



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

LumCAT: LD3R-4RSL-3018K

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.10

LampCAT:

Current(A): 0.1250

Lamp flux(lm): -1.0

Power (W): 14.82

Number of Lamps: 1

PF: 0.9844

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1284.73, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 86.71

Central intensity(cd): 387.329, Maximum intensity(cd): 2125.818

Angle of maximum intensity: C=0.0 γ =30.0

Beam Angle(50%Imax): [C0/180]Total=60.7

[C90/270]Total=50.4

Field angle(10%Imax): [C0/180]Total=72.1

[C90/270]Total=129.7

Maximum s/h(1/2): C0_180=0.31 C90_270=0.75

Maximum s/h(1/4): C0_180=0.62 C90_270=0.88

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 0.00%

Up flux rate of LUM(%): 0.37%

Down flux rate of LUM(%): 99.63%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 92.892%

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

Date:
Humidity(%): 59%

Operator: Tester

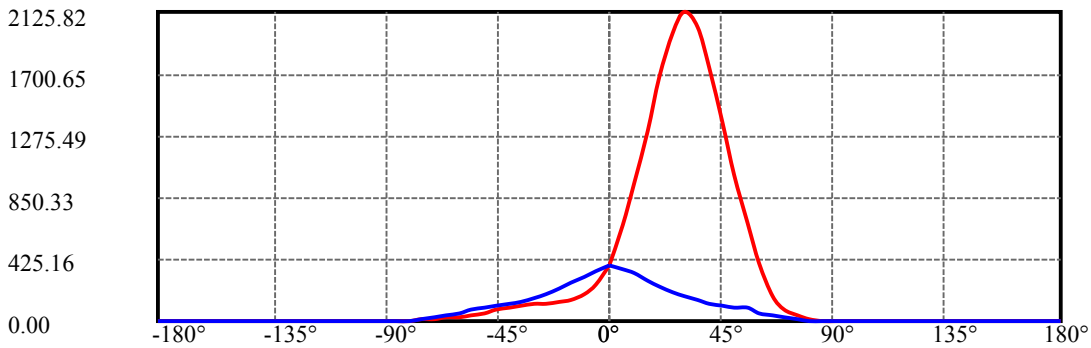
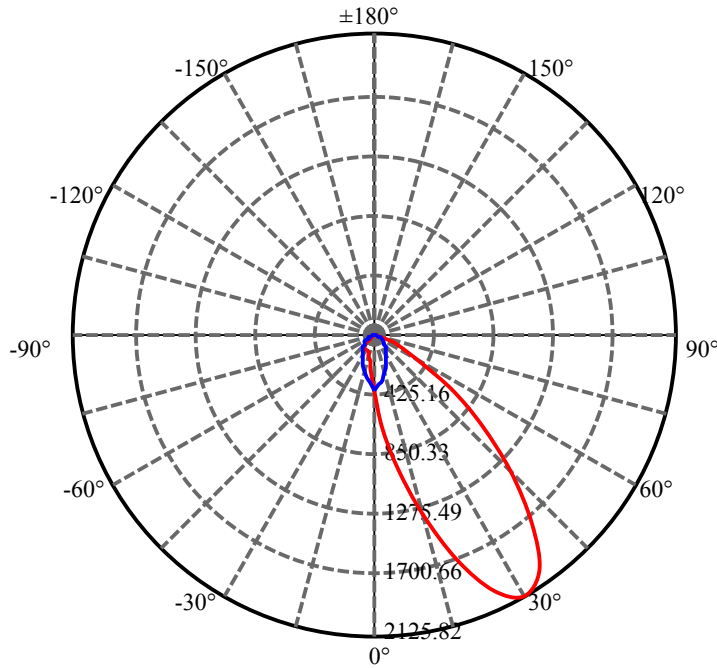
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	387.329	0.000	0	0.00%	0.00%
5.0	406.173	9.486	9.486	0.00%	0.74%
10.0	450.178	30.634	40.12	0.00%	3.12%
15.0	500.865	56.415	96.536	0.00%	7.51%
20.0	551.630	86.740	183.276	0.00%	14.27%
25.0	581.149	118.808	302.084	0.00%	23.51%
30.0	576.530	146.505	448.589	0.00%	34.92%
35.0	532.160	163.262	611.851	0.00%	47.62%
40.0	452.188	164.231	776.082	0.00%	60.41%
45.0	344.081	147.436	923.518	0.00%	71.88%
50.0	242.028	118.432	1041.95	0.00%	81.10%
55.0	166.285	88.781	1130.73	0.00%	88.01%
