



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

LumCAT: LD3R-3018K

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.06

LampCAT:

Current(A): 0.1260

Lamp flux(lm): -1.0

Power (W): 14.83

Number of Lamps: 1

PF: 0.9845

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1300.70, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 87.69

Central intensity(cd): 2129.821, Maximum intensity(cd): 2129.821

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=38.3

[C90/270]Total=41.7

Field angle(10%Imax): [C0/180]Total=72.9

[C90/270]Total=75.3

Maximum s/h(1/2): C0_180=0.62 C90_270=0.71

Maximum s/h(1/4): C0_180=0.66 C90_270=0.76

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 : 95.443%

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

Date:
Humidity(%): 59%

Operator: Tester

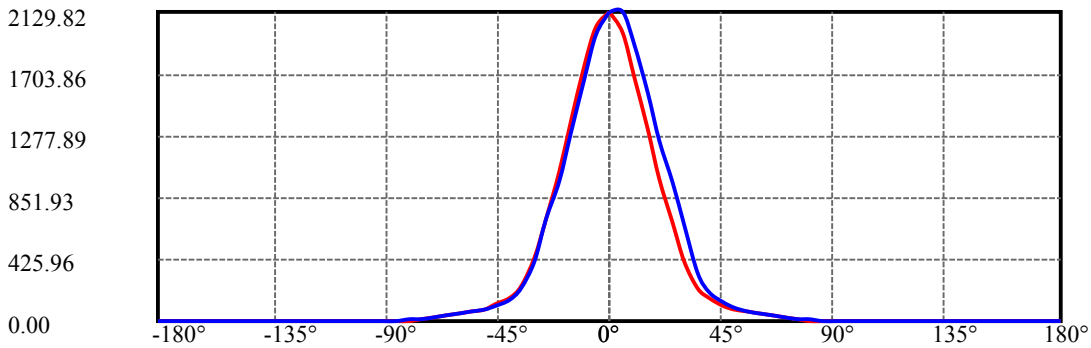
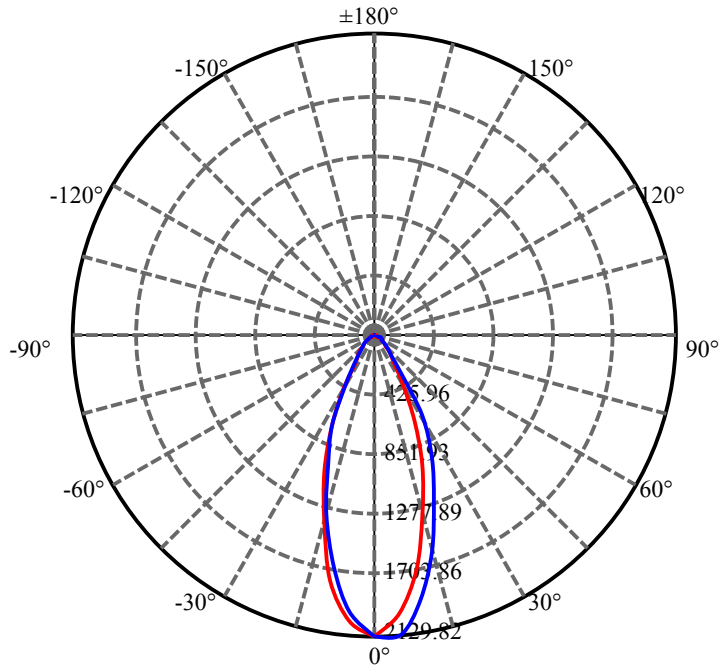
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2129.821	0.000	0	0.00%	0.00%
5.0	2020.065	49.611	49.611	0.00%	3.81%
10.0	1742.629	134.603	184.214	0.00%	14.16%
15.0	1391.335	185.905	370.119	0.00%	28.46%
20.0	1052.241	201.385	571.504	0.00%	43.94%
25.0	751.491	189.178	760.682	0.00%	58.48%
30.0	469.159	154.474	915.156	0.00%	70.36%
35.0	254.070	106.500	1021.657	0.00%	78.55%
40.0	164.678	69.865	1091.522	0.00%	83.92%
45.0	114.134	51.624	1143.146	0.00%	87.89%
50.0	82.961	39.826	1182.972	0.00%	90.95%
55.0	64.305	32.020	1214.992	0.00%	93.41%
60.0	50.068	26.437	1241.429	0.00%	95.44%
65.0	35.593	20.824	1262.253	0.00%	97.04%
