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IES INDOOR REPORT
PHOTOMETRIC FILENAME : ALR-7565W.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LM-79-08
[TESTLAB] Orb Optronix, Inc.
[ISSUE DATE] 07-19-2019
[MANUFAC] Justice Design
[LUMINAIRE] ALR-7565W

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	419
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	18
Total Luminaire Watts	23.93
Ballast Factor	1.00
CIE Type	General Diffuse
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.29 ft
Luminous Width (90-270)	0.54 ft
Luminous Height	2.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	748	614	475
55	784	638	493
65	804	651	500
75	826	666	509
85	865	692	527

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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>	<u>202.5</u>
0.0	5.992	5.992	5.992	5.992	5.992	5.992	5.992	5.992	5.992	5.992
2.5	8.059	8.436	7.998	7.061	6.369	5.843	5.974	5.431	5.501	5.352
5.0	10.705	11.134	10.389	8.690	7.209	6.369	6.386	5.615	5.449	5.387
7.5	13.709	14.226	13.052	10.494	8.042	7.043	6.649	5.703	5.387	5.457
10.0	17.100	17.450	15.768	12.430	9.093	7.796	7.052	5.782	5.335	5.624
12.5	20.323	20.665	18.659	14.454	10.144	8.594	7.464	5.834	5.256	5.641
15.0	23.547	23.932	21.427	16.478	11.213	9.408	7.910	5.869	5.133	5.764
17.5	27.025	27.314	24.309	18.510	12.299	10.275	8.217	5.869	5.037	5.782
20.0	30.467	30.783	27.349	20.621	13.438	11.099	8.672	5.887	4.818	5.773
22.5	33.840	34.252	30.310	22.741	14.524	11.966	9.172	5.966	4.713	5.755
25.0	37.142	37.554	33.253	24.896	15.575	12.825	9.443	6.053	4.503	5.799
27.5	40.366	40.752	36.065	26.788	16.653	13.631	9.802	6.132	4.380	5.860
30.0	43.458	43.853	38.579	28.750	17.643	14.419	10.214	6.185	4.082	5.913
32.5	46.297	46.857	41.242	30.546	18.527	15.111	10.389	6.193	3.881	5.834
35.0	49.152	49.774	43.634	32.298	19.421	15.794	10.661	6.228	3.679	5.869
37.5	52.104	52.849	46.139	34.024	20.358	16.513	10.932	6.228	3.486	5.860
40.0	55.065	55.933	48.671	35.942	21.208	17.178	11.160	6.237	3.154	5.922
42.5	58.000	59.095	51.228	37.659	22.137	17.914	11.274	6.272	2.978	5.869
45.0	60.847	62.135	53.751	39.438	23.030	18.615	11.607	6.290	2.751	5.860
47.5	63.554	65.017	56.011	41.014	23.827	19.263	11.879	6.369	2.628	5.887
50.0	66.068	67.697	58.166	42.530	24.589	19.789	12.150	6.369	2.400	5.869
52.5	68.678	70.579	60.286	43.923	25.316	20.402	12.413	6.500	2.216	5.913
55.0	71.079	73.330	62.354	45.289	25.895	20.980	12.641	6.509	2.067	5.887
57.5	73.199	75.774	64.220	46.516	26.517	21.418	12.903	6.526	1.857	5.913
60.0	75.099	77.929	65.840	47.523	26.937	21.804	13.087	6.500	1.691	5.922
62.5	76.685	79.742	67.154	48.425	27.270	22.058	13.175	6.544	1.612	5.913
65.0	78.174	81.328	68.424	49.074	27.533	22.233	13.315	6.561	1.568	5.992
67.5	79.488	82.835	69.370	49.643	27.682	22.382	13.412	6.658	1.533	5.957
70.0	80.785	84.394	70.448	50.326	27.848	22.487	13.543	6.728	1.428	6.053
72.5	82.002	85.375	71.569	50.922	28.198	22.706	13.762	6.833	1.402	6.097
75.0	83.264	85.077	72.734	51.535	28.417	22.960	14.034	6.947	1.410	6.132
77.5	84.560	85.839	73.680	52.175	28.619	23.284	14.253	7.034	1.340	6.228
80.0	85.830	86.777	74.723	52.648	28.855	23.424	14.349	6.982	1.253	6.272
82.5	86.908	87.626	75.432	52.945	28.961	23.582	14.384	6.947	1.086	6.185
85.0	87.635	88.187	76.072	53.278	28.961	23.713	14.384	6.850	0.876	6.141
87.5	88.073	88.537	76.510	53.322	28.926	23.626	14.349	6.877	0.858	6.097
90.0	88.169	88.336	76.475	53.164	28.759	23.547	14.253	6.859	0.858	6.141
92.5	88.038	88.099	76.238	52.980	28.750	23.503	14.112	6.771	0.876	6.141
95.0	87.670	87.442	75.932	52.744	28.663	23.389	14.165	6.868	0.990	6.263
97.5	86.996	86.917	75.380	52.332	28.505	23.188	13.972	6.771	0.955	6.106
100.0	86.181	86.093	74.889	51.973	28.304	22.960	13.841	6.631	0.894	5.974
102.5	85.322	85.375	74.259	51.596	28.050	22.715	13.569	6.500	0.762	5.887
105.0	84.429	84.315	73.435	51.185	27.804	22.478	13.377	6.316	0.753	5.738
107.5	83.290	83.395	72.489	50.563	27.524	22.207	13.122	6.316	0.780	5.650
110.0	81.888	82.256	71.315	49.976	27.252	21.891	12.886	6.377	0.815	5.519
112.5	80.268	80.942	70.203	49.354	26.814	21.576	12.571	6.272	0.797	5.379
115.0	78.428	79.515	69.633	48.609	26.403	21.225	12.273	6.044	0.745	5.300
117.5	76.615	77.973	69.134	47.821	25.991	20.814	11.940	5.922	0.727	5.160
120.0	74.749	76.632	68.442	47.094	25.588	20.367	11.765	5.764	0.780	5.028
122.5	73.496	75.870	67.470	46.227	25.124	19.964	11.309	5.615	0.797	4.941
125.0	72.401	74.977	65.542	45.123	24.773	19.430	10.994	5.431	0.885	4.792
127.5	70.763	73.593	63.046	43.695	24.283	18.887	10.635	5.247	0.832	4.704
130.0	68.591	71.552	60.348	41.917	23.626	18.308	10.258	4.976	0.894	4.573
132.5	65.980	68.994	57.772	39.954	22.776	17.625	9.916	4.818	0.894	4.433

