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IES INDOOR REPORT

PHOTOMETRIC FILENAME : CLD-7562W.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LM-79-08
[TESTLAB] Orb Optronix, Inc.
[ISSUEDATE] 07-18-2019
[MANUFAC] Justice Design
[LUMINAIRE] CLD-7562W-MBLK
[TOTALLUMINAIRELUMENS] 288
[ABSOLUTELUMENS] 288.010196618072

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	288
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	22
Total Luminaire Watts	12.96
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	1.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1062	838	548
55	1120	853	525
65	1144	857	498
75	1163	862	472
85	1189	882	466

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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	12.880	12.880	12.880	12.880	12.880	12.880	12.880	12.880	12.880	12.880
2.5	13.940	13.860	13.800	13.740	13.260	12.700	12.550	12.740	12.640	12.590
5.0	15.580	15.410	15.140	14.590	13.620	12.880	12.650	12.610	12.560	12.500
7.5	17.550	17.230	16.660	14.990	13.890	13.150	12.660	12.600	12.400	12.400
10.0	19.600	19.290	18.370	15.810	14.200	13.320	12.680	12.380	12.220	12.270
12.5	21.830	21.390	20.010	16.790	14.470	13.500	12.710	12.200	12.080	12.100
15.0	23.970	23.500	21.760	17.830	14.560	13.540	12.630	12.030	11.790	11.870
17.5	26.290	25.790	23.490	18.760	14.870	13.610	12.440	11.640	11.480	11.450
20.0	28.480	27.960	25.380	19.840	15.090	13.650	12.330	11.170	11.040	11.090
22.5	30.710	30.250	27.250	20.860	15.310	13.810	12.160	10.540	10.510	10.510
25.0	32.990	32.480	29.030	21.930	15.450	13.950	11.820	9.870	9.960	9.980
27.5	35.040	34.580	30.770	22.920	15.620	13.970	11.590	9.410	9.520	9.450
30.0	37.050	36.560	32.310	23.780	15.710	14.010	11.210	8.880	8.960	9.080
32.5	38.930	38.480	33.730	24.590	15.710	13.910	10.840	8.180	8.080	8.440
35.0	40.850	40.260	35.200	25.350	15.710	13.770	10.610	7.550	7.300	7.780
37.5	42.850	42.260	36.620	26.020	15.800	13.760	10.260	6.960	6.620	7.260
40.0	44.820	44.260	38.120	26.820	15.850	13.830	10.040	6.550	6.170	6.880
42.5	46.780	46.240	39.640	27.670	15.980	13.760	9.810	6.200	5.720	6.570
45.0	48.650	48.150	40.950	28.520	16.100	13.760	9.690	5.880	5.270	6.280
47.5	50.350	49.750	42.140	29.190	16.050	13.610	9.390	5.570	4.880	5.970
50.0	52.130	51.470	43.280	29.740	15.990	13.590	9.040	5.210	4.430	5.560
52.5	53.820	53.120	44.300	30.140	16.010	13.370	8.810	4.860	4.020	5.210
55.0	55.430	54.780	45.260	30.720	15.980	13.240	8.500	4.590	3.660	4.900
57.5	56.810	56.220	46.220	31.170	15.880	13.100	8.140	4.190	3.270	4.540
60.0	57.940	57.350	46.970	31.450	15.770	12.900	7.790	3.920	2.820	4.270
62.5	58.680	58.000	47.490	31.590	15.510	12.580	7.440	3.690	2.630	4.140
65.0	59.080	58.430	47.670	31.510	15.240	12.150	7.120	3.600	2.450	3.960
67.5	59.800	59.030	47.990	31.460	14.970	11.820	6.840	3.600	2.190	3.870
70.0	60.260	59.490	48.230	31.450	14.790	11.530	6.680	3.600	2.140	3.820
72.5	60.490	59.820	48.470	31.590	14.520	11.260	6.590	3.510	1.960	3.690
75.0	60.800	60.120	48.700	31.550	14.070	11.080	6.720	3.520	1.830	3.610
77.5	61.110	60.380	49.000	31.590	13.860	10.940	6.760	3.470	1.690	3.540
80.0	61.140	60.450	49.180	31.590	13.680	10.880	6.730	3.290	1.430	3.400
82.5	61.090	60.550	49.140	31.550	13.400	10.810	6.620	2.970	0.980	3.210
85.0	60.980	60.330	49.060	31.460	13.110	10.720	6.300	2.800	0.670	2.850
87.5	60.700	59.960	48.880	31.150	12.790	10.540	6.160	2.800	0.670	2.800
90.0	60.360	59.710	48.720	30.920	12.610	10.380	6.180	2.890	0.530	2.810
92.5	59.910	59.300	48.490	30.880	12.780	10.390	6.130	2.850	0.670	2.910
95.0	59.510	58.860	48.270	30.740	12.890	10.440	6.140	2.850	0.800	2.970
97.5	58.840	58.200	47.890	30.570	12.870	10.390	6.260	2.720	0.710	2.890
100.0	58.210	57.580	47.800	30.480	12.870	10.240	6.240	2.850	0.670	2.880
102.5	57.750	57.320	47.720	30.430	13.090	10.200	6.100	2.890	0.800	2.890
105.0	57.250	56.900	47.500	30.390	13.150	10.240	5.800	2.890	0.890	2.890
107.5	56.600	56.270	47.200	30.250	13.300	10.420	5.700	2.710	0.980	2.880
110.0	55.640	55.420	46.550	30.030	13.410	10.630	5.650	2.440	0.970	2.660
112.5	54.640	54.380	46.100	29.670	13.410	10.690	5.660	2.530	0.760	2.480
115.0	53.530	53.240	45.530	29.350	13.480	10.720	5.640	2.490	0.850	2.460
117.5	52.290	52.110	44.850	29.170	13.480	10.710	5.810	2.350	0.800	2.380
120.0	51.270	51.300	44.260	30.170	13.660	10.740	6.120	2.320	0.850	2.360
122.5	50.320	50.380	44.820	31.420	14.290	10.800	6.640	2.460	0.890	2.370
125.0	49.180	49.460	46.700	31.690	14.460	10.720	6.940	2.600	1.030	2.420
127.5	48.030	48.500	50.790	30.500	14.540	10.710	7.020	2.960	1.210	2.640
130.0	47.210	49.240	53.050	29.170	14.320	10.600	7.160	3.430	1.440	2.930
132.5	48.340	51.650	51.150	28.160	13.890	10.490	7.250	3.760	1.810	3.470

