



Shenzhen Belling Efficiency Testing Laboratory Co.,Ltd.
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LumCAT: LL6RRG-41K

Luminaire:

Report No:

Voltage(V): 120.04

Test No:

Current(A): 0.1394

LampCAT:

Power (W): 16.4750

Lamp flux(lm): 1051.2

PF: 0.9844

Number of Lamps: 1

Ballast type:

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1051.18

Efficiency(%): 100.00%

Lumens(lm)/Power(W): 63.80

Central intensity(cd): 453.358

Maximum intensity(cd): 466.192

Angle of maximum intensity: C=180.0 γ =5.0

Beam Angle(50%Imax): [C0/180]Total=94.0

[C90/270]Total=93.8

Field angle(10%Imax): [C0/180]Total=149.5

[C90/270]Total=149.5

Maximum s/h(1/2): C0_180=1.28 C90_270=1.09

Maximum s/h(1/4): C0_180=1.36 C90_270=1.19

Up flux rate of lamp(%): 0.22%

Down flux rate of lamp(%): 98.53%

Up flux rate of LUM(%): -1.03%

Down flux rate of LUM(%): 99.77%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 84.668%

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

Date:
Humidity(%): 58%

Operator: Sam

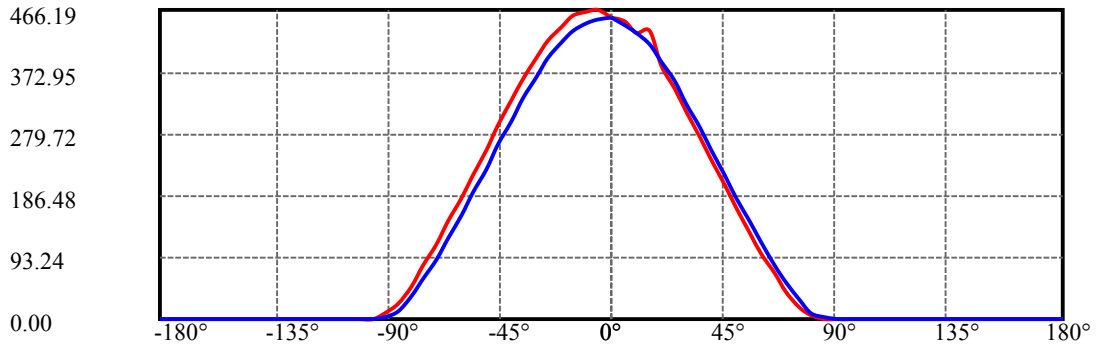
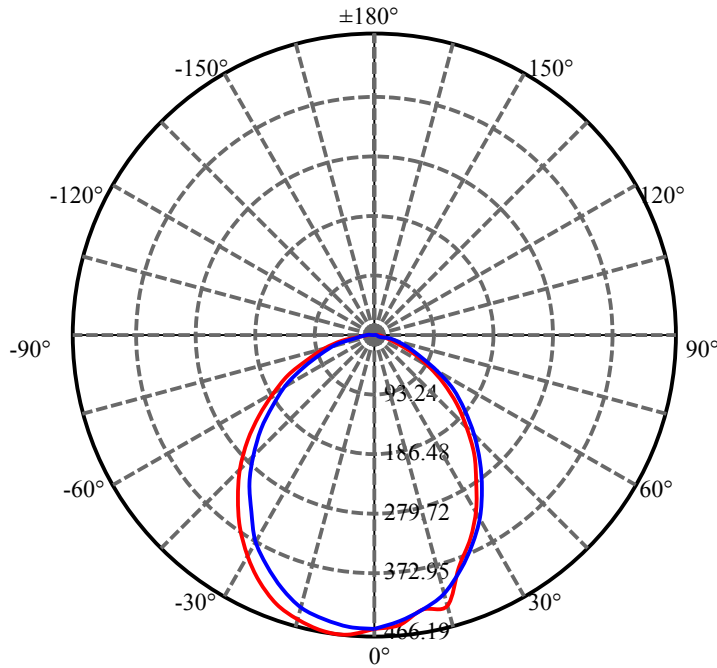
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	453.358	0.000	0	.000%	.000%
5.0	449.632	10.801	10.801	1.028%	1.028%
10.0	440.016	31.880	42.681	3.033%	4.060%
15.0	428.510	51.621	94.302	4.911%	8.971%
20.0	403.608	68.789	163.091	6.544%	15.515%