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CANDELA TABULATION - (Cont.)

135.0	62.862	65.805	55.302	38.071	21.900	16.872	9.496	4.713	0.929	4.301
137.5	59.734	62.739	52.578	36.214	20.954	16.145	9.049	4.538	1.060	4.170
140.0	56.476	59.778	51.106	34.260	19.964	15.435	8.664	4.319	1.148	4.082
142.5	53.322	56.686	48.154	32.281	18.939	14.664	8.252	4.214	1.156	3.898
145.0	49.967	53.191	45.526	30.029	17.888	13.902	7.858	4.012	1.200	3.767
147.5	46.297	49.380	42.687	27.743	16.793	12.965	7.280	3.627	1.296	3.670
150.0	42.539	45.683	39.648	25.430	15.593	11.975	6.588	3.346	1.051	3.355
152.5	38.702	41.908	36.407	23.056	13.981	10.810	6.237	3.005	1.051	2.996
155.0	33.936	35.460	32.920	20.323	12.921	9.995	5.484	2.558	0.902	2.637
157.5	31.282	33.927	28.523	18.282	11.738	8.865	4.914	2.286	0.657	2.278
160.0	27.357	29.696	26.394	15.672	10.135	7.604	4.205	1.805	0.491	2.006
162.5	23.389	25.457	22.653	12.939	8.436	6.491	3.609	1.428	0.403	1.629
165.0	19.552	21.418	18.816	10.083	6.990	5.396	2.742	1.060	0.394	1.060
167.5	15.575	17.135	15.190	7.542	5.589	4.056	1.857	0.657	0.447	0.797
170.0	12.246	13.447	11.537	5.133	3.960	2.838	0.964	0.482	0.377	0.657
172.5	7.656	8.690	5.834	3.048	2.260	1.454	0.499	0.403	0.333	0.491
175.0	3.294	3.907	2.926	1.472	0.946	0.613	0.298	0.464	0.447	0.543
177.5	0.604	1.121	1.007	0.526	0.324	0.350	0.429	0.456	0.447	0.456
180.0	0.499	0.499	0.499	0.499	0.499	0.499	0.499	0.499	0.499	0.499

