



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

LumCAT: LD3R-5CCT-4RSL-3000K

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.07

LampCAT:

Current(A): 0.1200

Lamp flux(lm): -1.0

Power (W): 14.15

Number of Lamps: 1

PF: 0.9842

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1258.39, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 88.94

Central intensity(cd): 425.898, Maximum intensity(cd): 1916.331

Angle of maximum intensity: C=0.0 γ =30.0

Beam Angle(50%Imax): [C0/180]Total=60.2

[C90/270]Total=45.0

Field angle(10%Imax): [C0/180]Total=76.3

[C90/270]Total=129.6

Maximum s/h(1/2): C0_180=0.29 C90_270=0.71

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(%): 0.43%

Down flux rate of LUM(%): 99.57%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 91.416%

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

Date:
Humidity(%): 59%

Operator: Tester

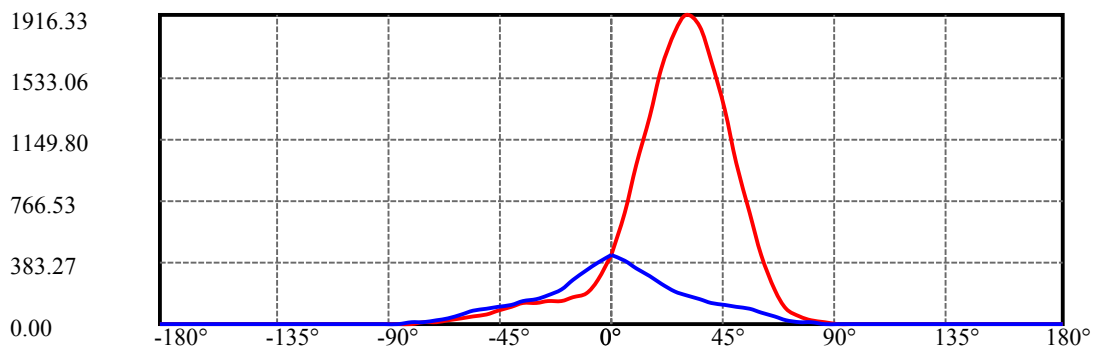
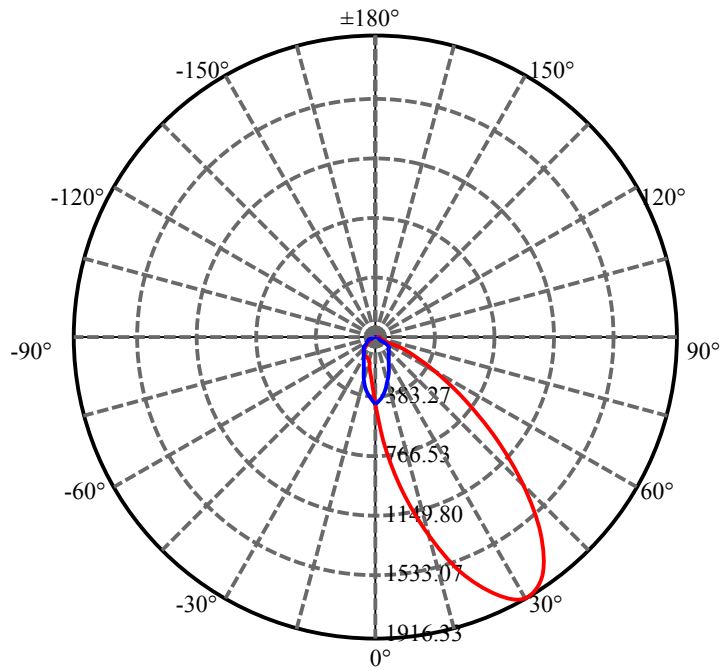
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	425.898	0.000	0	0.00%	0.00%
5.0	435.895	10.302	10.302	0.00%	0.82%
10.0	469.186	32.378	42.68	0.00%	3.39%
15.0	506.472	57.875	100.555	0.00%	7.99%
20.0	536.957	85.993	186.549	0.00%	14.82%
25.0	549.871	113.988	300.537	0.00%	23.88%
30.0	536.534	137.485	438.022	0.00%	34.81%
35.0	490.594	151.252	589.274	0.00%	46.83%
40.0	417.927	151.580	740.854	0.00%	58.87%
45.0	329.383	138.371	879.224	0.00%	69.87%
50.0	242.479	115.553	994.777	0.00%	79.05%
55.0	171.268	89.962	1084.74	0.00%	86.20%
60.0	112.652	65.627	1150.367	0.00%	91.42%
