

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MWL201.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GLLED
[TESTLAB] Intertek
[MANUFAC] Garden Light LED
[ISSUEDATE] 4/13/2026
[LUMINAIRE] MWL201
[LUMCAT] WELL LIGHT MINI

CHARACTERISTICS

Lumens Per Lamp	250 (1 lamp)
Total Lamp Lumens	250
Luminaire Lumens	163
Total Luminaire Efficiency	65 %
Luminaire Efficacy Rating (LER)	63
Total Luminaire Watts	2.57
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.28
Spacing Criterion (90-270)	0.28
Spacing Criterion (Diagonal)	0.30
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.02 m (Diameter)
Luminous Width (90-270)	0.02 m (Diameter)
Luminous Height	0.00 m



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	20154	20154	20531
55	7686	8547	8150
65	1798	2967	2338
75	0	0	0
85	0	0	0

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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	1142.65	1142.65	1142.65	1142.65	1142.65	1142.65	1142.65	1142.65	1142.65	1142.65
2.5	1102.97	1102.19	1101.74	1099.28	1099.08	1099.28	1101.74	1102.19	1102.97	1102.19
5.0	870.40	876.29	879.27	876.68	879.14	876.68	879.27	876.29	870.40	876.29
7.5	608.14	612.67	615.07	612.28	617.78	612.28	615.07	612.67	608.14	612.67
10.0	403.92	406.51	407.80	402.62	408.45	402.62	407.80	406.51	403.92	406.51
12.5	273.52	273.46	272.36	269.77	274.24	269.77	272.36	273.46	273.52	273.46
15.0	193.48	191.60	189.21	189.66	193.16	189.66	189.21	191.60	193.48	191.60
17.5	141.39	137.57	135.24	136.73	140.74	136.73	135.24	137.57	141.39	137.57
20.0	103.99	99.65	97.13	99.65	103.47	99.65	97.13	99.65	103.99	99.65
22.5	76.03	71.83	69.89	72.61	75.71	72.61	69.89	71.83	76.03	71.83
25.0	54.94	51.57	49.83	52.41	54.74	52.41	49.83	51.57	54.94	51.57
27.5	39.21	36.62	35.21	37.20	39.02	37.20	35.21	36.62	39.21	36.62
30.0	27.63	25.82	24.59	26.15	27.51	26.15	24.59	25.82	27.63	25.82
32.5	19.61	18.18	17.60	18.63	19.61	18.63	17.60	18.18	19.61	18.18
35.0	13.92	13.07	12.61	13.20	13.59	13.20	12.61	13.07	13.92	13.07
37.5	10.09	9.64	9.26	9.90	9.84	9.90	9.26	9.64	10.09	9.64
40.0	7.31	7.25	7.05	7.45	7.12	7.45	7.05	7.25	7.31	7.25
42.5	5.44	5.31	5.18	5.24	5.18	5.24	5.18	5.31	5.44	5.31
45.0	3.75	3.95	3.75	3.88	3.82	3.88	3.75	3.95	3.75	3.95
47.5	2.72	2.85	2.78	2.97	2.78	2.97	2.78	2.85	2.72	2.85
50.0	1.94	2.14	2.01	2.07	2.07	2.07	2.01	2.14	1.94	2.14
52.5	1.62	1.56	1.62	1.56	1.56	1.56	1.62	1.56	1.62	1.56
55.0	1.16	1.16	1.29	1.23	1.23	1.23	1.29	1.16	1.16	1.16
57.5	0.84	0.91	0.97	0.78	0.91	0.78	0.97	0.91	0.84	0.91
60.0	0.84	0.71	0.65	0.71	0.52	0.71	0.65	0.71	0.84	0.71
62.5	0.33	0.45	0.38	0.52	0.52	0.52	0.38	0.45	0.33	0.45
65.0	0.20	0.13	0.33	0.26	0.26	0.26	0.33	0.13	0.20	0.13
67.5	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.13
70.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
72.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
75.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
77.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
80.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
82.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
85.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
87.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
92.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
97.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
102.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
107.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
112.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
117.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
122.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
127.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
132.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
137.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
142.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
147.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
152.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
157.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
162.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
167.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
172.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
177.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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	1142.65	1142.65	1142.65	1142.65	1142.65	1142.65	1142.65
2.5	1101.74	1099.28	1099.08	1099.28	1101.74	1102.19	1102.97
5.0	879.27	876.68	879.14	876.68	879.27	876.29	870.40
7.5	615.07	612.28	617.78	612.28	615.07	612.67	608.14
10.0	407.80	402.62	408.45	402.62	407.80	406.51	403.92
12.5	272.36	269.77	274.24	269.77	272.36	273.46	273.52
15.0	189.21	189.66	193.16	189.66	189.21	191.60	193.48
17.5	135.24	136.73	140.74	136.73	135.24	137.57	141.39
20.0	97.13	99.65	103.47	99.65	97.13	99.65	103.99
22.5	69.89	72.61	75.71	72.61	69.89	71.83	76.03
25.0	49.83	52.41	54.74	52.41	49.83	51.57	54.94
27.5	35.21	37.20	39.02	37.20	35.21	36.62	39.21
30.0	24.59	26.15	27.51	26.15	24.59	25.82	27.63
32.5	17.60	18.63	19.61	18.63	17.60	18.18	19.61
35.0	12.61	13.20	13.59	13.20	12.61	13.07	13.92
37.5	9.26	9.90	9.84	9.90	9.26	9.64	10.09
40.0	7.05	7.45	7.12	7.45	7.05	7.25	7.31
42.5	5.18	5.24	5.18	5.24	5.18	5.31	5.44
45.0	3.75	3.88	3.82	3.88	3.75	3.95	3.75
47.5	2.78	2.97	2.78	2.97	2.78	2.85	2.72
50.0	2.01	2.07	2.07	2.07	2.01	2.14	1.94
52.5	1.62	1.56	1.56	1.56	1.62	1.56	1.62
55.0	1.29	1.23	1.23	1.23	1.29	1.16	1.16
57.5	0.97	0.78	0.91	0.78	0.97	0.91	0.84
60.0	0.65	0.71	0.52	0.71	0.65	0.71	0.84
62.5	0.38	0.52	0.52	0.52	0.38	0.45	0.33
65.0	0.33	0.26	0.26	0.26	0.33	0.13	0.20
67.5	0.00	0.00	0.00	0.00	0.00	0.13	0.00
70.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
72.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
75.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
77.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
80.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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CANDELA TABULATION - (Cont.)

