.488	50.569	33.071	28.552
47.0	115.489	116.727	107.002	104.312	103.927	90.913	49.257	30.725	26.494
47.5	113.398	115.038	105.657	102.779	101.992	89.314	47.929	28.388	24.756
48.0	111.397	113.299	104.337	101.278	100.040	87.674	46.650	26.281	23.181
48.5	109.339	111.504	102.951	99.630	98.105	86.108	45.280	24.329	21.935
49.0	107.223	109.642	101.598	98.006	96.129	84.485	43.936	22.550	20.951
49.5	105.247	107.764	100.130	96.301	94.120	82.845	42.607	21.033	20.172
50.0	103.271	105.887	98.654	94.579	92.160	81.139	41.287	19.746	19.491
50.5	101.311	103.960	97.178	92.734	90.102	79.401	39.901	18.647	18.950
51.0	99.425	102.008	95.637	90.971	88.068	77.646	38.606	17.794	18.450
51.5	97.662	100.081	94.062	89.134	86.018	75.875	37.285	17.089	18.114
52.0	95.751	98.097	92.406	87.264	83.902	74.013	36.064	16.523	17.696
52.5	93.915	96.104	90.766	85.362	81.811	72.275	34.907	16.023	17.343
53.0	92.061	94.103	89.027	83.517	79.753	70.487	33.817	15.629	17.023
53.5	89.970	92.143	87.207	81.541	77.703	68.675	32.734	15.244	16.687
54.0	88.068	90.184	85.370	79.638	75.678	66.838	31.750	14.883	16.334
54.5	86.043	88.207	83.509	77.720	73.652	65.051	30.799	14.522	16.056

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CANDELA TABULATION - (Cont.)

55.0	83.976	86.198	81.574	75.711	71.643	63.156	29.856	14.161	15.744
55.5	81.852	84.214	79.679	73.833	69.659	61.361	28.938	13.809	15.350
56.0	79.712	82.172	77.728	71.889	67.773	59.491	28.003	13.456	14.949
56.5	77.556	80.188	75.743	69.954	65.887	57.662	27.117	13.136	14.530
57.0	75.415	78.154	73.808	68.085	64.001	55.875	26.232	12.817	14.022
57.5	73.300	76.153	71.824	66.223	62.115	54.046	25.330	12.513	13.514
58.0	71.291	74.120	69.823	64.354	60.221	52.250	24.510	12.087	12.899
58.5	69.183	72.037	67.822	62.533	58.318	50.520	23.665	11.751	12.308
59.0	67.092	70.020	65.805	60.680	56.400	48.806	22.870	11.341	11.800
59.5	65.067	67.880	63.796	58.802	54.399	47.068	22.058	11.021	11.324
60.0	63.009	65.805	61.812	56.924	52.480	45.453	21.263	10.594	10.816
60.5	61.057	63.714	59.893	55.063	50.520	43.796	20.525	10.209	10.193
61.0	59.097	61.648	57.933	53.136	48.569	42.099	19.762	9.815	9.578
61.5	57.285	59.524	55.949	51.307	46.584	40.393	19.016	9.422	8.938
62.0	55.399	57.441	54.063	49.462	44.616	38.802	18.294	9.004	8.249
62.5	53.628	55.457	52.144	47.576	42.648	37.121	17.589	8.618	7.544
63.0	51.824	53.464	50.282	45.805	40.770	35.531	16.900	8.225	6.888
63.5	50.143	51.570	48.437	43.960	38.975	33.932	16.187	7.782	6.191
64.0	48.470	49.667	46.551	42.132	37.154	32.333	15.531	7.380	5.502
64.5	46.773	47.872	44.731	40.352	35.367	30.840	14.842	6.921	5.010
65.0	44.969	46.084	42.919	38.565	33.677	29.323	14.211	6.527	4.567
65.5	43.034	44.305	41.082	36.777	32.029	27.806	13.604	6.101	4.190
66.0	41.221	42.574	39.368	35.006	30.373	26.347	12.972	5.822	3.928
66.5	39.327	40.943	37.663	33.267	28.798	24.936	12.415	5.502	3.649
67.0	37.433	39.196	36.023	31.570	27.199	23.493	11.874	5.297	3.444
67.5	35.580	37.499	34.342	29.946	25.707	22.165	11.300	5.035	3.280