70.0	22.546	14.721	1276.974	0.00%	98.18%
75.0	13.390	9.393	1286.368	0.00%	98.90%
80.0	7.224	5.516	1291.883	0.00%	99.32%
85.0	3.255	2.847	1294.731	0.00%	99.54%
90.0	1.032	1.174	1295.905	0.00%	99.63%
95.0	0.238	0.348	1296.252	0.00%	99.66%
100.0	0.397	0.173	1296.425	0.00%	99.67%
105.0	0.397	0.212	1296.637	0.00%	99.69%
110.0	0.344	0.194	1296.831	0.00%	99.70%
115.0	0.529	0.221	1297.052	0.00%	99.72%
120.0	0.503	0.251	1297.303	0.00%	99.74%
125.0	0.556	0.245	1297.548	0.00%	99.76%
130.0	0.635	0.259	1297.807	0.00%	99.78%
135.0	0.820	0.294	1298.101	0.00%	99.80%
140.0	0.873	0.314	1298.414	0.00%	99.82%
145.0	1.191	0.344	1298.759	0.00%	99.85%
150.0	1.429	0.386	1299.145	0.00%	99.88%
155.0	1.720	0.399	1299.543	0.00%	99.91%
160.0	1.853	0.375	1299.918	0.00%	99.94%
165.0	2.038	0.321	1300.238	0.00%	99.96%
170.0	2.170	0.250	1300.488	0.00%	99.98%
175.0	2.276	0.159	1300.647	0.00%	100.00%
180.0	2.423	0.056	1300.703	0.00%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	915.16	N.A.	70.36%
0-40	1091.52	N.A.	83.92%
0-60	1241.43	N.A.	95.44%
0-90	1295.90	N.A.	99.63%
0-120	1297.30	N.A.	99.74%
0-180	1300.70	N.A.	100.00%
60-90	54.48	N.A.	4.19%
90-120	1.40	N.A.	0.11%
90-130	1.90	N.A.	0.15%
90-150	3.24	N.A.	0.25%
90-180	4.74	N.A.	0.36%
0-36.35	1040.56	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	184.21
10-20	387.29
20-30	343.65
30-40	176.37
40-50	91.45
50-60	58.46
60-70	35.55
70-80	14.91
80-90	4.02
90-100	0.52
100-110	0.41
110-120	0.47
120-130	0.50
130-140	0.61
140-150	0.73
150-160	0.77
160-170	0.57
170-180	0.16