60.0	104.871	62.677	1193.407	0.00%	92.89%
65.0	57.499	39.472	1232.88	0.00%	95.96%
70.0	33.330	22.998	1255.878	0.00%	97.75%
75.0	17.487	13.283	1269.161	0.00%	98.79%
80.0	8.143	6.858	1276.019	0.00%	99.32%
85.0	2.767	2.965	1278.984	0.00%	99.55%
90.0	0.835	0.986	1279.97	0.00%	99.63%
95.0	0.391	0.336	1280.306	0.00%	99.66%
100.0	0.339	0.199	1280.504	0.00%	99.67%
105.0	0.392	0.196	1280.7	0.00%	99.69%
110.0	0.496	0.232	1280.932	0.00%	99.70%
115.0	0.626	0.284	1281.216	0.00%	99.73%
120.0	0.600	0.298	1281.514	0.00%	99.75%
125.0	0.731	0.308	1281.822	0.00%	99.77%
130.0	0.861	0.346	1282.168	0.00%	99.80%
135.0	0.966	0.369	1282.537	0.00%	99.83%
140.0	1.044	0.372	1282.909	0.00%	99.86%
145.0	1.227	0.379	1283.288	0.00%	99.89%
150.0	1.331	0.377	1283.665	0.00%	99.92%
155.0	1.279	0.330	1283.995	0.00%	99.94%
160.0	1.201	0.260	1284.255	0.00%	99.96%
165.0	1.227	0.200	1284.455	0.00%	99.98%
170.0	1.253	0.147	1284.602	0.00%	99.99%
175.0	1.383	0.094	1284.696	0.00%	100.00%
180.0	1.276	0.032	1284.728	0.00%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	448.59	N.A.	34.92%
0-40	776.08	N.A.	60.41%
0-60	1193.41	N.A.	92.89%
0-90	1279.97	N.A.	99.63%
0-120	1281.51	N.A.	99.75%
0-180	1284.73	N.A.	100.00%
60-90	86.56	N.A.	6.74%
90-120	1.54	N.A.	0.12%
90-130	2.20	N.A.	0.17%
90-150	3.69	N.A.	0.29%
90-180	4.73	N.A.	0.37%
0-49.40	1027.78	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	40.12
10-20	143.16
20-30	265.31
30-40	327.49
40-50	265.87
50-60	151.46
60-70	62.47
70-80	20.14
80-90	3.95
90-100	0.53
100-110	0.43
110-120	0.58
120-130	0.65
130-140	0.74
140-150	0.76
150-160	0.59
160-170	0.35
170-180	0.09

