



Shenzhen Belling Efficiency Testing Laboratory Co.,Ltd.
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Client:

LumCAT: LD3R-5CCT-4RSL-2700K

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.05

LampCAT:

Current(A): 0.1210

Lamp flux(lm): -1.0

Power (W): 14.29

Number of Lamps: 1

PF: 0.9844

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1219.36, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 85.35

Central intensity(cd): 424.487, Maximum intensity(cd): 1817.043

Angle of maximum intensity: $C=0.0 \gamma=30.0$

Beam Angle(50%Imax): [C0/180]Total=60.0

[C90/270]Total=45.4

Field angle(10%Imax): [C0/180]Total=77.8

[C90/270]Total=130.7

Maximum s/h(1/2): C0_180=0.29 C90_270=0.70

Maximum s/h(1/4): C0_180=0.64 C90_270=0.86

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 0.00%

Up flux rate of LUM(%): 0.48%

Down flux rate of LUM(%): 99.52%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 91.134%

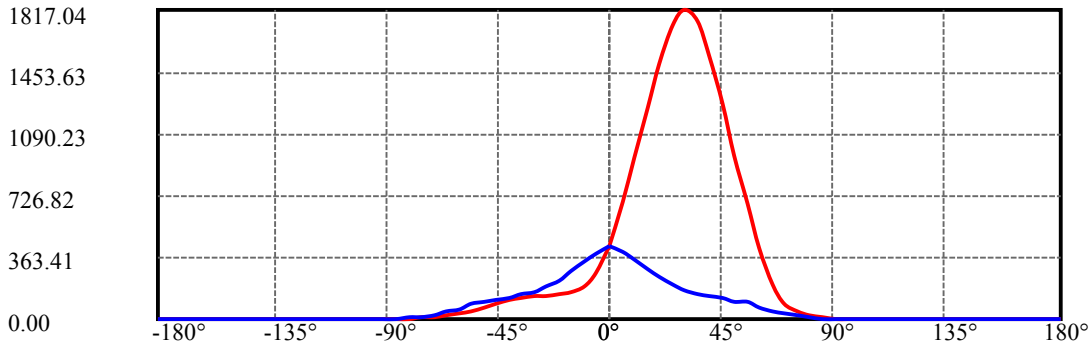
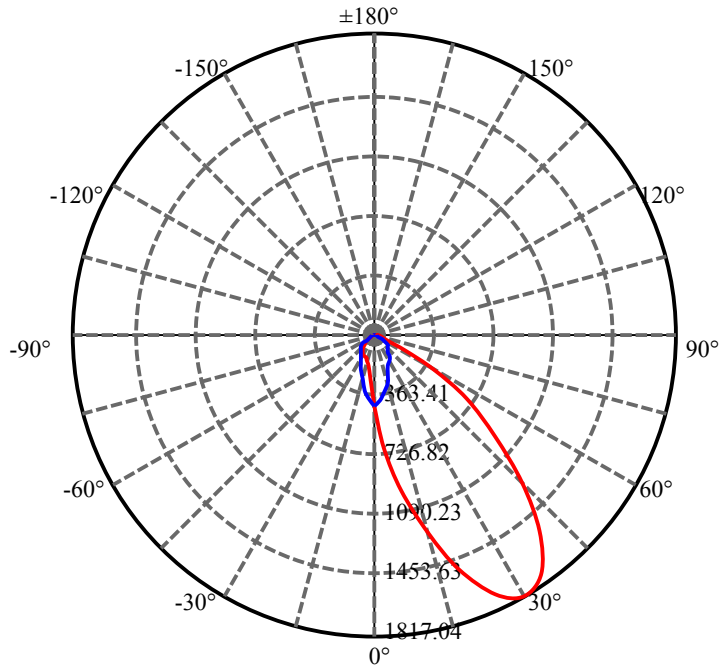
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	424.487	0.000	0	0.00%	0.00%
5.0	435.631	10.282	10.282	0.00%	0.84%
10.0	461.829	32.105	42.387	0.00%	3.48%
15.0	494.325	56.718	99.106	0.00%	8.13%
20.0	518.645	83.483	182.589	0.00%	14.97%
25.0	529.124	109.892	292.48	0.00%	23.99%
30.0	514.146	132.027	424.507	0.00%	34.81%
35.0	469.397	144.834	569.341	0.00%	46.69%
40.0	400.621	145.156	714.497	0.00%	58.60%
45.0	316.442	132.770	847.267	0.00%	69.48%
50.0	235.572	111.543	958.809	0.00%	78.63%
55.0	168.409	87.839	1046.648	0.00%	85.84%
