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**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : CLD-7565W.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-7564W-MBLK  
[\_TOTALLUMINAIRELUMENS] 478.9

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	479
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	20
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	854	701	543
55	895	728	563
65	918	743	571
75	943	760	581
85	987	789	601

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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>
<b>0.0</b>	6.84	6.84	6.84	6.84	6.84	6.84	6.84	6.84	6.84	6.84
<b>2.5</b>	9.20	9.63	9.13	8.06	7.27	6.67	6.82	6.20	6.28	6.11
<b>5.0</b>	12.22	12.71	11.86	9.92	8.23	7.27	7.29	6.41	6.22	6.15
<b>7.5</b>	15.65	16.24	14.90	11.98	9.18	8.04	7.59	6.51	6.15	6.23
<b>10.0</b>	19.52	19.92	18.00	14.19	10.38	8.90	8.05	6.60	6.09	6.42
<b>12.5</b>	23.20	23.59	21.30	16.50	11.58	9.81	8.52	6.66	6.00	6.44
<b>15.0</b>	26.88	27.32	24.46	18.81	12.80	10.74	9.03	6.70	5.86	6.58
<b>17.5</b>	30.85	31.18	27.75	21.13	14.04	11.73	9.38	6.70	5.75	6.60
<b>20.0</b>	34.78	35.14	31.22	23.54	15.34	12.67	9.90	6.72	5.50	6.59
<b>22.5</b>	38.63	39.10	34.60	25.96	16.58	13.66	10.47	6.81	5.38	6.57
<b>25.0</b>	42.40	42.87	37.96	28.42	17.78	14.64	10.78	6.91	5.14	6.62
<b>27.5</b>	46.08	46.52	41.17	30.58	19.01	15.56	11.19	7.00	5.00	6.69
<b>30.0</b>	49.61	50.06	44.04	32.82	20.14	16.46	11.66	7.06	4.66	6.75
<b>32.5</b>	52.85	53.49	47.08	34.87	21.15	17.25	11.86	7.07	4.43	6.66
<b>35.0</b>	56.11	56.82	49.81	36.87	22.17	18.03	12.17	7.11	4.20	6.70
<b>37.5</b>	59.48	60.33	52.67	38.84	23.24	18.85	12.48	7.11	3.98	6.69
<b>40.0</b>	62.86	63.85	55.56	41.03	24.21	19.61	12.74	7.12	3.60	6.76
<b>42.5</b>	66.21	67.46	58.48	42.99	25.27	20.45	12.87	7.16	3.40	6.70
<b>45.0</b>	69.46	70.93	61.36	45.02	26.29	21.25	13.25	7.18	3.14	6.69
<b>47.5</b>	72.55	74.22	63.94	46.82	27.20	21.99	13.56	7.27	3.00	6.72
<b>50.0</b>	75.42	77.28	66.40	48.55	28.07	22.59	13.87	7.27	2.74	6.70
<b>52.5</b>	78.40	80.57	68.82	50.14	28.90	23.29	14.17	7.42	2.53	6.75
<b>55.0</b>	81.14	83.71	71.18	51.70	29.56	23.95	14.43	7.43	2.36	6.72
<b>57.5</b>	83.56	86.50	73.31	53.10	30.27	24.45	14.73	7.45	2.12	6.75
<b>60.0</b>	85.73	88.96	75.16	54.25	30.75	24.89	14.94	7.42	1.93	6.76
<b>62.5</b>	87.54	91.03	76.66	55.28	31.13	25.18	15.04	7.47	1.84	6.75
<b>65.0</b>	89.24	92.84	78.11	56.02	31.43	25.38	15.20	7.49	1.79	6.84
<b>67.5</b>	90.74	94.56	79.19	56.67	31.60	25.55	15.31	7.60	1.75	6.80
<b>70.0</b>	92.22	96.34	80.42	57.45	31.79	25.67	15.46	7.68	1.63	6.91
<b>72.5</b>	93.61	97.46	81.70	58.13	32.19	25.92	15.71	7.80	1.60	6.96
<b>75.0</b>	95.05	97.12	83.03	58.83	32.44	26.21	16.02	7.93	1.61	7.00
<b>77.5</b>	96.53	97.99	84.11	59.56	32.67	26.58	16.27	8.03	1.53	7.11
<b>80.0</b>	97.98	99.06	85.30	60.10	32.94	26.74	16.38	7.97	1.43	7.16
<b>82.5</b>	99.21	100.03	86.11	60.44	33.06	26.92	16.42	7.93	1.24	7.06
<b>85.0</b>	100.04	100.67	86.84	60.82	33.06	27.07	16.42	7.82	1.00	7.01
<b>87.5</b>	100.54	101.07	87.34	60.87	33.02	26.97	16.38	7.85	0.98	6.96
<b>90.0</b>	100.65	100.84	87.30	60.69	32.83	26.88	16.27	7.83	0.98	7.01
<b>92.5</b>	100.50	100.57	87.03	60.48	32.82	26.83	16.11	7.73	1.00	7.01
<b>95.0</b>	100.08	99.82	86.68	60.21	32.72	26.70	16.17	7.84	1.13	7.15
<b>97.5</b>	99.31	99.22	86.05	59.74	32.54	26.47	15.95	7.73	1.09	6.97
<b>100.0</b>	98.38	98.28	85.49	59.33	32.31	26.21	15.80	7.57	1.02	6.82
<b>102.5</b>	97.40	97.46	84.77	58.90	32.02	25.93	15.49	7.42	0.87	6.72
<b>105.0</b>	96.38	96.25	83.83	58.43	31.74	25.66	15.27	7.21	0.86	6.55
<b>107.5</b>	95.08	95.20	82.75	57.72	31.42	25.35	14.98	7.21	0.89	6.45
<b>110.0</b>	93.48	93.90	81.41	57.05	31.11	24.99	14.71	7.28	0.93	6.30
<b>112.5</b>	91.63	92.40	80.14	56.34	30.61	24.63	14.35	7.16	0.91	6.14
<b>115.0</b>	89.53	90.77	79.49	55.49	30.14	24.23	14.01	6.90	0.85	6.05
<b>117.5</b>	87.46	89.01	78.92	54.59	29.67	23.76	13.63	6.76	0.83	5.89
<b>120.0</b>	85.33	87.48	78.13	53.76	29.21	23.25	13.43	6.58	0.89	5.74
<b>122.5</b>	83.90	86.61	77.02	52.77	28.68	22.79	12.91	6.41	0.91	5.64
<b>125.0</b>	82.65	85.59	74.82	51.51	28.28	22.18	12.55	6.20	1.01	5.47
<b>127.5</b>	80.78	84.01	71.97	49.88	27.72	21.56	12.14	5.99	0.95	5.37
<b>130.0</b>	78.30	81.68	68.89	47.85	26.97	20.90	11.71	5.68	1.02	5.22
<b>132.5</b>	75.32	78.76	65.95	45.61	26.00	20.12	11.32	5.50	1.02	5.06