25.0	377.004	82.304	245.395	7.830%	23.345%
30.0	346.115	92.122	337.517	8.764%	32.108%
35.0	312.517	97.767	435.283	9.301%	41.409%
40.0	277.797	99.409	534.693	9.457%	50.866%
45.0	241.829	97.253	631.945	9.252%	60.118%
50.0	205.887	91.601	723.546	8.714%	68.832%
55.0	170.713	83.084	806.631	7.904%	76.736%
60.0	136.611	72.272	878.903	6.875%	83.611%
65.0	103.870	59.694	938.597	5.679%	89.290%
70.0	73.624	46.136	984.733	4.389%	93.679%
75.0	45.495	32.252	1016.986	3.068%	96.747%
80.0	23.151	19.283	1036.269	1.834%	98.582%
85.0	8.544	9.203	1045.472	.876%	99.457%
90.0	2.420	3.278	1048.75	.312%	99.769%
95.0	0.202	0.790	1049.54	.075%	99.844%
100.0	0.164	0.105	1049.645	.010%	99.854%
105.0	0.177	0.091	1049.736	.009%	99.863%
110.0	0.189	0.094	1049.83	.009%	99.872%
115.0	0.202	0.098	1049.928	.009%	99.881%
120.0	0.202	0.098	1050.026	.009%	99.891%
125.0	0.240	0.102	1050.128	.010%	99.900%
130.0	0.315	0.121	1050.249	.011%	99.912%
135.0	0.353	0.134	1050.382	.013%	99.925%
140.0	0.390	0.135	1050.518	.013%	99.937%
145.0	0.403	0.131	1050.649	.012%	99.950%
150.0	0.428	0.122	1050.771	.012%	99.962%
155.0	0.454	0.112	1050.883	.011%	99.972%
160.0	0.479	0.098	1050.981	.009%	99.981%
165.0	0.504	0.081	1051.062	.008%	99.989%
170.0	0.542	0.062	1051.124	.006%	99.995%
175.0	0.555	0.039	1051.163	.004%	99.999%
180.0	0.522	0.013	1051.176	.001%	100.000%