68.0	33.727	35.801	32.759	28.282	24.272	20.844	10.783	4.854	3.083
68.5	31.791	34.046	31.209	26.716	22.870	19.541	10.275	4.641	2.968
69.0	29.987	32.259	29.668	25.199	21.632	18.352	9.791	4.494	2.837
69.5	28.282	30.463	28.192	23.690	20.484	17.236	9.356	4.371	2.706
70.0	26.576	28.626	26.691	22.320	19.459	16.088	8.856	4.166	2.534
70.5	25.199	26.863	25.313	21.058	18.548	15.080	8.430	4.043	2.444
71.0	23.944	25.231	23.960	19.893	17.737	14.096	7.987	3.928	2.411
71.5	22.976	23.657	22.640	18.876	17.023	13.218	7.610	3.764	2.247
72.0	22.230	22.271	21.443	18.024	16.408	12.439	7.298	3.657	2.148
72.5	21.607	21.107	20.262	17.236	15.826	11.767	6.986	3.526	2.091
73.0	20.910	20.164	19.172	16.441	15.309	11.136	6.740	3.444	1.968
73.5	20.344	19.360	18.196	15.777	14.965	10.619	6.453	3.280	1.894
74.0	19.746	18.688	17.310	15.154	14.465	10.234	6.224	3.165	1.788
74.5	19.065	18.040	16.474	14.571	13.997	9.856	5.994	3.059	1.673
75.0	18.466	17.466	15.728	14.006	13.505	9.553	5.756	2.936	1.665
75.5	17.794	16.785	15.080	13.456	13.063	9.209	5.551	2.837	1.566
76.0	17.064	16.187	14.440	12.948	12.562	8.872	5.330	2.722	1.509
76.5	16.343	15.547	13.842	12.431	12.046	8.577	5.109	2.649	1.484
77.0	15.637	14.965	13.317	11.947	11.546	8.323	4.928	2.526	1.402
77.5	14.990	14.383	12.833	11.439	10.996	7.979	4.740	2.452	1.353
78.0	14.342	13.833	12.316	10.988	10.471	7.692	4.551	2.394	1.304
78.5	13.702	13.276	11.874	10.562	9.963	7.380	4.371	2.321	1.271
79.0	13.038	12.710	11.382	10.102	9.373	7.093	4.190	2.222	1.246
79.5	12.374	12.193	10.906	9.668	8.840	6.806	4.043	2.165	1.148
80.0	11.734	11.652	10.471	9.274	8.364	6.494	3.854	2.091	1.140
80.5	11.054	11.152	10.037	8.848	7.880	6.216	3.682	2.017	1.074
81.0	10.439	10.635	9.619	8.462	7.372	5.978	3.526	1.943	1.066
81.5	9.832	10.152	9.184	8.126	6.896	5.699	3.362	1.861	1.025
82.0	9.258	9.643	8.799	7.733	6.429	5.412	3.214	1.804	0.992
82.5	8.749	9.200	8.413	7.364	6.019	5.117	3.108	1.763	0.902

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CANDELA TABULATION - (Cont.)

83.0	8.323	8.717	8.011	7.003	5.666	4.928	2.944	1.697	0.845
83.5	7.905	8.298	7.683	6.667	5.363	4.682	2.788	1.640	0.886
84.0	7.503	7.946	7.290	6.380	5.109	4.461	2.673	1.591	0.812
84.5	7.208	7.618	6.937	6.076	4.756	4.272	2.550	1.574	0.820
85.0	6.814	7.257	6.576	5.781	4.436	4.059	2.419	1.476	0.754
85.5	6.404	6.921	6.224	5.478	4.157	3.862	2.321	1.476	0.754
86.0	6.027	6.593	5.920	5.182	3.862	3.649	2.206	1.427	0.754
86.5	5.592	6.183	5.609	4.904	3.542	3.436	2.083	1.410	0.730
87.0	5.248	5.879	5.297	4.608	3.231	3.255	1.968	1.361	0.672
87.5	4.863	5.560	5.002	4.321	2.936	3.050	1.886	1.304	0.672
88.0	4.502	5.232	4.731	4.075	2.698	2.837	1.804	1.279	0.656
88.5	4.198	4.945	4.469	3.854	2.435	2.690	1.714	1.230	0.631
89.0	3.920	4.633	4.289	3.633	2.239	2.534	1.632	1.214	0.656
89.5	3.592	4.420	4.051	3.444	2.042	2.353	1.574	1.189	0.640
90.0	3.354	4.190	3.887	3.272	1.861	2.230	1.492	1.173	0.631
90.5	3.214	4.018	3.723	3.132	1.755	2.140	1.468	1.107	0.607