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**CANDELA TABULATION - (Cont.)**

135.0	71.76	75.12	63.13	43.46	25.00	19.26	10.84	5.38	1.06	4.91
137.5	68.19	71.62	60.02	41.34	23.92	18.43	10.33	5.18	1.21	4.76
140.0	64.47	68.24	58.34	39.11	22.79	17.62	9.89	4.93	1.31	4.66
142.5	60.87	64.71	54.97	36.85	21.62	16.74	9.42	4.81	1.32	4.45
145.0	57.04	60.72	51.97	34.28	20.42	15.87	8.97	4.58	1.37	4.30
147.5	52.85	56.37	48.73	31.67	19.17	14.80	8.31	4.14	1.48	4.19
150.0	48.56	52.15	45.26	29.03	17.80	13.67	7.52	3.82	1.20	3.83
152.5	44.18	47.84	41.56	26.32	15.96	12.34	7.12	3.43	1.20	3.42
155.0	38.74	40.48	37.58	23.20	14.75	11.41	6.26	2.92	1.03	3.01
157.5	35.71	38.73	32.56	20.87	13.40	10.12	5.61	2.61	0.75	2.60
160.0	31.23	33.90	30.13	17.89	11.57	8.68	4.80	2.06	0.56	2.29
162.5	26.70	29.06	25.86	14.77	9.63	7.41	4.12	1.63	0.46	1.86
165.0	22.32	24.45	21.48	11.51	7.98	6.16	3.13	1.21	0.45	1.21
167.5	17.78	19.56	17.34	8.61	6.38	4.63	2.12	0.75	0.51	0.91
170.0	13.98	15.35	13.17	5.86	4.52	3.24	1.10	0.55	0.43	0.75
172.5	8.74	9.92	6.66	3.48	2.58	1.66	0.57	0.46	0.38	0.56
175.0	3.76	4.46	3.34	1.68	1.08	0.70	0.34	0.53	0.51	0.62
177.5	0.69	1.28	1.15	0.60	0.37	0.40	0.49	0.52	0.51	0.52
180.0	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57