ZONAL LUMEN SUMMARY

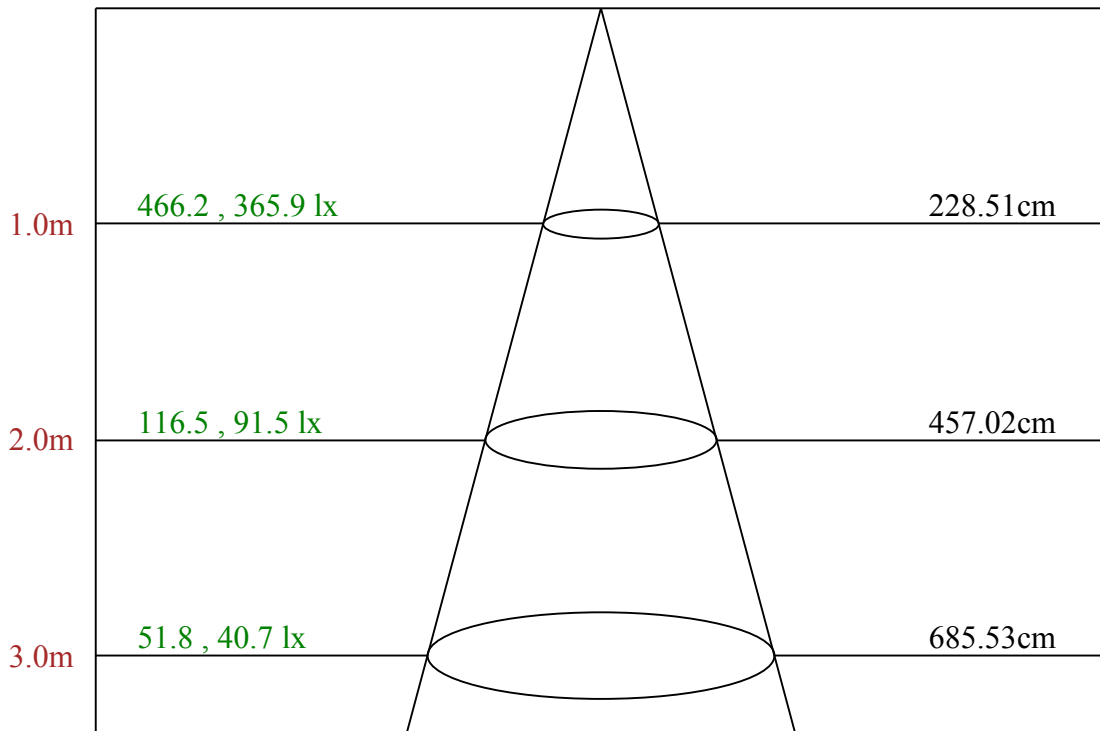
Zone	Lumens	%Lamp	%Fixt
0-30	337.52	32.11%	32.11%
0-40	534.69	50.87%	50.87%
0-60	878.90	83.61%	83.61%
0-90	1048.75	99.77%	99.77%
0-120	1050.03	99.89%	99.89%
0-180	1051.18	100.00%	100.00%
60-90	242.12	23.03%	23.03%
90-120	4.55	0.43%	0.43%
90-130	4.78	0.45%	0.45%
90-150	5.30	0.50%	0.50%