Vert. Angles **Horizontal Angles**

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0.0	5.992	5.992	5.992	5.992	5.992	5.992	5.992
2.5	5.615	5.869	6.465	6.868	7.665	7.183	7.551
5.0	5.764	6.588	7.297	8.366	10.013	9.557	10.118
7.5	6.088	7.297	8.129	10.030	12.597	12.430	13.122
10.0	6.439	7.796	9.180	11.949	15.330	15.602	16.259
12.5	6.763	8.410	10.232	13.744	18.256	18.948	19.552
15.0	7.166	9.137	11.335	15.672	20.954	22.285	22.820
17.5	7.472	9.995	12.378	17.625	23.757	25.702	26.105
20.0	7.840	10.757	13.543	19.482	26.753	29.206	29.442
22.5	8.278	11.554	14.585	21.401	29.416	32.666	32.850
25.0	8.646	12.308	15.645	23.328	32.211	36.039	36.117
27.5	8.961	13.087	16.679	25.176	34.935	39.367	39.297
30.0	9.321	13.858	17.730	27.016	37.537	42.565	42.381
32.5	9.680	14.638	18.746	28.820	40.103	45.508	45.184
35.0	10.048	15.374	19.692	30.564	42.565	48.452	48.215
37.5	10.267	15.917	20.709	32.324	44.948	51.421	51.018
40.0	10.722	16.723	21.681	34.076	47.400	54.391	53.979
42.5	10.941	17.450	22.636	35.977	50.037	57.422	56.949
45.0	11.257	18.159	23.626	37.808	52.455	60.391	59.901
47.5	11.660	18.930	24.432	39.578	54.820	63.168	62.599
50.0	11.887	19.552	25.246	41.321	57.019	65.840	65.166
52.5	12.203	20.174	26.035	42.915	59.130	68.398	67.697
55.0	12.474	20.779	26.709	44.483	61.197	70.938	70.141
57.5	12.641	21.348	27.340	45.990	63.063	73.321	72.454
60.0	12.825	21.856	27.804	47.304	64.684	75.354	74.478
62.5	12.956	22.268	28.216	48.381	66.068	77.044	76.221
65.0	13.096	22.583	28.549	49.433	67.321	78.639	77.727
67.5	13.140	22.881	28.768	50.247	68.486	79.979	79.085
70.0	13.271	23.170	29.083	50.974	69.563	81.372	80.338
72.5	13.455	23.433	29.399	51.780	70.649	82.616	81.810
75.0	13.639	23.705	29.758	52.455	71.674	83.895	83.124
77.5	13.815	24.020	30.371	53.261	72.752	85.217	84.473
80.0	14.042	24.405	30.897	53.856	73.934	86.619	85.699