**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	6.84	6.84	6.84	6.84	6.84	6.84	6.84
2.5	6.41	6.70	7.38	7.84	8.75	8.20	8.62
5.0	6.58	7.52	8.33	9.55	11.43	10.91	11.55
7.5	6.95	8.33	9.28	11.45	14.38	14.19	14.98
10.0	7.35	8.90	10.48	13.64	17.50	17.81	18.56
12.5	7.72	9.60	11.68	15.69	20.84	21.63	22.32
15.0	8.18	10.43	12.94	17.89	23.92	25.44	26.05
17.5	8.53	11.41	14.13	20.12	27.12	29.34	29.80
20.0	8.95	12.28	15.46	22.24	30.54	33.34	33.61
22.5	9.45	13.19	16.65	24.43	33.58	37.29	37.50
25.0	9.87	14.05	17.86	26.63	36.77	41.14	41.23
27.5	10.23	14.94	19.04	28.74	39.88	44.94	44.86
30.0	10.64	15.82	20.24	30.84	42.85	48.59	48.38
32.5	11.05	16.71	21.40	32.90	45.78	51.95	51.58
35.0	11.47	17.55	22.48	34.89	48.59	55.31	55.04
37.5	11.72	18.17	23.64	36.90	51.31	58.70	58.24
40.0	12.24	19.09	24.75	38.90	54.11	62.09	61.62
42.5	12.49	19.92	25.84	41.07	57.12	65.55	65.01
45.0	12.85	20.73	26.97	43.16	59.88	68.94	68.38
47.5	13.31	21.61	27.89	45.18	62.58	72.11	71.46
50.0	13.57	22.32	28.82	47.17	65.09	75.16	74.39
52.5	13.93	23.03	29.72	48.99	67.50	78.08	77.28
55.0	14.24	23.72	30.49	50.78	69.86	80.98	80.07
57.5	14.43	24.37	31.21	52.50	71.99	83.70	82.71
60.0	14.64	24.95	31.74	54.00	73.84	86.02	85.02
62.5	14.79	25.42	32.21	55.23	75.42	87.95	87.01
65.0	14.95	25.78	32.59	56.43	76.85	89.77	88.73
67.5	15.00	26.12	32.84	57.36	78.18	91.30	90.28
70.0	15.15	26.45	33.20	58.19	79.41	92.89	91.71
72.5	15.36	26.75	33.56	59.11	80.65	94.31	93.39
75.0	15.57	27.06	33.97	59.88	81.82	95.77	94.89
77.5	15.77	27.42	34.67	60.80	83.05	97.28	96.43
80.0	16.03	27.86	35.27	61.48	84.40	98.88	97.83

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**CANDELA TABULATION - (Cont.)**

<b>82.5</b>	16.13	28.21	35.72	62.05	85.38	100.19	99.03
<b>85.0</b>	16.23	28.44	35.95	62.42	86.08	101.21	100.07
<b>87.5</b>	16.12	28.55	36.01	62.48	86.49	101.88	100.71
<b>90.0</b>	16.27	28.50	36.03	62.33	86.74	102.15	100.99
<b>92.5</b>	16.17	28.37	35.89	61.97	86.48	102.06	100.82
<b>95.0</b>	16.07	28.22	35.89	61.46	86.09	101.67	100.19
<b>97.5</b>	15.95	28.03	35.64	60.80	85.49	101.03	99.44
<b>100.0</b>	15.79	27.69	35.25	60.03	84.81	100.28	98.58
<b>102.5</b>	15.51	27.29	34.82	59.16	83.79	99.38	97.72
<b>105.0</b>	15.12	26.83	34.45	58.18	82.85	98.22	96.65
<b>107.5</b>	14.88	26.30	33.87	57.20	81.80	96.97	95.21
<b>110.0</b>	14.60	25.98	33.40	56.18	80.43	95.38	93.55
<b>112.5</b>	14.34	25.46	32.68	54.95	78.82	93.50	91.72
<b>115.0</b>	13.94	24.91	32.07	53.92	77.75	91.55	89.72
<b>117.5</b>	13.63	24.22	31.35	52.68	77.00	89.56	87.57
<b>120.0</b>	13.27	23.67	30.64	51.61	76.04	87.65	85.40
<b>122.5</b>	12.97	23.10	29.87	50.49	74.88	86.33	83.72
<b>125.0</b>	12.65	22.49	29.29	49.24	72.68	84.73	82.35
<b>127.5</b>	12.34	21.80	28.62	47.53	69.93	82.70	80.47
<b>130.0</b>	11.96	20.96	27.72	45.59	66.93	80.12	78.28
<b>132.5</b>	11.57	20.25	26.77	43.62	64.11	76.75	75.49
<b>135.0</b>	11.06	19.52	25.74	41.68	61.33	73.01	71.94
<b>137.5</b>	10.69	18.69	24.55	39.72	58.42	69.33	68.25
<b>140.0</b>	10.32	17.89	23.49	37.72	54.95	65.79	64.71
<b>142.5</b>	9.88	16.99	22.30	37.08	51.60	62.20	61.12
<b>145.0</b>	9.41	16.05	21.18	35.24	48.38	58.21	57.58
<b>147.5</b>	8.65	15.25	20.00	32.66	44.83	53.98	53.33
<b>150.0</b>	8.22	13.93	18.80	30.04	41.22	49.83	49.16
<b>152.5</b>	7.53	13.12	17.05	27.67	37.88	45.21	45.07
<b>155.0</b>	6.74	11.89	15.95	24.50	33.01	40.56	39.50
<b>157.5</b>	6.00	10.59	14.44	22.55	30.33	36.79	36.48
<b>160.0</b>	5.26	9.21	12.68	19.75	26.40	32.49	31.96
<b>162.5</b>	4.61	7.92	10.95	16.74	22.48	28.08	27.60
<b>165.0</b>	3.65	6.75	9.15	13.64	18.65	23.33	23.23
<b>167.5</b>	2.81	5.52	7.19	10.65	14.92	19.09	18.62
<b>170.0</b>	1.75	4.09	5.76	8.03	10.25	15.17	14.87
<b>172.5</b>	0.97	2.45	3.92	5.69	5.64	9.60	9.65
<b>175.0</b>	0.82	1.13	1.99	3.59	2.73	4.67	4.66
<b>177.5</b>	0.78	0.79	0.89	1.81	1.23	1.55	0.97
<b>180.0</b>	0.57	0.57	0.57	0.57	0.57	0.57	0.57

