



The Perfect Lighting Choice.™

visit us at [www.JDG.com](http://www.JDG.com)

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : CLD-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] CLD-7566W-MBLK  
[\_TOTALLUMINAIRELUMENS] 696.7

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	696
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	20
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	697	609	546
55	722	626	561
65	733	634	565
75	747	644	570
85	775	664	585

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : CLD-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>
<b>0.0</b>	9.950	9.950	9.950	9.950	9.950	9.950	9.950	9.950	9.950	9.950
<b>2.5</b>	13.380	14.000	13.280	11.730	10.570	9.700	9.920	9.020	9.130	8.880
<b>5.0</b>	17.780	18.490	17.250	14.440	11.980	10.570	10.610	9.320	9.050	8.950
<b>7.5</b>	22.770	23.620	21.680	17.430	13.350	11.690	11.040	9.470	8.950	9.070
<b>10.0</b>	28.390	28.980	26.180	20.640	15.110	12.950	11.710	9.600	8.870	9.340
<b>12.5</b>	33.740	34.310	30.980	24.010	16.850	14.270	12.400	9.690	8.730	9.370
<b>15.0</b>	39.100	39.750	35.580	27.370	18.620	15.630	13.130	9.750	8.530	9.570
<b>17.5</b>	44.890	45.360	40.370	30.730	20.430	17.060	13.650	9.750	8.360	9.600
<b>20.0</b>	50.590	51.130	45.420	34.250	22.320	18.440	14.400	9.770	8.000	9.590
<b>22.5</b>	56.200	56.880	50.340	37.760	24.120	19.880	15.220	9.900	7.830	9.550
<b>25.0</b>	61.680	62.370	55.230	41.340	25.860	21.300	15.680	10.050	7.480	9.640
<b>27.5</b>	67.040	67.670	59.890	44.490	27.650	22.640	16.280	10.190	7.280	9.740
<b>30.0</b>	72.170	72.830	64.080	47.750	29.290	23.940	16.960	10.270	6.780	9.820
<b>32.5</b>	76.890	77.810	68.490	50.730	30.770	25.090	17.250	10.290	6.440	9.690
<b>35.0</b>	81.630	82.660	72.460	53.640	32.260	26.230	17.700	10.340	6.110	9.750
<b>37.5</b>	86.530	87.770	76.620	56.500	33.810	27.420	18.150	10.340	5.790	9.740
<b>40.0</b>	91.450	92.880	80.820	59.690	35.220	28.520	18.540	10.360	5.240	9.840
<b>42.5</b>	96.310	98.140	85.070	62.540	36.760	29.750	18.720	10.420	4.950	9.750
<b>45.0</b>	101.050	103.190	89.270	65.500	38.240	30.920	19.270	10.440	4.570	9.740
<b>47.5</b>	105.550	107.980	93.020	68.110	39.570	31.990	19.720	10.570	4.370	9.770
<b>50.0</b>	109.720	112.430	96.600	70.630	40.840	32.860	20.180	10.570	3.980	9.750
<b>52.5</b>	114.050	117.210	100.110	72.940	42.040	33.880	20.610	10.790	3.680	9.820
<b>55.0</b>	118.050	121.780	103.560	75.220	43.000	34.850	21.000	10.810	3.430	9.770
<b>57.5</b>	121.560	125.840	106.650	77.240	44.030	35.570	21.430	10.840	3.080	9.820
