

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MWL206.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] Viso - serial: n/a sensor serial: n/a
[TESTLAB] Intertek
[MANUFAC] Garden Light LED
[ISSUE DATE] 4/13/2020
[LUMINAIRE] Mini Well Light Recessed LED
[LUMCAT] N/A

CHARACTERISTICS

Lumens Per Lamp	250 (1 lamp)
Total Lamp Lumens	250
Luminaire Lumens	141
Total Luminaire Efficiency	57 %
Luminaire Efficacy Rating (LER)	55
Total Luminaire Watts	2.57
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.70
Spacing Criterion (90-270)	0.70
Spacing Criterion (Diagonal)	0.68
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	30420	31441	31118
55	15902	15902	16697
65	8813	8813	9352
75	881	881	881
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	256.72	256.72	256.72	256.72	256.72	256.72	256.72	256.72	256.72	256.72
2.5	257.06	256.51	256.32	256.32	256.26	256.32	256.32	256.51	257.06	256.51
5.0	255.95	255.09	254.66	253.92	254.17	253.92	254.66	255.09	255.95	255.09
7.5	252.39	251.22	251.40	249.74	249.31	249.74	251.40	251.22	252.39	251.22
10.0	244.14	243.03	244.45	242.05	240.70	242.05	244.45	243.03	244.14	243.03
12.5	230.98	230.42	233.19	230.17	227.90	230.17	233.19	230.42	230.98	230.42
15.0	209.93	210.67	215.77	211.22	207.47	211.22	215.77	210.67	209.93	210.67
17.5	174.92	176.22	184.52	177.38	173.87	177.38	184.52	176.22	174.92	176.22
20.0	136.47	139.30	149.94	141.45	134.00	141.45	149.94	139.30	136.47	139.30
22.5	103.98	107.49	119.42	110.26	102.45	110.26	119.42	107.49	103.98	107.49
25.0	77.71	80.91	91.86	83.25	76.91	83.25	91.86	80.91	77.71	80.91
27.5	56.85	59.19	68.05	60.85	56.42	60.85	68.05	59.19	56.85	59.19
30.0	40.42	42.27	48.42	43.37	40.36	43.37	48.42	42.27	40.42	42.27
32.5	28.73	29.96	33.84	30.70	28.67	30.70	33.84	29.96	28.73	29.96
35.0	20.18	20.98	23.01	21.35	20.12	21.35	23.01	20.98	20.18	20.98
37.5	14.09	14.46	15.51	14.70	14.09	14.70	15.51	14.46	14.09	14.46
40.0	10.03	10.21	10.71	10.33	10.09	10.33	10.71	10.21	10.03	10.21
42.5	7.45	7.57	7.81	7.63	7.57	7.63	7.81	7.57	7.45	7.57
45.0	5.66	5.79	5.85	5.79	5.79	5.79	5.85	5.79	5.66	5.79
47.5	4.49	4.49	4.49	4.49	4.56	4.49	4.49	4.49	4.49	4.49
50.0	3.63	3.63	3.57	3.63	3.69	3.63	3.57	3.63	3.63	3.63
52.5	2.95	2.95	2.89	2.95	3.01	2.95	2.89	2.95	2.95	2.95
55.0	2.40	2.46	2.40	2.40	2.52	2.40	2.40	2.46	2.40	2.46
57.5	1.97	1.97	1.97	2.03	2.03	2.03	1.97	1.97	1.97	1.97
60.0	1.60	1.60	1.60	1.66	1.66	1.66	1.60	1.60	1.60	1.60
62.5	1.29	1.29	1.29	1.29	1.36	1.29	1.29	1.29	1.29	1.29
65.0	0.98	0.98	0.98	0.98	1.04	0.98	0.98	0.98	0.98	0.98
67.5	0.68	0.68	0.68	0.68	0.74	0.68	0.68	0.68	0.68	0.68
70.0	0.43	0.43	0.43	0.49	0.49	0.49	0.43	0.43	0.43	0.43
72.5	0.25	0.25	0.25	0.25	0.31	0.25	0.25	0.25	0.25	0.25
75.0	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
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. 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	256.72	256.72	256.72	256.72	256.72	256.72	256.72
2.5	256.32	256.32	256.26	256.32	256.32	256.51	257.06
5.0	254.66	253.92	254.17	253.92	254.66	255.09	255.95
7.5	251.40	249.74	249.31	249.74	251.40	251.22	252.39
10.0	244.45	242.05	240.70	242.05	244.45	243.03	244.14
12.5	233.19	230.17	227.90	230.17	233.19	230.42	230.98
15.0	215.77	211.22	207.47	211.22	215.77	210.67	209.93
17.5	184.52	177.38	173.87	177.38	184.52	176.22	174.92
20.0	149.94	141.45	134.00	141.45	149.94	139.30	136.47
22.5	119.42	110.26	102.45	110.26	119.42	107.49	103.98
25.0	91.86	83.25	76.91	83.25	91.86	80.91	77.71
27.5	68.05	60.85	56.42	60.85	68.05	59.19	56.85
30.0	48.42	43.37	40.36	43.37	48.42	42.27	40.42
32.5	33.84	30.70	28.67	30.70	33.84	29.96	28.73
35.0	23.01	21.35	20.12	21.35	23.01	20.98	20.18
37.5	15.51	14.70	14.09	14.70	15.51	14.46	14.09
40.0	10.71	10.33	10.09	10.33	10.71	10.21	10.03
42.5	7.81	7.63	7.57	7.63	7.81	7.57	7.45
45.0	5.85	5.79	5.79	5.79	5.85	5.79	5.66
47.5	4.49	4.49	4.56	4.49	4.49	4.49	4.49
50.0	3.57	3.63	3.69	3.63	3.57	3.63	3.63
52.5	2.89	2.95	3.01	2.95	2.89	2.95	2.95
55.0	2.40	2.40	2.52	2.40	2.40	2.46	2.40
57.5	1.97	2.03	2.03	2.03	1.97	1.97	1.97
60.0	1.60	1.66	1.66	1.66	1.60	1.60	1.60
62.5	1.29	1.29	1.36	1.29	1.29	1.29	1.29
65.0	0.98	0.98	1.04	0.98	0.98	0.98	0.98
67.5	0.68	0.68	0.74	0.68	0.68	0.68	0.68
70.0	0.43	0.49	0.49	0.49	0.43	0.43	0.43
72.5	0.25	0.25	0.31	0.25	0.25	0.25	0.25
75.0	0.06	0.06	0.06	0.06	0.06	0.06	0.06
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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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	80.07	32.00	56.60
0-30	118.91	47.60	84.10
0-40	133.25	53.30	94.30
0-60	140.22	56.10	99.20
0-80	141.35	56.50	100.00
0-90	141.35	56.50	100.00
10-90	117.39	47.00	83.00
20-40	53.18	21.30	37.60
20-50	57.93	23.20	41.00
40-70	7.96	3.20	5.60
60-80	1.13	0.50	0.80
70-80	0.14	0.10	0.10
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	141.35	56.50	100.00