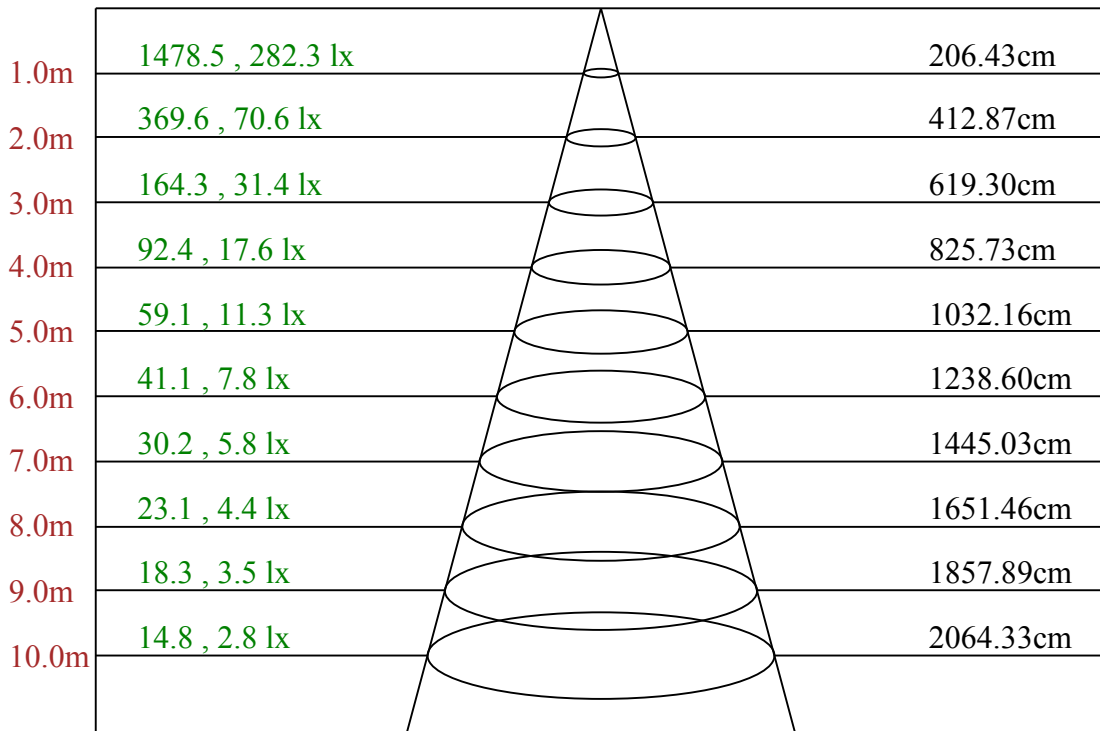


C0/C180: —

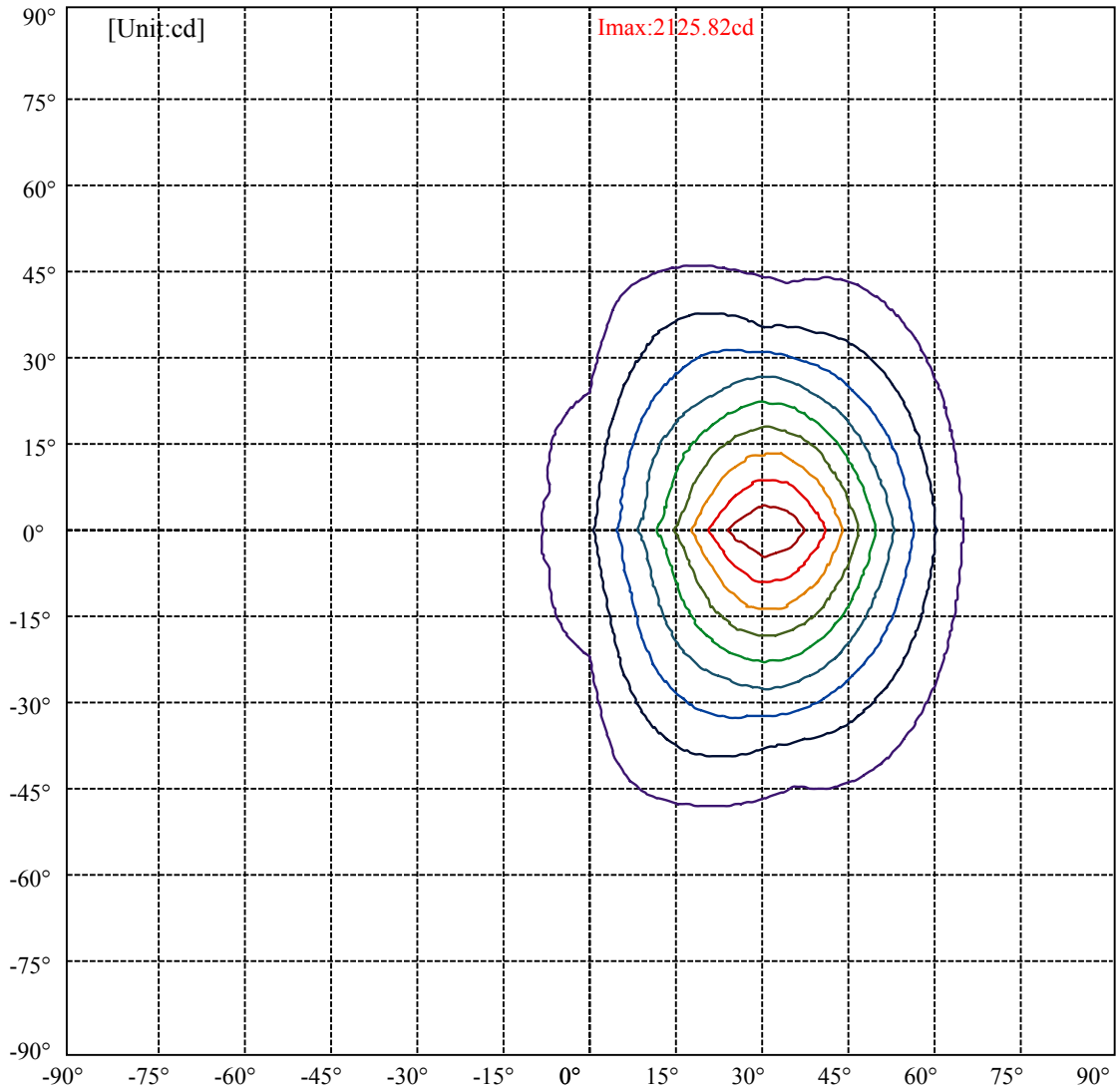
C90/C270: —

Field angle(10%Imax):C0/180Left:8.0 Right:64.1
