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IES INDOOR REPORT
PHOTOMETRIC FILENAME : FAL-7566W.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LM-79-08
[TESTLAB] Orb Optronix, Inc.
[ISSUEDATE] 07-19-2019
[MANUFAC] Justice Design
[LUMINAIRE] FAL-7566W

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	625
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	18
Total Luminaire Watts	34.81
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)	0.67 ft
Luminous Height	3.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	625	546	490
55	648	561	503
65	658	569	507
75	670	578	511
85	695	596	525

IES INDOOR REPORT
PHOTOMETRIC FILENAME : FAL-7566W.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>	<u>202.5</u>
0.0	8.925	8.925	8.925	8.925	8.925	8.925	8.925	8.925	8.925	8.925
2.5	12.002	12.558	11.912	10.522	9.481	8.701	8.898	8.091	8.190	7.965
5.0	15.949	16.586	15.473	12.953	10.746	9.481	9.517	8.360	8.118	8.028
7.5	20.425	21.187	19.447	15.635	11.975	10.486	9.903	8.495	8.028	8.136
10.0	25.466	25.995	23.483	18.514	13.554	11.616	10.504	8.611	7.956	8.378
12.5	30.265	30.776	27.789	21.537	15.114	12.800	11.123	8.692	7.831	8.405
15.0	35.073	35.656	31.915	24.551	16.702	14.020	11.778	8.746	7.651	8.584
17.5	40.266	40.688	36.212	27.565	18.326	15.303	12.244	8.746	7.499	8.611
20.0	45.379	45.864	40.742	30.722	20.021	16.541	12.917	8.764	7.176	8.602
22.5	50.411	51.021	45.155	33.871	21.636	17.832	13.652	8.880	7.024	8.566
25.0	55.327	55.946	49.541	37.082	23.196	19.106	14.065	9.015	6.710	8.647
27.5	60.135	60.700	53.721	39.908	24.802	20.308	14.603	9.140	6.530	8.737
30.0	64.736	65.329	57.480	42.832	26.273	21.474	15.213	9.212	6.082	8.809
32.5	68.970	69.796	61.436	45.505	27.601	22.506	15.473	9.230	5.777	8.692
35.0	73.222	74.146	64.997	48.115	28.937	23.528	15.877	9.275	5.481	8.746
37.5	77.617	78.730	68.728	50.681	30.328	24.596	16.281	9.275	5.194	8.737
40.0	82.031	83.313	72.496	53.542	31.592	25.582	16.630	9.293	4.700	8.826
42.5	86.390	88.032	76.308	56.098	32.974	26.686	16.792	9.347	4.440	8.746
45.0	90.642	92.561	80.075	58.754	34.301	27.735	17.285	9.365	4.099	8.737
47.5	94.678	96.858	83.439	61.095	35.494	28.695	17.689	9.481	3.920	8.764
50.0	98.419	100.850	86.650	63.355	36.633	29.475	18.101	9.481	3.570	8.746
52.5	102.303	105.137	89.799	65.427	37.710	30.390	18.487	9.679	3.301	8.809
55.0	105.891	109.237	92.893	67.472	38.571	31.260	18.837	9.697	3.077	8.764
57.5	109.039	112.878	95.665	69.284	39.495	31.906	19.223	9.723	2.763	8.809
60.0	111.874	116.090	98.087	70.791	40.132	32.471	19.492	9.679	2.521	8.826
62.5	114.233	118.790	100.033	72.137	40.625	32.866	19.626	9.750	2.404	8.809
65.0	116.449	121.149	101.926	73.097	41.011	33.117	19.842	9.768	2.341	8.925
67.5	118.404	123.400	103.334	73.958	41.235	33.341	19.976	9.921	2.278	8.871
70.0	120.342	125.715	104.940	74.971	41.477	33.494	20.174	10.028	2.135	9.015
72.5	122.153	127.186	106.608	75.859	42.007	33.826	20.496	10.172	2.090	9.078
75.0	124.028	126.728	108.349	76.774	42.338	34.203	20.900	10.351	2.099	9.140
77.5	125.966	127.876	109.757	77.716	42.634	34.678	21.232	10.477	2.000	9.275
80.0	127.858	129.267	111.309	78.425	42.975	34.893	21.367	10.396	1.857	9.347
82.5	129.464	130.531	112.367	78.873	43.146	35.127	21.429	10.351	1.624	9.212
85.0	130.540	131.366	113.318	79.367	43.146	35.324	21.429	10.208	1.310	9.158
87.5	131.204	131.895	113.973	79.429	43.083	35.189	21.367	10.253	1.274	9.078
90.0	131.339	131.599	113.919	79.187	42.841	35.073	21.232	10.217	1.274	9.158
92.5	131.141	131.231	113.569	78.918	42.832	35.010	21.026	10.082	1.310	9.158
95.0	130.603	130.262	113.103	78.577	42.697	34.848	21.097	10.235	1.471	9.338
97.5	129.599	129.482	112.295	77.958	42.473	34.543	20.810	10.082	1.426	9.096
100.0	128.388	128.244	111.560	77.420	42.168	34.203	20.622	9.876	1.337	8.898
102.5	127.105	127.186	110.618	76.864	41.782	33.844	20.218	9.679	1.139	8.764
105.0	125.768	125.607	109.398	76.254	41.414	33.476	19.931	9.410	1.121	8.557
107.5	124.073	124.226	107.990	75.321	41.002	33.072	19.555	9.410	1.157	8.423
110.0	121.992	122.530	106.232	74.451	40.589	32.606	19.196	9.499	1.220	8.225
112.5	119.570	120.584	104.581	73.518	39.952	32.148	18.729	9.347	1.184	8.010
115.0	116.825	118.449	103.729	72.406	39.333	31.619	18.281	9.006	1.112	7.894
117.5	114.125	116.153	102.994	71.240	38.715	31.000	17.788	8.826	1.076	7.687
120.0	111.354	114.161	101.953	70.154	38.114	30.346	17.527	8.584	1.157	7.490
122.5	109.488	113.013	100.500	68.863	37.423	29.745	16.855	8.360	1.184	7.355
125.0	107.855	111.694	97.638	67.212	36.903	28.946	16.370	8.091	1.319	7.140
127.5	105.406	109.622	93.916	65.086	36.167	28.139	15.850	7.822	1.247	7.006
130.0	102.177	106.591	89.888	62.440	35.189	27.269	15.276	7.409	1.337	6.817
132.5	98.293	102.778	86.067	59.516	33.934	26.264	14.765	7.176	1.337	6.602