<b>60.0</b>	124.720	129.420	109.350	78.920	44.740	36.200	21.730	10.790	2.810	9.840
<b>62.5</b>	127.350	132.430	111.520	80.420	45.290	36.640	21.880	10.870	2.680	9.820
<b>65.0</b>	129.820	135.060	113.630	81.490	45.720	36.920	22.120	10.890	2.610	9.950
<b>67.5</b>	132.000	137.570	115.200	82.450	45.970	37.170	22.270	11.060	2.540	9.890
<b>70.0</b>	134.160	140.150	116.990	83.580	46.240	37.340	22.490	11.180	2.380	10.050
<b>72.5</b>	136.180	141.790	118.850	84.570	46.830	37.710	22.850	11.340	2.330	10.120
<b>75.0</b>	138.270	141.280	120.790	85.590	47.200	38.130	23.300	11.540	2.340	10.190
<b>77.5</b>	140.430	142.560	122.360	86.640	47.530	38.660	23.670	11.680	2.230	10.340
<b>80.0</b>	142.540	144.110	124.090	87.430	47.910	38.900	23.820	11.590	2.070	10.420
<b>82.5</b>	144.330	145.520	125.270	87.930	48.100	39.160	23.890	11.540	1.810	10.270
<b>85.0</b>	145.530	146.450	126.330	88.480	48.100	39.380	23.890	11.380	1.460	10.210
<b>87.5</b>	146.270	147.040	127.060	88.550	48.030	39.230	23.820	11.430	1.420	10.120
<b>90.0</b>	146.420	146.710	127.000	88.280	47.760	39.100	23.670	11.390	1.420	10.210
<b>92.5</b>	146.200	146.300	126.610	87.980	47.750	39.030	23.440	11.240	1.460	10.210
<b>95.0</b>	145.600	145.220	126.090	87.600	47.600	38.850	23.520	11.410	1.640	10.410
<b>97.5</b>	144.480	144.350	125.190	86.910	47.350	38.510	23.200	11.240	1.590	10.140
<b>100.0</b>	143.130	142.970	124.370	86.310	47.010	38.130	22.990	11.010	1.490	9.920
<b>102.5</b>	141.700	141.790	123.320	85.690	46.580	37.730	22.540	10.790	1.270	9.770
<b>105.0</b>	140.210	140.030	121.960	85.010	46.170	37.320	22.220	10.490	1.250	9.540
<b>107.5</b>	138.320	138.490	120.390	83.970	45.710	36.870	21.800	10.490	1.290	9.390
<b>110.0</b>	136.000	136.600	118.430	83.000	45.250	36.350	21.400	10.590	1.360	9.170
<b>112.5</b>	133.300	134.430	116.590	81.960	44.540	35.840	20.880	10.420	1.320	8.930
<b>115.0</b>	130.240	132.050	115.640	80.720	43.850	35.250	20.380	10.040	1.240	8.800
<b>117.5</b>	127.230	129.490	114.820	79.420	43.160	34.560	19.830	9.840	1.200	8.570
<b>120.0</b>	124.140	127.270	113.660	78.210	42.490	33.830	19.540	9.570	1.290	8.350
<b>122.5</b>	122.060	125.990	112.040	76.770	41.720	33.160	18.790	9.320	1.320	8.200
<b>125.0</b>	120.240	124.520	108.850	74.930	41.140	32.270	18.250	9.020	1.470	7.960
<b>127.5</b>	117.510	122.210	104.700	72.560	40.320	31.370	17.670	8.720	1.390	7.810
<b>130.0</b>	113.910	118.830	100.210	69.610	39.230	30.400	17.030	8.260	1.490	7.600
<b>132.5</b>	109.580	114.580	95.950	66.350	37.830	29.280	16.460	8.000	1.490	7.360