:C90/270Left:64.6 Right:65.1

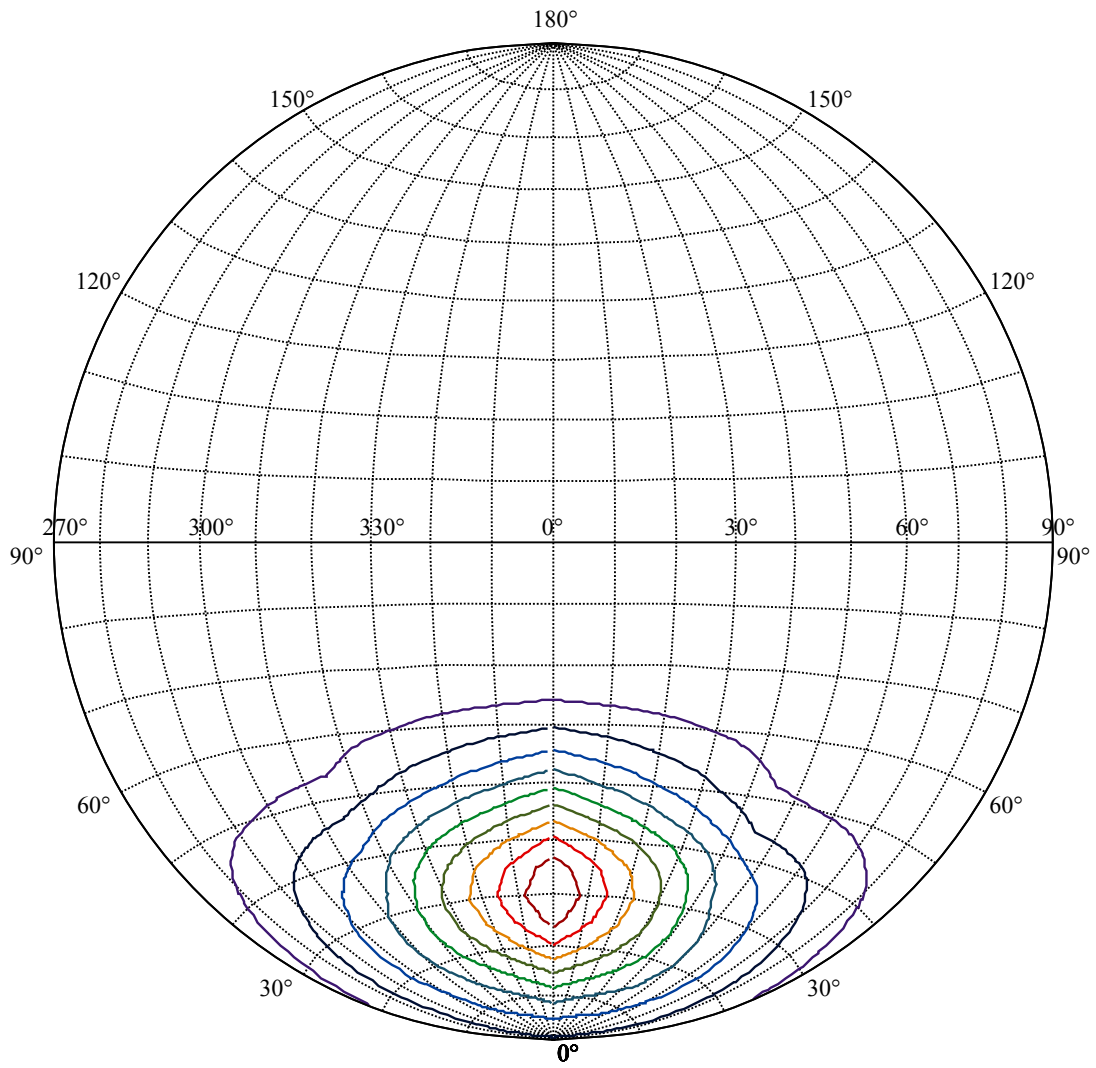
Beam Angle(50%Imax):C0/180Left:11.6 Right:49.1
:C90/270Left:24.2 Right:26.2