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82.5	14.130	24.712	31.291	54.356	74.793	87.766	86.750
85.0	14.217	24.913	31.492	54.680	75.406	88.660	87.661
87.5	14.121	25.010	31.545	54.732	75.765	89.247	88.222
90.0	14.253	24.966	31.562	54.601	75.984	89.483	88.467
92.5	14.165	24.852	31.440	54.286	75.756	89.405	88.318
95.0	14.077	24.721	31.440	53.839	75.415	89.063	87.766
97.5	13.972	24.554	31.221	53.261	74.889	88.502	87.109
100.0	13.832	24.256	30.879	52.586	74.294	87.845	86.356
102.5	13.587	23.906	30.502	51.824	73.400	87.057	85.603
105.0	13.245	23.503	30.178	50.966	72.577	86.041	84.665
107.5	13.035	23.039	29.670	50.107	71.657	84.946	83.404
110.0	12.790	22.758	29.258	49.214	70.457	83.553	81.950
112.5	12.562	22.303	28.628	48.136	69.046	81.906	80.347
115.0	12.211	21.821	28.093	47.234	68.109	80.198	78.595
117.5	11.940	21.217	27.463	46.148	67.452	78.455	76.711
120.0	11.625	20.735	26.841	45.210	66.611	76.781	74.810
122.5	11.362	20.236	26.166	44.229	65.595	75.625	73.339
125.0	11.081	19.701	25.658	43.134	63.668	74.223	72.139
127.5	10.810	19.097	25.071	41.636	61.259	72.445	70.492
130.0	10.477	18.361	24.283	39.937	58.631	70.185	68.573
132.5	10.135	17.739	23.451	38.211	56.160	67.233	66.129
135.0	9.689	17.100	22.548	36.512	53.725	63.957	63.019
137.5	9.364	16.372	21.506	34.795	51.176	60.733	59.787
140.0	9.040	15.672	20.577	33.043	48.136	57.632	56.686
142.5	8.655	14.883	19.535	32.482	45.202	54.487	53.541
145.0	8.243	14.060	18.554	30.870	42.381	50.992	50.440
147.5	7.577	13.359	17.520	28.610	39.271	47.286	46.717
150.0	7.201	12.203	16.469	26.315	36.109	43.651	43.064
152.5	6.596	11.493	14.936	24.239	33.183	39.604	39.481
155.0	5.904	10.416	13.972	21.462	28.917	35.531	34.602
157.5	5.256	9.277	12.649	19.754	26.569	32.228	31.956
160.0	4.608	8.068	11.108	17.301	23.126	28.461	27.997
162.5	4.038	6.938	9.592	14.664	19.692	24.598	24.178
165.0	3.197	5.913	8.015	11.949	16.337	20.437	20.349
167.5	2.462	4.836	6.298	9.329	13.070	16.723	16.311
170.0	1.533	3.583	5.046	7.034	8.979	13.289	13.026
172.5	0.850	2.146	3.434	4.984	4.941	8.410	8.453
175.0	0.718	0.990	1.743	3.145	2.391	4.091	4.082
177.5	0.683	0.692	0.780	1.586	1.077	1.358	0.850
180.0	0.499	0.499	0.499	0.499	0.499	0.499	0.499

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	4.76	N.A.	1.10
0-30	13.93	N.A.	3.30
0-40	29.81	N.A.	7.10
0-60	84.91	N.A.	20.20
0-80	165.79	N.A.	39.50
0-90	211.74	N.A.	50.50
10-90	210.91	N.A.	50.30
20-40	25.04	N.A.	6.00
20-50	48.66	N.A.	11.60
40-70	93.13	N.A.	22.20
60-80	80.88	N.A.	19.30
70-80	42.86	N.A.	10.20
80-90	45.95	N.A.	11.00
90-110	88.50	N.A.	21.10
90-120	126.10	N.A.	30.10
90-130	157.49	N.A.	37.60
90-150	196.38	N.A.	46.80
90-180	207.65	N.A.	49.50
110-180	119.15	N.A.	28.40
0-180	419.39	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	0.83
10-20	3.93
20-30	9.17
30-40	15.88
40-50	23.61
50-60	31.49
60-70	38.02
70-80	42.86
80-90	45.95
90-100	45.78
100-110	42.72
110-120	37.61
120-130	31.39
130-140	23.47
140-150	15.43
150-160	8.12
160-170	2.85
170-180	0.30