60.0	111.091	64.606	1111.254	0.00%	91.13%
65.0	66.236	43.109	1154.362	0.00%	94.67%
70.0	38.027	26.400	1180.763	0.00%	96.83%
75.0	22.441	15.805	1196.568	0.00%	98.13%
80.0	12.781	9.424	1205.992	0.00%	98.90%
85.0	6.192	5.156	1211.148	0.00%	99.33%
90.0	2.302	2.326	1213.474	0.00%	99.52%
95.0	0.503	0.768	1214.242	0.00%	99.58%
100.0	0.503	0.273	1214.515	0.00%	99.60%
105.0	0.582	0.290	1214.805	0.00%	99.63%
110.0	0.741	0.346	1215.151	0.00%	99.65%
115.0	0.662	0.355	1215.506	0.00%	99.68%
120.0	0.820	0.360	1215.867	0.00%	99.71%
125.0	0.821	0.379	1216.246	0.00%	99.74%
130.0	0.900	0.374	1216.62	0.00%	99.77%
135.0	1.138	0.412	1217.032	0.00%	99.81%
140.0	1.085	0.412	1217.443	0.00%	99.84%
145.0	1.270	0.393	1217.836	0.00%	99.87%
150.0	1.323	0.382	1218.218	0.00%	99.91%
155.0	1.323	0.335	1218.553	0.00%	99.93%
160.0	1.429	0.289	1218.842	0.00%	99.96%
165.0	1.350	0.229	1219.071	0.00%	99.98%
170.0	1.376	0.162	1219.233	0.00%	99.99%
175.0	1.323	0.097	1219.329	0.00%	100.00%
180.0	1.623	0.035	1219.365	0.00%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	424.51	N.A.	34.81%
0-40	714.50	N.A.	58.60%
0-60	1111.25	N.A.	91.13%
0-90	1213.47	N.A.	99.52%
0-120	1215.87	N.A.	99.71%
0-180	1219.36	N.A.	100.00%
60-90	102.22	N.A.	8.38%
90-120	2.39	N.A.	0.20%
90-130	3.15	N.A.	0.26%
90-150	4.74	N.A.	0.39%
90-180	5.86	N.A.	0.48%
0-50.95	975.49	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	42.39
10-20	140.20
20-30	241.92
30-40	289.99
40-50	244.31
50-60	152.44
60-70	69.51
70-80	25.23
80-90	7.48
90-100	1.04
100-110	0.64
110-120	0.72
120-130	0.75
130-140	0.82
140-150	0.77
150-160	0.62
160-170	0.39
170-180	0.10