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CANDELA TABULATION - (Cont.)

135.0	52.160	56.640	48.260	27.740	13.560	10.430	7.340	3.880	2.440	3.960
137.5	56.800	57.780	45.990	27.380	13.470	10.460	7.390	4.080	2.820	4.160
140.0	55.760	54.620	46.290	26.580	13.530	10.500	7.380	4.250	3.040	4.340
142.5	51.790	50.400	46.800	25.210	13.340	10.340	7.430	4.520	3.310	4.420
145.0	47.580	47.740	39.930	23.720	13.020	10.240	7.390	4.720	3.350	4.600
147.5	45.930	47.690	27.650	21.700	12.500	10.050	7.170	4.770	3.630	4.800
150.0	46.500	44.750	24.200	19.260	11.930	9.740	7.080	4.590	3.350	4.470
152.5	39.100	30.900	22.380	17.030	11.240	9.580	6.900	4.930	3.840	4.860
155.0	24.510	23.560	20.550	15.430	10.220	9.250	6.850	5.170	4.020	5.030
157.5	21.220	21.420	18.670	14.250	9.410	9.000	6.680	5.160	4.320	5.110
160.0	19.020	19.220	16.720	12.910	9.080	8.790	5.700	4.160	4.240	4.640
162.5	16.020	16.210	14.230	11.560	8.260	7.550	4.850	2.710	1.860	2.900
165.0	13.600	13.530	12.480	10.250	7.080	6.780	4.040	1.750	0.990	1.650
167.5	12.980	13.150	11.520	9.040	6.080	5.750	2.660	0.840	0.540	0.960
170.0	11.590	10.960	9.310	7.210	4.960	4.160	1.540	0.350	0.270	0.580
172.5	9.620	8.350	6.590	5.160	3.420	2.570	0.480	0.370	0.310	0.420
175.0	6.830	5.360	3.780	3.220	2.110	1.490	0.360	0.420	0.400	0.420
177.5	2.970	0.980	1.360	1.710	0.570	0.410	0.350	0.380	0.400	0.520
180.0	0.429	0.429	0.429	0.429	0.429	0.429	0.429	0.429	0.429	0.429