91.0	3.059	3.895	3.567	3.001	1.615	2.058	1.435	1.099	0.607
91.5	2.936	3.739	3.477	2.936	1.550	1.976	1.402	1.091	0.615
92.0	2.829	3.592	3.329	2.837	1.492	1.878	1.312	1.025	0.582
92.5	2.722	3.485	3.264	2.747	1.427	1.870	1.312	1.058	0.574
93.0	2.599	3.370	3.173	2.681	1.361	1.812	1.246	1.033	0.574
93.5	2.501	3.313	3.075	2.608	1.337	1.755	1.222	1.025	0.582
94.0	2.427	3.182	3.059	2.526	1.320	1.706	1.197	1.000	0.558
94.5	2.362	3.091	2.911	2.493	1.271	1.640	1.197	0.959	0.574
95.0	2.288	3.001	2.854	2.419	1.238	1.607	1.148	0.951	0.566
95.5	2.181	2.952	2.804	2.362	1.230	1.591	1.132	0.951	0.549
96.0	2.148	2.854	2.698	2.312	1.214	1.542	1.148	0.927	0.541
96.5	2.091	2.796	2.649	2.280	1.214	1.525	1.099	0.943	0.558
97.0	2.009	2.714	2.608	2.263	1.164	1.525	1.107	0.902	0.549
97.5	1.960	2.649	2.558	2.189	1.156	1.484	1.066	0.918	0.582
98.0	1.902	2.624	2.485	2.157	1.148	1.443	1.050	0.886	0.549
98.5	1.845	2.526	2.403	2.107	1.140	1.427	1.017	0.877	0.582
99.0	1.796	2.452	2.378	2.124	1.140	1.419	1.033	0.886	0.549
99.5	1.755	2.419	2.345	2.058	1.099	1.378	0.992	0.861	0.500
100.0	1.689	2.345	2.280	2.042	1.107	1.369	0.976	0.836	0.525
100.5	1.648	2.304	2.214	1.960	1.082	1.345	0.984	0.828	0.525
101.0	1.591	2.230	2.206	1.935	1.082	1.320	0.927	0.812	0.517
101.5	1.558	2.181	2.165	1.911	1.025	1.279	0.951	0.836	0.492
102.0	1.533	2.132	2.099	1.861	1.033	1.271	0.918	0.820	0.517
102.5	1.517	2.083	2.083	1.845	1.009	1.238	0.927	0.812	0.541
103.0	1.435	2.058	2.009	1.812	0.976	1.214	0.894	0.795	0.525
103.5	1.410	2.009	1.984	1.779	1.000	1.181	0.918	0.812	0.558
104.0	1.353	1.976	1.976	1.738	0.984	1.222	0.886	0.787	0.541
104.5	1.353	1.927	1.919	1.730	0.959	1.156	0.902	0.804	0.533
105.0	1.312	1.927	1.894	1.673	0.910	1.132	0.853	0.771	0.533
105.5	1.238	1.837	1.870	1.648	0.935	1.148	0.861	0.763	0.541
106.0	1.255	1.812	1.820	1.640	0.927	1.123	0.861	0.754	0.574
106.5	1.214	1.796	1.804	1.624	0.918	1.123	0.853	0.771	0.508
107.0	1.173	1.738	1.779	1.615	0.902	1.074	0.869	0.746	0.525
107.5	1.173	1.738	1.738	1.591	0.886	1.091	0.845	0.722	0.517
108.0	1.123	1.689	1.689	1.533	0.869	1.050	0.828	0.738	0.533
108.5	1.123	1.648	1.689	1.542	0.902	1.041	0.812	0.754	0.508
109.0	1.066	1.632	1.632	1.501	0.886	1.050	0.795	0.705	0.541
109.5	1.074	1.591	1.648	1.484	0.845	1.025	0.812	0.713	0.525
110.0	1.074	1.574	1.615	1.468	0.886	1.017	0.795	0.713	0.500
110.5	1.082	1.566	1.558	1.476	0.877	1.000	0.820	0.722	0.541

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111.0	1.017	1.525	1.574	1.451	0.869	1.009	0.804	0.697	0.525
111.5	0.992	1.501	1.550	1.427	0.845	1.000	0.804	0.713	0.508
112.0	1.009	1.476	1.550	1.419	0.869	0.992	0.787	0.689	0.525
112.5	0.968	1.460	1.542	1.386	0.853	0.976	0.795	0.689	0.508
113.0	0.943	1.443	1.509	1.369	0.845	0.976	0.787	0.705	0.549
113.5	0.935	1.419	1.476	1.378	0.836	0.968	0.771	0.697	0.558
114.0	0.951	1.419	1.476	1.369	0.820	0.976	0.812	0.689	0.517
114.5	0.902	1.394	1.484	1.369	0.804	0.935	0.787	0.722	0.566