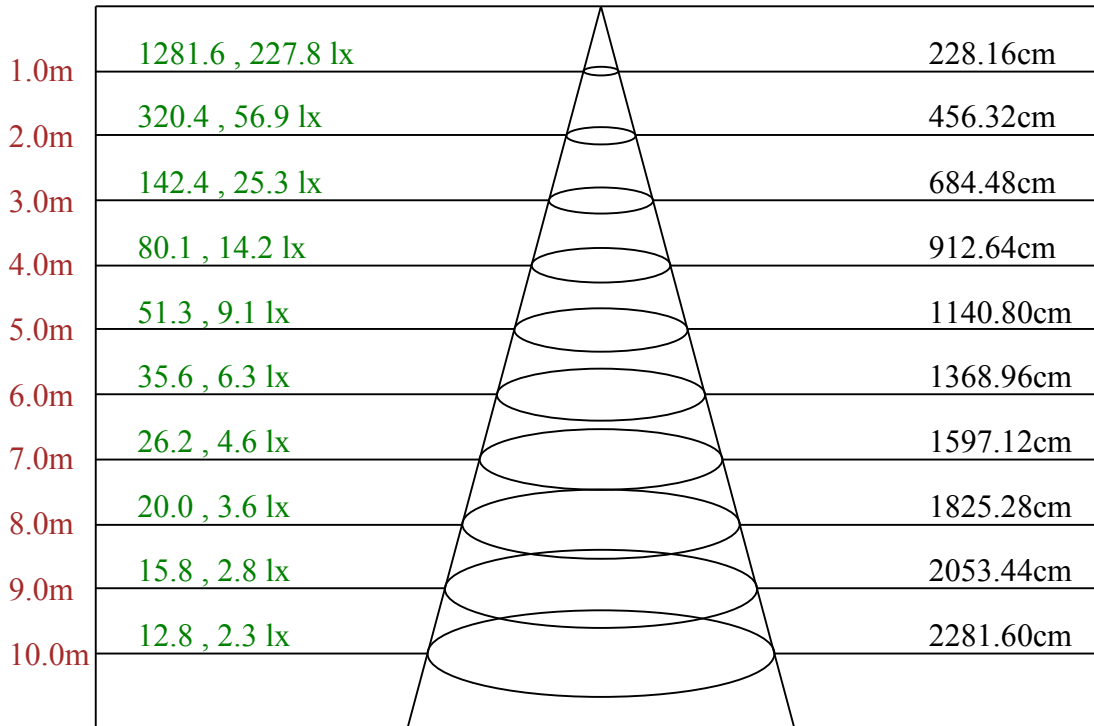


C0/C180: _____

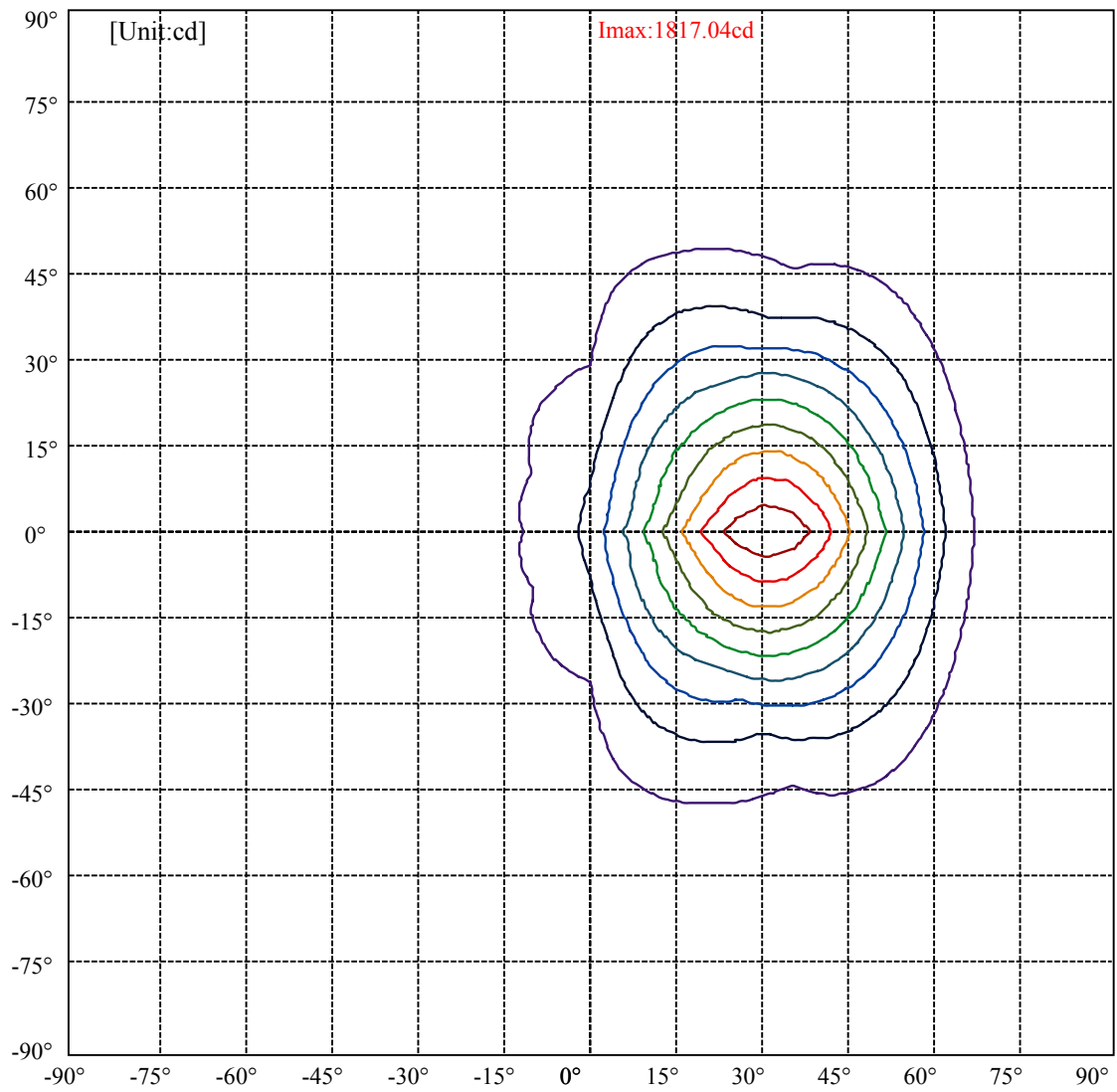
C90/C270: _____










Field angle(10%Imax):C0/180Left:11.7 Right:66.1
:C90/270Left:64.7 Right:66.0

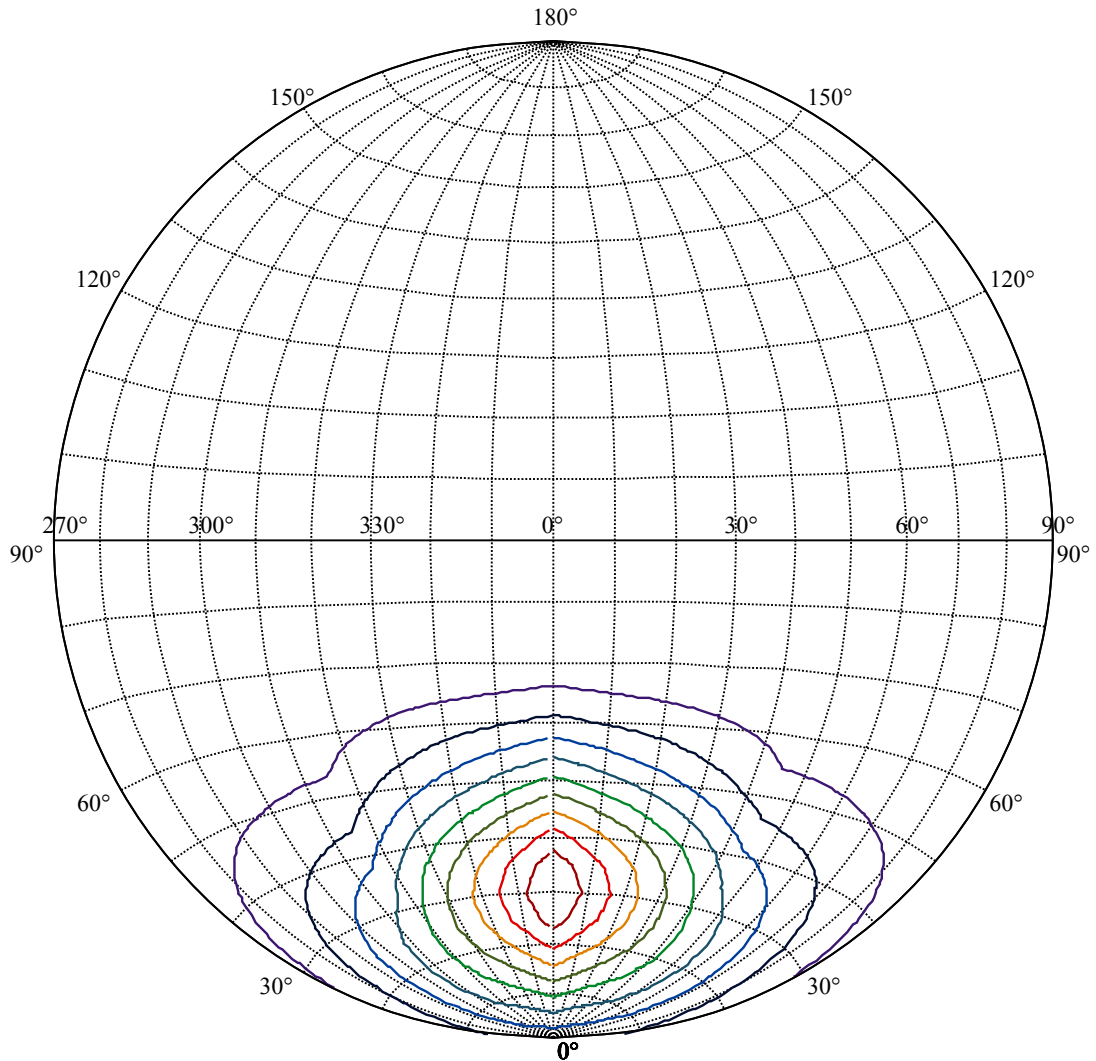
Beam Angle(50%Imax):C0/180Left:9.2 Right:50.8
:C90/270Left:21.5 Right:23.9



Max , Ave Beam angle of C0 plane 97.53



(10%Imax)	181.704	
(20%Imax)	363.409	
(30%Imax)	545.113	
(40%Imax)	726.817	
(50%Imax)	908.521	
(60%Imax)	1090.23	
(70%Imax)	1271.93	
(80%Imax)	1453.63	
(90%Imax)	1635.34	