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	12.880	12.880	12.880	12.880	12.880	12.880	12.880
2.5	12.870	12.670	13.200	13.350	14.610	13.990	13.940
5.0	13.010	12.970	13.470	14.080	15.910	15.490	15.580
7.5	13.050	13.270	13.770	14.830	17.510	17.450	17.550
10.0	13.180	13.560	14.120	15.790	19.240	19.450	19.600
12.5	13.220	13.710	14.480	16.810	20.990	21.650	21.830
15.0	13.140	13.850	14.800	17.780	22.650	23.800	23.970
17.5	12.990	13.980	15.070	18.630	24.420	26.090	26.290
20.0	12.740	14.010	15.250	19.570	26.070	28.360	28.480
22.5	12.340	14.110	15.430	20.470	27.770	30.600	30.710
25.0	11.940	14.130	15.570	21.260	29.450	32.920	32.990
27.5	11.440	14.230	15.790	22.100	30.960	35.040	35.040
30.0	10.940	14.200	15.920	22.970	32.440	37.090	37.050
32.5	10.530	14.230	16.150	23.750	33.870	39.010	38.930
35.0	10.150	14.100	16.110	24.530	35.090	40.740	40.850
37.5	9.750	14.060	16.190	25.180	36.190	42.600	42.850
40.0	9.390	13.970	16.240	25.960	37.080	44.490	44.820
42.5	9.090	13.910	16.420	26.720	38.690	46.440	46.780
45.0	8.740	13.870	16.550	27.650	40.210	48.200	48.650
47.5	8.530	13.730	16.590	28.350	41.620	49.640	50.350
50.0	8.160	13.670	16.680	28.990	42.830	51.190	52.130
52.5	7.860	13.460	16.640	29.650	44.090	52.570	53.820
55.0	7.450	13.280	16.690	30.130	45.170	53.960	55.430
57.5	7.110	12.970	16.600	30.680	46.230	55.180	56.810
60.0	6.860	12.810	16.510	31.010	47.100	56.190	57.940
62.5	6.470	12.480	16.370	31.290	47.720	56.690	58.680
65.0	6.150	12.190	16.280	31.300	48.000	57.060	59.080
67.5	5.980	11.730	15.970	31.390	48.510	57.630	59.800
70.0	5.910	11.430	15.700	31.430	48.820	58.040	60.260
72.5	5.890	11.070	15.480	31.380	49.020	58.280	60.490
75.0	5.870	10.920	15.300	31.360	49.100	58.490	60.800
77.5	5.960	10.940	15.120	31.390	49.380	58.850	61.110
80.0	5.990	10.980	14.990	31.530	49.510	59.130	61.140

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CANDELA TABULATION - (Cont.)