90-180	5.69	0.54%	0.54%
0-57.37	840.94	80.00%	80.00%

ZONAL LUMEN SUMMARY

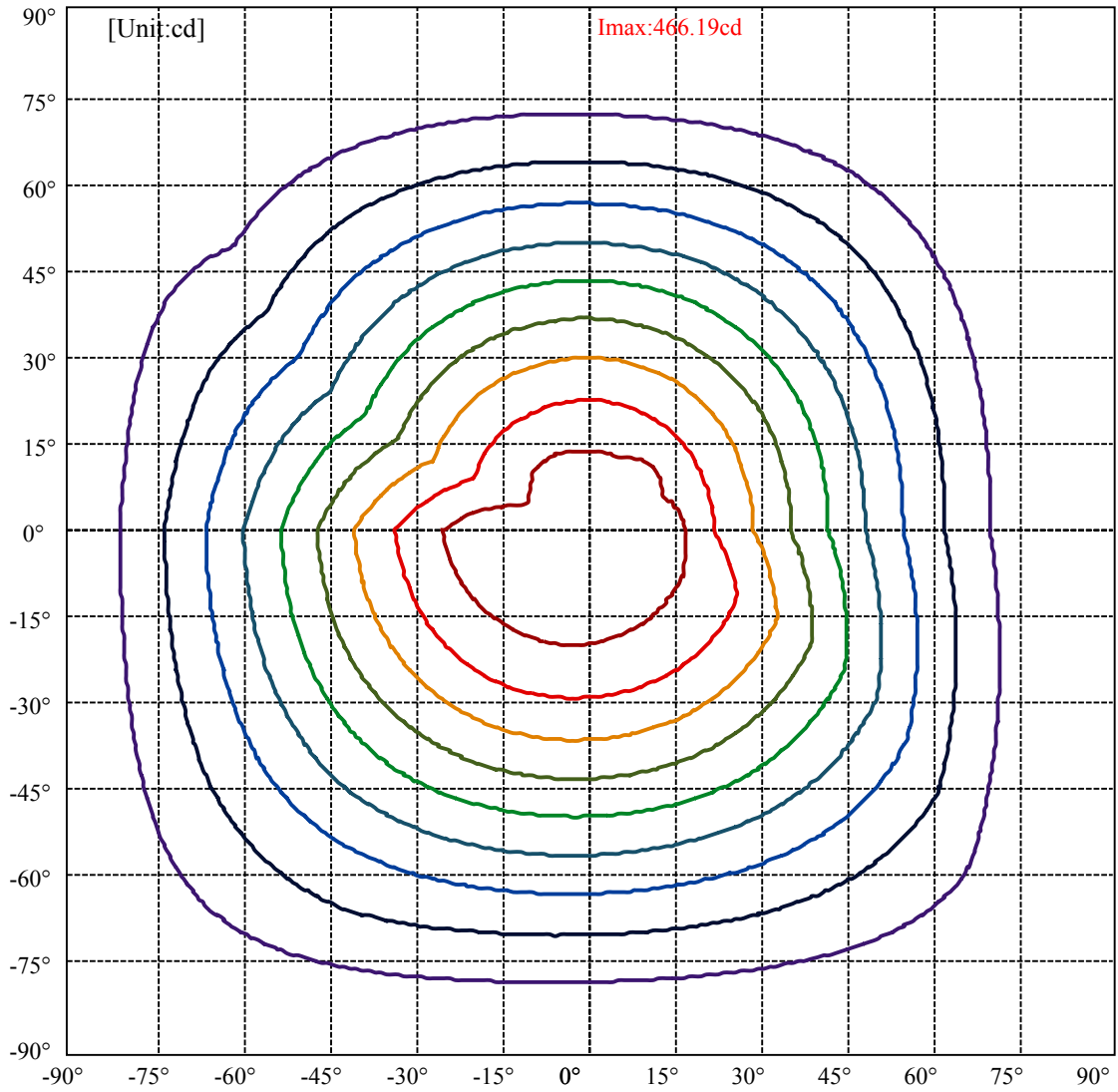
0-10	42.68
10-20	120.41
20-30	174.43
30-40	197.18
40-50	188.85
50-60	155.36
60-70	105.83
70-80	51.54
80-90	12.48
90-100	0.89
100-110	0.19
110-120	0.20
120-130	0.22
130-140	0.27
140-150	0.25
150-160	0.21
160-170	0.14
170-180	0.04