65.0	66.422	43.533	1193.9	0.00%	94.88%
70.0	37.736	26.373	1220.273	0.00%	96.97%
75.0	22.255	15.681	1235.954	0.00%	98.22%
80.0	12.861	9.396	1245.35	0.00%	98.96%
85.0	6.298	5.206	1250.556	0.00%	99.38%
90.0	2.355	2.369	1252.926	0.00%	99.57%
95.0	0.397	0.754	1253.679	0.00%	99.63%
100.0	0.450	0.230	1253.909	0.00%	99.64%
105.0	0.529	0.262	1254.171	0.00%	99.67%
110.0	0.503	0.270	1254.441	0.00%	99.69%
115.0	0.635	0.288	1254.729	0.00%	99.71%
120.0	0.688	0.322	1255.051	0.00%	99.73%
125.0	0.741	0.330	1255.381	0.00%	99.76%
130.0	0.900	0.357	1255.738	0.00%	99.79%
135.0	1.085	0.401	1256.139	0.00%	99.82%
140.0	1.112	0.407	1256.546	0.00%	99.85%
145.0	1.217	0.389	1256.934	0.00%	99.88%
150.0	1.217	0.359	1257.293	0.00%	99.91%
155.0	1.297	0.318	1257.611	0.00%	99.94%
160.0	1.297	0.272	1257.883	0.00%	99.96%
165.0	1.297	0.214	1258.097	0.00%	99.98%
170.0	1.350	0.157	1258.254	0.00%	99.99%
175.0	1.429	0.099	1258.353	0.00%	100.00%
180.0	1.364	0.033	1258.386	0.00%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	438.02	N.A.	34.81%
0-40	740.85	N.A.	58.87%
0-60	1150.37	N.A.	91.42%
0-90	1252.93	N.A.	99.57%
0-120	1255.05	N.A.	99.73%
0-180	1258.39	N.A.	100.00%
60-90	102.56	N.A.	8.15%
90-120	2.13	N.A.	0.17%
90-130	2.81	N.A.	0.22%
90-150	4.37	N.A.	0.35%
90-180	5.43	N.A.	0.43%
0-50.66	1006.71	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	42.68
10-20	143.87
20-30	251.47
30-40	302.83
40-50	253.92
50-60	155.59
60-70	69.91
70-80	25.08
80-90	7.58
90-100	0.98
100-110	0.53
110-120	0.61
120-130	0.69
130-140	0.81
140-150	0.75
150-160	0.59
160-170	0.37
170-180	0.10

