



Shenzhen Belling Efficiency Testing Laboratory Co.,Ltd.  
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LumCAT: LL6SRG-41K

Luminaire:

Report No:

Voltage(V): 120.13

Test No: Sam

Current(A): 0.1492

LampCAT:

Power (W): 17.6690

Lamp flux(lm): 1102.4

PF: 0.9857

Number of Lamps: 1

Ballast type:

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

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### Photometric Results

Lumens(lm): 1102.42

Efficiency(%): 100.00%

Lumens(lm)/Power(W): 62.39

Central intensity(cd): 487.078

Maximum intensity(cd): 491.321

Angle of maximum intensity: C=247.5  $\gamma$ =5.0

Beam Angle(50%Imax): [C0/180]Total=92.6

[C90/270]Total=92.3

Field angle(10%Imax): [C0/180]Total=148.1

[C90/270]Total=148.0

Maximum s/h(1/2): C0\_180=1.22 C90\_270=1.04

Maximum s/h(1/4): C0\_180=1.30 C90\_270=1.15

Up flux rate of lamp(%): 0.27%

Down flux rate of lamp(%): 98.87%

Up flux rate of LUM(%): -0.59%

Down flux rate of LUM(%): 99.73%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 84.864%

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Equipment: GMS-3000  
Temperature(°C): 25

Date:  
Humidity(%): 58%

Operator: Sam

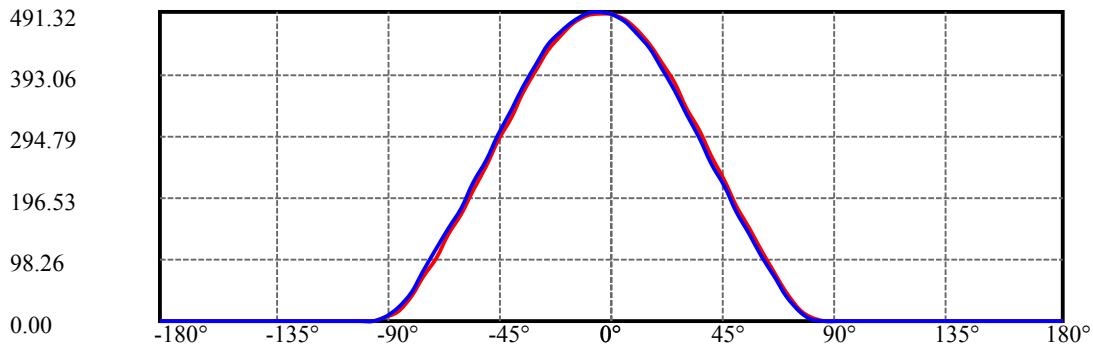
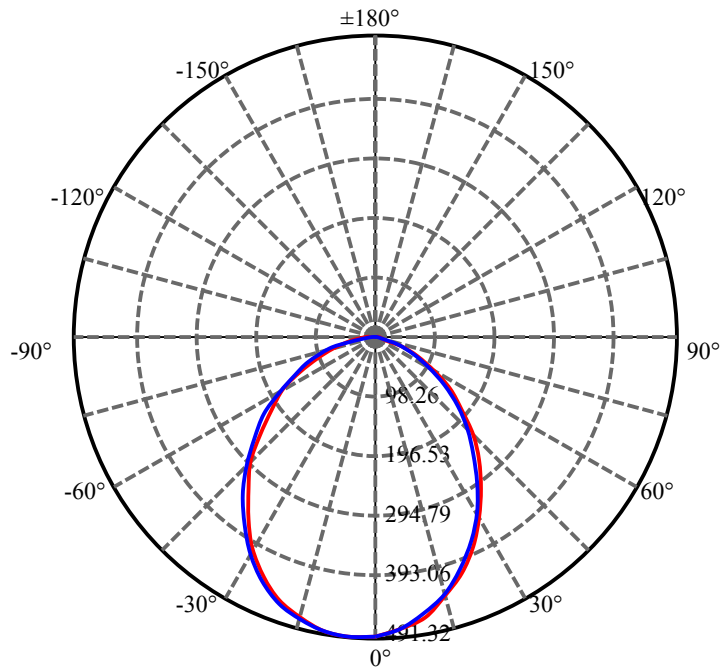
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	487.078	0.000	0	.000%	.000%
5.0	483.486	11.607	11.607	1.053%	1.053%
10.0	473.150	34.259	45.866	3.108%	4.161%
15.0	455.940	55.220	101.086	5.009%	9.170%
20.0	432.353	73.413	174.5	6.659%	15.829%
25.0	403.185	87.954	262.454	7.978%	23.807%
30.0	369.645	98.245	360.699	8.912%	32.719%
35.0	332.436	103.933	464.632	9.428%	42.147%
40.0	293.454	105.059	569.691	9.530%	51.677%
45.0	254.197	102.121	671.812	9.263%	60.940%
50.0	214.926	95.583	767.395	8.670%	69.610%
55.0	176.809	86.015	853.409	7.802%	77.413%
60.0	139.985	74.093	927.503	6.721%	84.134%
65.0	105.071	60.474	987.977	5.486%	89.619%
70.0	74.941	46.483	1034.46	4.216%	93.836%
75.0	44.824	32.160	1066.62	2.917%	96.753%
80.0	24.522	19.254	1085.874	1.747%	98.499%
85.0	9.842	9.750	1095.624	.884%	99.384%
90.0	3.258	3.756	1099.38	.341%	99.725%
95.0	0.248	1.001	1100.381	.091%	99.815%
100.0	0.220	0.127	1100.508	.012%	99.827%
105.0	0.220	0.118	1100.626	.011%	99.838%
110.0	0.220	0.115	1100.741	.010%	99.848%
115.0	0.220	0.111	1100.852	.010%	99.858%
120.0	0.275	0.120	1100.973	.011%	99.869%
125.0	0.330	0.138	1101.111	.013%	99.882%
130.0	0.344	0.145	1101.256	.013%	99.895%
135.0	0.440	0.158	1101.414	.014%	99.909%
140.0	0.440	0.163	1101.577	.015%	99.924%
145.0	0.523	0.161	1101.738	.015%	99.938%
150.0	0.550	0.157	1101.895	.014%	99.953%
155.0	0.591	0.144	1102.038	.013%	99.966%
160.0	0.646	0.130	1102.168	.012%	99.977%
165.0	0.660	0.108	1102.276	.010%	99.987%
170.0	0.660	0.078	1102.354	.007%	99.994%
175.0	0.660	0.047	1102.401	.004%	99.999%
180.0	0.660	0.016	1102.417	.001%	100.000%

## ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	360.70	32.72%	32.72%
0-40	569.69	51.68%	51.68%
0-60	927.50	84.13%	84.13%
0-90	1099.38	99.72%	99.72%
0-120	1100.97	99.87%	99.87%
0-180	1102.42	100.00%	100.00%
60-90	245.97	22.31%	22.31%
90-120	5.35	0.49%	0.49%
90-130	5.63	0.51%	0.51%
90-150	6.27	0.57%	0.57%
90-180	6.78	0.61%	0.61%
0-56.92	881.93	80.00%	80.00%

## ZONAL LUMEN SUMMARY

0-10	45.87
10-20	128.63
20-30	186.20
30-40	208.99
40-50	197.70
50-60	160.11
60-70	106.96
70-80	51.41
80-90	13.51
90-100	1.13
100-110	0.23
110-120	0.23
120-130	0.28
130-140	0.32
140-150	0.32
150-160	0.27
160-170	0.19
170-180	0.05

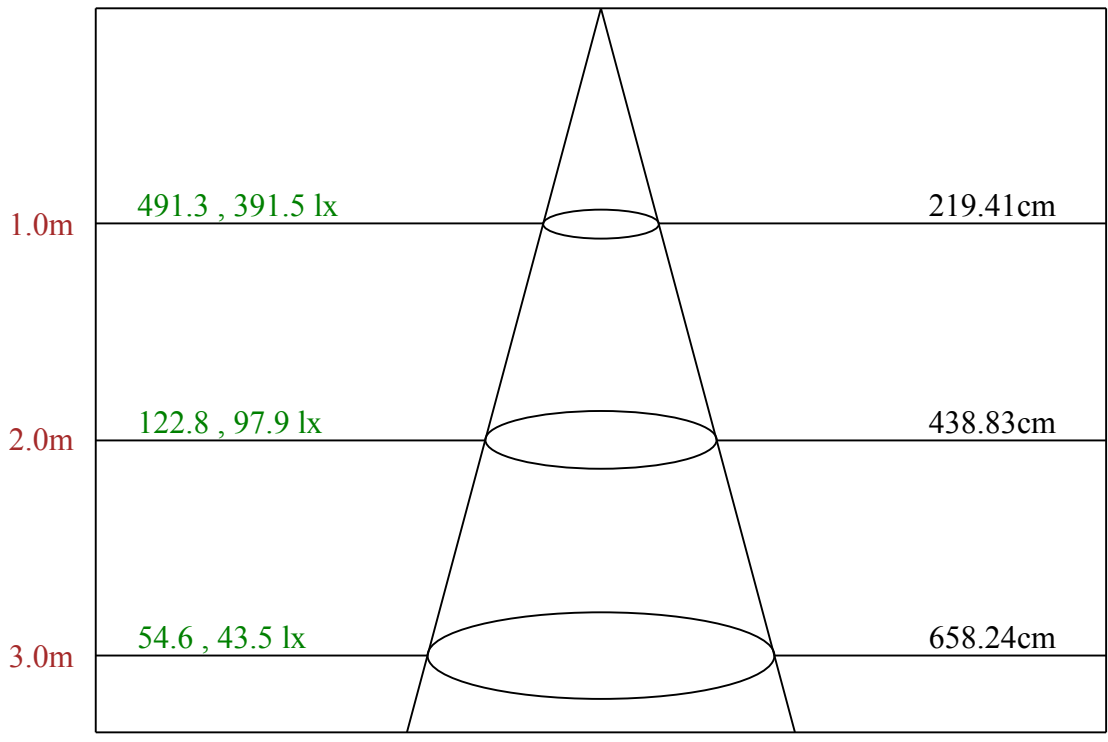


C0/C180: —

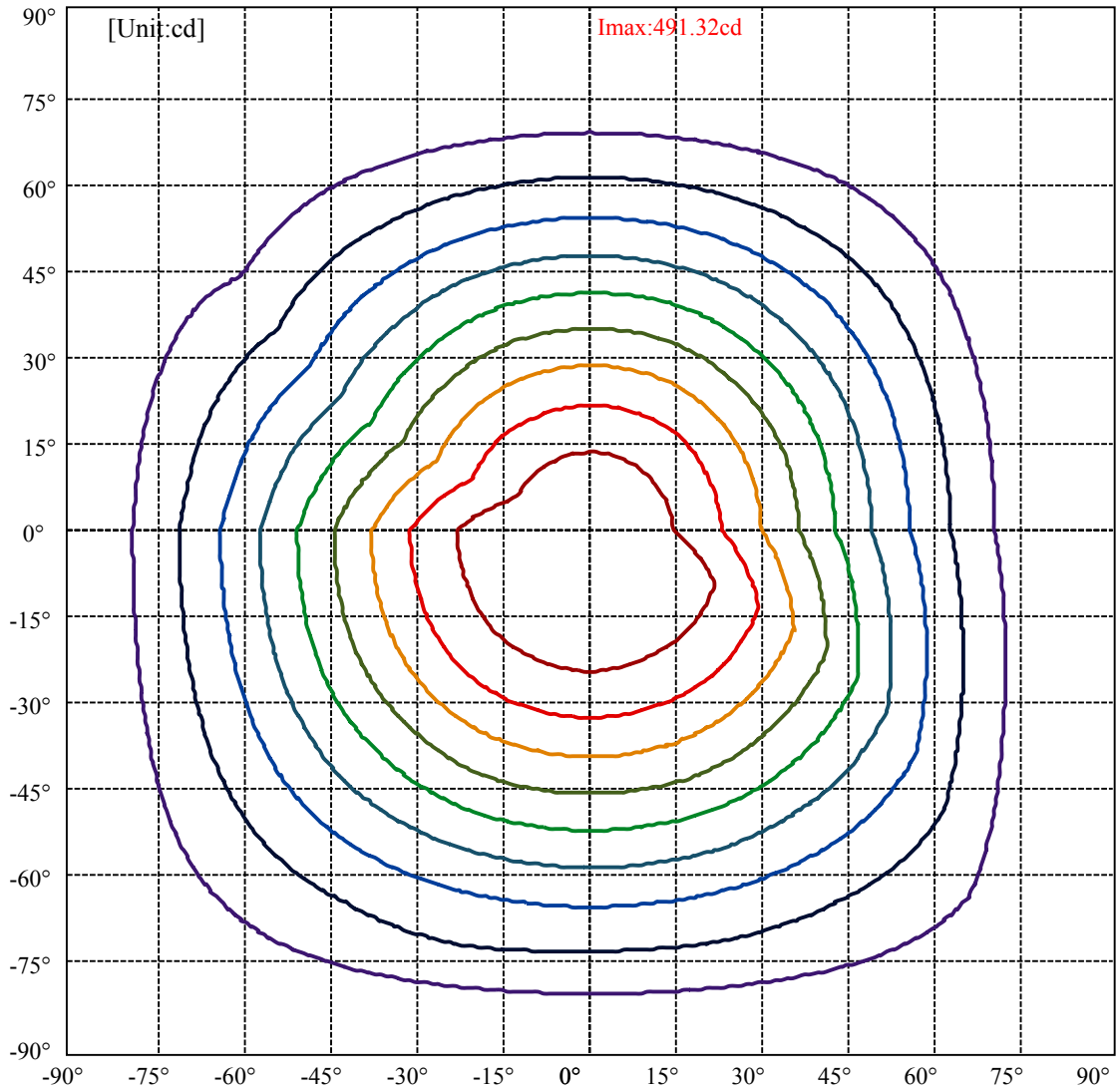
C90/C270: —

Field angle(10%Imax):C0/180Left:73.5 Right:74.6  
 :C90/270Left:74.7 Right:73.3

Beam Angle(50%Imax):C0/180Left:45.3 Right:47.3  