82.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
85.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
87.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
92.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
97.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
102.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
107.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
112.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
117.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
122.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
127.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
132.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
137.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
142.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
147.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
152.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
157.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
162.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
167.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
172.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
177.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	124.22	49.70	76.40
0-30	149.25	59.70	91.80
0-40	158.13	63.30	97.20
0-60	162.41	65.00	99.80
0-80	162.67	65.10	100.00
0-90	162.67	65.10	100.00
10-90	94.75	37.90	58.20
20-40	33.91	13.60	20.80
20-50	37.06	14.80	22.80
40-70	4.54	1.80	2.80
60-80	0.26	0.10	0.20
70-80	0.00	0.00	0.00
80-90	0.00	0.00	0.00
90-110	0.00	0.00	0.00
90-120	0.00	0.00	0.00
90-130	0.00	0.00	0.00
90-150	0.00	0.00	0.00
90-180	0.00	0.00	0.00
110-180	0.00	0.00	0.00
0-180	162.67	65.10	100.00

Total Luminaire Efficiency = 65.10%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	67.92
10-20	56.30
20-30	25.02
30-40	8.88
40-50	3.16
50-60	1.12
60-70	0.26
70-80	0.00
80-90	0.00
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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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	77	77	77	77	76	76	76	76	72	72	72	69	69	69	66	66	66	65
1	75	73	72	71	73	72	71	70	70	69	68	67	66	66	65	64	64	63
2	72	70	68	66	71	69	67	66	67	66	64	65	64	63	63	62	62	61
3	70	67	65	63	69	66	64	62	65	63	61	63	62	60	62	61	60	59
4	68	64	62	60	67	64	61	60	62	60	59	61	60	58	60	59	58	57
5	66	62	59	57	65	62	59	57	60	58	57	60	58	56	59	57	56	55
6	64	60	57	55	63	60	57	55	59	56	55	58	56	54	57	55	54	53
7	62	58	55	53	62	58	55	53	57	55	53	56	54	53	56	54	53	52
8	61	56	54	52	60	56	54	52	55	53	52	55	53	51	54	53	51	51
9	59	55	52	50	59	55	52	50	54	52	50	54	51	50	53	51	50	49
10	58	53	51	49	57	53	51	49	53	50	49	52	50	49	52	50	49	48