IES INDOOR REPORT
PHOTOMETRIC FILENAME : FAL-7566W.IES

CANDELA TABULATION - (Cont.)

135.0	93.647	98.024	82.389	56.708	32.624	25.134	14.155	7.024	1.381	6.405
137.5	88.991	93.458	78.317	53.946	31.216	24.058	13.473	6.754	1.579	6.216
140.0	84.130	89.054	76.128	51.039	29.745	22.990	12.908	6.440	1.713	6.082
142.5	79.429	84.444	71.733	48.079	28.211	21.851	12.289	6.270	1.722	5.804
145.0	74.433	79.232	67.813	44.733	26.650	20.712	11.706	5.974	1.785	5.615
147.5	68.970	73.563	63.588	41.325	25.017	19.312	10.854	5.400	1.938	5.463
150.0	63.373	68.055	59.067	37.880	23.232	17.841	9.813	4.978	1.561	4.996
152.5	57.659	62.431	54.233	34.346	20.828	16.101	9.293	4.476	1.561	4.458
155.0	50.555	52.824	49.039	30.265	19.250	14.890	8.163	3.812	1.354	3.929
157.5	46.599	50.546	42.482	27.233	17.483	13.204	7.320	3.409	0.978	3.391
160.0	40.760	44.240	39.316	23.349	15.097	11.329	6.261	2.682	0.736	2.987
162.5	34.848	37.925	33.754	19.268	12.558	9.661	5.373	2.135	0.601	2.431
165.0	29.126	31.906	28.031	15.025	10.414	8.046	4.081	1.579	0.583	1.579
167.5	23.196	25.529	22.631	11.239	8.333	6.046	2.763	0.978	0.664	1.184
170.0	18.245	20.030	17.187	7.651	5.893	4.234	1.444	0.718	0.556	0.978
172.5	11.401	12.953	8.692	4.548	3.364	2.162	0.753	0.601	0.493	0.736
175.0	4.907	5.822	4.350	2.189	1.408	0.915	0.449	0.691	0.664	0.807
177.5	0.897	1.668	1.498	0.780	0.484	0.529	0.646	0.673	0.664	0.673
180.0	0.744	0.744	0.744	0.744	0.744	0.744	0.744	0.744	0.744	0.744