Total Luminaire Efficiency = 56.50%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	23.96
10-20	56.11
20-30	38.85
30-40	14.33
40-50	4.75
50-60	2.22
60-70	0.99
70-80	0.14
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	67	67	67	67	66	66	66	66	63	63	63	60	60	60	58	58	58	57
1	64	63	62	61	63	62	61	60	60	59	58	57	57	56	56	55	54	54
2	62	59	57	55	60	58	56	55	56	55	54	55	54	52	53	52	51	51
3	59	56	53	51	58	55	53	51	54	52	50	52	51	49	51	50	49	48
4	57	53	50	48	56	52	50	48	51	49	47	50	48	46	49	47	46	45
5	54	50	47	45	53	49	47	45	48	46	44	48	46	44	47	45	44	43
6	52	47	44	42	51	47	44	42	46	44	42	45	43	42	45	43	41	41
7	50	45	42	40	49	45	42	40	44	42	40	43	41	40	43	41	39	39
8	48	43	40	38	47	43	40	38	42	40	38	42	39	38	41	39	38	37
9	46	41	38	36	45	41	38	36	40	38	36	40	38	36	40	37	36	35
10	44	39	37	35	44	39	36	35	39	36	34	38	36	34	38	36	34	34

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UGR TABLE - CORRECTED

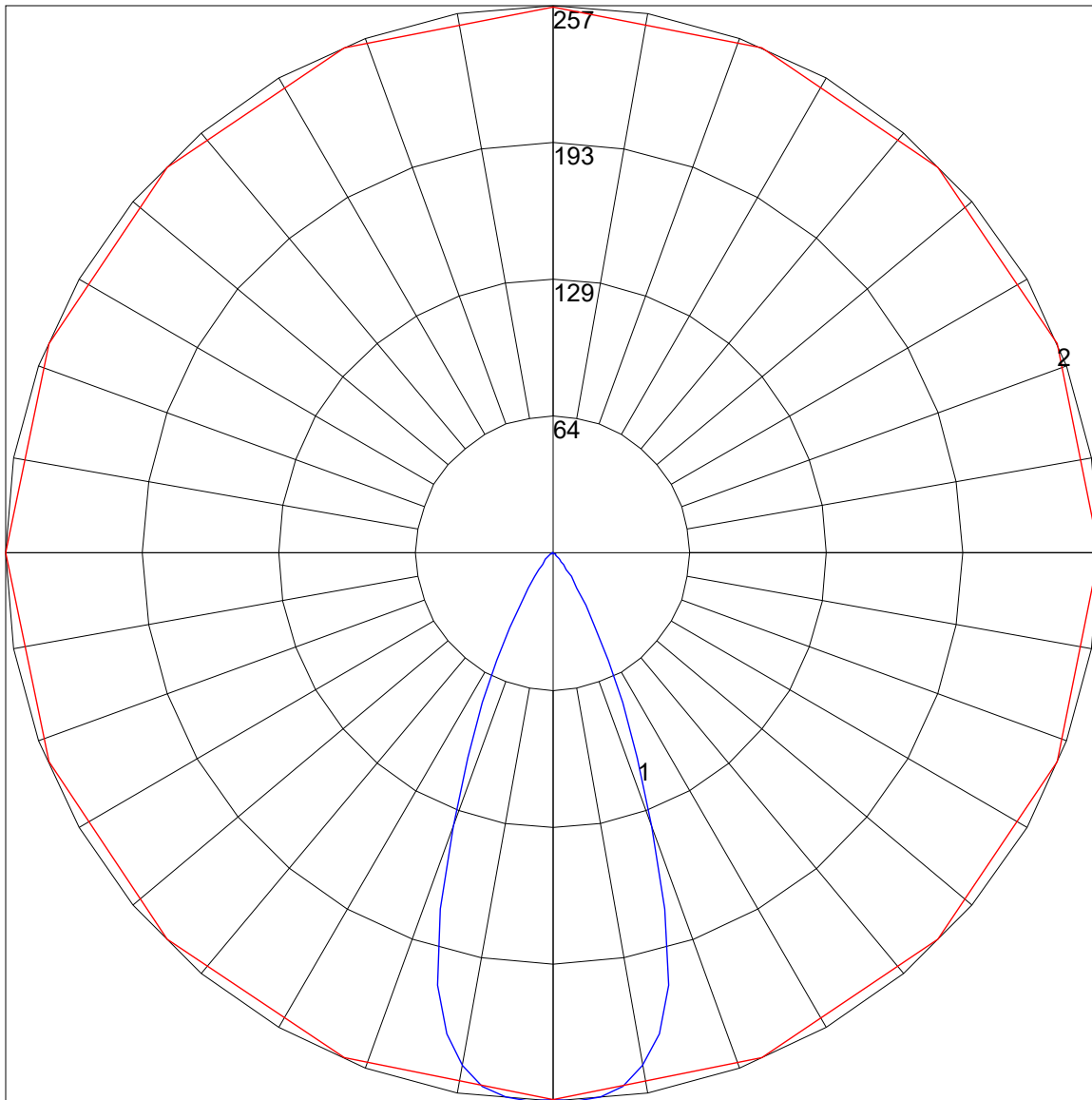
Reflectances

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	12.7	13.6	13.0	14.0	14.3	12.9	13.9	13.2	14.2	14.5