82.5	5.890	10.990	14.810	31.400	49.510	59.310	61.090
85.0	5.700	10.830	14.630	31.280	49.300	59.230	60.980
87.5	5.590	10.640	14.400	31.070	48.910	59.100	60.700
90.0	5.630	10.550	14.240	30.680	48.560	58.920	60.360
92.5	5.670	10.640	14.240	30.430	48.260	58.690	59.910
95.0	5.760	10.670	14.330	30.220	47.970	58.430	59.510
97.5	5.730	10.600	14.320	30.000	47.410	57.990	58.840
100.0	5.720	10.330	14.360	29.660	46.900	57.540	58.210
102.5	5.610	10.280	14.290	29.350	46.330	57.220	57.750
105.0	5.370	10.150	14.280	28.980	45.860	57.500	57.250
107.5	5.200	10.190	14.280	28.640	45.240	57.360	56.600
110.0	5.090	10.440	14.280	28.230	44.580	56.470	55.640
112.5	5.070	10.680	14.190	27.770	43.890	55.400	54.640
115.0	4.950	10.630	14.140	27.270	43.060	54.190	53.530
117.5	5.110	10.670	14.090	26.710	42.320	52.810	52.290
120.0	5.310	10.720	14.020	26.690	41.770	51.700	51.270
122.5	5.660	10.810	14.510	26.990	42.590	50.670	50.320
125.0	6.200	10.810	14.740	27.550	44.950	49.510	49.180
127.5	6.500	10.770	14.920	27.270	48.550	48.260	48.030
130.0	6.510	10.680	14.900	26.460	48.610	48.160	47.210
132.5	6.580	10.550	14.800	25.430	46.100	49.860	48.340
135.0	6.670	10.370	14.670	24.360	43.940	54.010	52.160
137.5	6.590	10.280	14.430	23.200	42.470	56.400	56.800
140.0	6.700	10.100	14.150	22.080	43.120	53.710	55.760
142.5	6.670	9.920	13.760	21.030	43.860	49.680	51.790
145.0	6.730	9.790	13.460	19.840	34.220	46.380	47.580
147.5	6.550	9.430	12.970	18.580	25.740	46.310	45.930
150.0	6.420	9.390	12.300	16.990	23.520	45.550	46.500
152.5	6.320	9.210	12.010	15.430	21.760	35.330	39.100
155.0	6.410	8.940	11.270	14.080	20.040	23.920	24.510
157.5	6.350	8.830	10.240	12.880	18.200	21.720	21.220
160.0	5.950	7.720	9.650	11.580	16.220	19.450	19.020
162.5	4.630	6.190	8.500	10.200	13.450	16.750	16.020
165.0	3.750	5.740	7.450	9.160	12.210	13.970	13.600
167.5	2.700	3.780	6.340	7.620	10.930	13.140	12.980
170.0	1.720	2.750	4.740	5.960	8.720	11.350	11.590
172.5	0.730	1.270	2.960	4.090	6.250	9.350	9.620
175.0	0.450	0.620	1.520	2.280	3.150	6.570	6.830
177.5	0.620	0.580	0.630	0.880	1.320	2.780	2.970
180.0	0.429	0.429	0.429	0.429	0.429	0.429	0.429

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	6.18	N.A.	2.10
0-30	15.25	N.A.	5.30
0-40	28.84	N.A.	10.00
0-60	69.73	N.A.	24.20
0-80	122.66	N.A.	42.60
0-90	150.56	N.A.	52.30
10-90	149.19	N.A.	51.80
20-40	22.65	N.A.	7.90
20-50	40.94	N.A.	14.20
40-70	66.49	N.A.	23.10
60-80	52.93	N.A.	18.40
70-80	27.33	N.A.	9.50
80-90	27.90	N.A.	9.70
90-110	53.02	N.A.	18.40
90-120	76.10	N.A.	26.40
90-130	96.79	N.A.	33.60
90-150	128.25	N.A.	44.50
90-180	137.41	N.A.	47.70
110-180	84.38	N.A.	29.30
0-180	287.97	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1.37
10-20	4.81
20-30	9.07
30-40	13.58
40-50	18.29
50-60	22.61
60-70	25.59
70-80	27.33
80-90	27.90
90-100	27.27
100-110	25.76
110-120	23.08
120-130	20.69
130-140	18.30
140-150	13.17
150-160	6.51
160-170	2.33
170-180	0.32