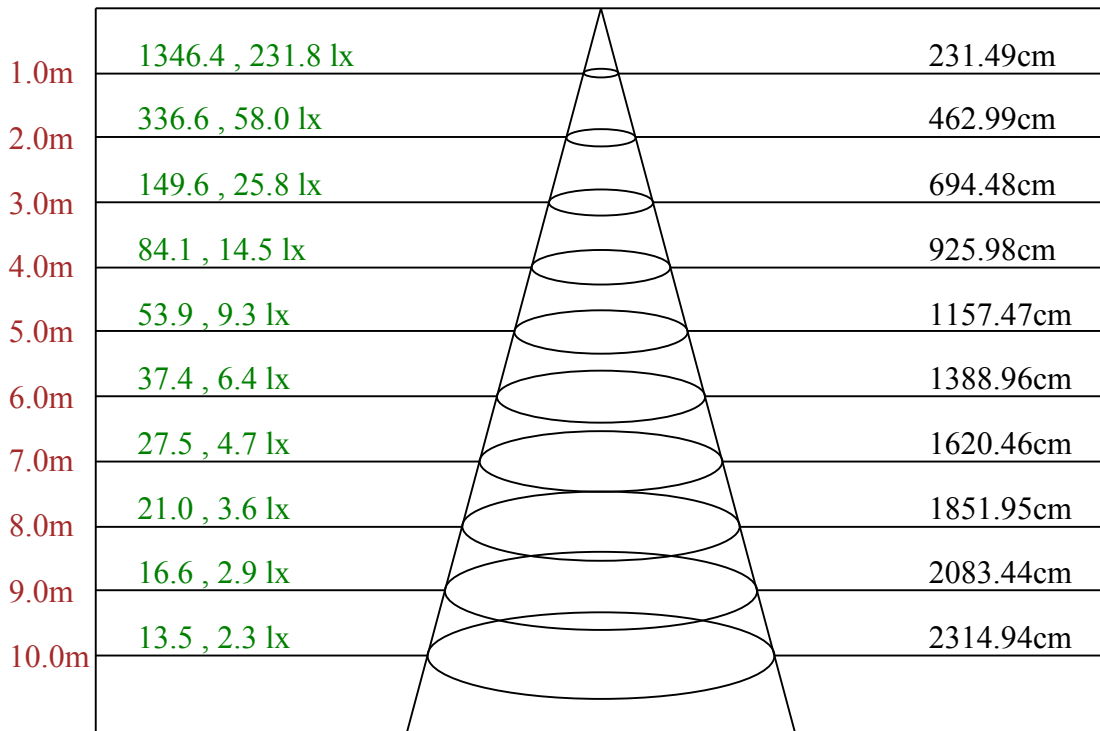


C0/C180: —

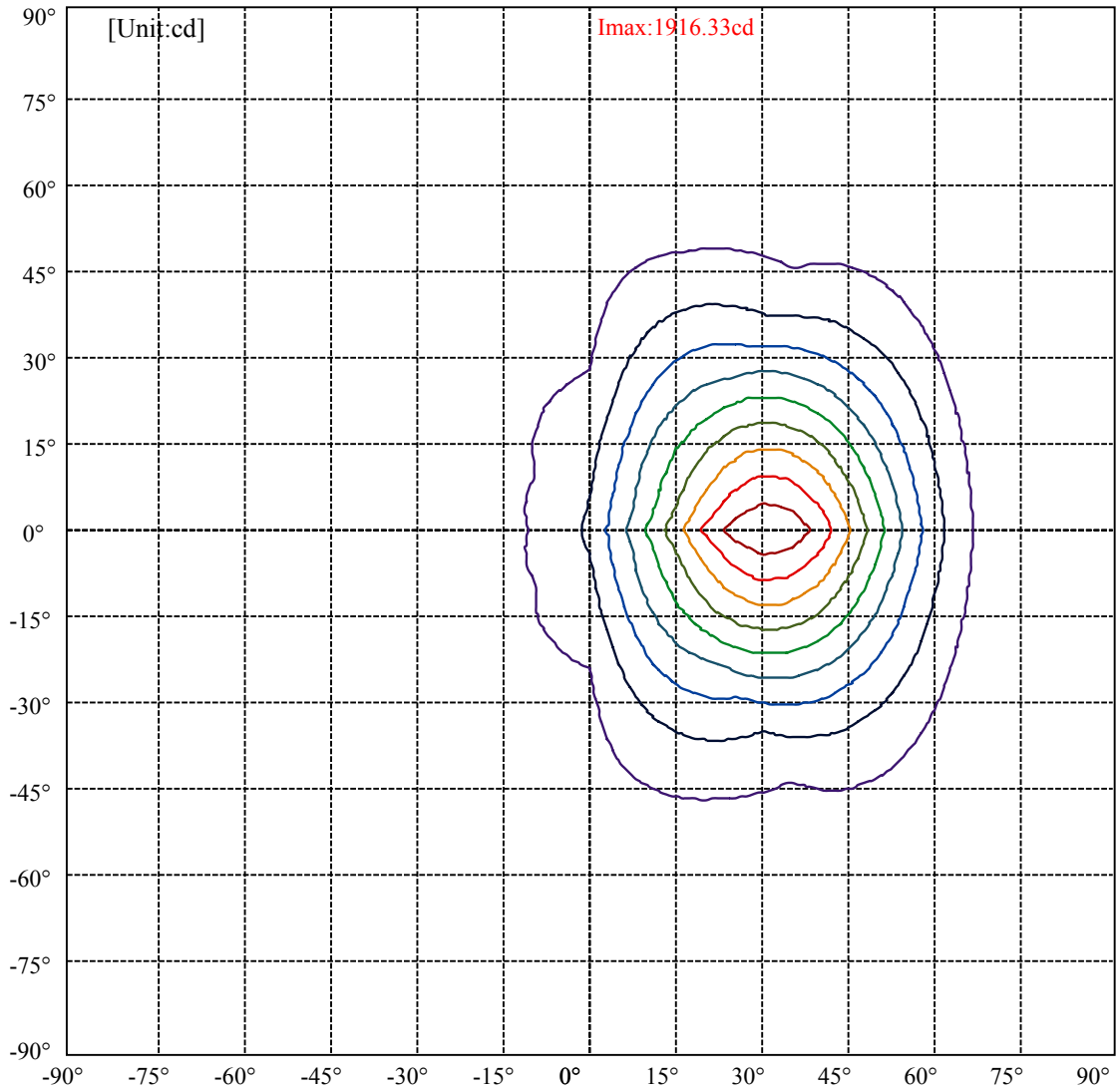
C90/C270: —

Field angle(10%Imax):C0/180Left:10.4 Right:65.9