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	5.44	N.A.	1.10
0-30	15.91	N.A.	3.30
0-40	34.03	N.A.	7.10
0-60	96.93	N.A.	20.20
0-80	189.26	N.A.	39.50
0-90	241.72	N.A.	50.50
10-90	240.77	N.A.	50.30
20-40	28.59	N.A.	6.00
20-50	55.55	N.A.	11.60
40-70	106.31	N.A.	22.20
60-80	92.33	N.A.	19.30
70-80	48.92	N.A.	10.20
80-90	52.46	N.A.	11.00
90-110	101.02	N.A.	21.10
90-120	143.96	N.A.	30.10
90-130	179.79	N.A.	37.60
90-150	224.18	N.A.	46.80
90-180	237.04	N.A.	49.50
110-180	136.02	N.A.	28.40
0-180	478.76	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	0.95
10-20	4.49
20-30	10.47
30-40	18.12
40-50	26.96
50-60	35.95
60-70	43.41
70-80	48.92
80-90	52.46
90-100	52.26
100-110	48.76
110-120	42.93
120-130	35.83
130-140	26.79
140-150	17.61
150-160	9.27
160-170	3.25
170-180	0.34

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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

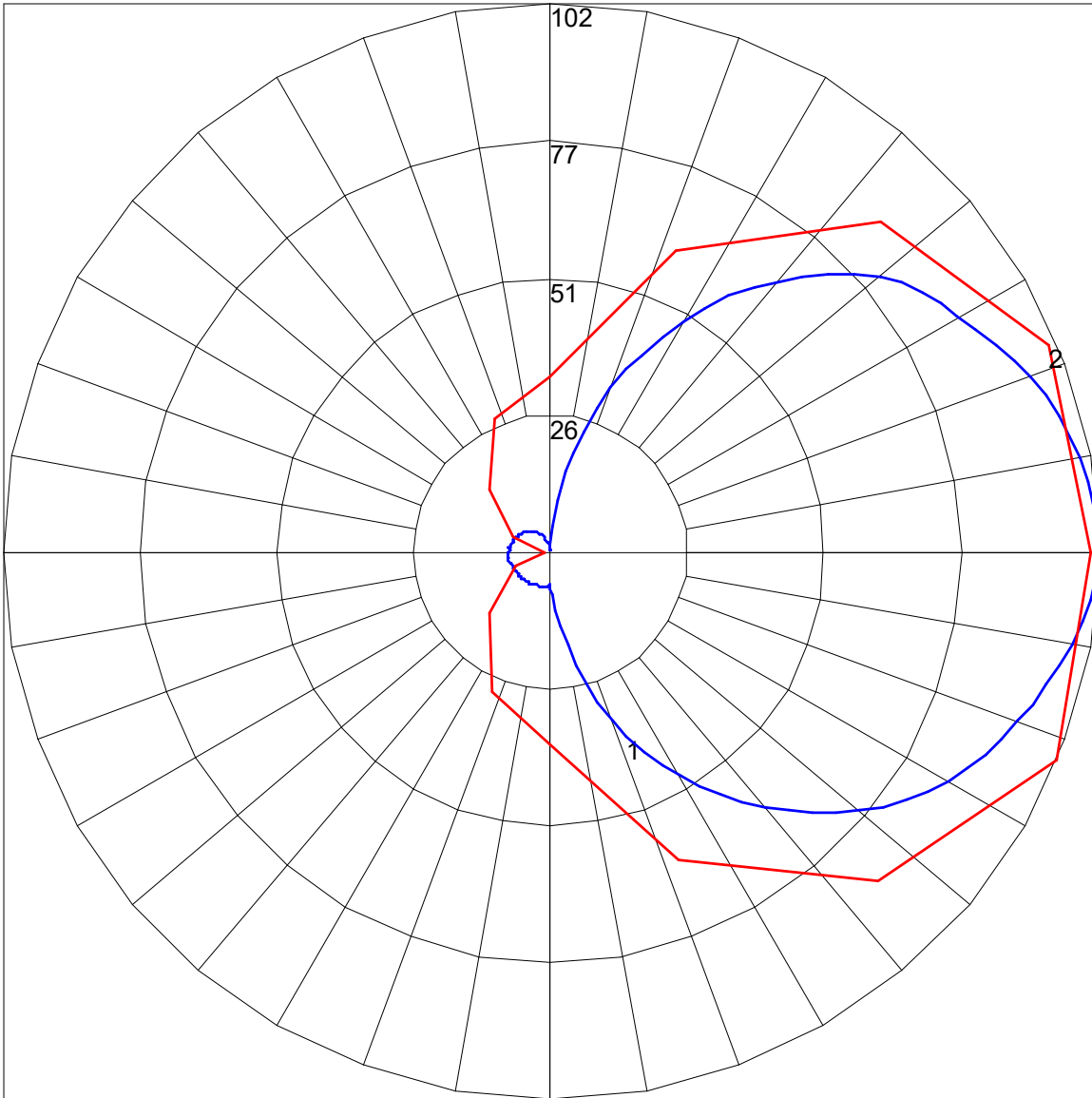
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : CLD-7565W.IES**

**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	11.2	12.2	12.1	13.2	14.4	4.8	5.9	5.7	6.8	8.1
	3H	14.4	15.3	15.3	16.3	17.6	7.3	8.3	8.2	9.2	10.5