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	8.925	8.925	8.925	8.925	8.925	8.925	8.925
2.5	8.360	8.746	9.634	10.235	11.419	10.701	11.257
5.0	8.584	9.813	10.863	12.459	14.917	14.244	15.070
7.5	9.060	10.863	12.110	14.944	18.756	18.514	19.555
10.0	9.589	11.616	13.670	17.796	22.838	23.241	24.219
12.5	10.073	12.531	15.249	20.470	27.188	28.229	29.126
15.0	10.674	13.607	16.882	23.349	31.216	33.198	33.987
17.5	11.132	14.890	18.442	26.264	35.387	38.284	38.885
20.0	11.679	16.029	20.174	29.027	39.854	43.505	43.863
22.5	12.334	17.213	21.734	31.870	43.818	48.671	48.940
25.0	12.872	18.335	23.304	34.759	47.981	53.676	53.802
27.5	13.356	19.492	24.847	37.504	52.044	58.646	58.538
30.0	13.886	20.649	26.408	40.248	55.919	63.400	63.131
32.5	14.424	21.806	27.924	42.930	59.740	67.786	67.302
35.0	14.962	22.900	29.341	45.532	63.400	72.182	71.823
37.5	15.294	23.708	30.857	48.160	66.961	76.595	75.994
40.0	15.967	24.910	32.292	50.770	70.603	81.026	80.407
42.5	16.298	25.995	33.718	53.587	74.541	85.538	84.829
45.0	16.765	27.054	35.189	56.323	78.138	89.969	89.234
47.5	17.366	28.202	36.391	58.960	81.663	94.095	93.252
50.0	17.707	29.126	37.611	61.561	84.937	98.087	97.082
52.5	18.173	30.058	38.777	63.929	88.094	101.899	100.850
55.0	18.577	30.955	39.782	66.270	91.162	105.676	104.492
57.5	18.837	31.799	40.733	68.504	93.943	109.219	107.927
60.0	19.106	32.561	41.414	70.468	96.356	112.251	110.941
62.5	19.294	33.162	42.033	72.074	98.419	114.771	113.542
65.0	19.510	33.646	42.527	73.635	100.294	117.139	115.794
67.5	19.573	34.077	42.859	74.855	102.016	119.140	117.803
70.0	19.761	34.517	43.325	75.931	103.621	121.212	119.678
72.5	20.048	34.902	43.792	77.133	105.245	123.068	121.866
75.0	20.317	35.315	44.330	78.138	106.770	124.979	123.822
77.5	20.577	35.772	45.245	79.340	108.376	126.943	125.831
80.0	20.918	36.364	46.025	80.228	110.134	129.024	127.661

IES INDOOR REPORT
PHOTOMETRIC FILENAME : FAL-7566W.IES

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82.5	21.053	36.813	46.608	80.981	111.407	130.738	129.222
85.0	21.178	37.109	46.913	81.457	112.322	132.074	130.585
87.5	21.044	37.261	46.985	81.528	112.870	132.944	131.411
90.0	21.232	37.190	47.021	81.340	113.192	133.303	131.787
92.5	21.097	37.019	46.832	80.874	112.852	133.187	131.563
95.0	20.963	36.831	46.832	80.201	112.340	132.675	130.738
97.5	20.810	36.571	46.509	79.340	111.560	131.832	129.760
100.0	20.604	36.140	45.998	78.335	110.672	130.863	128.639
102.5	20.245	35.611	45.442	77.196	109.335	129.688	127.509
105.0	19.734	35.010	44.958	75.922	108.106	128.172	126.118
107.5	19.420	34.319	44.195	74.648	106.743	126.540	124.243
110.0	19.061	33.898	43.576	73.312	104.958	124.468	122.082
112.5	18.711	33.225	42.652	71.706	102.859	122.001	119.696
115.0	18.191	32.507	41.854	70.370	101.460	119.471	117.085
117.5	17.788	31.601	40.912	68.746	100.482	116.870	114.278
120.0	17.321	30.884	39.979	67.347	99.226	114.385	111.443
122.5	16.926	30.148	38.975	65.876	97.710	112.654	109.246
125.0	16.505	29.350	38.221	64.261	94.840	110.573	107.461
127.5	16.101	28.453	37.351	62.028	91.261	107.918	105.003
130.0	15.608	27.359	36.167	59.489	87.341	104.554	102.150
132.5	15.097	26.426	34.938	56.924	83.663	100.159	98.509
135.0	14.433	25.466	33.584	54.385	80.030	95.279	93.880
137.5	13.957	24.389	32.041	51.838	76.236	90.480	89.063
140.0	13.464	23.349	30.659	49.218	71.706	85.852	84.444
142.5	12.890	22.165	29.099	48.384	67.338	81.170	79.761
145.0	12.280	20.954	27.646	45.980	63.131	75.967	75.142
147.5	11.284	19.895	26.094	42.616	58.493	70.441	69.589
150.0	10.728	18.173	24.533	39.199	53.784	65.024	64.153
152.5	9.831	17.124	22.255	36.104	49.434	58.996	58.807
155.0	8.791	15.518	20.810	31.960	43.074	52.932	51.551
157.5	7.831	13.823	18.846	29.431	39.576	48.007	47.604
160.0	6.862	12.020	16.550	25.771	34.454	42.392	41.702
162.5	6.019	10.342	14.289	21.851	29.341	36.642	36.015
165.0	4.754	8.809	11.948	17.796	24.345	30.453	30.310
167.5	3.660	7.203	9.383	13.895	19.465	24.910	24.300
170.0	2.278	5.346	7.517	10.477	13.374	19.797	19.402
172.5	1.265	3.193	5.113	7.427	7.355	12.531	12.594
175.0	1.067	1.471	2.592	4.682	3.561	6.091	6.082
177.5	1.023	1.032	1.157	2.359	1.606	2.027	1.265
180.0	0.744	0.744	0.744	0.744	0.744	0.744	0.744

