



Shenzhen Belling Efficiency Testing Laboratory Co.,Ltd.  
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LumCAT: LB8R 30K

Luminaire:

Report No:

Voltage(V): 120.06

Test No:

Current(A): 0.1444

LampCAT:

Power (W): 17.1310

Lamp flux(lm): 1206.3

PF: 0.9883

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): 1206.33

Efficiency(%): 100.00%

Lumens(lm)/Power(W): 70.42

Central intensity(cd): 439.417

Maximum intensity(cd): 449.317

Angle of maximum intensity: C=180.0  $\gamma$ =5.0

Beam Angle(50%Imax): [C0/180]Total=106.5

[C90/270]Total=106.5

Field angle(10%Imax): [C0/180]Total=159.7

[C90/270]Total=159.7

Maximum s/h(1/2): C0\_180=1.31 C90\_270=1.13

Maximum s/h(1/4): C0\_180=1.41 C90\_270=1.24

Up flux rate of lamp(%): 0.42%

Down flux rate of lamp(%): 98.70%

Up flux rate of LUM(%): -0.46%

Down flux rate of LUM(%): 99.58%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 79.291%

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

Date:  
Humidity(%): 58%

Operator: Sam

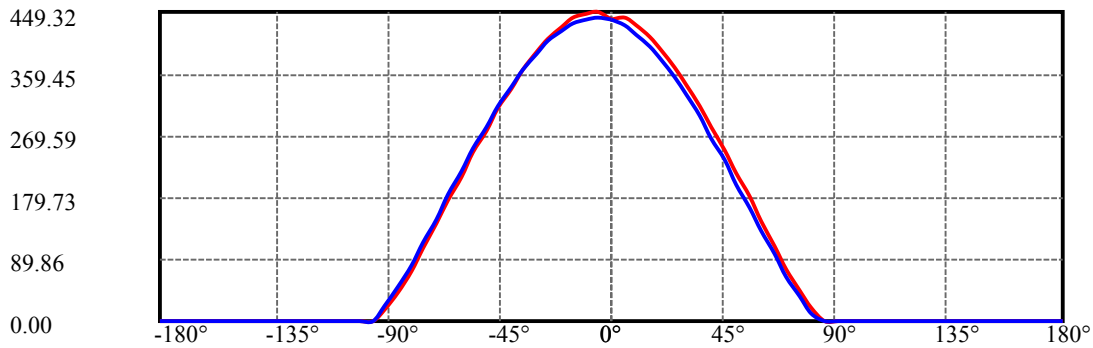
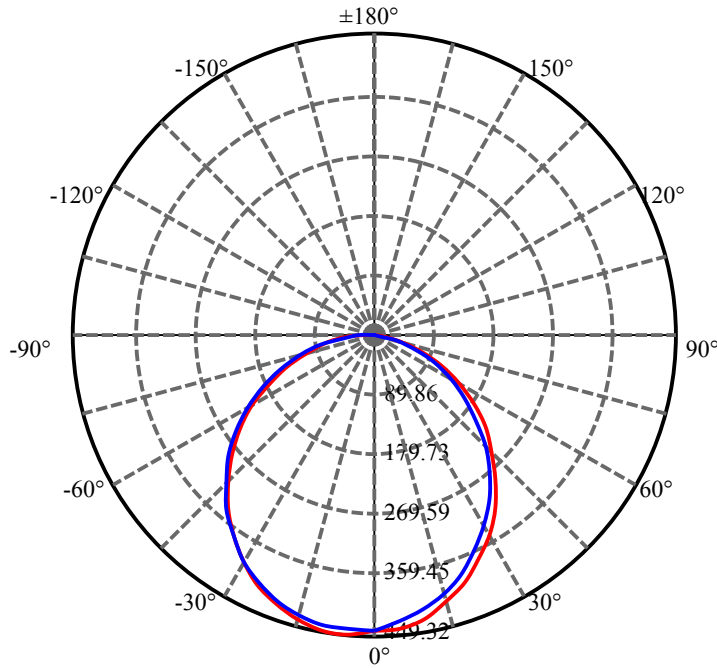
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	439.417	0.000	0	.000%	.000%
5.0	436.610	10.476	10.476	.868%	.868%
10.0	429.720	31.021	41.497	2.572%	3.440%
15.0	418.481	50.397	91.894	4.178%	7.618%
20.0	402.965	67.855	159.749	5.625%	13.243%
25.0	383.043	82.689	242.439	6.855%	20.097%
30.0	360.270	94.427	336.866	7.828%	27.925%
35.0	333.825	102.676	439.542	8.512%	36.436%
40.0	305.122	107.178	546.72	8.885%	45.321%
45.0	274.103	107.932	654.651	8.947%	54.268%
50.0	241.982	105.061	759.713	8.709%	62.977%
55.0	208.464	98.805	858.517	8.191%	71.168%
60.0	174.918	89.554	948.072	7.424%	78.591%
65.0	140.835	77.752	1025.824	6.445%	85.037%
70.0	107.303	63.856	1089.68	5.293%	90.330%
75.0	75.140	48.708	1138.388	4.038%	94.368%
80.0	45.985	33.364	1171.752	2.766%	97.134%
85.0	23.649	19.735	1191.486	1.636%	98.770%
90.0	9.799	9.651	1201.137	.800%	99.570%
95.0	0.466	2.944	1204.081	.244%	99.814%
100.0	0.254	0.200	1204.281	.017%	99.830%
105.0	0.254	0.140	1204.421	.012%	99.842%
110.0	0.283	0.144	1204.565	.012%	99.854%
115.0	0.325	0.157	1204.722	.013%	99.867%
120.0	0.381	0.175	1204.897	.015%	99.881%
125.0	0.424	0.188	1205.085	.016%	99.897%
130.0	0.452	0.190	1205.275	.016%	99.913%
135.0	0.452	0.183	1205.458	.015%	99.928%
140.0	0.452	0.167	1205.625	.014%	99.942%
145.0	0.452	0.151	1205.776	.013%	99.954%
150.0	0.466	0.135	1205.911	.011%	99.965%
155.0	0.480	0.120	1206.031	.010%	99.975%
160.0	0.509	0.104	1206.135	.009%	99.984%
165.0	0.480	0.081	1206.216	.007%	99.991%
170.0	0.509	0.059	1206.275	.005%	99.996%
175.0	0.593	0.039	1206.314	.003%	99.999%
180.0	0.625	0.014	1206.329	.001%	100.000%

## ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	336.87	27.93%	27.92%
0-40	546.72	45.32%	45.32%
0-60	948.07	78.59%	78.59%
0-90	1201.14	99.57%	99.57%
0-120	1204.90	99.88%	99.88%
0-180	1206.33	100.00%	100.00%
60-90	342.62	28.40%	28.40%
90-120	13.41	1.11%	1.11%
90-130	13.79	1.14%	1.14%
90-150	14.43	1.20%	1.20%
90-180	14.83	1.23%	1.23%
0-61.09	965.06	80.00%	80.00%

## ZONAL LUMEN SUMMARY

0-10	41.50
10-20	118.25
20-30	177.12
30-40	209.85
40-50	212.99
50-60	188.36
60-70	141.61
70-80	82.07
80-90	29.39
90-100	3.14
100-110	0.28
110-120	0.33
120-130	0.38
130-140	0.35
140-150	0.29
150-160	0.22
160-170	0.14
170-180	0.04

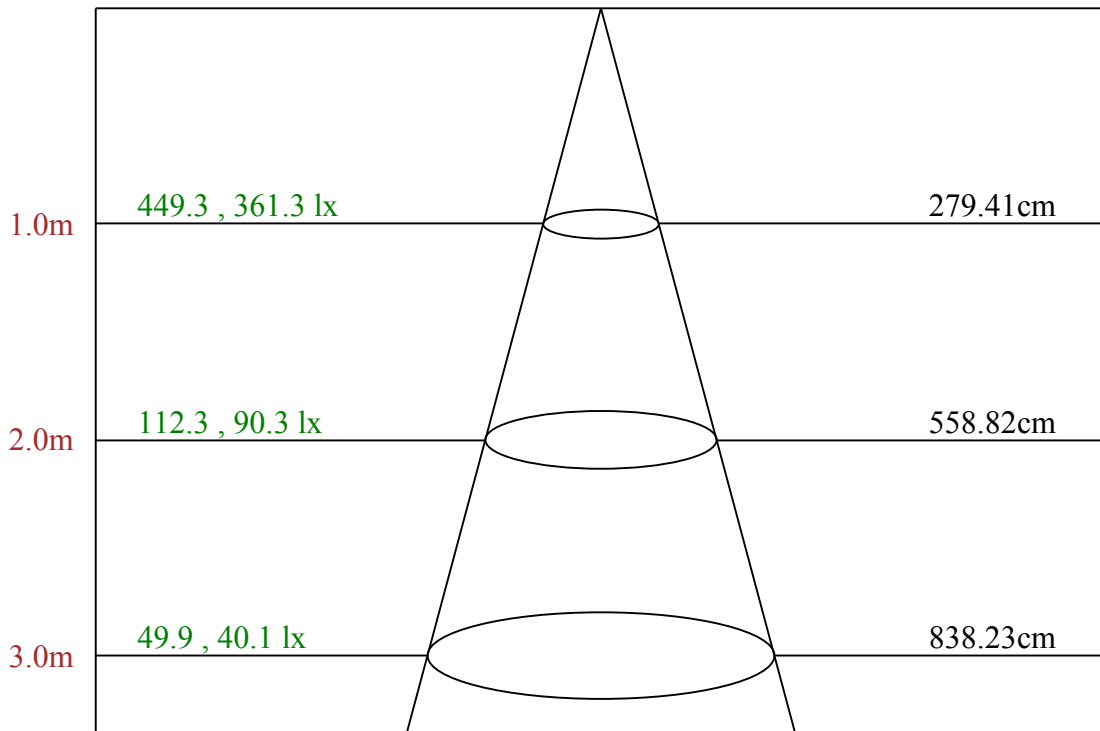


C0/C180: —

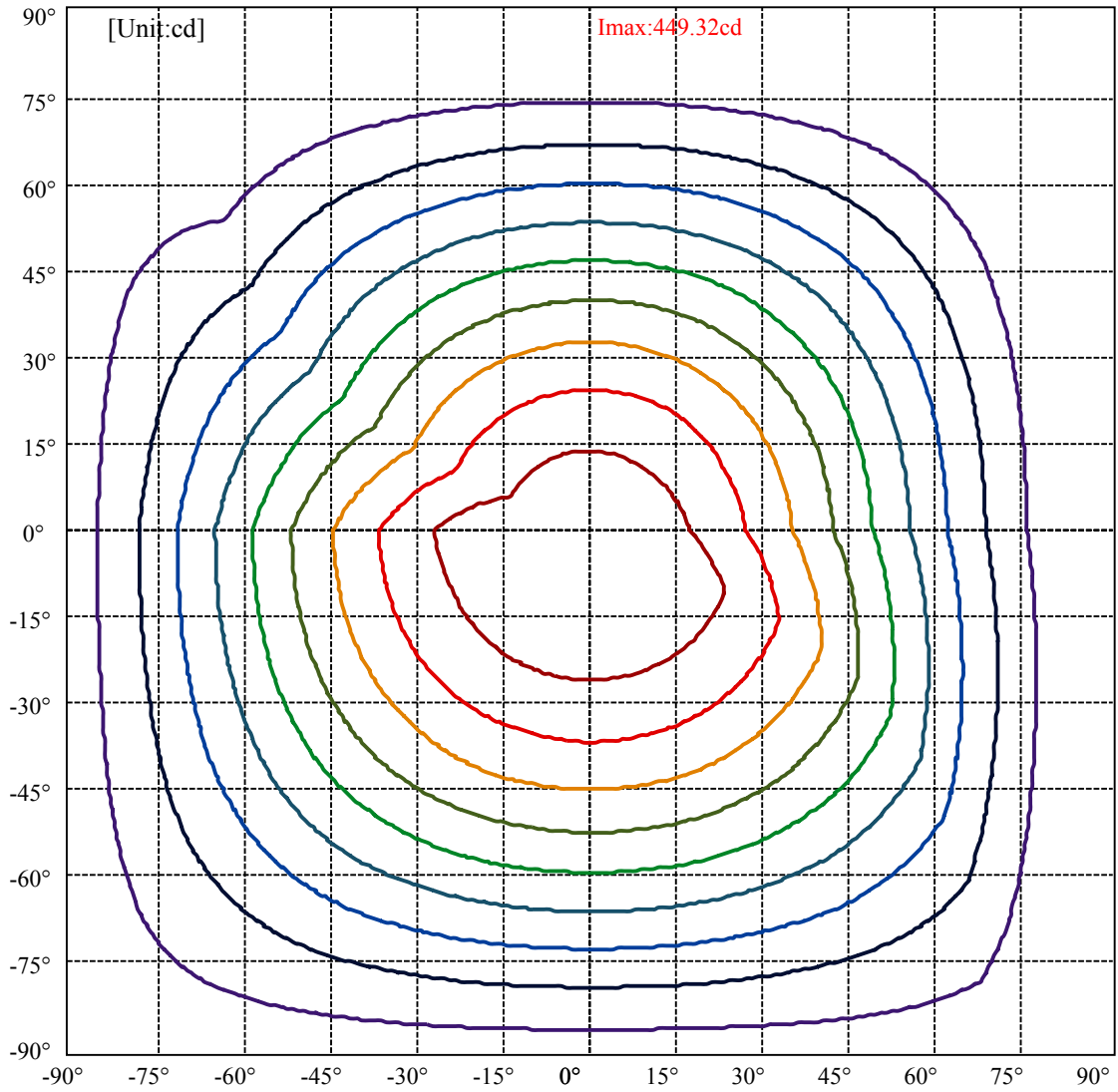