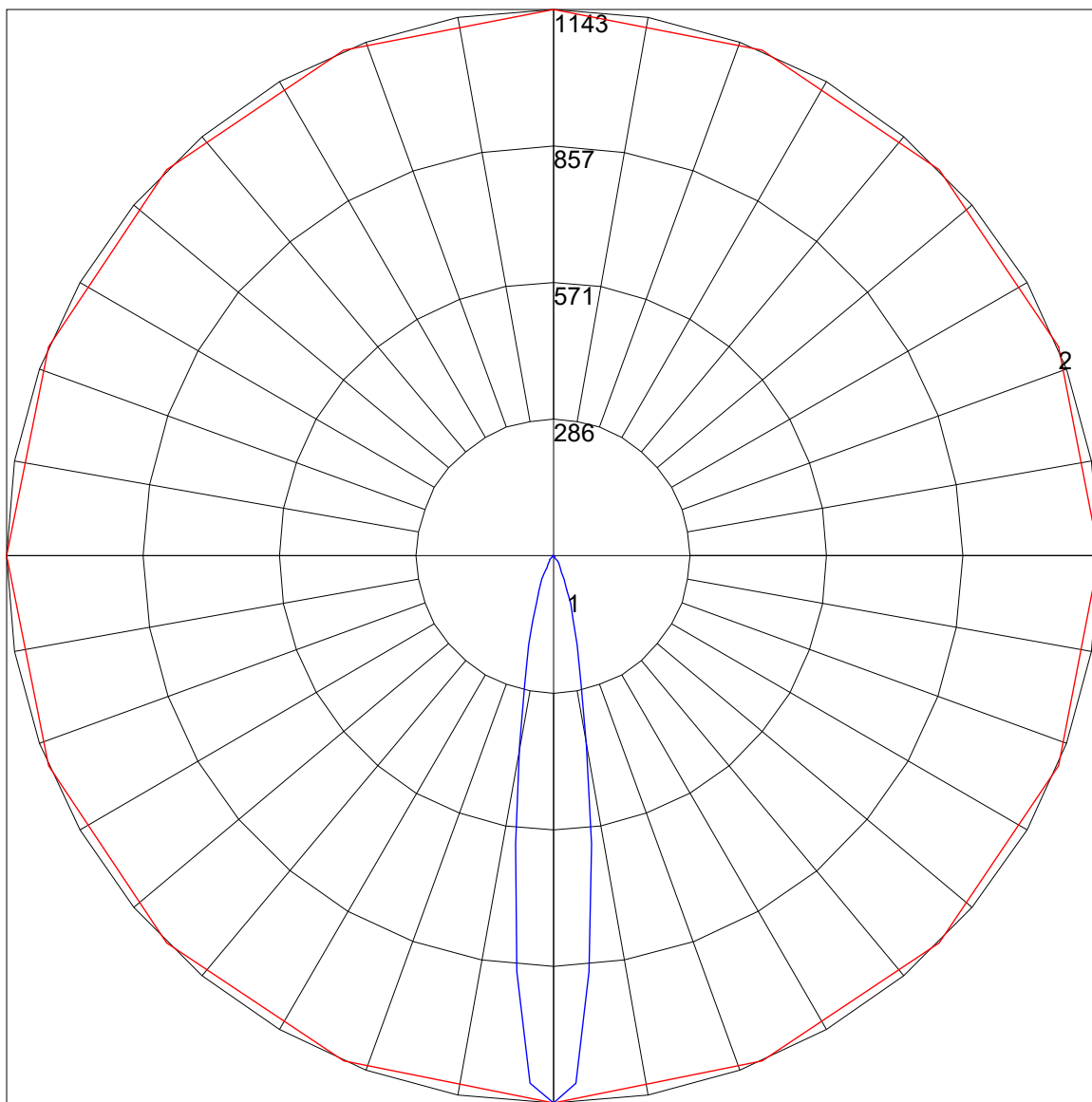
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UGR TABLE - CORRECTED

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	6.8	7.7	7.2	8.0	8.4	6.1	7.0	6.4	7.3	7.6
	3H	6.6	7.4	7.0	7.8	8.1	5.9	6.7	6.3	7.0	7.4
	4H	6.5	7.3	6.9	7.6	8.0	5.8	6.5	6.2	6.8	7.2
	6H	6.4	7.1	6.8	7.4	7.8	5.6	6.3	6.0	6.7	7.1
	8H	6.3	7.0	6.8	7.4	7.8	5.6	6.2	6.0	6.6	7.0
	12H	6.3	6.9	6.7	7.3	7.7	5.5	6.1	5.9	6.5	6.9
4H	2H	6.7	7.5	7.2	7.8	8.2	6.0	6.8	6.5	7.1	7.5
	3H	6.5	7.1	6.9	7.5	7.9	5.8	6.4	6.2	6.8	7.2
	4H	6.4	6.9	6.8	7.3	7.8	5.7	6.2	6.1	6.6	7.1
	6H	6.3	6.7	6.8	7.2	7.7	5.6	6.0	6.0	6.5	6.9
	8H	6.2	6.6	6.7	7.1	7.5	5.5	5.9	5.9	6.4	6.8
	12H	6.1	6.5	6.6	7.0	7.5	5.4	5.8	5.9	6.3	6.7
8H	4H	6.2	6.6	6.7	7.1	7.5	5.5	5.9	5.9	6.4	6.8
	6H	6.0	6.4	6.6	6.9	7.4	5.3	5.7	5.8	6.2	6.7
	8H	6.0	6.3	6.5	6.8	7.3	5.3	5.6	5.8	6.1	6.6
	12H	5.9	6.2	6.5	6.7	7.3	5.2	5.5	5.8	6.0	6.6
12H	4H	6.1	6.5	6.6	7.0	7.5	5.4	5.8	5.9	6.3	6.7
	6H	6.0	6.3	6.5	6.8	7.3	5.3	5.6	5.8	6.0	6.6
	8H	5.9	6.2	6.5	6.7	7.3	5.2	5.5	5.8	6.0	6.6

Maximum UGR = 8.4

POLAR GRAPH



Maximum Candela = 1142.65 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)