115.0	0.886	1.427	1.460	1.345	0.853	0.943	0.795	0.713	0.541
115.5	0.877	1.345	1.435	1.320	0.820	0.927	0.812	0.705	0.517
116.0	0.910	1.328	1.419	1.328	0.820	0.968	0.771	0.722	0.533
116.5	0.886	1.345	1.394	1.345	0.836	0.918	0.763	0.713	0.558
117.0	0.861	1.337	1.410	1.312	0.795	0.951	0.763	0.705	0.533
117.5	0.853	1.304	1.353	1.304	0.845	0.943	0.779	0.705	0.631
118.0	0.861	1.296	1.378	1.263	0.836	0.927	0.787	0.713	0.558
118.5	0.836	1.279	1.353	1.263	0.820	0.927	0.746	0.697	0.558
119.0	0.853	1.263	1.328	1.263	0.836	0.918	0.779	0.689	0.549
119.5	0.828	1.255	1.353	1.246	0.804	0.894	0.795	0.705	0.582
120.0	0.845	1.246	1.328	1.263	0.812	0.918	0.771	0.713	0.541
120.5	0.861	1.246	1.312	1.205	0.828	0.886	0.771	0.705	0.541
121.0	0.877	1.246	1.312	1.238	0.820	0.894	0.763	0.722	0.558
121.5	0.828	1.246	1.296	1.214	0.861	0.894	0.779	0.705	0.566
122.0	0.812	1.214	1.296	1.222	0.828	0.894	0.779	0.713	0.566
122.5	0.812	1.246	1.304	1.205	0.804	0.918	0.754	0.738	0.582
123.0	0.812	1.230	1.255	1.197	0.812	0.902	0.763	0.722	0.590
123.5	0.836	1.222	1.279	1.173	0.845	0.902	0.804	0.722	0.631
124.0	0.828	1.230	1.271	1.205	0.812	0.918	0.787	0.746	0.623
124.5	0.836	1.197	1.238	1.197	0.845	0.918	0.754	0.754	0.599
125.0	0.820	1.173	1.263	1.197	0.820	0.886	0.771	0.763	0.590
125.5	0.845	1.173	1.238	1.173	0.812	0.935	0.787	0.730	0.631
126.0	0.853	1.181	1.230	1.197	0.836	0.902	0.779	0.738	0.640
126.5	0.877	1.197	1.246	1.189	0.820	0.910	0.812	0.746	0.664
127.0	0.836	1.156	1.255	1.189	0.828	0.902	0.804	0.746	0.623
127.5	0.853	1.181	1.246	1.181	0.828	0.910	0.812	0.730	0.664
128.0	0.820	1.140	1.230	1.173	0.845	0.886	0.812	0.763	0.648
128.5	0.845	1.181	1.246	1.164	0.828	0.886	0.812	0.771	0.672
129.0	0.812	1.173	1.222	1.173	0.836	0.894	0.828	0.763	0.664
129.5	0.853	1.132	1.222	1.189	0.836	0.910	0.812	0.771	0.738
130.0	0.828	1.164	1.205	1.164	0.861	0.927	0.820	0.763	0.689
130.5	0.845	1.132	1.222	1.173	0.861	0.918	0.812	0.795	0.672
131.0	0.828	1.115	1.230	1.173	0.845	0.886	0.804	0.754	0.697
131.5	0.869	1.123	1.214	1.164	0.836	0.951	0.836	0.795	0.689
132.0	0.845	1.123	1.189	1.189	0.869	0.918	0.820	0.754	0.746
132.5	0.836	1.115	1.222	1.148	0.861	0.918	0.828	0.795	0.730
133.0	0.861	1.132	1.205	1.189	0.861	0.935	0.845	0.787	0.722
133.5	0.853	1.074	1.222	1.181	0.869	0.935	0.869	0.779	0.763
134.0	0.845	1.099	1.214	1.173	0.894	0.918	0.861	0.804	0.730
134.5	0.861	1.123	1.173	1.164	0.886	0.935	0.886	0.812	0.746
135.0	0.845	1.099	1.214	1.205	0.902	0.968	0.894	0.804	0.754
135.5	0.836	1.099	1.205	1.148	0.877	0.943	0.853	0.836	0.779
136.0	0.861	1.123	1.205	1.164	0.902	0.976	0.869	0.820	0.804
136.5	0.877	1.115	1.255	1.156	0.910	0.959	0.894	0.820	0.795
137.0	0.861	1.107	1.222	1.156	0.894	0.968	0.869	0.845	0.804
137.5	0.861	1.123	1.205	1.164	0.935	0.943	0.918	0.869	0.828
138.0	0.869	1.099	1.238	1.156	0.910	0.968	0.902	0.845	0.820
138.5	0.869	1.082	1.222	1.173	0.927	0.968	0.943	0.836	0.845

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CANDELA TABULATION - (Cont.)