 :C90/270Left:46.6 Right:45.7



Max , Ave      Beam angle of C247.5 plane 94.27

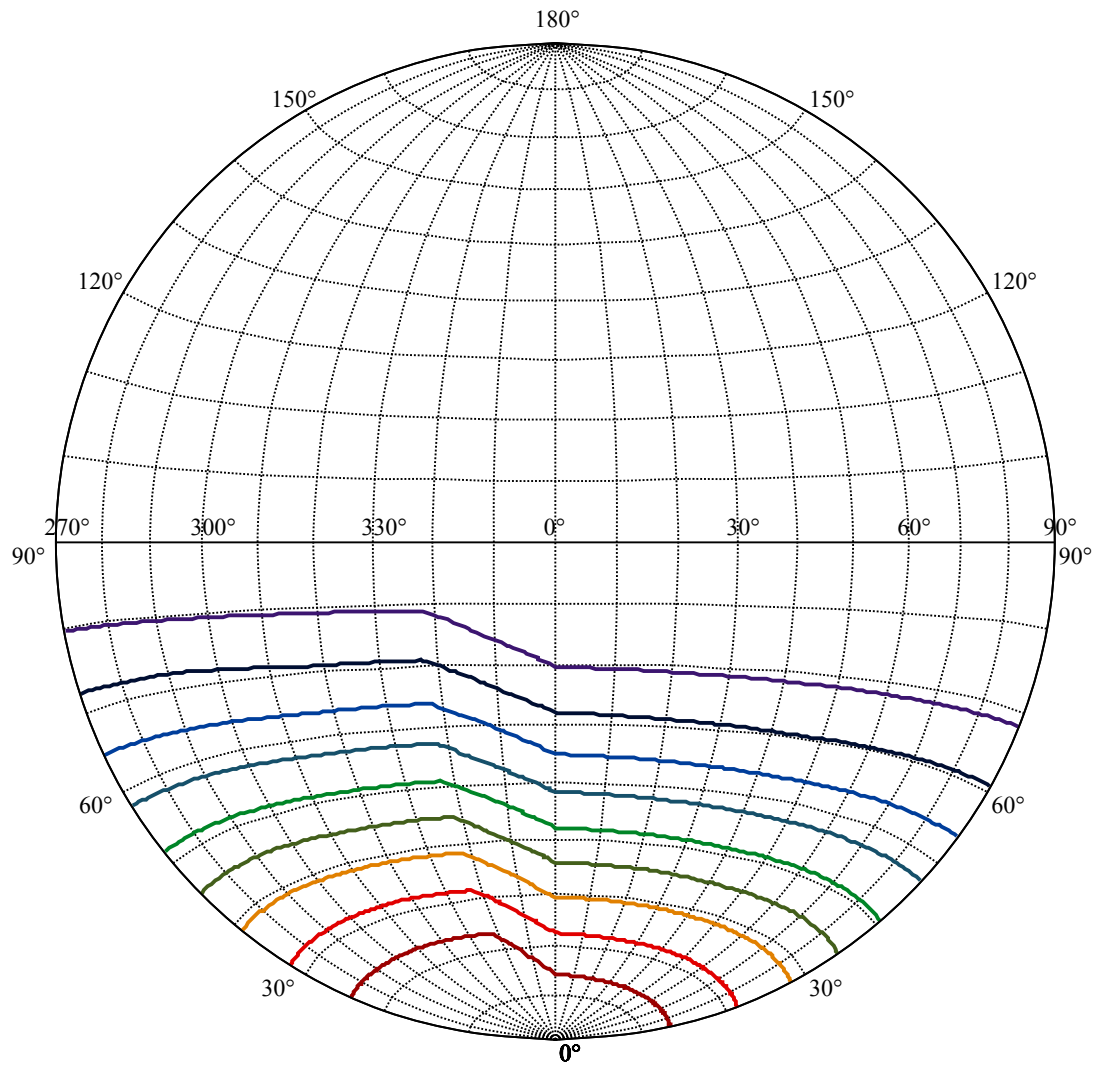


(10%I <sub>max</sub> ) 49.1069	—
(20%I <sub>max</sub> ) 98.2139	—
(30%I <sub>max</sub> ) 147.321	—
(40%I <sub>max</sub> ) 196.428	—
(50%I <sub>max</sub> ) 245.535	—
(60%I <sub>max</sub> ) 294.642	—
(70%I <sub>max</sub> ) 343.749	—
(80%I <sub>max</sub> ) 392.856	—
(90%I <sub>max</sub> ) 441.962	—