IES INDOOR REPORT
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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	7.10	N.A.	1.10
0-30	20.76	N.A.	3.30
0-40	44.41	N.A.	7.10
0-60	126.49	N.A.	20.20
0-80	246.97	N.A.	39.50
0-90	315.42	N.A.	50.50
10-90	314.19	N.A.	50.30
20-40	37.31	N.A.	6.00
20-50	72.48	N.A.	11.60
40-70	138.73	N.A.	22.20
60-80	120.48	N.A.	19.30
70-80	63.84	N.A.	10.20
80-90	68.45	N.A.	11.00
90-110	131.83	N.A.	21.10
90-120	187.85	N.A.	30.10
90-130	234.61	N.A.	37.60
90-150	292.55	N.A.	46.80
90-180	309.33	N.A.	49.50
110-180	177.50	N.A.	28.40
0-180	624.75	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1.24
10-20	5.86
20-30	13.66
30-40	23.65
40-50	35.18
50-60	46.91
60-70	56.64
70-80	63.84
80-90	68.45
90-100	68.20
100-110	63.63
110-120	56.02
120-130	46.76
130-140	34.96
140-150	22.98
150-160	12.10
160-170	4.24
170-180	0.44

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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	69	69	69	57	57	57	50
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	65	58	52	54	48	43	43	39	35	33	30	27	22
3	73	61	52	44	66	56	47	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	22	27	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