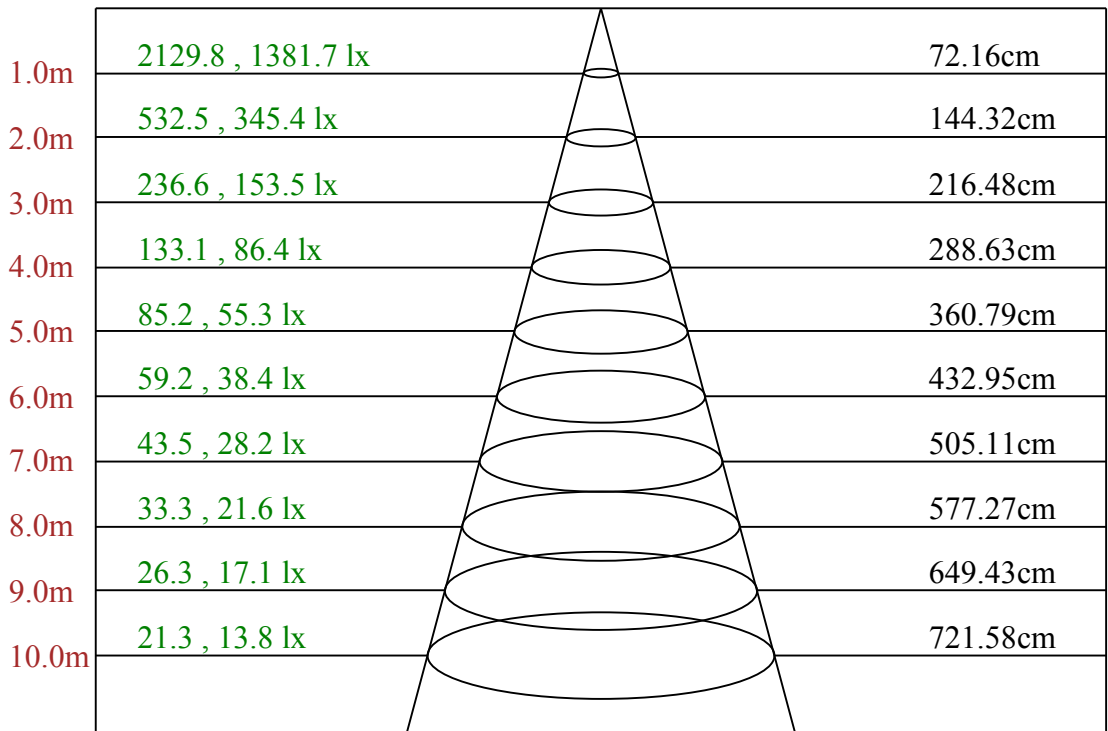


C0/C180: —

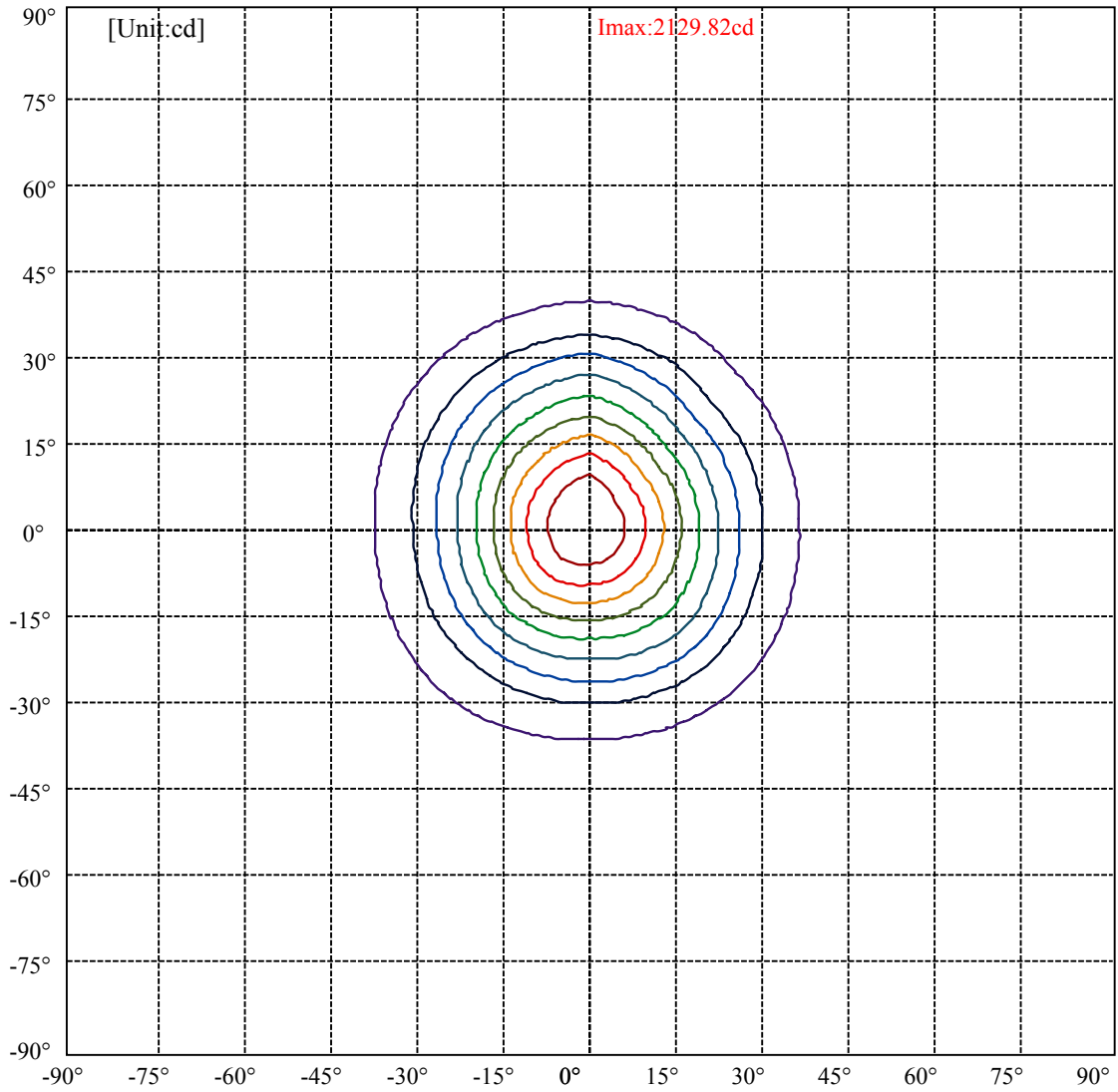
C90/C270: —

Field angle(10%Imax):C0/180Left:36.9 Right:36.0