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : CLD-7566W.IES**

**CANDELA TABULATION - (Cont.)**

<b>135.0</b>	104.400	109.280	91.850	63.220	36.370	28.020	15.780	7.830	1.540	7.140
<b>137.5</b>	99.210	104.190	87.310	60.140	34.800	26.820	15.020	7.530	1.760	6.930
<b>140.0</b>	93.790	99.280	84.870	56.900	33.160	25.630	14.390	7.180	1.910	6.780
<b>142.5</b>	88.550	94.140	79.970	53.600	31.450	24.360	13.700	6.990	1.920	6.470
<b>145.0</b>	82.980	88.330	75.600	49.870	29.710	23.090	13.050	6.660	1.990	6.260
<b>147.5</b>	76.890	82.010	70.890	46.070	27.890	21.530	12.100	6.020	2.160	6.090
<b>150.0</b>	70.650	75.870	65.850	42.230	25.900	19.890	10.940	5.550	1.740	5.570
<b>152.5</b>	64.280	69.600	60.460	38.290	23.220	17.950	10.360	4.990	1.740	4.970
<b>155.0</b>	56.360	58.890	54.670	33.740	21.460	16.600	9.100	4.250	1.510	4.380
<b>157.5</b>	51.950	56.350	47.360	30.360	19.490	14.720	8.160	3.800	1.090	3.780
<b>160.0</b>	45.440	49.320	43.830	26.030	16.830	12.630	6.980	2.990	0.820	3.330
<b>162.5</b>	38.850	42.280	37.630	21.480	14.000	10.770	5.990	2.380	0.670	2.710
<b>165.0</b>	32.470	35.570	31.250	16.750	11.610	8.970	4.550	1.760	0.650	1.760
<b>167.5</b>	25.860	28.460	25.230	12.530	9.290	6.740	3.080	1.090	0.740	1.320
<b>170.0</b>	20.340	22.330	19.160	8.530	6.570	4.720	1.610	0.800	0.620	1.090
<b>172.5</b>	12.710	14.440	9.690	5.070	3.750	2.410	0.840	0.670	0.550	0.820
<b>175.0</b>	5.470	6.490	4.850	2.440	1.570	1.020	0.500	0.770	0.740	0.900
<b>177.5</b>	1.000	1.860	1.670	0.870	0.540	0.590	0.720	0.750	0.740	0.750
<b>180.0</b>	0.829	0.829	0.829	0.829	0.829	0.829	0.829	0.829	0.829	0.829

**Vert. Angles**      **Horizontal Angles**

	<u><b>225.0</b></u>	<u><b>247.5</b></u>	<u><b>270.0</b></u>	<u><b>292.5</b></u>	<u><b>315.0</b></u>	<u><b>337.5</b></u>	<u><b>360.0</b></u>
<b>0.0</b>	9.950	9.950	9.950	9.950	9.950	9.950	9.950
<b>2.5</b>	9.320	9.750	10.740	11.410	12.730	11.930	12.550
<b>5.0</b>	9.570	10.940	12.110	13.890	16.630	15.880	16.800
<b>7.5</b>	10.100	12.110	13.500	16.660	20.910	20.640	21.800
<b>10.0</b>	10.690	12.950	15.240	19.840	25.460	25.910	27.000
<b>12.5</b>	11.230	13.970	17.000	22.820	30.310	31.470	32.470
<b>15.0</b>	11.900	15.170	18.820	26.030	34.800	37.010	37.890
<b>17.5</b>	12.410	16.600	20.560	29.280	39.450	42.680	43.350
<b>20.0</b>	13.020	17.870	22.490	32.360	44.430	48.500	48.900
<b>22.5</b>	13.750	19.190	24.230	35.530	48.850	54.260	54.560
<b>25.0</b>	14.350	20.440	25.980	38.750	53.490	59.840	59.980
<b>27.5</b>	14.890	21.730	27.700	41.810	58.020	65.380	65.260
<b>30.0</b>	15.480	23.020	29.440	44.870	62.340	70.680	70.380
<b>32.5</b>	16.080	24.310	31.130	47.860	66.600	75.570	75.030
<b>35.0</b>	16.680	25.530	32.710	50.760	70.680	80.470	80.070
<b>37.5</b>	17.050	26.430	34.400	53.690	74.650	85.390	84.720
<b>40.0</b>	17.800	27.770	36.000	56.600	78.710	90.330	89.640
<b>42.5</b>	18.170	28.980	37.590	59.740	83.100	95.360	94.570
<b>45.0</b>	18.690	30.160	39.230	62.790	87.110	100.300	99.480
<b>47.5</b>	19.360	31.440	40.570	65.730	91.040	104.900	103.960
<b>50.0</b>	19.740	32.470	41.930	68.630	94.690	109.350	108.230
<b>52.5</b>	20.260	33.510	43.230	71.270	98.210	113.600	112.430
<b>55.0</b>	20.710	34.510	44.350	73.880	101.630	117.810	116.490
<b>57.5</b>	21.000	35.450	45.410	76.370	104.730	121.760	120.320
<b>60.0</b>	21.300	36.300	46.170	78.560	107.420	125.140	123.680
<b>62.5</b>	21.510	36.970	46.860	80.350	109.720	127.950	126.580
<b>65.0</b>	21.750	37.510	47.410	82.090	111.810	130.590	129.090
<b>67.5</b>	21.820	37.990	47.780	83.450	113.730	132.820	131.330
<b>70.0</b>	22.030	38.480	48.300	84.650	115.520	135.130	133.420
<b>72.5</b>	22.350	38.910	48.820	85.990	117.330	137.200	135.860
<b>75.0</b>	22.650	39.370	49.420	87.110	119.030	139.330	138.040
<b>77.5</b>	22.940	39.880	50.440	88.450	120.820	141.520	140.280
<b>80.0</b>	23.320	40.540	51.310	89.440	122.780	143.840	142.320