	4H	15.9	16.9	16.9	17.8	19.1	8.5	9.4	9.4	10.4	11.6
	6H	17.5	18.4	18.4	19.3	20.6	9.6	10.5	10.6	11.5	12.8
	8H	18.3	19.1	19.2	20.1	21.4	10.2	11.0	11.1	12.0	13.3
	12H	19.0	19.8	20.0	20.8	22.1	10.7	11.5	11.7	12.5	13.8
4H	2H	11.6	12.5	12.5	13.5	14.8	6.5	7.4	7.4	8.4	9.7
	3H	15.1	15.9	16.0	16.9	18.2	9.1	9.9	10.1	10.9	12.2
	4H	16.8	17.6	17.8	18.6	19.9	10.4	11.2	11.4	12.2	13.5
	6H	18.6	19.3	19.6	20.3	21.6	11.7	12.3	12.6	13.4	14.7
	8H	19.5	20.1	20.4	21.1	22.5	12.2	12.9	13.2	13.9	15.2
	12H	20.4	20.9	21.3	22.0	23.3	12.8	13.4	13.8	14.4	15.8
8H	4H	17.1	17.8	18.1	18.8	20.1	11.6	12.2	12.5	13.2	14.5
	6H	19.1	19.7	20.1	20.7	22.1	13.1	13.6	14.1	14.7	16.0
	8H	20.2	20.7	21.2	21.7	23.0	13.8	14.3	14.8	15.3	16.7
	12H	21.3	21.7	22.3	22.7	24.1	14.5	14.9	15.5	16.0	17.3
12H	4H	17.2	17.8	18.1	18.8	20.1	11.9	12.5	12.9	13.5	14.8
	6H	19.2	19.7	20.2	20.8	22.1	13.5	14.0	14.5	15.1	16.4
	8H	20.3	20.8	21.4	21.8	23.2	14.4	14.8	15.4	15.8	17.2

Maximum UGR = 24.1

POLAR GRAPH



Maximum Candela = 102.15 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.)