Equipment: GMS-3000  
Temperature(°C): 25

Date:  
Humidity(%): 58%

Operator: Sam












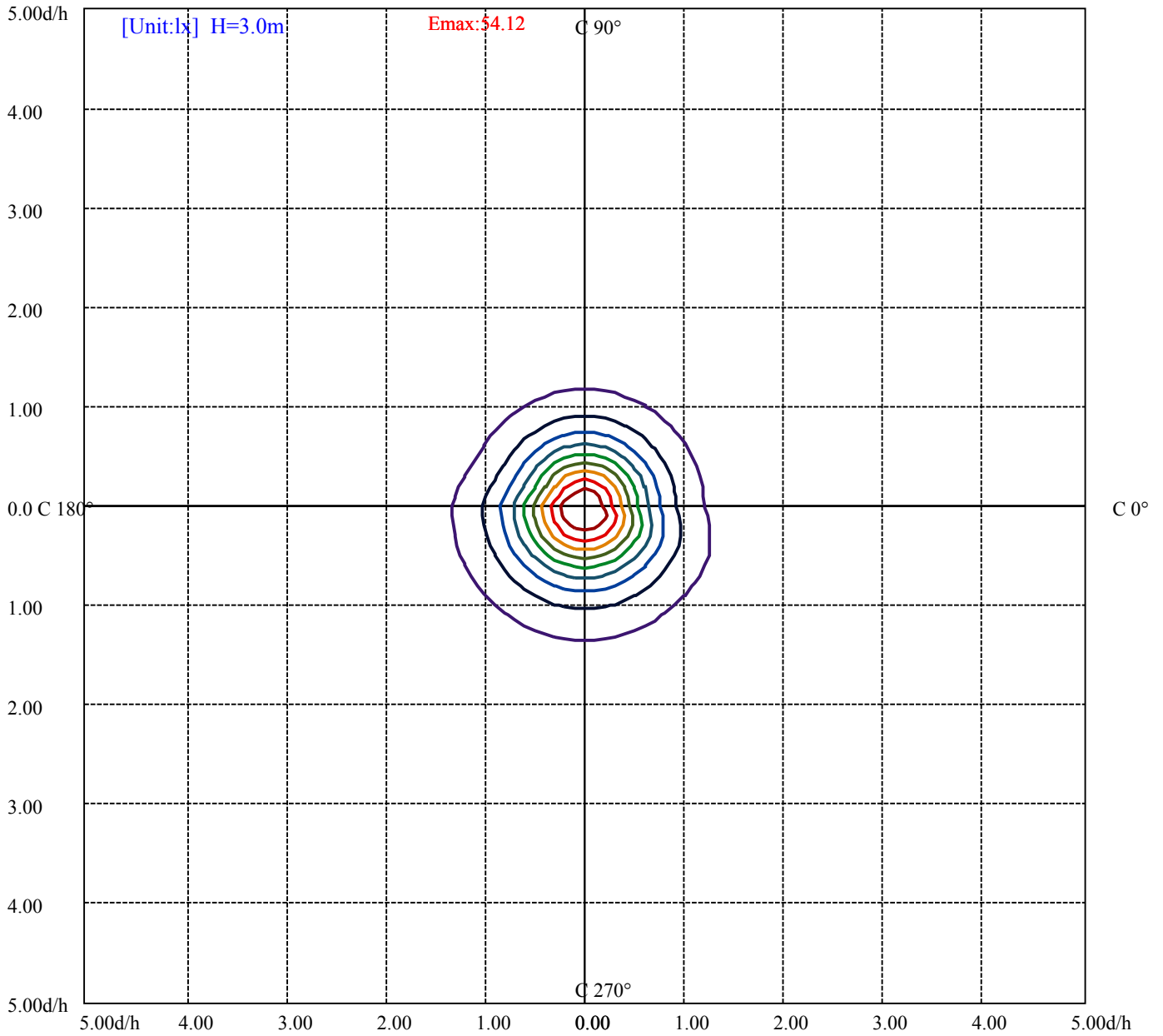
House

[Unit:cd]