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : CLD-7566W.IES**

**CANDELA TABULATION - (Cont.)**

<b>82.5</b>	23.470	41.040	51.960	90.280	124.200	145.750	144.060
<b>85.0</b>	23.610	41.370	52.300	90.810	125.220	147.240	145.580
<b>87.5</b>	23.460	41.540	52.380	90.890	125.830	148.210	146.500
<b>90.0</b>	23.670	41.460	52.420	90.680	126.190	148.610	146.920
<b>92.5</b>	23.520	41.270	52.210	90.160	125.810	148.480	146.670
<b>95.0</b>	23.370	41.060	52.210	89.410	125.240	147.910	145.750
<b>97.5</b>	23.200	40.770	51.850	88.450	124.370	146.970	144.660
<b>100.0</b>	22.970	40.290	51.280	87.330	123.380	145.890	143.410
<b>102.5</b>	22.570	39.700	50.660	86.060	121.890	144.580	142.150
<b>105.0</b>	22.000	39.030	50.120	84.640	120.520	142.890	140.600
<b>107.5</b>	21.650	38.260	49.270	83.220	119.000	141.070	138.510
<b>110.0</b>	21.250	37.790	48.580	81.730	117.010	138.760	136.100
<b>112.5</b>	20.860	37.040	47.550	79.940	114.670	136.010	133.440
<b>115.0</b>	20.280	36.240	46.660	78.450	113.110	133.190	130.530
<b>117.5</b>	19.830	35.230	45.610	76.640	112.020	130.290	127.400
<b>120.0</b>	19.310	34.430	44.570	75.080	110.620	127.520	124.240
<b>122.5</b>	18.870	33.610	43.450	73.440	108.930	125.590	121.790
<b>125.0</b>	18.400	32.720	42.610	71.640	105.730	123.270	119.800
<b>127.5</b>	17.950	31.720	41.640	69.150	101.740	120.310	117.060
<b>130.0</b>	17.400	30.500	40.320	66.320	97.370	116.560	113.880
<b>132.5</b>	16.830	29.460	38.950	63.460	93.270	111.660	109.820
<b>135.0</b>	16.090	28.390	37.440	60.630	89.220	106.220	104.660
<b>137.5</b>	15.560	27.190	35.720	57.790	84.990	100.870	99.290
<b>140.0</b>	15.010	26.030	34.180	54.870	79.940	95.710	94.140
<b>142.5</b>	14.370	24.710	32.440	53.940	75.070	90.490	88.920
<b>145.0</b>	13.690	23.360	30.820	51.260	70.380	84.690	83.770
<b>147.5</b>	12.580	22.180	29.090	47.510	65.210	78.530	77.580
<b>150.0</b>	11.960	20.260	27.350	43.700	59.960	72.490	71.520
<b>152.5</b>	10.960	19.090	24.810	40.250	55.110	65.770	65.560
<b>155.0</b>	9.800	17.300	23.200	35.630	48.020	59.010	57.470
<b>157.5</b>	8.730	15.410	21.010	32.810	44.120	53.520	53.070
<b>160.0</b>	7.650	13.400	18.450	28.730	38.410	47.260	46.490
<b>162.5</b>	6.710	11.530	15.930	24.360	32.710	40.850	40.150
<b>165.0</b>	5.300	9.820	13.320	19.840	27.140	33.950	33.790
<b>167.5</b>	4.080	8.030	10.460	15.490	21.700	27.770	27.090
<b>170.0</b>	2.540	5.960	8.380	11.680	14.910	22.070	21.630
<b>172.5</b>	1.410	3.560	5.700	8.280	8.200	13.970	14.040
<b>175.0</b>	1.190	1.640	2.890	5.220	3.970	6.790	6.780
<b>177.5</b>	1.140	1.150	1.290	2.630	1.790	2.260	1.410
<b>180.0</b>	0.829	0.829	0.829	0.829	0.829	0.829	0.829