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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	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57	51
1	92	86	80	74	84	78	73	68	65	61	57	53	49	47	41	39	37	31
2	82	72	63	56	74	66	58	52	54	48	43	43	39	35	33	30	27	22
3	73	61	52	44	67	56	48	41	46	39	34	36	31	27	28	24	20	16
4	66	53	43	36	60	48	40	33	40	33	27	31	26	22	24	20	16	12
5	60	47	37	30	55	42	34	27	35	28	23	28	22	18	21	17	13	10
6	55	41	32	25	50	38	29	23	31	24	19	24	19	15	18	14	11	8
7	51	37	28	21	46	34	25	20	28	21	16	22	17	13	17	12	9	6
8	47	33	24	18	43	30	22	17	25	18	14	20	15	11	15	11	8	5
9	44	30	22	16	40	27	20	15	23	16	12	18	13	9	14	10	7	5
10	41	27	19	14	37	25	18	13	21	15	11	17	12	8	13	9	6	4

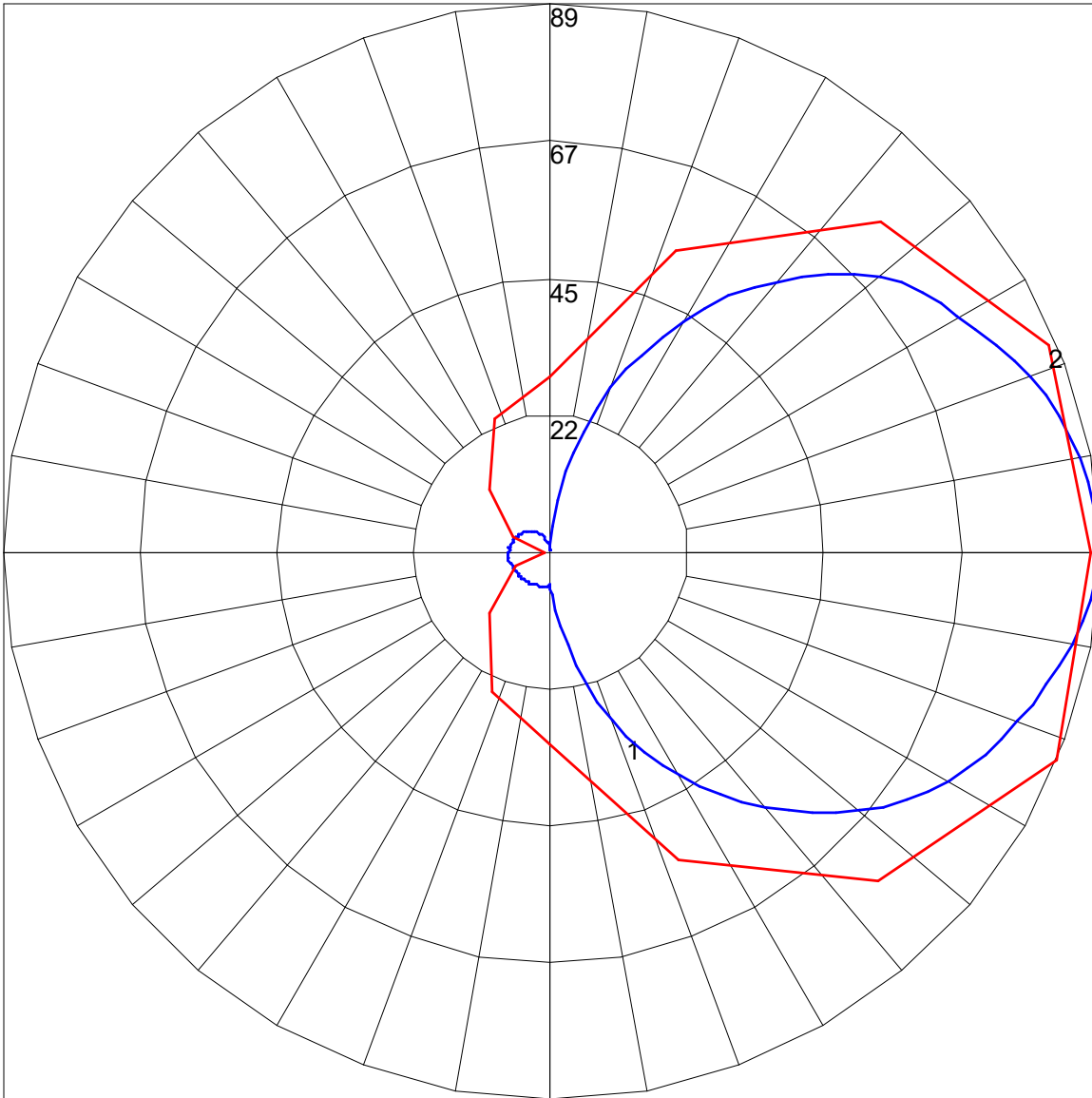
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UGR TABLE - CORRECTED

