

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MWL204 .IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GLLED
[TESTLAB] Intertek
[MANUFAC] Garden Light LED
[ISSUEDATE] 4/13/2026
[LUMINAIRE] MWL204
[LUMCAT] WELL LIGHT MINI

CHARACTERISTICS

Lumens Per Lamp	250 (1 lamp)
Total Lamp Lumens	250
Luminaire Lumens	145
Total Luminaire Efficiency	58 %
Luminaire Efficacy Rating (LER)	56
Total Luminaire Watts	2.57
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.48
Spacing Criterion (90-270)	0.50
Spacing Criterion (Diagonal)	0.46
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	13651	12200	13060
55	4307	4307	4307
65	989	989	989
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	519.22	519.22	519.22	519.22	519.22	519.22	519.22	519.22	519.22	519.22
2.5	515.85	514.60	514.12	510.82	508.88	510.82	514.12	514.60	515.85	514.60
5.0	481.66	479.44	479.12	477.07	477.33	477.07	479.12	479.44	481.66	479.44
7.5	432.83	429.59	429.32	429.70	433.59	429.70	429.32	429.59	432.83	429.59
10.0	374.07	370.99	367.70	370.83	376.56	370.83	367.70	370.99	374.07	370.99
12.5	308.50	307.26	298.35	304.67	310.23	304.67	298.35	307.26	308.50	307.26
15.0	240.88	239.58	227.87	235.91	244.40	235.91	227.87	239.58	240.88	239.58
17.5	176.72	176.78	161.97	171.48	178.88	171.48	161.97	176.78	176.72	176.78
20.0	123.09	124.54	108.34	119.36	125.08	119.36	108.34	124.54	123.09	124.54
22.5	83.45	83.23	72.00	80.04	83.99	80.04	72.00	83.23	83.45	83.23
25.0	56.44	55.52	48.88	53.47	55.90	53.47	48.88	55.52	56.44	55.52
27.5	39.54	38.13	34.24	36.46	38.51	36.46	34.24	38.13	39.54	38.13
30.0	28.03	26.57	24.41	25.33	27.00	25.33	24.41	26.57	28.03	26.57
32.5	19.93	18.79	17.34	17.77	19.01	17.77	17.34	18.79	19.93	18.79
35.0	13.93	13.13	12.05	12.31	13.34	12.31	12.05	13.13	13.93	13.13
37.5	9.67	9.02	8.27	8.48	9.24	8.48	8.27	9.02	9.67	9.02
40.0	6.70	6.26	5.72	5.83	6.37	5.83	5.72	6.26	6.70	6.26
42.5	4.38	4.16	3.84	3.84	4.21	3.84	3.84	4.16	4.38	4.16
45.0	2.54	2.48	2.27	2.27	2.43	2.27	2.27	2.48	2.54	2.48
47.5	1.57	1.51	1.40	1.40	1.46	1.40	1.40	1.51	1.57	1.51
50.0	1.08	1.08	1.03	1.03	1.03	1.03	1.03	1.08	1.08	1.08
52.5	0.86	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.86	0.81
55.0	0.65	0.65	0.65	0.59	0.65	0.59	0.65	0.65	0.65	0.65
57.5	0.49	0.49	0.49	0.43	0.49	0.43	0.49	0.49	0.49	0.49
60.0	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32
62.5	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
65.0	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
67.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	519.22	519.22	519.22	519.22	519.22	519.22	519.22
2.5	514.12	510.82	508.88	510.82	514.12	514.60	515.85
5.0	479.12	477.07	477.33	477.07	479.12	479.44	481.66
7.5	429.32	429.70	433.59	429.70	429.32	429.59	432.83
10.0	367.70	370.83	376.56	370.83	367.70	370.99	374.07
12.5	298.35	304.67	310.23	304.67	298.35	307.26	308.50
15.0	227.87	235.91	244.40	235.91	227.87	239.58	240.88
17.5	161.97	171.48	178.88	171.48	161.97	176.78	176.72
20.0	108.34	119.36	125.08	119.36	108.34	124.54	123.09
22.5	72.00	80.04	83.99	80.04	72.00	83.23	83.45
25.0	48.88	53.47	55.90	53.47	48.88	55.52	56.44
27.5	34.24	36.46	38.51	36.46	34.24	38.13	39.54
30.0	24.41	25.33	27.00	25.33	24.41	26.57	28.03
32.5	17.34	17.77	19.01	17.77	17.34	18.79	19.93
35.0	12.05	12.31	13.34	12.31	12.05	13.13	13.93
37.5	8.27	8.48	9.24	8.48	8.27	9.02	9.67
40.0	5.72	5.83	6.37	5.83	5.72	6.26	6.70
42.5	3.84	3.84	4.21	3.84	3.84	4.16	4.38
45.0	2.27	2.27	2.43	2.27	2.27	2.48	2.54
47.5	1.40	1.40	1.46	1.40	1.40	1.51	1.57
50.0	1.03	1.03	1.03	1.03	1.03	1.08	1.08
52.5	0.81	0.81	0.81	0.81	0.81	0.81	0.86
55.0	0.65	0.59	0.65	0.59	0.65	0.65	0.65
57.5	0.49	0.43	0.49	0.43	0.49	0.49	0.49
60.0	0.32	0.32	0.32	0.32	0.32	0.32	0.32
62.5	0.22	0.22	0.22	0.22	0.22	0.22	0.22
65.0	0.11	0.11	0.11	0.11	0.11	0.11	0.11
67.5	0.00	0.00	0.00	0.00	0.00	0.00	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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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	106.47	42.60	73.60
0-30	133.34	53.30	92.10
0-40	141.89	56.80	98.00
0-60	144.63	57.90	99.90
0-80	144.74	57.90	100.00
0-90	144.74	57.90	100.00
10-90	102.48	41.00	70.80
20-40	35.41	14.20	24.50
20-50	37.57	15.00	26.00
40-70	2.86	1.10	2.00
60-80	0.12	0.00	0.10
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	144.74	57.90	100.00