:C90/270Left:36.0 Right:39.3

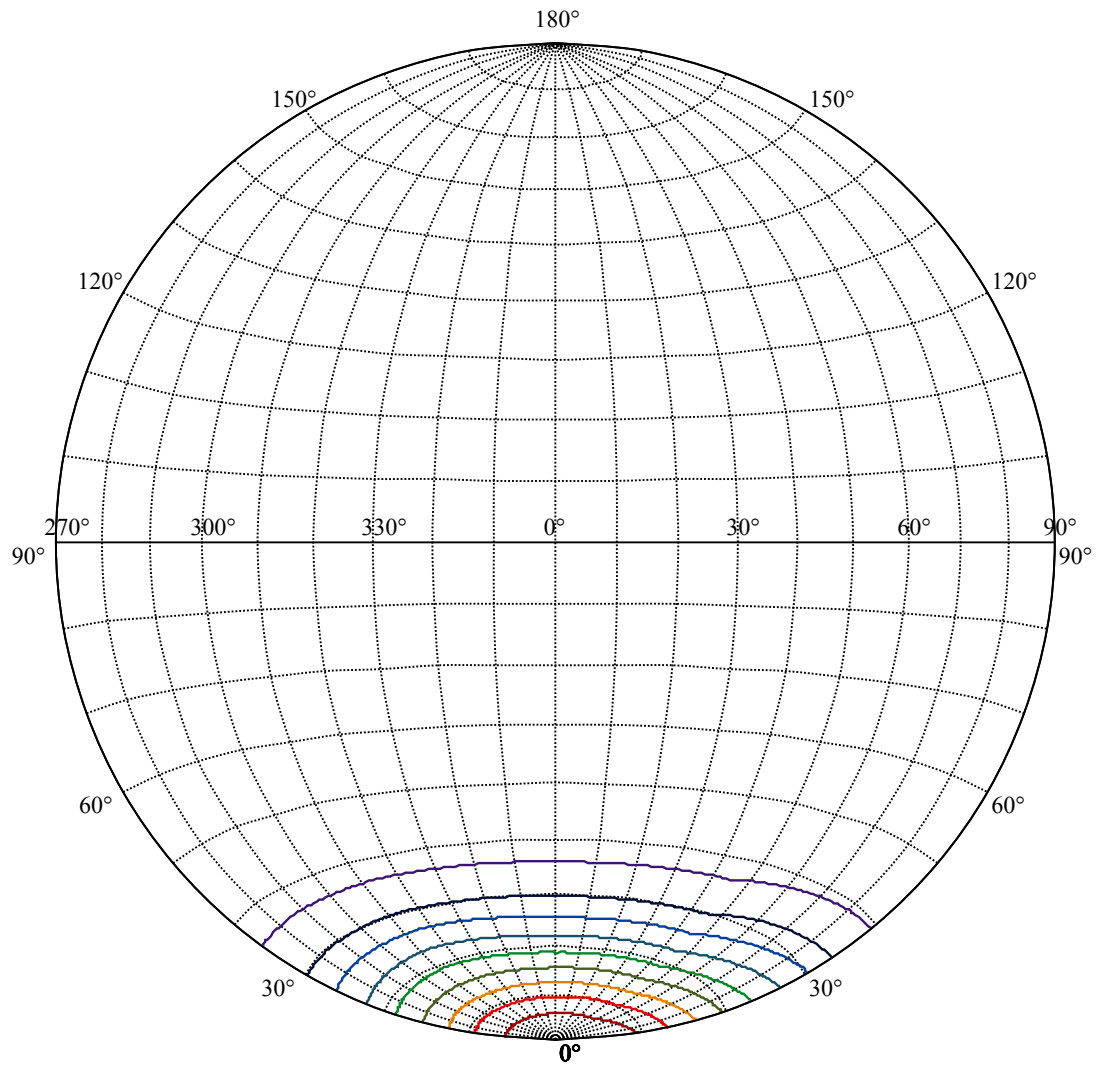
Beam Angle(50%Imax):C0/180Left:19.5 Right:18.8
:C90/270Left:18.6 Right:23.1