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : CLD-7566W.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	7.91	N.A.	1.10
0-30	23.14	N.A.	3.30
0-40	49.50	N.A.	7.10
0-60	141.02	N.A.	20.20
0-80	275.33	N.A.	39.50
0-90	351.64	N.A.	50.50
10-90	350.26	N.A.	50.30
20-40	41.59	N.A.	6.00
20-50	80.81	N.A.	11.60
40-70	154.66	N.A.	22.20
60-80	134.32	N.A.	19.30
70-80	71.17	N.A.	10.20
80-90	76.31	N.A.	11.00
90-110	146.97	N.A.	21.10
90-120	209.43	N.A.	30.10
90-130	261.55	N.A.	37.60
90-150	326.14	N.A.	46.80
90-180	344.85	N.A.	49.50
110-180	197.88	N.A.	28.40
0-180	696.49	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	1.38
10-20	6.53
20-30	15.23
30-40	26.36
40-50	39.21
50-60	52.30
60-70	63.15
70-80	71.17
80-90	76.31
90-100	76.03
100-110	70.94
110-120	62.46
120-130	52.13
130-140	38.97
140-150	25.62
150-160	13.49
160-170	4.73
170-180	0.49

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : CLD-7566W.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	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	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

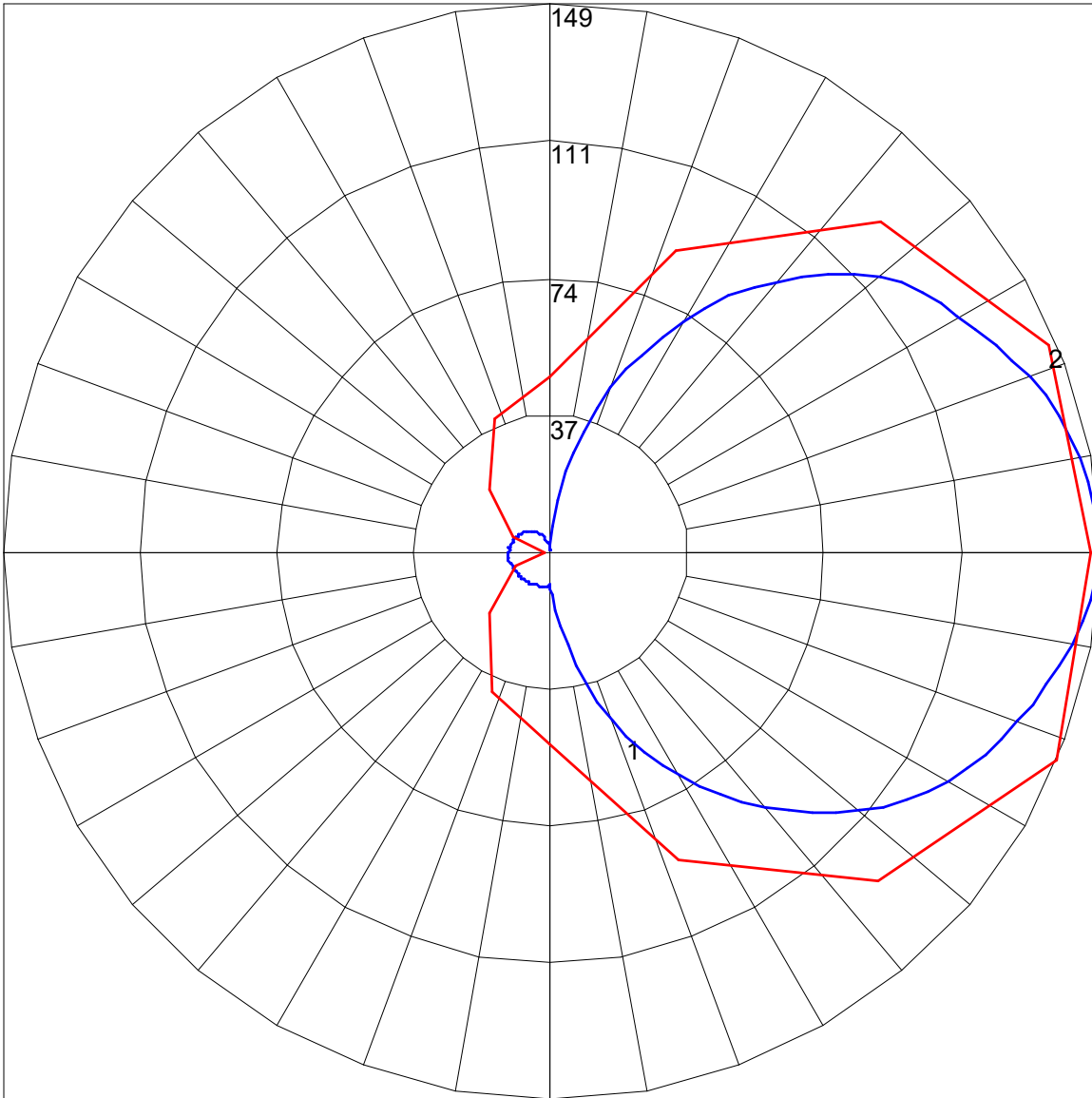
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : CLD-7566W.IES**