C90/C270: —

Field angle(10%Imax):C0/180Left:79.6 Right:80.1  
:C90/270Left:81.0 Right:78.7

Beam Angle(50%Imax):C0/180Left:52.9 Right:53.6  
:C90/270Left:54.5 Right:52.0



Max , Ave      Beam angle of C180 plane 107.77

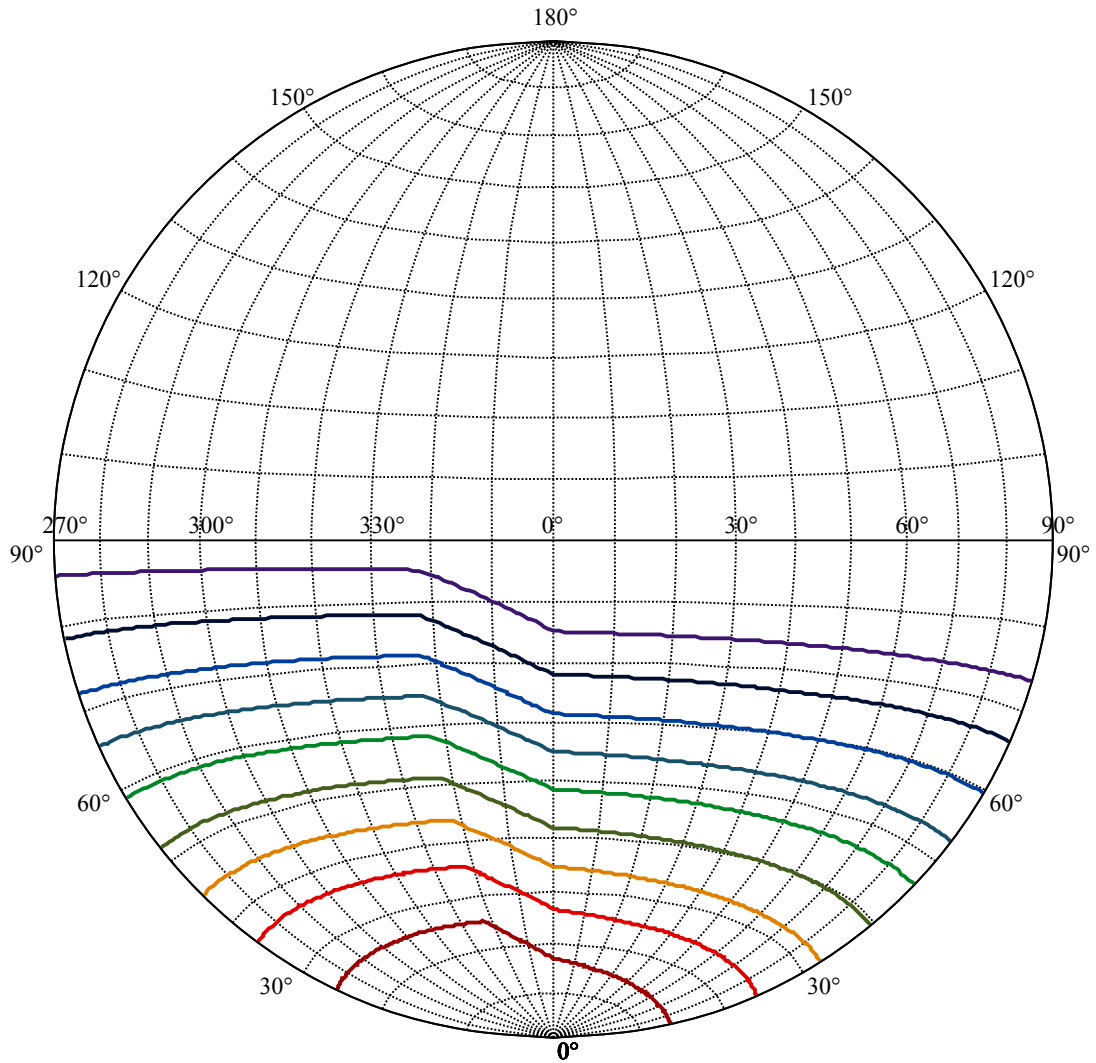


(10%I <sub>max</sub> )	44.9317	—
(20%I <sub>max</sub> )	89.8634	—
(30%I <sub>max</sub> )	134.795	—