Max , Ave Beam angle of C0 plane 39.68



(10%Imax)	212.982	—
(20%Imax)	425.964	—
(30%Imax)	638.946	—
(40%Imax)	851.928	—
(50%Imax)	1064.91	—
(60%Imax)	1277.89	—
(70%Imax)	1490.87	—
(80%Imax)	1703.86	—
(90%Imax)	1916.84	—












House

[Unit:cd]

Road

I_{max}:2129.82

(10%I _{max})	212.982	
(20%I _{max})	425.964	
(30%I _{max})	638.946	
(40%I _{max})	851.928	
(50%I _{max})	1064.91	
(60%I _{max})	1277.89	
(70%I _{max})	1490.87	
(80%I _{max})	1703.86	
(90%I _{max})	1916.84	

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	2129.82	1979.63	1681.55	1325.68	980.18	671.52	410.28	226.52	160.89
45.0	2129.82	2001.01	1717.97	1359.77	1006.01	695.44	416.00	231.18	158.78
90.0	2129.82	2124.44	1898.55	1580.78	1247.99	956.05	665.59	333.22	194.77
135.0	2129.82	2067.28	1814.71	1468.37	1131.34	837.28	547.04	288.13	174.87
180.0	2129.82	2030.23	1757.98	1381.57	1026.97	704.12	438.44	243.88	162.16
225.0	2129.82	2026.42	1744.22	1387.71	1027.60	703.91	425.10	244.31	162.59
270.0	2129.82	1965.66	1662.08	1302.82	971.50	696.08	411.97	228.43	149.25
315.0	2129.82	1965.87	1663.98	1323.99	1026.33	747.52	438.86	236.90	154.12
360.0	2129.82	1979.63	1681.55	1325.68	980.18	671.52	410.28	226.52	160.89
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	110.30	80.24	62.24	48.90	34.30	21.59	12.28	6.14	2.12
45.0	109.66	78.54	62.03	48.27	34.51	22.44	13.55	7.41	4.02
90.0	129.56	93.36	71.13	56.10	41.28	27.31	16.30	9.53	4.23
135.0	120.25	85.95	65.84	51.66	36.84	23.08	13.76	7.62	3.60
180.0	113.68	82.99	63.51	48.90	34.08	20.75	11.64	5.50	1.91
225.0	112.63	82.99	64.15	49.33	34.72	22.02	12.70	7.20	3.60
270.0	109.45	80.87	63.51	49.12	34.93	22.02	13.97	7.41	3.39
315.0	107.55	78.75	62.03	48.27	34.08	21.17	12.91	6.99	3.18
360.0	110.30	80.24	62.24	48.90	34.30	21.59	12.28	6.14	2.12
C/ γ (°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	0.42	0.42	0.42	0.64	0.42	0.64	0.64	0.64	0.85
45.0	1.27	0.42	0.42	0.42	0.21	0.64	0.42	0.85	0.64
90.0	1.91	0.00	0.21	0.42	0.21	0.42	0.21	0.42	0.42
135.0	1.48	0.00	0.42	0.21	0.00	0.00	0.42	0.21	0.64
180.0	0.00	0.00	0.21	0.21	0.21	0.42	0.42	0.42	0.42
225.0	1.06	0.00	0.00	0.00	0.21	0.21	0.21	0.42	0.21
270.0	1.27	0.64	0.85	0.64	0.85	1.06	1.06	0.85	1.06
315.0	0.85	0.42	0.64	0.64	0.64	0.85	0.64	0.64	0.85
360.0	0.42	0.42	0.42	0.64	0.42	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	0.85	1.06	1.27	1.91	1.69	1.91	2.12	2.33
45.0	0.85	0.85	1.27	1.48	1.69	1.69	2.33	1.91	2.33
90.0	0.64	0.85	1.06	1.48	1.48	1.91	1.69	1.91	2.12
135.0	0.64	0.85	1.06	1.06	1.48	1.91	1.91	2.33	2.12
180.0	0.64	0.64	1.06	1.27	1.69	1.69	1.91	2.12	2.12
225.0	0.42	0.64	1.06	1.27	1.48	1.69	1.91	2.12	2.33
270.0	1.27	1.48	1.69	2.12	2.33	2.33	2.54	2.54	2.54
315.0	1.06	0.85	1.27	1.48	1.69	1.91	2.12	2.33	2.33
360.0	1.06	0.85	1.06	1.27	1.91	1.69	1.91	2.12	2.33
C/ γ (°)	180.0								
0.0	2.42								
45.0	2.42								
90.0	2.42								
135.0	2.42								
180.0	2.42								
225.0	2.42								
270.0	2.42								
315.0	2.42								
360.0	2.42								