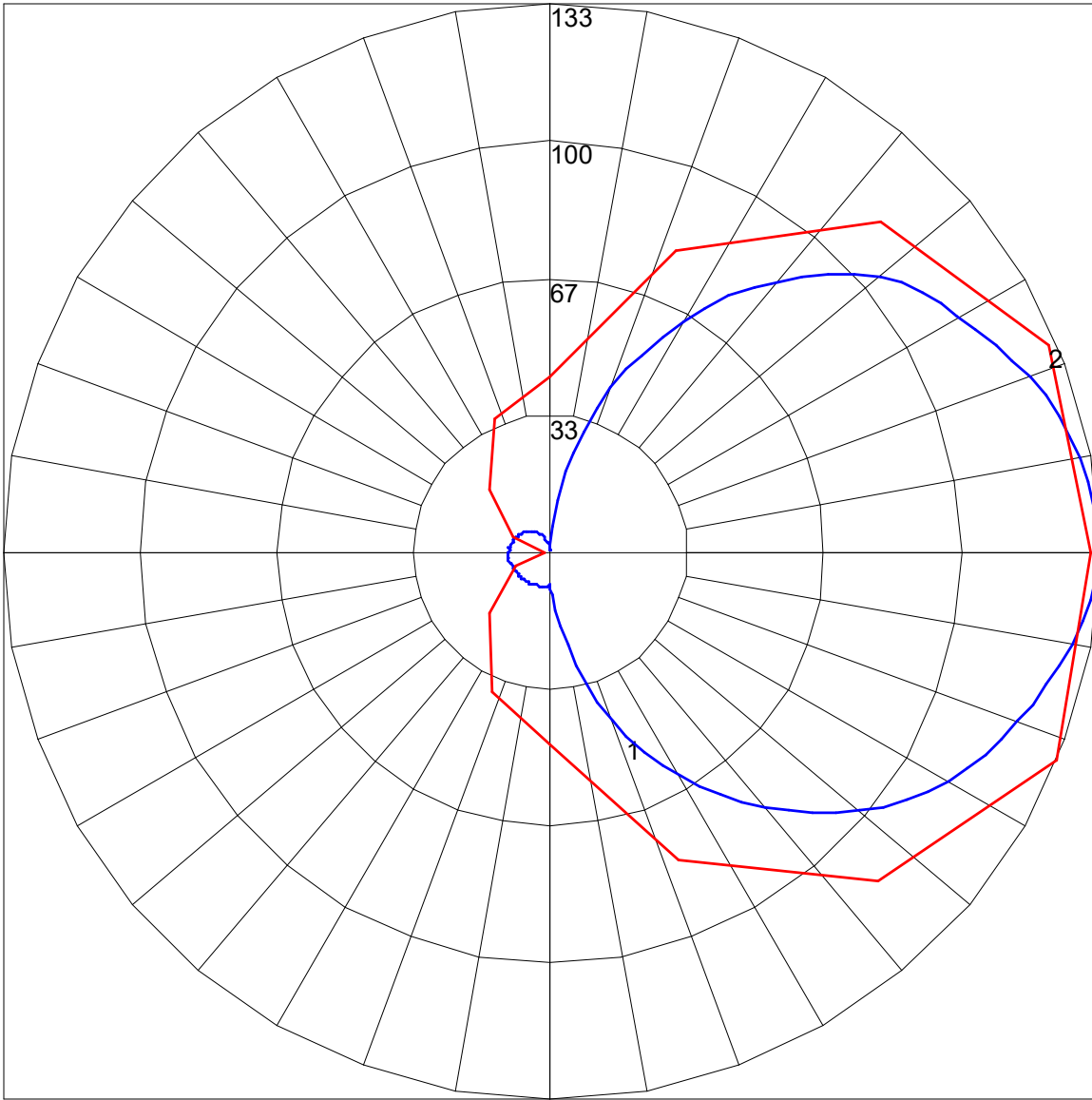
IES INDOOR REPORT
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UGR TABLE - CORRECTED

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					UGR Viewed Endwise				
X=2H	Y=2H	10.5	11.6	11.4	12.5	13.8	3.8	4.9	4.7	5.8	7.1
	3H	13.8	14.7	14.7	15.7	17.0	6.3	7.2	7.2	8.2	9.5
	4H	15.4	16.3	16.3	17.3	18.5	7.4	8.4	8.4	9.3	10.6
	6H	16.9	17.8	17.9	18.8	20.1	8.6	9.5	9.5	10.4	11.7
	8H	17.7	18.6	18.7	19.5	20.8	9.1	10.0	10.1	10.9	12.2
	12H	18.5	19.3	19.4	20.3	21.6	9.6	10.4	10.6	11.4	12.7
4H	2H	10.9	11.9	11.9	12.8	14.1	5.6	6.5	6.5	7.5	8.7
	3H	14.4	15.2	15.4	16.2	17.5	8.1	9.0	9.1	10.0	11.2
	4H	16.2	17.0	17.2	18.0	19.3	9.4	10.2	10.4	11.2	12.5
	6H	18.0	18.7	19.0	19.7	21.0	10.6	11.3	11.6	12.3	13.6
	8H	18.9	19.5	19.8	20.5	21.9	11.2	11.9	12.2	12.9	14.2
	12H	19.8	20.4	20.8	21.4	22.7	11.8	12.4	12.8	13.4	14.7
8H	4H	16.5	17.1	17.4	18.1	19.4	10.6	11.3	11.6	12.3	13.6
	6H	18.5	19.0	19.5	20.1	21.4	12.1	12.6	13.1	13.7	15.0
	8H	19.5	20.1	20.5	21.1	22.4	12.8	13.3	13.8	14.3	15.7
	12H	20.6	21.1	21.6	22.1	23.5	13.5	13.9	14.5	15.0	16.3
12H	4H	16.5	17.1	17.5	18.1	19.4	11.0	11.6	12.0	12.6	13.9
	6H	18.6	19.1	19.6	20.1	21.5	12.6	13.1	13.6	14.1	15.4
	8H	19.7	20.2	20.7	21.2	22.6	13.4	13.8	14.4	14.9	16.2

Maximum UGR = 23.5

POLAR GRAPH



Maximum Candela = 133.303 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.)