(40%I <sub>max</sub> )	179.727	—
(50%I <sub>max</sub> )	224.658	—
(60%I <sub>max</sub> )	269.59	—
(70%I <sub>max</sub> )	314.522	—
(80%I <sub>max</sub> )	359.454	—
(90%I <sub>max</sub> )	404.385	—

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

Date:  
Humidity(%): 58%

Operator: Sam



House

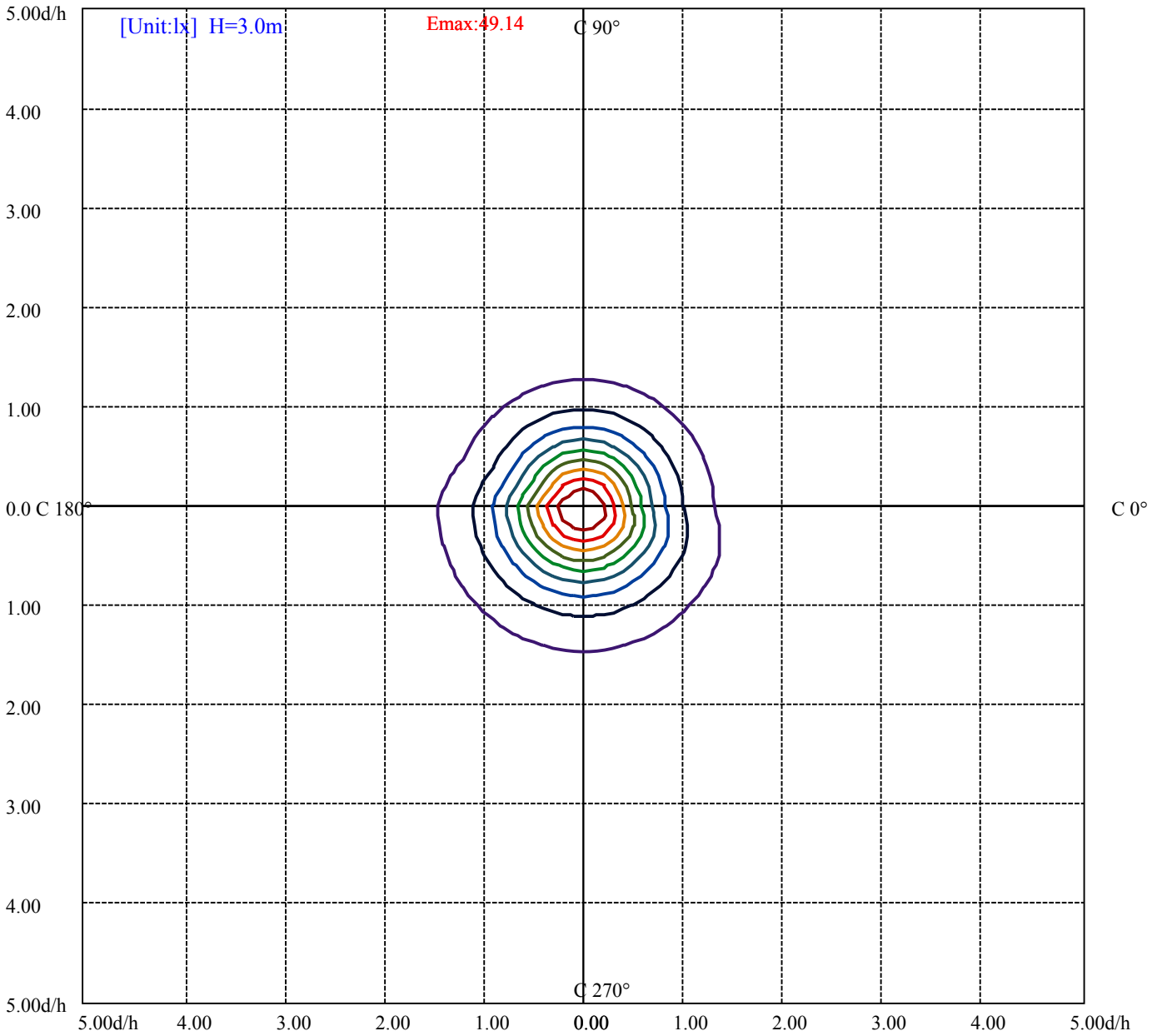
[Unit:cd]