Road

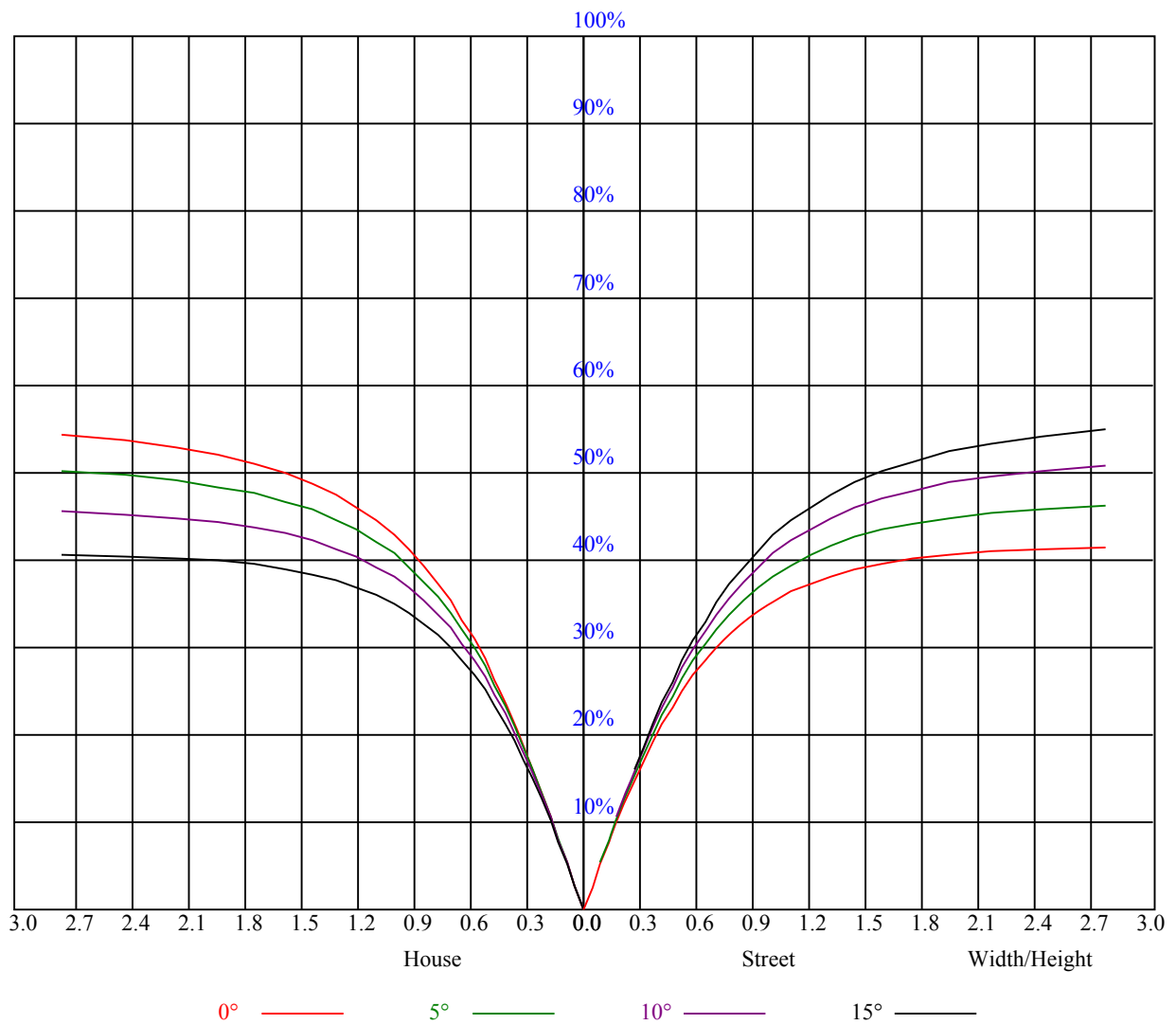
**I<sub>max</sub>:491.32**

(10%I <sub>max</sub> ) 49.1311	
(20%I <sub>max</sub> ) 98.2623	
(30%I <sub>max</sub> ) 147.393	
(40%I <sub>max</sub> ) 196.525	
(50%I <sub>max</sub> ) 245.656	
(60%I <sub>max</sub> ) 294.787	
(70%I <sub>max</sub> ) 343.918	
(80%I <sub>max</sub> ) 393.049	
(90%I <sub>max</sub> ) 442.18	



- (10%Emax) 5.411978 ———
- (20%Emax) 10.82394 ———
- (30%Emax) 16.23589 ———
- (40%Emax) 21.64789 ———
- (50%Emax) 27.05989 ———
- (60%Emax) 32.47189 ———
- (70%Emax) 37.88378 ———
- (80%Emax) 43.29578 ———
- (90%Emax) 48.70778 ———





## Intensity data(cd)

C/ $\gamma$ (°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	487.08	478.57	462.95	438.98	410.61	376.96	340.01	302.18	262.16
22.5	487.08	476.81	460.09	437.22	408.19	373.44	337.59	298.66	258.42
45.0	487.08	476.59	459.65	435.68	406.87	372.56	333.85	293.61	254.02
67.5	487.08	476.37	458.99	434.58	404.45	369.26	333.19	293.83	253.58
90.0	487.08	476.15	458.99	433.70	402.47	367.72	330.33	290.75	250.50
112.5	487.08	475.49	458.33	433.92	402.69	367.72	331.21	292.07	251.82
135.0	487.08	475.49	458.55	434.80	405.33	370.58	331.87	291.19	250.72
157.5	487.08	477.03	459.21	436.56	406.21	371.46	333.85	296.24	255.56
180.0	487.08	489.56	485.60	473.95	455.47	430.18	398.73	362.22	323.74
202.5	487.08	489.56	485.38	474.39	456.35	432.16	401.37	366.18	328.57
225.0	487.08	490.44	486.48	476.15	458.55	435.68	406.21	371.46	332.53
247.5	487.08	491.32	488.24	477.69	460.31	437.22	407.75	372.56	334.95
270.0	487.08	490.88	486.92	477.47	461.63	438.54	407.97	373.00	335.83
292.5	487.08	490.22	487.36	477.25	460.75	436.56	407.97	372.34	334.27
315.0	487.08	490.66	486.92	476.81	459.87	436.56	407.97	373.22	333.85
337.5	487.08	490.66	486.70	475.93	457.89	434.36	404.45	369.48	332.75
360.0	487.08	478.57	462.95	438.98	410.61	376.96	340.01	302.18	262.16
C/ $\gamma$ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	223.67	184.52	147.13	112.60	76.98	46.63	19.79	6.82	0.22
22.5	218.39	179.24	142.29	106.45	72.36	43.11	18.47	6.16	0.22