139.0	0.877	1.074	1.214	1.148	0.951	0.976	0.918	0.861	0.795
139.5	0.902	1.107	1.246	1.156	0.935	0.984	0.910	0.869	0.869
140.0	0.902	1.091	1.255	1.173	0.943	0.992	0.968	0.886	0.845
140.5	0.935	1.107	1.214	1.189	0.927	1.000	0.935	0.877	0.894
141.0	0.877	1.107	1.238	1.181	0.951	1.009	0.984	0.886	0.877
141.5	0.902	1.123	1.238	1.173	0.968	1.009	0.976	0.910	0.902
142.0	0.902	1.107	1.238	1.173	1.017	1.000	0.976	0.927	0.894
142.5	0.894	1.107	1.246	1.205	0.968	1.033	0.951	0.918	0.894
143.0	0.927	1.099	1.263	1.181	0.984	1.050	0.992	0.918	0.886
143.5	0.918	1.123	1.230	1.181	0.976	1.041	1.025	0.959	0.869
144.0	0.968	1.099	1.230	1.246	0.992	1.058	1.025	0.976	0.804
144.5	0.927	1.132	1.255	1.230	1.000	1.058	0.992	1.009	0.845
145.0	0.943	1.115	1.238	1.222	1.017	1.066	1.009	0.992	0.845
145.5	0.976	1.148	1.230	1.222	1.025	1.050	1.025	0.992	0.861
146.0	0.935	1.115	1.271	1.222	0.992	1.041	1.041	1.000	0.877
146.5	0.976	1.115	1.214	1.205	1.017	1.074	1.025	0.992	0.927
147.0	0.976	1.148	1.263	1.222	1.025	1.082	1.082	1.058	0.935
147.5	0.992	1.123	1.246	1.263	1.033	1.082	1.050	1.033	0.918
148.0	1.000	1.132	1.271	1.222	1.025	1.132	1.099	1.025	0.951
148.5	0.992	1.140	1.271	1.255	1.066	1.123	1.091	1.041	0.951
149.0	0.984	1.140	1.246	1.255	1.074	1.115	1.082	1.091	0.976
149.5	1.025	1.156	1.255	1.238	1.058	1.156	1.107	1.066	0.992
150.0	1.000	1.156	1.246	1.271	1.066	1.123	1.140	1.066	1.025
150.5	1.000	1.148	1.255	1.287	1.082	1.140	1.123	1.074	1.000
151.0	1.017	1.164	1.222	1.263	1.066	1.148	1.164	1.107	1.025
151.5	1.033	1.140	1.238	1.279	1.091	1.156	1.132	1.115	0.976
152.0	1.025	1.140	1.246	1.271	1.091	1.148	1.123	1.140	1.033
152.5	1.091	1.156	1.255	1.255	1.099	1.132	1.164	1.132	1.058
153.0	1.058	1.173	1.230	1.271	1.074	1.148	1.173	1.173	1.058
153.5	1.041	1.164	1.255	1.271	1.074	1.132	1.148	1.132	1.041
154.0	1.058	1.189	1.230	1.296	1.091	1.181	1.156	1.173	1.000
154.5	1.074	1.164	1.230	1.287	1.091	1.156	1.173	1.173	0.976
155.0	1.050	1.164	1.263	1.271	1.099	1.156	1.205	1.173	0.869