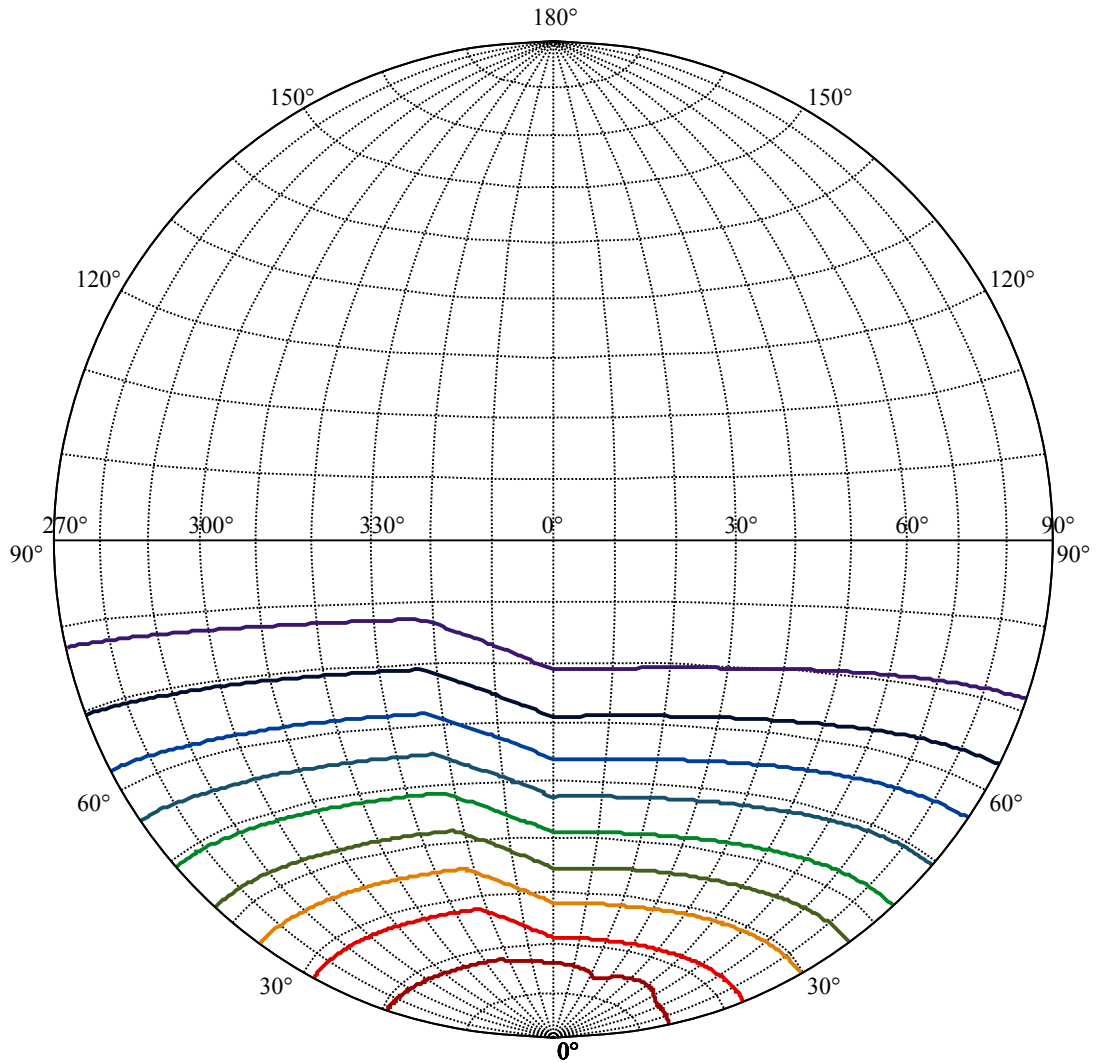


C0/C180: —
C90/C270: —
Field angle(10%Imax):C0/180Left:75.7 Right:73.8
:C90/270Left:77.8 Right:71.7
Beam Angle(50%Imax):C0/180Left:48.1 Right:45.9
:C90/270Left:50.0 Right:43.8