Max , Ave Beam angle of C0 plane 91.81



(10%Imax) 212.582	—
(20%Imax) 425.164	—
(30%Imax) 637.745	—
(40%Imax) 850.327	—
(50%Imax) 1062.91	—
(60%Imax) 1275.49	—
(70%Imax) 1488.07	—
(80%Imax) 1700.65	—
(90%Imax) 1913.24	—



House

[Unit:cd]

Road

Imax:2125.82

(10%Imax) 212.582	—
(20%Imax) 425.164	—
(30%Imax) 637.745	—
(40%Imax) 850.327	—
(50%Imax) 1062.91	—
(60%Imax) 1275.49	—
(70%Imax) 1488.07	—
(80%Imax) 1700.65	—
(90%Imax) 1913.24	—

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	387.33	655.43	952.77	1307.73	1683.37	1986.13	2125.82	2023.71	1737.45
45.0	387.33	546.85	719.12	861.52	932.30	933.14	874.67	786.98	637.68
90.0	387.33	354.96	325.73	283.14	239.71	201.70	168.09	140.94	122.78
135.0	387.33	274.37	208.59	165.58	141.99	128.00	120.27	115.68	107.95
180.0	387.33	251.19	186.67	148.67	131.75	124.45	120.48	112.13	98.97
225.0	387.33	273.53	209.01	165.37	141.57	128.00	120.48	115.47	107.32
270.0	387.33	345.36	307.98	261.84	224.67	188.13	157.44	135.72	119.85
315.0	387.33	547.69	691.55	813.08	917.69	959.66	925.00	826.65	685.50
360.0	387.33	655.43	952.77	1307.73	1683.37	1986.13	2125.82	2023.71	1737.45

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	1363.90	998.29	673.60	395.05	172.05	82.69	35.71	14.20	3.76
45.0	410.30	245.34	167.67	110.87	67.44	42.18	23.60	11.07	4.18
90.0	107.95	96.26	86.03	58.88	39.05	23.60	12.53	6.06	2.92
135.0	93.54	68.91	47.19	32.99	22.76	15.45	9.19	4.59	1.88
180.0	77.47	55.75	39.88	29.86	22.34	14.62	8.77	4.18	1.25
225.0	93.13	70.37	48.65	34.04	24.01	16.29	10.44	5.85	2.30
270.0	106.91	95.84	78.51	53.66	37.38	23.39	11.90	6.06	2.51
315.0	499.46	305.48	188.76	123.61	74.96	48.44	27.77	13.16	3.34
360.0	1363.90	998.29	673.60	395.05	172.05	82.69	35.71	14.20	3.76

C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	0.84	0.63	0.42	0.63	0.63	0.63	0.63	0.63	0.63
45.0	1.88	0.63	0.42	0.42	0.63	0.63	0.63	0.63	0.42
90.0	1.25	0.00	0.21	0.42	0.00	0.42	0.42	0.21	0.63
135.0	0.63	0.21	0.00	0.21	0.21	0.42	0.42	0.63	0.84
180.0	0.21	0.00	0.21	0.42	0.42	0.63	0.84	1.25	1.46
225.0	0.42	0.21	0.00	0.00	0.21	0.42	0.42	0.84	1.04
270.0	0.84	0.84	0.84	0.63	1.25	1.04	0.84	1.04	1.04
315.0	0.63	0.63	0.63	0.42	0.63	0.84	0.63	0.63	0.84
360.0	0.84	0.63	0.42	0.63	0.63	0.63	0.63	0.63	0.63

C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	0.63	0.63	0.63	0.63	0.84	0.63	0.84	1.04	1.04
45.0	0.63	0.84	0.84	0.84	0.84	0.84	1.04	1.25	1.46
90.0	0.63	0.84	0.84	0.84	0.84	0.63	0.84	1.04	1.04
135.0	0.63	1.04	1.25	1.46	1.04	1.25	1.25	1.04	1.46
180.0	1.88	2.09	2.30	2.30	2.09	2.09	1.67	1.46	1.46
225.0	1.46	1.46	2.09	2.09	2.30	2.09	1.88	1.67	1.67
270.0	1.04	0.84	1.25	1.67	1.46	1.25	1.25	1.67	1.67
315.0	0.84	0.63	0.63	0.84	0.84	0.84	1.04	0.84	1.25
360.0	0.63	0.63	0.63	0.63	0.84	0.63	0.84	1.04	1.04

C/γ(°)	180.0
0.0	1.28
45.0	1.28
90.0	1.28
135.0	1.28
180.0	1.28
225.0	1.28
270.0	1.28
315.0	1.28
360.0	1.28