155.5	1.091	1.181	1.230	1.246	1.082	1.205	1.197	1.181	0.828
156.0	1.082	1.148	1.230	1.263	1.099	1.189	1.222	1.148	0.861
156.5	1.115	1.156	1.246	1.263	1.091	1.181	1.205	1.156	0.853
157.0	1.091	1.173	1.230	1.287	1.082	1.189	1.205	1.132	0.853
157.5	1.091	1.132	1.238	1.279	1.099	1.181	1.230	1.132	0.894
158.0	1.123	1.148	1.230	1.279	1.091	1.173	1.287	1.156	0.902
158.5	1.115	1.156	1.214	1.230	1.074	1.164	1.296	1.140	0.902
159.0	1.099	1.115	1.197	1.271	1.074	1.173	1.296	1.156	0.935
159.5	1.050	1.123	1.189	1.263	1.082	1.189	1.296	1.140	0.894
160.0	1.099	1.140	1.205	1.238	1.099	1.173	1.312	1.140	0.951
160.5	1.058	1.099	1.173	1.279	1.107	1.205	1.328	1.132	0.918
161.0	1.074	1.091	1.164	1.255	1.091	1.197	1.328	1.156	0.861
161.5	1.009	1.091	1.140	1.238	1.123	1.156	1.328	1.123	0.902
162.0	1.041	1.082	1.148	1.246	1.033	1.189	1.287	1.140	0.886
162.5	1.017	1.074	1.123	1.230	1.050	1.148	1.369	1.189	0.886
163.0	1.000	1.041	1.091	1.246	1.058	1.140	1.320	1.181	0.894
163.5	1.000	0.992	1.107	1.222	1.033	1.148	1.328	1.164	0.894
164.0	1.000	0.976	1.058	1.181	1.025	1.123	1.337	1.173	0.886
164.5	0.951	0.976	1.041	1.148	1.009	1.123	1.312	1.205	0.869
165.0	0.902	0.968	1.050	1.164	0.976	1.058	1.320	1.197	0.845
165.5	0.935	0.918	1.000	1.140	0.968	1.082	1.304	1.214	0.779
166.0	0.894	0.951	0.984	1.115	0.918	1.050	1.230	1.205	0.771
166.5	0.877	0.853	0.943	1.082	0.910	1.009	1.222	1.148	0.763

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167.0	0.861	0.886	0.943	1.041	0.902	0.984	1.205	1.156	0.705
167.5	0.804	0.828	0.935	1.041	0.869	0.910	1.181	1.173	0.713
168.0	0.787	0.795	0.877	1.033	0.861	0.853	1.156	1.091	0.672
168.5	0.746	0.812	0.886	1.000	0.836	0.828	1.132	1.074	0.656
169.0	0.722	0.754	0.828	0.959	0.845	0.795	1.041	1.041	0.640
169.5	0.681	0.730	0.828	0.894	0.779	0.771	0.968	0.951	0.615
170.0	0.722	0.672	0.836	0.845	0.779	0.738	0.927	0.886	0.599
170.5	0.648	0.656	0.804	0.763	0.779	0.713	0.910	0.828	0.574
171.0	0.623	0.623	0.779	0.771	0.763	0.648	0.828	0.779	0.517