House

[Unit:cd]

Road

I_{max}:1817.04

(10%I _{max})	181.704	———
(20%I _{max})	363.409	———
(30%I _{max})	545.113	———
(40%I _{max})	726.817	———
(50%I _{max})	908.521	———
(60%I _{max})	1090.23	———
(70%I _{max})	1271.93	———
(80%I _{max})	1453.63	———
(90%I _{max})	1635.34	———

Intensity data(cd)

C/\gamma(^{\circ})	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	424.49	689.30	953.30	1236.77	1503.09	1721.57	1817.04	1747.82	1544.79
45.0	424.49	567.36	707.72	815.90	871.79	868.62	810.40	711.96	576.25
90.0	424.49	390.59	348.04	294.90	243.46	203.23	174.23	152.21	133.58
135.0	424.49	295.11	215.30	176.35	154.33	140.99	133.16	126.18	115.80
180.0	424.49	270.34	192.23	160.47	145.86	139.30	134.64	124.27	109.03
225.0	424.49	294.27	212.55	173.60	151.37	138.67	131.04	123.21	111.99
270.0	424.49	386.78	340.63	280.08	222.92	186.72	161.32	141.63	126.60
315.0	424.49	591.29	724.87	816.54	856.34	833.90	751.33	627.91	486.92
360.0	424.49	689.30	953.30	1236.77	1503.09	1721.57	1817.04	1747.82	1544.79

C/\gamma(^{\circ})	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	1264.08	956.26	674.27	412.40	208.53	89.97	42.13	18.42	6.35
45.0	409.01	270.13	178.47	122.79	78.97	49.75	30.91	16.09	5.08
90.0	119.19	106.91	96.96	69.02	45.52	30.06	17.57	9.10	4.45
135.0	100.14	77.27	55.89	39.80	28.37	18.84	11.64	6.77	3.60
180.0	85.32	62.88	46.36	35.14	24.35	15.88	9.10	4.23	1.27
225.0	94.84	71.34	52.08	36.63	25.62	16.72	9.53	5.08	2.12
270.0	114.32	104.16	85.10	58.85	41.28	26.04	14.18	8.26	4.66
315.0	344.65	235.63	158.14	114.11	77.27	56.95	44.46	34.30	22.02
360.0	1264.08	956.26	674.27	412.40	208.53	89.97	42.13	18.42	6.35

C/\gamma(^{\circ})	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	1.27	0.64	0.42	0.64	0.85	0.85	0.85	0.64	0.85
45.0	1.69	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64
90.0	2.12	0.21	0.42	0.42	0.85	0.21	0.64	0.64	0.64
135.0	0.85	0.21	0.42	0.21	0.42	0.21	0.85	0.64	0.64
180.0	0.00	0.21	0.21	0.42	0.64	0.64	0.85	1.06	1.27
225.0	0.64	0.42	0.21	0.21	0.42	0.85	0.64	1.06	1.06
270.0	1.69	0.85	1.06	1.27	1.27	1.06	1.27	1.06	1.27
315.0	10.16	0.85	0.64	0.85	0.85	0.85	0.85	0.85	0.85
360.0	1.27	0.64	0.42	0.64	0.85	0.85	0.85	0.64	0.85

C/\gamma(^{\circ})	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	0.85	0.64	0.64	0.85	0.85	1.06	1.06	1.06	1.27
45.0	0.64	0.85	1.06	1.06	1.06	1.06	1.06	1.27	1.27
90.0	1.06	0.42	1.06	0.85	0.85	1.06	1.27	1.27	1.27
135.0	0.64	1.06	1.06	1.06	1.27	1.27	1.27	1.06	1.27
180.0	1.69	1.69	2.12	2.12	2.12	1.91	1.69	1.69	1.27
225.0	1.69	1.69	1.91	2.12	2.12	2.33	1.69	1.69	1.48
270.0	1.48	1.48	1.48	1.48	1.48	1.69	1.91	1.91	1.69
315.0	1.06	0.85	0.85	1.06	0.85	1.06	0.85	1.06	1.06
360.0	0.85	0.64	0.64	0.85	0.85	1.06	1.06	1.06	1.27

C/\gamma(^{\circ})	180.0
0.0	1.62
45.0	1.62
90.0	1.62
135.0	1.62
180.0	1.62
225.0	1.62
270.0	1.62
315.0	1.62
360.0	1.62