Max , Ave Beam angle of C180 plane 96.17














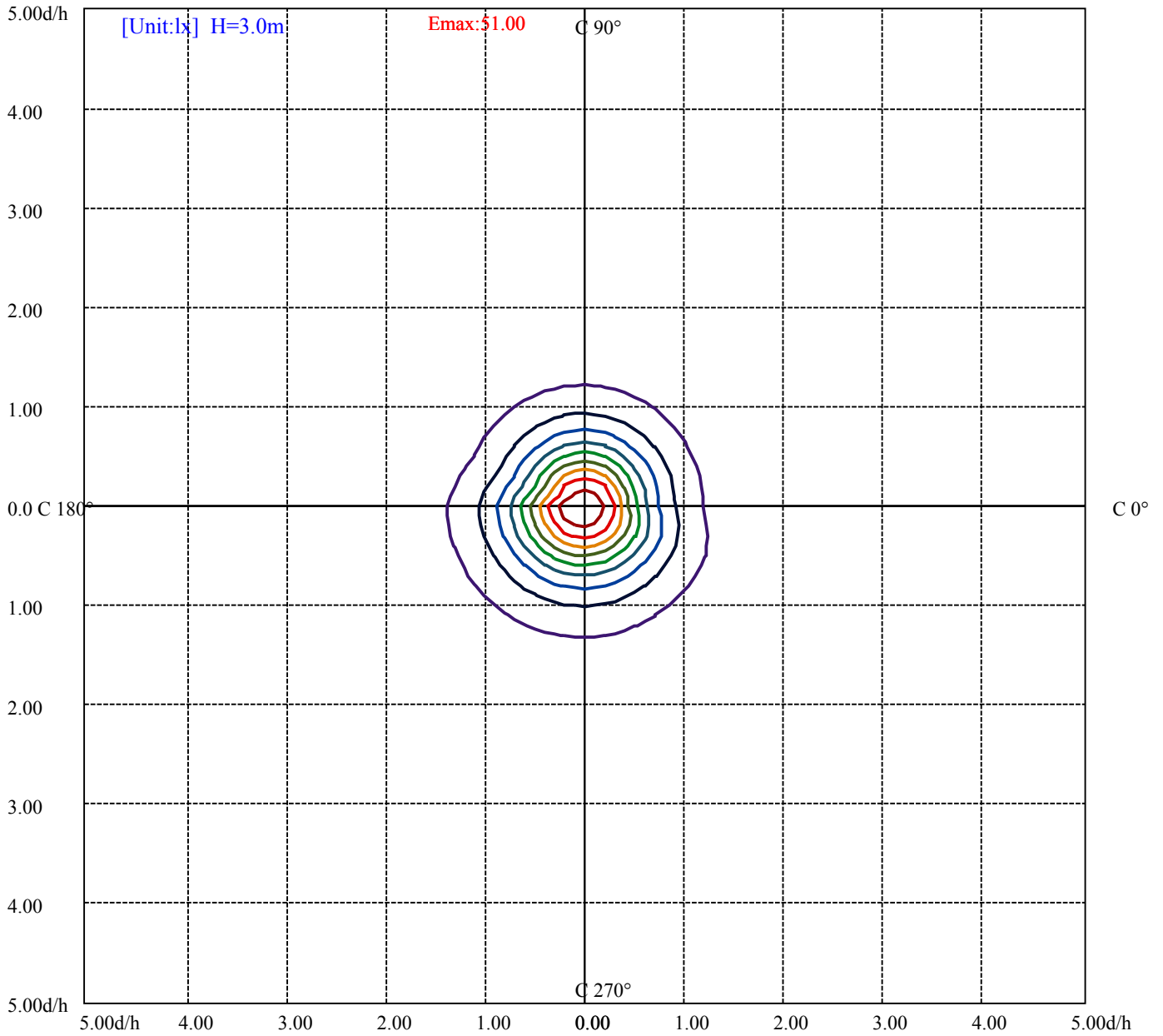
House

[Unit:cd]