:C90/270Left:63.7 Right:65.9

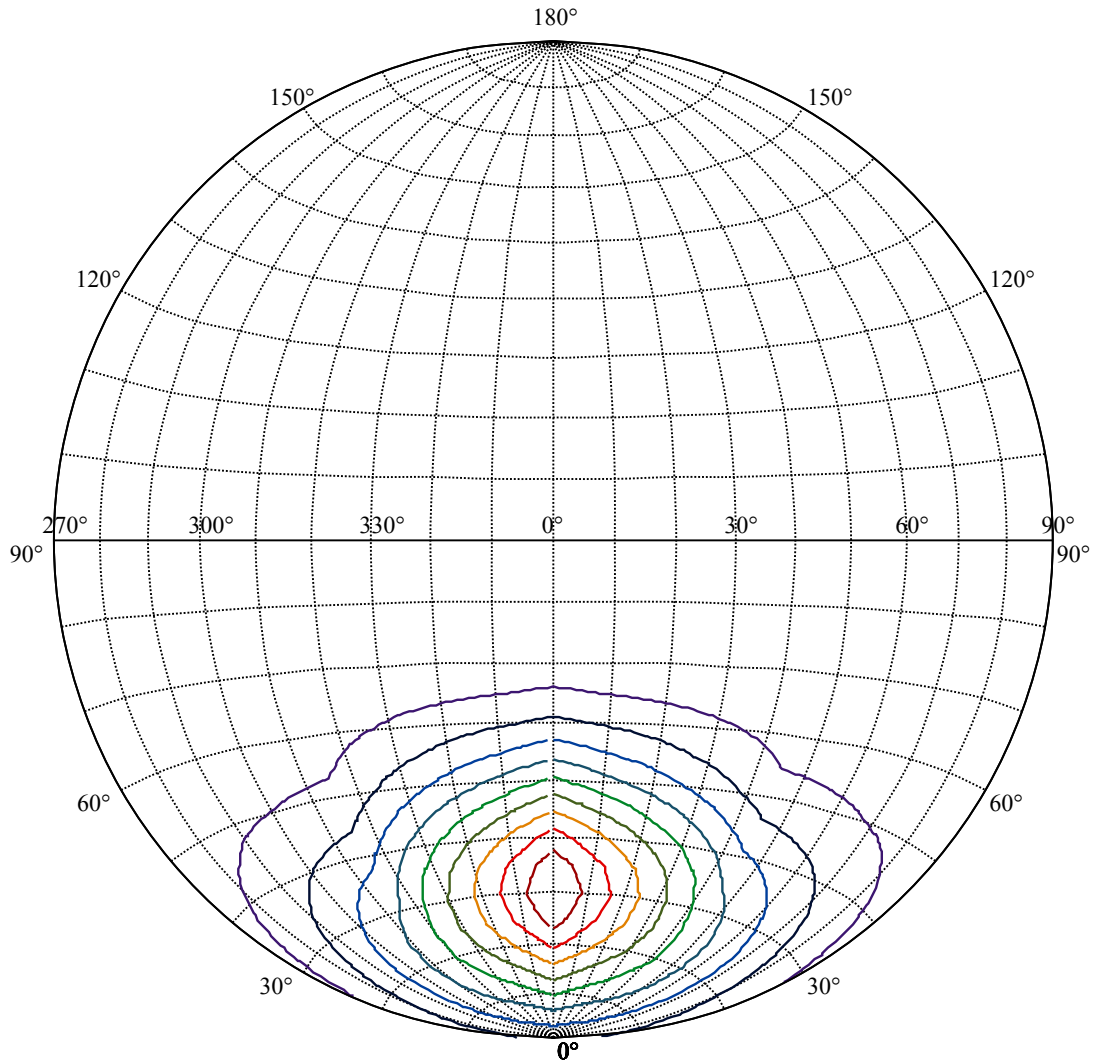
Beam Angle(50%Imax):C0/180Left:9.5 Right:50.7
:C90/270Left:20.8 Right:24.2