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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	10	0
0	108	108	108	108	100	100	100	100	85	85	85	71	71	71	58	58	58	52
1	93	87	81	76	86	80	75	70	67	63	59	55	52	49	44	42	39	34
2	83	73	65	58	76	67	60	54	56	50	45	45	41	37	36	33	30	25
3	75	63	54	46	68	58	49	43	48	41	36	39	34	30	30	26	23	19
4	68	55	45	38	62	50	42	35	42	35	29	34	28	24	26	22	19	15
5	62	48	39	32	56	44	36	29	37	30	25	30	24	20	23	19	15	12
6	56	43	33	27	51	39	31	25	33	26	21	26	21	17	21	16	13	10
7	52	38	29	23	47	35	27	21	29	23	18	24	18	14	19	14	11	8
8	48	34	26	20	44	32	24	18	26	20	15	21	16	13	17	13	10	7
9	45	31	23	17	41	29	21	16	24	18	14	20	15	11	15	11	9	6
10	42	28	21	15	38	26	19	14	22	16	12	18	13	10	14	10	8	5

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UGR TABLE - CORRECTED

Reflectances

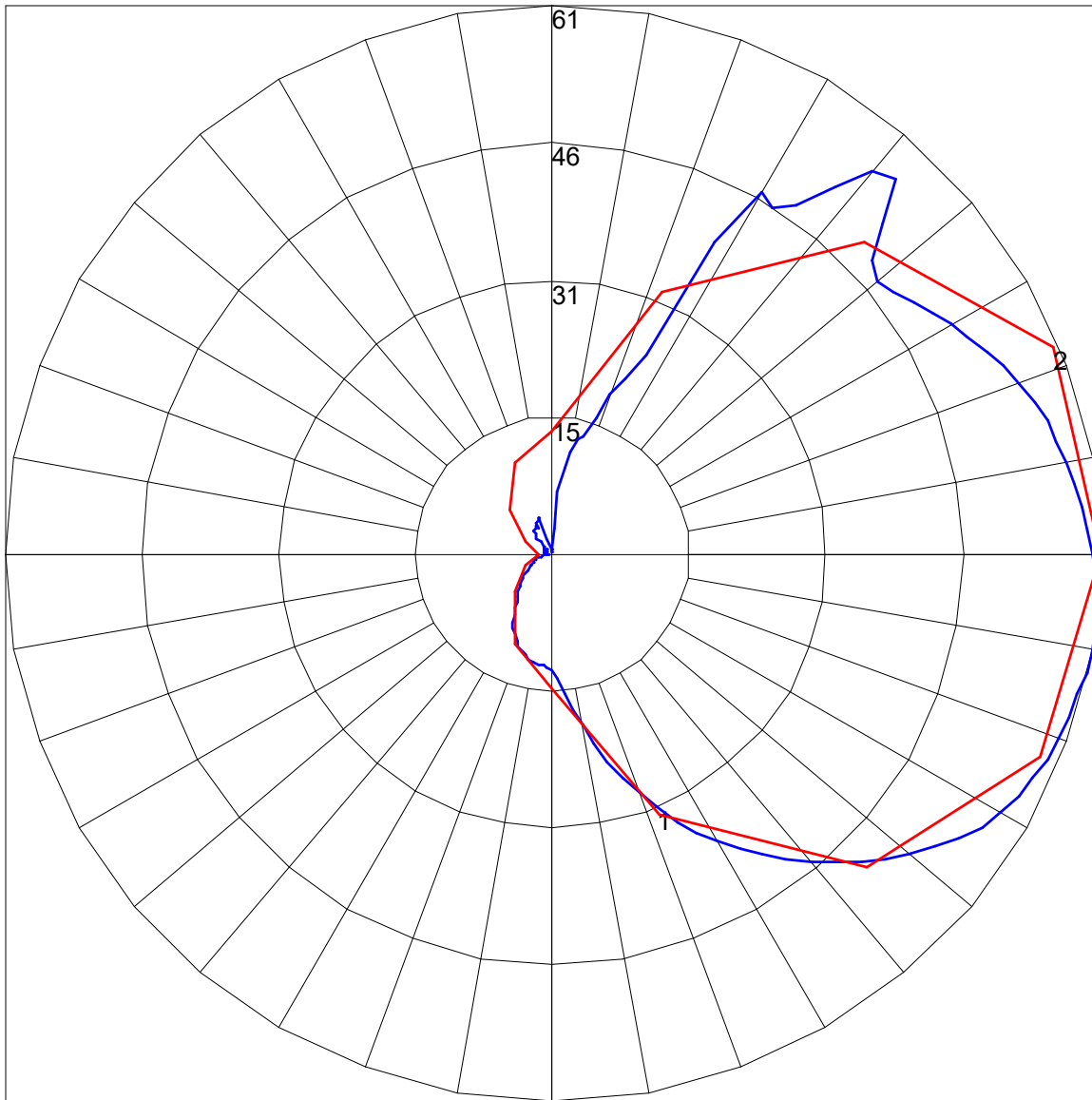
Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size UGR Viewed Crosswise