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					UGR Viewed Endwise				
X=2H	Y=2H	10.8	11.8	11.7	12.8	14.0	4.4	5.5	5.3	6.4	7.7
	3H	14.0	14.9	14.9	15.9	17.2	6.9	7.8	7.8	8.8	10.1
	4H	15.5	16.5	16.5	17.4	18.7	8.1	9.0	9.0	10.0	11.2
	6H	17.1	18.0	18.0	18.9	20.2	9.2	10.1	10.2	11.1	12.4
	8H	17.9	18.7	18.8	19.7	21.0	9.8	10.6	10.7	11.6	12.9
	12H	18.6	19.4	19.6	20.4	21.7	10.3	11.1	11.3	12.1	13.4
4H	2H	11.2	12.1	12.1	13.1	14.4	6.1	7.0	7.0	8.0	9.3
	3H	14.7	15.5	15.6	16.5	17.8	8.7	9.5	9.7	10.5	11.8
	4H	16.4	17.2	17.4	18.2	19.5	10.0	10.8	11.0	11.8	13.1
	6H	18.2	18.9	19.2	19.9	21.2	11.3	11.9	12.2	12.9	14.2
	8H	19.1	19.7	20.0	20.7	22.0	11.8	12.5	12.8	13.5	14.8
	12H	20.0	20.5	20.9	21.6	22.9	12.4	13.0	13.4	14.0	15.4
8H	4H	16.7	17.4	17.7	18.4	19.7	11.2	11.8	12.1	12.8	14.1
	6H	18.7	19.3	19.7	20.3	21.7	12.7	13.2	13.7	14.3	15.6
	8H	19.8	20.3	20.8	21.3	22.6	13.4	13.9	14.4	14.9	16.3
	12H	20.9	21.3	21.9	22.3	23.7	14.1	14.5	15.1	15.6	16.9
12H	4H	16.8	17.4	17.7	18.4	19.7	11.5	12.1	12.5	13.1	14.4
	6H	18.8	19.3	19.8	20.4	21.7	13.1	13.6	14.1	14.7	16.0
	8H	19.9	20.4	21.0	21.4	22.8	13.9	14.4	15.0	15.4	16.8

Maximum UGR = 23.7

POLAR GRAPH



Maximum Candela = 89.483 Located At Horizontal Angle = 337.5, Vertical Angle = 90
1 - Vertical Plane Through Horizontal Angles (337.5 - 157.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (90) (Through Max. Cd.)