Road

Imax:449.32

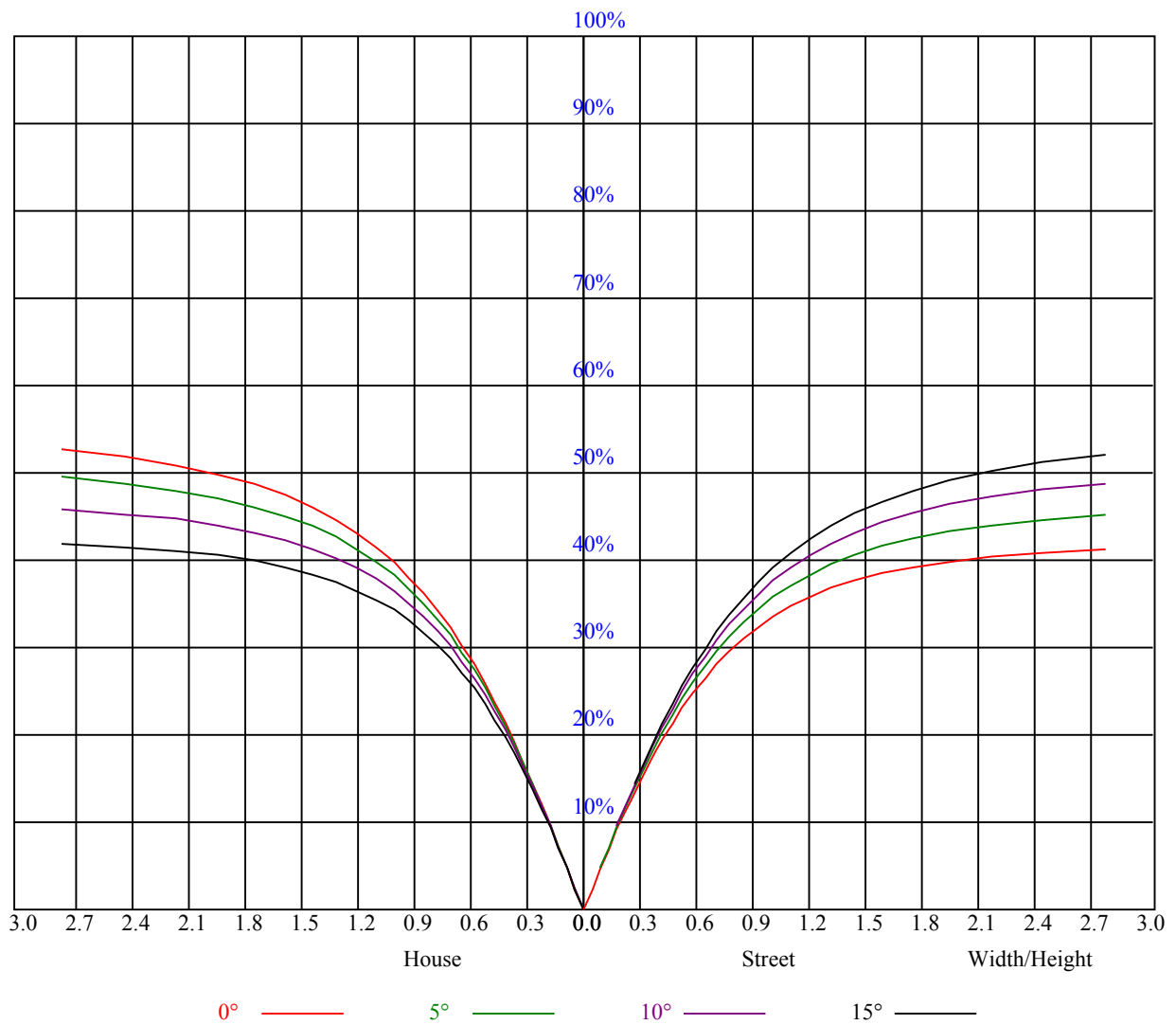
- (10%Imax) 44.9317
- (20%Imax) 89.8634
- (30%Imax) 134.795
- (40%Imax) 179.727
- (50%Imax) 224.658
- (60%Imax) 269.59
- (70%Imax) 314.522
- (80%Imax) 359.454
- (90%Imax) 404.385