Total Luminaire Efficiency = 57.90%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	42.26
10-20	64.21
20-30	26.87
30-40	8.55
40-50	2.16
50-60	0.58
60-70	0.12
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	69	69	69	69	67	67	67	67	64	64	64	62	62	62	59	59	59	58
1	66	65	64	63	65	64	63	62	62	61	60	60	59	58	58	57	57	56
2	64	62	60	59	63	61	59	58	59	58	57	57	56	55	56	55	54	53
3	62	59	57	55	61	58	56	55	57	55	54	55	54	53	54	53	52	51
4	60	56	54	52	59	56	54	52	55	53	51	54	52	51	53	51	50	49
5	58	54	52	50	57	54	51	50	53	51	49	52	50	49	51	49	48	48
6	56	52	49	48	55	52	49	47	51	49	47	50	48	47	49	48	47	46
7	54	50	48	46	53	50	47	46	49	47	45	49	47	45	48	46	45	44
8	52	48	46	44	52	48	46	44	48	45	44	47	45	44	47	45	43	43
9	51	47	44	43	50	47	44	42	46	44	42	46	44	42	45	43	42	41
10	49	45	43	41	49	45	43	41	45	42	41	44	42	41	44	42	41	40

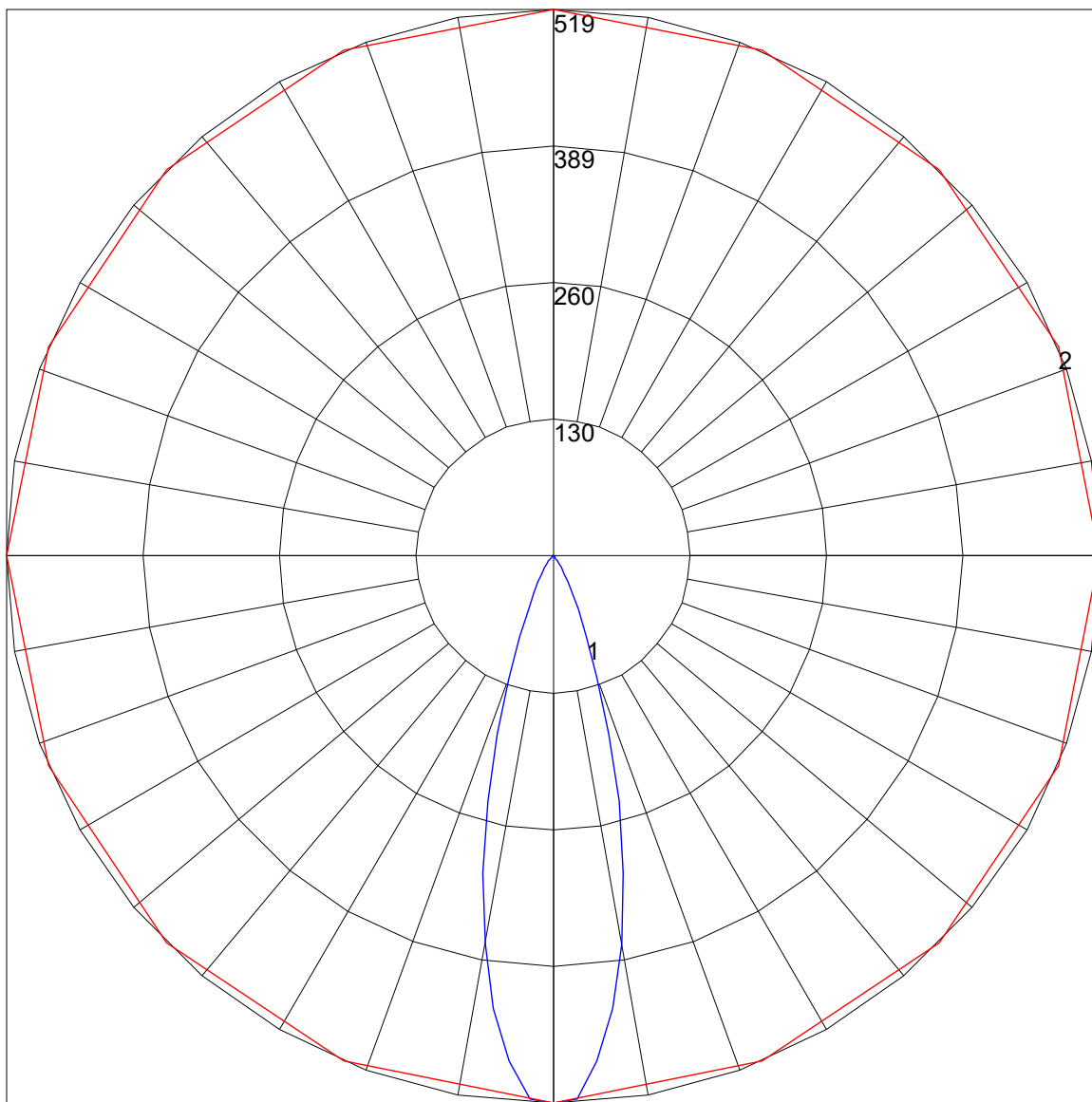
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UGR TABLE - CORRECTED