171.5	0.607	0.615	0.738	0.713	0.730	0.640	0.779	0.705	0.517
172.0	0.607	0.590	0.738	0.705	0.738	0.648	0.763	0.640	0.525
172.5	0.582	0.566	0.689	0.648	0.713	0.615	0.656	0.623	0.484
173.0	0.582	0.566	0.681	0.599	0.672	0.566	0.533	0.607	0.426
173.5	0.566	0.517	0.640	0.582	0.656	0.574	0.418	0.549	0.476
174.0	0.558	0.541	0.541	0.549	0.681	0.525	0.369	0.533	0.451
174.5	0.533	0.517	0.377	0.508	0.648	0.525	0.336	0.418	0.435
175.0	0.517	0.500	0.303	0.467	0.623	0.525	0.320	0.344	0.369
175.5	0.492	0.435	0.295	0.402	0.590	0.467	0.353	0.320	0.303
176.0	0.394	0.303	0.271	0.344	0.418	0.377	0.336	0.320	0.377
176.5	0.254	0.271	0.254	0.312	0.344	0.353	0.328	0.344	0.353
177.0	0.287	0.287	0.271	0.287	0.312	0.295	0.312	0.295	0.320
177.5	0.279	0.271	0.246	0.271	0.303	0.303	0.238	0.287	0.279
178.0	0.271	0.262	0.254	0.262	0.303	0.279	0.254	0.279	0.344
178.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
179.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
179.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : ALR-7545W.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	42.29	N.A.	12.20
0-30	96.83	N.A.	28.00
0-40	168.89	N.A.	48.90
0-60	291.33	N.A.	84.30
0-80	333.00	N.A.	96.30
0-90	338.01	N.A.	97.80
10-90	325.06	N.A.	94.00
20-40	126.60	N.A.	36.60
20-50	196.35	N.A.	56.80
40-70	151.98	N.A.	44.00
60-80	41.66	N.A.	12.10
70-80	12.13	N.A.	3.50
80-90	5.01	N.A.	1.40
90-110	3.42	N.A.	1.00
90-120	4.44	N.A.	1.30
90-130	5.30	N.A.	1.50
90-150	6.73	N.A.	1.90
90-180	7.62	N.A.	2.20
110-180	4.20	N.A.	1.20
0-180	345.62	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	12.95
10-20	29.34
20-30	54.54
30-40	72.06
40-50	69.75
50-60	52.70
60-70	29.53
70-80	12.13
80-90	5.01
90-100	2.07
100-110	1.35
110-120	1.02
120-130	0.86
130-140	0.76
140-150	0.67
150-160	0.54
160-170	0.30
170-180	0.05

IES INDOOR REPORT
PHOTOMETRIC FILENAME : ALR-7545W.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	
0	118	118	118	118	115	115	115	115	110	110	110	105	105	105	100	100	100	98