**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	10.8	11.9	11.7	12.8	14.1	4.1	5.2	5.0	6.1	7.4
	3H	14.1	15.0	15.0	16.0	17.3	6.6	7.5	7.5	8.5	9.8
	4H	15.7	16.6	16.6	17.6	18.8	7.7	8.7	8.7	9.6	10.9
	6H	17.2	18.1	18.2	19.1	20.4	8.9	9.8	9.8	10.7	12.0
	8H	18.0	18.9	19.0	19.9	21.1	9.4	10.3	10.4	11.3	12.5
	12H	18.8	19.6	19.7	20.6	21.9	9.9	10.8	10.9	11.7	13.0
4H	2H	11.2	12.2	12.2	13.1	14.4	5.9	6.8	6.8	7.8	9.0
	3H	14.7	15.5	15.7	16.5	17.8	8.5	9.3	9.4	10.3	11.5
	4H	16.5	17.3	17.5	18.3	19.6	9.7	10.5	10.7	11.5	12.8
	6H	18.3	19.0	19.3	20.0	21.3	11.0	11.6	11.9	12.6	13.9
	8H	19.2	19.8	20.2	20.8	22.2	11.5	12.2	12.5	13.2	14.5
	12H	20.1	20.7	21.1	21.7	23.0	12.1	12.7	13.1	13.7	15.0
8H	4H	16.8	17.4	17.7	18.4	19.7	10.9	11.6	11.9	12.6	13.9
	6H	18.8	19.4	19.8	20.4	21.7	12.4	12.9	13.4	14.0	15.3
	8H	19.9	20.4	20.9	21.4	22.7	13.1	13.6	14.1	14.6	16.0
	12H	20.9	21.4	21.9	22.4	23.8	13.8	14.2	14.8	15.3	16.6
12H	4H	16.8	17.4	17.8	18.4	19.7	11.3	11.9	12.3	12.9	14.2
	6H	18.9	19.4	19.9	20.4	21.8	12.9	13.4	13.9	14.4	15.8
	8H	20.0	20.5	21.0	21.5	22.9	13.7	14.1	14.7	15.2	16.5

Maximum UGR = 23.8

POLAR GRAPH



Maximum Candela = 148.61 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.)