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	3.0	3.8	3.3	4.2	4.5	2.3	3.2	2.6	3.5	3.8
	3H	2.7	3.5	3.1	3.9	4.2	2.0	2.8	2.4	3.2	3.5
	4H	2.6	3.3	3.0	3.7	4.1	1.9	2.6	2.3	3.0	3.4
	6H	2.5	3.2	2.9	3.5	3.9	1.8	2.5	2.2	2.8	3.2
	8H	2.5	3.1	2.9	3.5	3.9	1.8	2.4	2.2	2.8	3.2
	12H	2.4	3.0	2.8	3.4	3.8	1.7	2.3	2.1	2.7	3.1
4H	2H	2.7	3.4	3.1	3.8	4.2	2.0	2.8	2.4	3.1	3.5
	3H	2.5	3.1	2.9	3.5	3.9	1.8	2.4	2.2	2.8	3.2
	4H	2.3	2.9	2.8	3.3	3.8	1.7	2.2	2.1	2.6	3.1
	6H	2.2	2.7	2.7	3.1	3.6	1.6	2.0	2.0	2.5	2.9
	8H	2.2	2.6	2.7	3.0	3.5	1.5	1.9	2.0	2.4	2.8
	12H	2.1	2.5	2.6	2.9	3.4	1.4	1.8	1.9	2.3	2.8
8H	4H	2.2	2.6	2.7	3.0	3.5	1.5	1.9	2.0	2.4	2.8
	6H	2.0	2.4	2.6	2.9	3.4	1.4	1.7	1.9	2.2	2.7
	8H	1.9	2.2	2.5	2.8	3.3	1.3	1.6	1.8	2.1	2.6
	12H	1.9	2.1	2.4	2.6	3.2	1.2	1.5	1.8	2.0	2.6
12H	4H	2.1	2.5	2.6	2.9	3.4	1.4	1.8	1.9	2.3	2.8
	6H	1.9	2.2	2.5	2.7	3.3	1.3	1.6	1.8	2.1	2.6
	8H	1.9	2.1	2.4	2.6	3.2	1.2	1.5	1.8	2.0	2.6

Maximum UGR = 4.5

POLAR GRAPH



Maximum Candela = 519.22 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.)