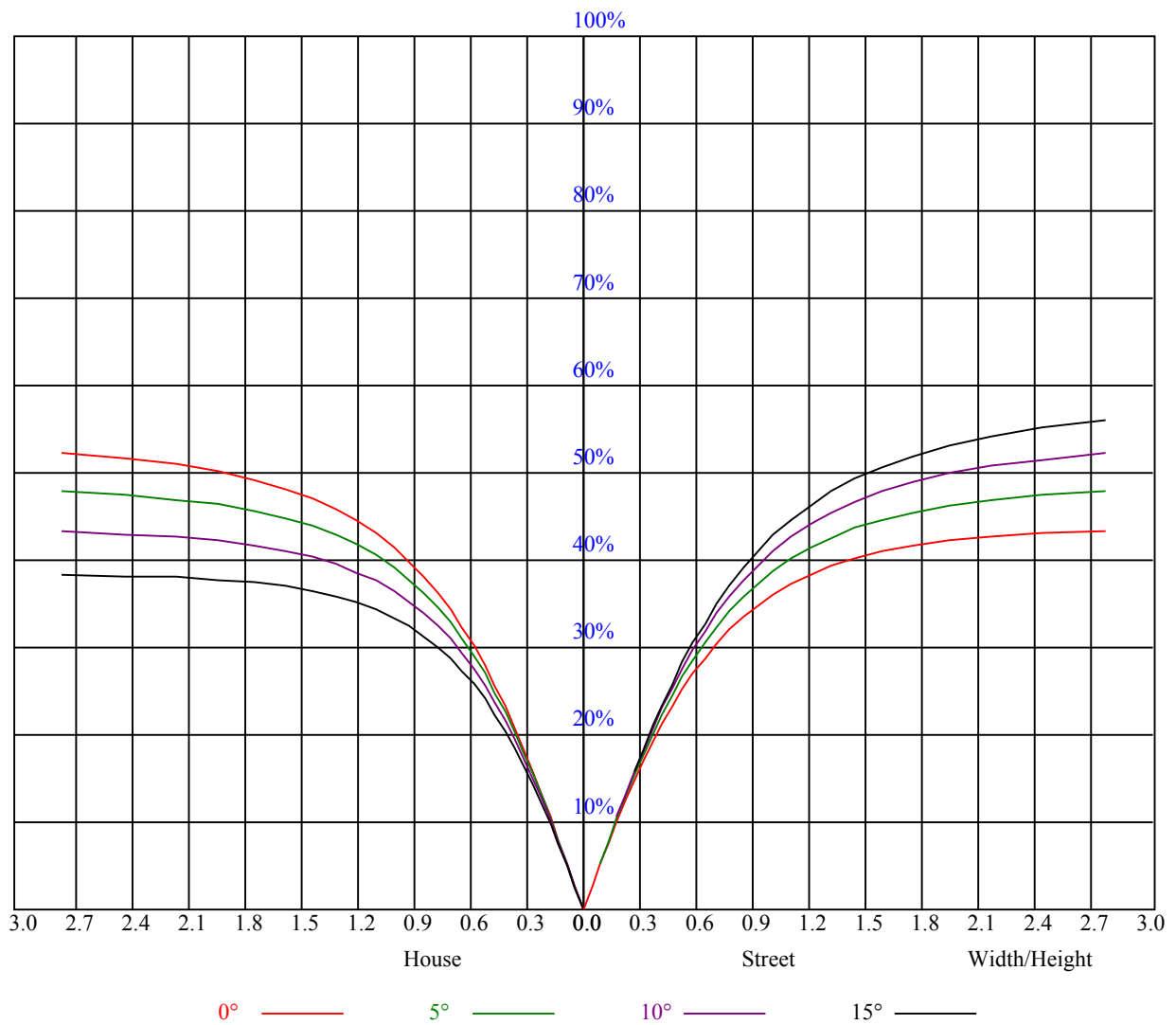
Road

Imax:466.19

(10%Imax) 46.6192	
(20%Imax) 93.2384	
(30%Imax) 139.858	
(40%Imax) 186.477	
(50%Imax) 233.096	
(60%Imax) 279.715	
(70%Imax) 326.334	
(80%Imax) 372.954	
(90%Imax) 419.573	



(10%Emax) 5.100322	—
(20%Emax) 10.20066	—
(30%Emax) 15.301	—
(40%Emax) 20.40133	—
(50%Emax) 25.50167	—
(60%Emax) 30.602	—
(70%Emax) 35.70222	—
(80%Emax) 40.80256	—
(90%Emax) 45.90289	—



LL6RRG-41K

Intensity data(cd)