- (10%Emax) 4.9142
- (20%Emax) 9.828411
- (30%Emax) 14.74267
- (40%Emax) 19.65678
- (50%Emax) 24.571
- (60%Emax) 29.48522
- (70%Emax) 34.39944
- (80%Emax) 39.31367
- (90%Emax) 44.22789





## LB8R 30K

Appendix Page: 10 Total:11

## 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	439.42	440.28	428.99	412.95	393.07	368.22	342.92	313.33	281.47
22.5	439.42	433.50	421.98	405.94	385.61	360.76	335.46	306.10	274.70
45.0	439.42	429.89	417.69	402.10	381.77	357.83	330.49	301.80	270.40
67.5	439.42	428.53	416.11	400.07	380.42	356.02	328.69	298.64	267.92
90.0	439.42	428.53	416.34	399.62	379.29	354.89	328.69	298.19	266.11
112.5	439.42	428.99	417.01	400.30	379.51	355.57	328.91	297.96	266.79
135.0	439.42	430.12	417.69	401.88	382.00	356.92	330.27	301.13	269.27
157.5	439.42	431.25	419.50	403.46	384.03	360.31	332.98	302.93	271.76
180.0	439.42	449.32	446.61	439.60	427.18	410.91	391.26	366.19	338.85
202.5	439.42	442.77	440.73	434.41	423.34	406.62	388.10	364.38	337.72
225.0	439.42	440.51	438.93	432.60	421.76	406.40	387.42	364.60	337.95
247.5	439.42	439.83	438.02	432.37	422.21	407.07	388.10	365.06	339.98
270.0	439.42	439.83	438.70	432.60	422.21	407.07	388.78	366.41	341.56
292.5	439.42	440.06	438.93	432.60	422.44	407.30	388.55	366.19	340.66
315.0	439.42	440.96	439.15	432.83	421.76	407.07	387.42	365.28	339.30
337.5	439.42	441.41	439.15	432.37	420.85	405.72	386.29	363.02	337.50
360.0	439.42	440.28	428.99	412.95	393.07	368.22	342.92	313.33	281.47
C/ $\gamma$ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	248.27	215.06	180.04	144.80	109.79	76.58	45.41	18.75	0.23
22.5	242.62	208.73	173.94	139.38	105.95	72.29	42.02	16.27	0.23
45.0	237.42	203.31	169.88	135.32	101.20	68.22	39.53	14.46	0.23
67.5	235.16	200.60	166.49	133.06	98.95	66.42	37.27	12.88	0.23
90.0	233.58	199.47	164.68	131.47	97.59	65.51	36.37	11.97	0.23
112.5	233.58	200.37	165.81	131.25	97.59	66.42	37.05	12.65	0.45
135.0	235.84	201.28	168.07	133.51	99.40	67.09	38.63	13.78	0.45
157.5	238.55	204.44	168.52	136.22	102.11	69.58	39.76	15.36	0.45
180.0	309.03	277.63	244.43	210.09	175.07	140.96	105.95	72.29	42.47
202.5	307.90	278.08	245.33	211.44	176.88	142.77	107.98	74.32	44.50
225.0	309.26	279.44	246.91	213.48	180.27	145.25	110.01	77.48	46.54
247.5	311.52	280.57	248.49	216.19	182.08	146.84	112.95	79.29	49.02
270.0	311.97	282.15	249.85	216.87	183.66	148.64	113.63	79.97	49.70
292.5	311.97	282.38	249.17	217.32	182.98	147.97	113.18	80.65	49.25