	3H	13.0	13.9	13.4	14.2	14.6	13.2	14.1	13.6	14.4	14.8
	4H	12.9	13.7	13.3	14.1	14.5	13.2	14.0	13.6	14.3	14.7
	6H	12.8	13.5	13.2	13.9	14.3	13.1	13.8	13.5	14.2	14.6
	8H	12.7	13.4	13.2	13.8	14.2	13.0	13.7	13.4	14.1	14.5
	12H	12.7	13.3	13.1	13.7	14.2	13.0	13.6	13.4	14.0	14.4
4H	2H	12.8	13.6	13.2	13.9	14.3	13.0	13.8	13.4	14.1	14.5
	3H	13.2	13.8	13.6	14.2	14.6	13.4	14.0	13.8	14.4	14.8
	4H	13.0	13.6	13.5	14.0	14.5	13.3	13.9	13.7	14.3	14.7
	6H	12.9	13.4	13.4	13.9	14.3	13.1	13.7	13.6	14.1	14.6
	8H	12.9	13.3	13.3	13.8	14.2	13.1	13.6	13.6	14.0	14.5
	12H	12.8	13.2	13.3	13.7	14.2	13.0	13.4	13.5	13.9	14.4
8H	4H	12.9	13.3	13.4	13.8	14.3	13.1	13.6	13.6	14.0	14.5
	6H	12.8	13.1	13.3	13.6	14.1	13.0	13.4	13.5	13.9	14.3
	8H	12.7	13.0	13.2	13.5	14.0	12.9	13.2	13.4	13.8	14.3
	12H	12.6	12.9	13.1	13.4	14.0	12.8	13.1	13.4	13.6	14.2
12H	4H	12.8	13.2	13.3	13.7	14.2	13.0	13.4	13.5	13.9	14.4
	6H	12.7	13.0	13.2	13.5	14.0	12.9	13.2	13.4	13.7	14.3
	8H	12.6	12.9	13.1	13.4	14.0	12.8	13.1	13.4	13.6	14.2

Maximum UGR = 14.8

POLAR GRAPH



Maximum Candela = 257.06 Located At Horizontal Angle = 0, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)