Max , Ave Beam angle of C0 plane 98.35



(10%Imax) 191.633	—
(20%Imax) 383.266	—
(30%Imax) 574.899	—
(40%Imax) 766.532	—
(50%Imax) 958.166	—
(60%Imax) 1149.8	—
(70%Imax) 1341.43	—
(80%Imax) 1533.06	—
(90%Imax) 1724.7	—












House

[Unit:cd]

Road

Imax:1916.33

(10%Imax)	191.633	
(20%Imax)	383.266	
(30%Imax)	574.899	
(40%Imax)	766.532	
(50%Imax)	958.166	
(60%Imax)	1149.8	
(70%Imax)	1341.43	
(80%Imax)	1533.06	
(90%Imax)	1724.7	

LD3R-5CCT-4RSL-3000K

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	425.90	695.44	988.23	1283.34	1579.94	1808.57	1916.33	1843.93	1629.69
45.0	425.90	581.12	728.68	848.72	915.40	917.94	861.63	757.26	606.74
90.0	425.90	387.42	350.58	301.04	247.90	206.41	177.41	152.85	134.22
135.0	425.90	295.33	216.78	177.62	154.54	141.42	133.80	127.45	116.23
180.0	425.90	271.61	194.34	162.16	147.56	140.57	136.13	125.54	110.51
225.0	425.90	295.75	215.51	177.20	154.12	141.63	134.01	126.18	114.32
270.0	425.90	375.56	331.31	273.94	218.48	182.06	156.66	137.61	122.58
315.0	425.90	584.93	728.05	827.76	877.72	860.36	776.31	653.95	509.15
360.0	425.90	695.44	988.23	1283.34	1579.94	1808.57	1916.33	1843.93	1629.69

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	1328.86	998.60	688.03	422.98	213.82	91.88	41.92	18.84	6.77
45.0	432.30	279.66	185.24	127.66	79.18	50.39	31.54	16.51	4.87
90.0	119.82	108.18	97.81	69.23	45.52	29.43	16.51	8.26	4.02
135.0	101.62	77.48	55.68	39.80	27.95	18.84	11.86	6.35	2.96
180.0	85.95	62.45	46.58	34.72	24.56	15.67	9.10	4.23	1.27
225.0	96.54	72.19	53.14	36.84	26.04	16.94	9.95	5.29	2.33
270.0	109.87	100.98	81.93	55.68	38.11	23.92	13.13	7.62	4.23
315.0	360.11	240.28	161.74	114.32	76.21	54.83	44.03	35.78	23.92
360.0	1328.86	998.60	688.03	422.98	213.82	91.88	41.92	18.84	6.77

C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	1.27	0.42	0.64	0.85	0.64	0.64	0.64	0.64	0.85
45.0	1.69	0.64	0.42	0.64	0.42	0.64	0.64	0.64	0.85
90.0	1.27	0.21	0.21	0.21	0.21	0.42	0.21	0.42	0.21
135.0	0.42	0.21	0.21	0.21	0.21	0.42	0.64	0.42	0.64
180.0	0.21	0.00	0.42	0.42	0.64	0.85	0.85	1.27	1.48
225.0	0.64	0.21	0.21	0.42	0.42	0.42	0.85	0.85	1.27
270.0	1.69	0.85	0.85	0.85	0.85	0.85	0.85	1.06	1.06
315.0	11.64	0.64	0.64	0.64	0.64	0.85	0.85	0.64	0.85
360.0	1.27	0.42	0.64	0.85	0.64	0.64	0.64	0.64	0.85

C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	1.06	1.06	1.06	0.64	0.85	0.85	1.06	1.27	1.48
45.0	1.06	0.85	0.64	0.85	0.85	1.06	1.06	1.27	1.69
90.0	0.42	0.64	0.64	0.64	0.85	0.85	1.06	1.27	1.06
135.0	0.85	0.85	1.27	1.27	1.27	1.48	1.27	1.27	1.27
180.0	1.69	1.91	2.33	2.12	1.91	1.69	1.69	1.48	1.69
225.0	1.48	1.69	1.91	2.12	2.54	2.33	1.91	1.69	1.69
270.0	1.27	1.06	1.06	1.27	1.27	1.27	1.27	1.48	1.27
315.0	0.85	0.85	0.85	0.85	0.85	0.85	1.06	1.06	1.27
360.0	1.06	1.06	1.06	0.64	0.85	0.85	1.06	1.27	1.48

C/γ(°)	180.0
0.0	1.36
45.0	1.36
90.0	1.36
135.0	1.36
180.0	1.36
225.0	1.36
270.0	1.36
315.0	1.36
360.0	1.36