1	109	105	101	97	106	102	99	96	98	95	92	94	91	89	90	88	86	84
2	100	92	86	81	97	90	85	80	87	82	78	83	79	76	80	76	74	71
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	71	67	63	61
4	84	73	65	58	82	71	64	58	69	62	57	66	60	56	64	59	55	53
5	78	65	57	50	75	64	56	50	62	55	49	60	53	49	57	52	48	46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	52	47	42	40
7	66	53	45	39	65	52	44	39	51	43	38	49	43	38	48	42	37	35
8	62	49	40	35	60	48	40	34	46	39	34	45	38	34	44	38	33	32
9	58	45	37	31	56	44	36	31	43	36	31	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	37	31	27	26

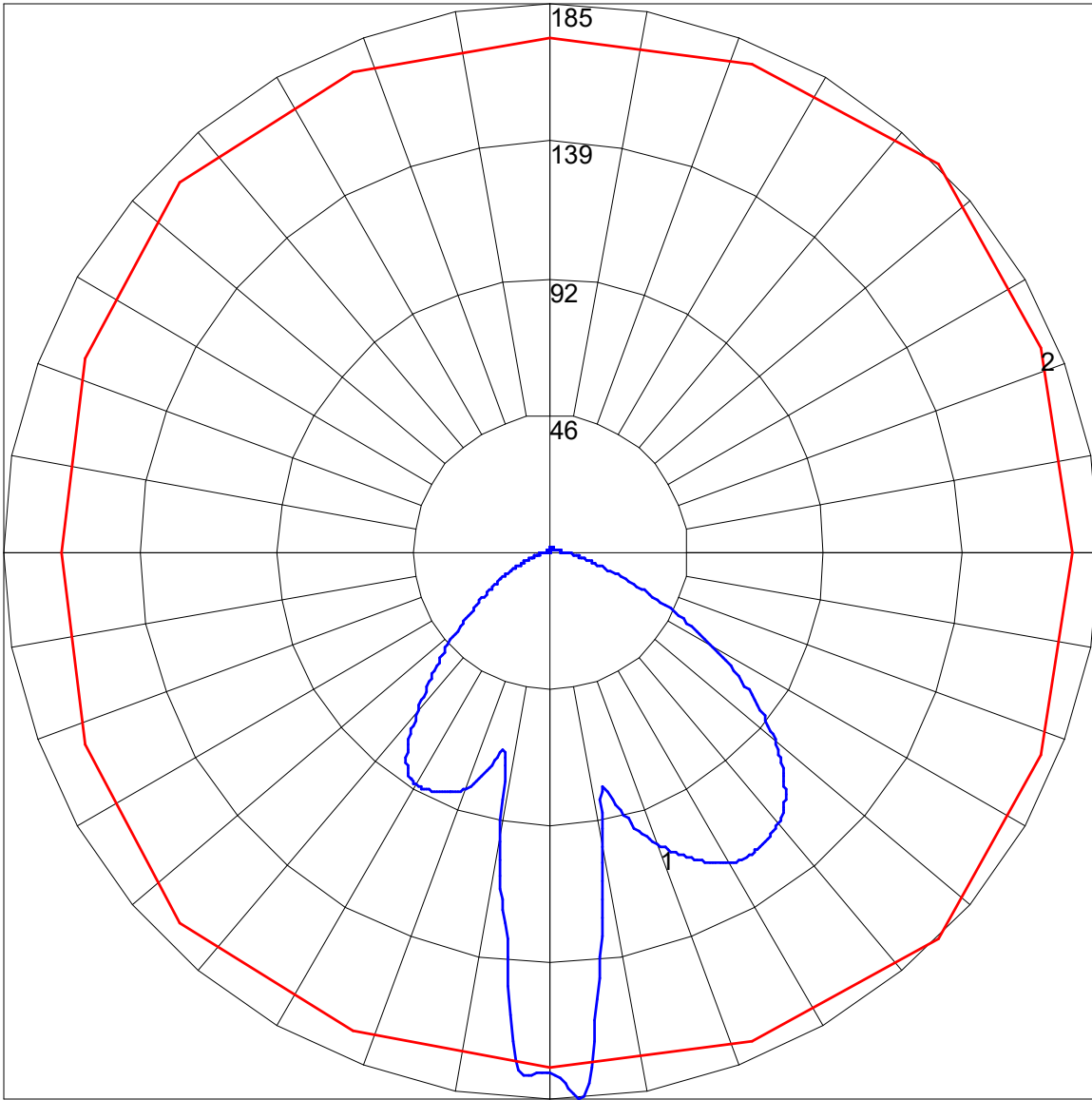
IES INDOOR REPORT
PHOTOMETRIC FILENAME : ALR-7545W.IES

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	14.3	15.8	14.7	16.2	16.6	12.8	14.3	13.2	14.7	15.0
	3H	15.0	16.4	15.4	16.7	17.1	13.3	14.6	13.7	15.0	15.4
	4H	15.1	16.4	15.6	16.8	17.2	13.4	14.7	13.8	15.1	15.5
	6H	15.2	16.4	15.7	16.8	17.2	13.5	14.6	13.9	15.0	15.5
	8H	15.2	16.4	15.7	16.8	17.2	13.5	14.6	13.9	15.0	15.5
	12H	15.2	16.3	15.7	16.7	17.2	13.5	14.5	13.9	14.9	15.4
4H	2H	14.5	15.8	14.9	16.2	16.6	12.9	14.2	13.4	14.6	15.0
	3H	15.3	16.3	15.7	16.8	17.2	13.5	14.6	14.0	15.0	15.5
	4H	15.5	16.4	15.9	16.9	17.4	13.6	14.6	14.1	15.1	15.5
	6H	15.6	16.4	16.1	16.9	17.4	13.8	14.6	14.2	15.1	15.6
	8H	15.6	16.4	16.1	16.9	17.4	13.8	14.6	14.3	15.0	15.5
	12H	15.7	16.4	16.2	16.9	17.4	13.8	14.5	14.3	15.0	15.5
8H	4H	15.4	16.2	15.9	16.7	17.2	13.6	14.4	14.1	14.9	15.4
	6H	15.6	16.3	16.1	16.8	17.3	13.8	14.4	14.3	14.9	15.5
	8H	15.7	16.3	16.2	16.8	17.3	13.8	14.4	14.3	14.9	15.5
	12H	15.7	16.2	16.3	16.8	17.4	13.8	14.4	14.4	14.9	15.5
12H	4H	15.4	16.1	15.9	16.6	17.2	13.6	14.3	14.1	14.8	15.3
	6H	15.6	16.2	16.2	16.7	17.3	13.7	14.3	14.3	14.8	15.4
	8H	15.7	16.2	16.2	16.7	17.3	13.8	14.3	14.3	14.8	15.5

Maximum UGR = 17.4

POLAR GRAPH



Maximum Candela = 184.803 Located At Horizontal Angle = 45, Vertical Angle = 3
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (3) (Through Max. Cd.)