315.0	310.39	280.80	248.27	215.06	180.95	147.29	112.27	78.84	48.57
337.5	308.58	277.41	245.55	213.25	178.91	145.03	110.24	76.81	45.86
360.0	248.27	215.06	180.04	144.80	109.79	76.58	45.41	18.75	0.23
C/ $\gamma$ (°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	0.23	0.23	0.23	0.23	0.23	0.45	0.45	0.45	0.45
22.5	0.23	0.23	0.23	0.23	0.23	0.45	0.45	0.45	0.45
45.0	0.23	0.23	0.23	0.23	0.23	0.45	0.45	0.45	0.45
67.5	0.23	0.23	0.23	0.23	0.23	0.45	0.45	0.45	0.45
90.0	0.23	0.23	0.23	0.23	0.23	0.45	0.45	0.45	0.45
112.5	0.23	0.23	0.23	0.23	0.23	0.45	0.45	0.45	0.45
135.0	0.23	0.23	0.23	0.23	0.45	0.45	0.45	0.45	0.45
157.5	0.23	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
180.0	15.59	0.45	0.45	0.45	0.45	0.68	0.68	0.45	0.45
202.5	17.39	0.45	0.23	0.23	0.45	0.45	0.45	0.45	0.45
225.0	18.98	0.45	0.23	0.23	0.23	0.23	0.23	0.45	0.45
247.5	20.33	0.90	0.23	0.23	0.23	0.23	0.23	0.45	0.45
270.0	21.91	1.13	0.23	0.23	0.23	0.23	0.23	0.23	0.45
292.5	21.46	0.90	0.23	0.23	0.23	0.23	0.23	0.23	0.45
315.0	20.78	0.68	0.23	0.23	0.23	0.23	0.23	0.45	0.45
337.5	18.52	0.45	0.23	0.23	0.23	0.23	0.23	0.45	0.45
360.0	0.23	0.23	0.23	0.23	0.23	0.45	0.45	0.45	0.45

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

Date:  
 Humidity(%): 58%

Operator: Sam

LB8R 30K

Intensity data(cd)

Appendix Page: 11 Total:11

C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.68
22.5	0.45	0.45	0.45	0.45	0.45	0.68	0.45	0.45	0.68
45.0	0.45	0.45	0.45	0.45	0.68	0.45	0.45	0.45	0.68
67.5	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.68	0.68
90.0	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.68
112.5	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.68
135.0	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.68
157.5	0.45	0.45	0.45	0.68	0.68	0.68	0.68	0.68	0.68
180.0	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
202.5	0.45	0.45	0.45	0.45	0.45	0.68	0.45	0.68	0.68
225.0	0.45	0.45	0.45	0.45	0.45	0.68	0.45	0.68	0.45
247.5	0.45	0.45	0.45	0.45	0.45	0.45	0.68	0.45	0.68
270.0	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
292.5	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
315.0	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
337.5	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
360.0	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.68

C/γ(°)	180.0
0.0	0.63
22.5	0.63
45.0	0.63
67.5	0.63
90.0	0.63
112.5	0.63
135.0	0.63
157.5	0.63
180.0	0.63
202.5	0.63
225.0	0.63
247.5	0.63
270.0	0.63
292.5	0.63
315.0	0.63
337.5	0.63
360.0	0.63