C/γ(°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	453.36	449.86	432.32	434.13	381.71	348.43	312.54	276.05	239.95
22.5	453.36	447.04	430.30	415.78	381.91	349.44	313.35	279.47	242.78
45.0	453.36	445.62	430.10	423.65	383.32	351.86	318.59	281.89	246.81
67.5	453.36	444.82	430.91	414.98	385.33	354.48	321.82	286.53	250.64
90.0	453.36	444.42	431.31	414.37	386.95	357.71	324.24	289.35	254.87
112.5	453.36	443.81	429.49	417.80	386.75	357.10	323.83	290.16	254.87
135.0	453.36	441.19	428.49	417.60	386.75	357.10	324.44	289.35	255.08
157.5	453.36	439.58	427.07	402.68	383.72	353.88	321.21	287.34	251.85
180.0	453.36	466.19	464.38	456.31	441.39	420.62	394.81	362.95	329.48
202.5	453.36	461.15	458.53	449.25	434.74	414.17	385.94	354.08	320.61
225.0	453.36	457.52	453.69	443.61	427.07	405.30	378.28	346.22	311.33
247.5	453.36	454.50	449.66	438.97	422.64	399.25	371.62	339.16	304.48
270.0	453.36	452.28	446.63	435.54	417.60	394.21	365.37	332.91	298.83
292.5	453.36	450.67	444.62	432.72	414.17	391.79	361.74	329.28	295.40
315.0	453.36	448.25	441.79	429.70	412.15	388.36	360.53	327.87	293.19
337.5	453.36	447.24	440.99	429.09	411.55	388.36	359.52	327.67	294.60
360.0	453.36	449.86	432.32	434.13	381.71	348.43	312.54	276.05	239.95
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	202.85	166.56	131.47	99.01	68.15	39.72	16.74	5.24	0.00
22.5	206.08	169.78	135.10	102.84	71.99	43.55	19.76	6.25	0.20
45.0	210.11	174.02	140.34	107.27	76.22	48.39	22.99	7.26	0.40
67.5	215.55	179.46	144.58	111.31	80.86	52.02	26.01	8.07	1.41
90.0	217.57	181.88	147.20	114.73	82.27	54.24	28.03	9.28	2.02
112.5	219.18	184.50	149.62	116.35	84.69	56.46	29.84	10.08	2.42
135.0	219.38	183.90	149.01	116.55	85.09	56.26	29.64	10.08	2.82
157.5	216.36	181.07	147.40	114.13	82.87	54.04	28.84	9.68	2.22
180.0	292.98	255.88	218.58	182.89	146.59	112.11	81.06	50.41	24.40
202.5	284.72	247.82	210.92	175.83	140.14	107.07	74.61	45.77	20.97
225.0	275.44	240.15	203.86	168.77	133.49	106.06	70.17	41.34	17.74
247.5	268.58	232.29	197.20	161.51	126.63	94.97	64.32	36.50	14.72
270.0	263.14	226.85	192.37	156.67	122.40	89.93	60.69	33.47	12.10
292.5	259.71	223.82	188.13	152.64	119.77	87.71	58.68	32.46	11.49
315.0	258.70	223.01	187.53	152.44	120.58	87.31	57.47	32.26	11.70
337.5	258.91	223.22	188.13	152.84	120.18	88.12	59.08	32.26	12.10
360.0	202.85	166.56	131.47	99.01	68.15	39.72	16.74	5.24	0.00
C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	0.00	0.00	0.00	0.00	0.20	0.20	0.20	0.20	0.20
22.5	0.00	0.00	0.00	0.20	0.20	0.20	0.20	0.20	0.40
45.0	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.40
67.5	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.40
90.0	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.40	0.40
112.5	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.40
135.0	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.40	0.40
157.5	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.40	0.40
180.0	7.86	0.61	0.00	0.00	0.00	0.20	0.20	0.20	0.20
202.5	6.65	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
225.0	5.65	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
247.5	4.23	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
270.0	3.43	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
292.5	2.82	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
315.0	3.23	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.40
337.5	3.63	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.40
360.0	0.00	0.00	0.00	0.00	0.20	0.20	0.20	0.20	0.20

LL6RRG-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	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
22.5	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.61	0.61
45.0	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.61	0.61
67.5	0.40	0.40	0.40	0.40	0.40	0.40	0.61	0.61	0.61
90.0	0.40	0.40	0.40	0.40	0.61	0.40	0.40	0.61	0.61
112.5	0.40	0.40	0.40	0.40	0.40	0.61	0.61	0.61	0.61
135.0	0.40	0.40	0.40	0.61	0.61	0.61	0.61	0.61	0.61
157.5	0.40	0.40	0.40	0.61	0.61	0.61	0.61	0.61	0.61
180.0	0.20	0.20	0.40	0.40	0.40	0.40	0.40	0.40	0.40
202.5	0.20	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
225.0	0.20	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
247.5	0.20	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.61
270.0	0.40	0.40	0.40	0.40	0.40	0.61	0.61	0.61	0.61
292.5	0.40	0.40	0.40	0.40	0.40	0.40	0.61	0.61	0.61
315.0	0.40	0.40	0.40	0.40	0.40	0.61	0.61	0.61	0.61
337.5	0.40	0.40	0.40	0.40	0.61	0.61	0.61	0.61	0.61
360.0	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40

C/γ(°)	180.0
0.0	0.52
22.5	0.52
45.0	0.52
67.5	0.52
90.0	0.52
112.5	0.52
135.0	0.52
157.5	0.52
180.0	0.52
202.5	0.52
225.0	0.52
247.5	0.52
270.0	0.52
292.5	0.52
315.0	0.52
337.5	0.52
360.0	0.52