45.0	213.99	174.84	137.02	101.17	69.28	40.03	16.50	5.28	0.22
67.5	213.55	172.86	137.46	101.39	67.96	38.27	15.62	4.62	0.22
90.0	213.11	174.40	137.90	102.93	69.06	38.71	14.08	4.40	0.22
112.5	211.79	173.74	136.14	100.29	66.86	37.61	14.52	4.40	0.22
135.0	211.57	172.86	135.04	99.41	67.74	38.71	16.28	5.06	0.22
157.5	215.31	176.38	139.66	103.81	70.16	40.47	17.15	5.50	0.22
180.0	286.35	246.98	208.05	171.76	136.36	101.39	69.72	40.47	15.18
202.5	289.65	250.94	211.57	173.08	136.58	102.27	69.72	40.91	17.81
225.0	292.07	251.60	213.55	174.84	137.68	104.03	71.48	42.67	19.57
247.5	296.90	257.10	216.85	178.14	142.51	125.80	75.22	45.31	20.67
270.0	296.46	257.76	219.71	181.22	145.59	116.12	77.86	47.29	21.77
292.5	297.12	257.32	217.51	179.90	143.17	115.68	75.66	45.75	20.89
315.0	293.61	254.46	214.65	175.72	139.00	105.13	72.58	44.43	20.89
337.5	293.61	253.80	214.43	177.04	139.88	105.13	72.58	43.33	18.91
360.0	223.67	184.52	147.13	112.60	76.98	46.63	19.79	6.82	0.22
C/ $\gamma$ (°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.44	0.44
22.5	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.44	0.44
45.0	0.22	0.22	0.22	0.22	0.22	0.22	0.44	0.44	0.44
67.5	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.44	0.44
90.0	0.22	0.22	0.22	0.22	0.22	0.22	0.44	0.44	0.44
112.5	0.22	0.22	0.22	0.22	0.22	0.22	0.44	0.44	0.44
135.0	0.22	0.22	0.22	0.22	0.22	0.22	0.44	0.44	0.44
157.5	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.44	0.44
180.0	5.06	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.44
202.5	5.72	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
225.0	6.38	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
247.5	6.60	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
270.0	6.82	0.44	0.22	0.22	0.22	0.22	0.22	0.22	0.22
292.5	6.82	0.44	0.22	0.22	0.22	0.22	0.22	0.22	0.22
315.0	6.60	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
337.5	6.38	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
360.0	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.44	0.44