X=2H	Y=2H	12.2	13.3	13.1	14.2	15.4	UGR Viewed Endwise					
	3H	15.4	16.3	16.3	17.3	18.5	4.9	6.0	5.8	6.9	8.1	
	4H	16.9	17.8	17.8	18.8	20.0	7.0	8.0	8.0	8.9	10.2	
	6H	18.4	19.3	19.4	20.2	21.5	8.0	8.9	8.9	9.9	11.1	
	8H	19.2	20.0	20.1	21.0	22.2	8.9	9.8	9.8	10.7	12.0	
	12H	19.9	20.7	20.8	21.6	22.9	9.3	10.1	10.3	11.1	12.4	
							9.7	10.5	10.7	11.5	12.8	
4H	2H	12.6	13.5	13.5	14.5	15.7	6.8	7.7	7.8	8.7	10.0	
	3H	16.0	16.8	17.0	17.8	19.1	9.1	9.9	10.1	10.9	12.2	
	4H	17.7	18.5	18.7	19.5	20.8	10.2	11.0	11.2	11.9	13.2	
	6H	19.5	20.1	20.5	21.2	22.4	11.2	11.9	12.2	12.9	14.2	
	8H	20.3	21.0	21.3	22.0	23.3	11.7	12.3	12.6	13.3	14.6	
	12H	21.2	21.8	22.2	22.8	24.1	12.1	12.7	13.1	13.7	15.0	
8H	4H	18.0	18.6	19.0	19.6	20.9	11.6	12.2	12.6	13.2	14.5	
	6H	20.0	20.5	21.0	21.5	22.8	12.9	13.4	13.9	14.4	15.7	
	8H	21.0	21.5	22.0	22.5	23.8	13.5	13.9	14.5	15.0	16.3	
	12H	22.0	22.5	23.0	23.5	24.9	14.0	14.4	15.0	15.5	16.8	
12H	4H	18.0	18.6	19.0	19.6	20.9	12.0	12.6	13.0	13.6	14.9	
	6H	20.0	20.5	21.0	21.5	22.9	13.4	13.9	14.4	14.9	16.3	
	8H	21.1	21.6	22.1	22.6	24.0	14.1	14.6	15.1	15.6	16.9	

Maximum UGR = 24.9

POLAR GRAPH



Maximum Candela = 61.14 Located At Horizontal Angle = 0, Vertical Angle = 80
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (80) (Through Max. Cd.)