LL6SRG-41K

Intensity data(cd)

C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	0.44	0.44	0.44	0.66	0.66	0.66	0.66	0.66	0.66
22.5	0.44	0.44	0.66	0.66	0.66	0.66	0.66	0.66	0.66
45.0	0.44	0.44	0.66	0.66	0.66	0.66	0.66	0.66	0.66
67.5	0.44	0.44	0.66	0.66	0.66	0.66	0.66	0.66	0.66
90.0	0.44	0.44	0.44	0.66	0.66	0.66	0.66	0.66	0.66
112.5	0.44	0.44	0.66	0.66	0.66	0.66	0.66	0.66	0.66
135.0	0.44	0.44	0.66	0.66	0.66	0.66	0.66	0.66	0.66
157.5	0.44	0.44	0.66	0.66	0.66	0.66	0.66	0.66	0.66
180.0	0.44	0.44	0.44	0.44	0.66	0.66	0.66	0.66	0.66
202.5	0.44	0.44	0.44	0.44	0.66	0.66	0.66	0.66	0.66
225.0	0.44	0.44	0.44	0.44	0.44	0.66	0.66	0.66	0.66
247.5	0.44	0.44	0.44	0.44	0.44	0.66	0.66	0.66	0.66
270.0	0.44	0.44	0.44	0.44	0.44	0.44	0.66	0.66	0.66
292.5	0.44	0.44	0.44	0.44	0.44	0.66	0.66	0.66	0.66
315.0	0.44	0.44	0.44	0.44	0.44	0.66	0.66	0.66	0.66
337.5	0.44	0.44	0.44	0.44	0.66	0.66	0.66	0.66	0.66
360.0	0.44	0.44	0.44	0.66	0.66	0.66	0.66	0.66	0.66

C/γ(°)	180.0
0.0	0.66
22.5	0.66
45.0	0.66
67.5	0.66
90.0	0.66
112.5	0.66
135.0	0.66
157.5	0.66
180.0	0.66
202.5	0.66
225.0	0.66
247.5	0.66
270.0	0.66
292.5	0.66
315.0	0.66
337.5	0.66
360.0	0.66