



Shenzhen Belling Efficiency Testing Lab Co.,Ltd
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Address:Rm. 108, No.1 Building, Meibaohe industrial park, No.14 Shilongzi Road, Dalang street, Longhua district, Shenzhen, China

Client:

LumCAT: LD8R-32K

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.01

LampCAT:

Current(A): 0.1520

Lamp flux(lm): -1.0

Power (W): 17.99

Number of Lamps: 1

PF: 0.9879

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1177.09, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 65.43

Central intensity(cd): 2125.235, Maximum intensity(cd): 2125.235

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=42.5

[C90/270]Total=41.7

Field angle(10%Imax): [C0/180]Total=71.4

[C90/270]Total=71.0

IES Classification : TypeI

Longitudinal Classification : VeryShort

Cut Off Classification : FullCutoff

Max Cd(At 90°Vert) : 0

Max Cd(80 to 90°Vert) : 2.719

Street Side UpWard Lumens: - -of Lamp 0.01%of Luminaire

Street Side DownWard Lumens: - -of lamp 48.94%of Luminaire

House Side UpWard Lumens: - -of lamp 0.01%of Luminaire

House Side DownWard Lumens: - -of lamp 51.03%of Luminaire

SLI: --- (C Flash Area: 0.000)

Throw: 93.7 (long), Spread: 6.7 (narrow), Control: --- (limited)

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

Date:
Humidity(%): 58%

Operator: Jarvis

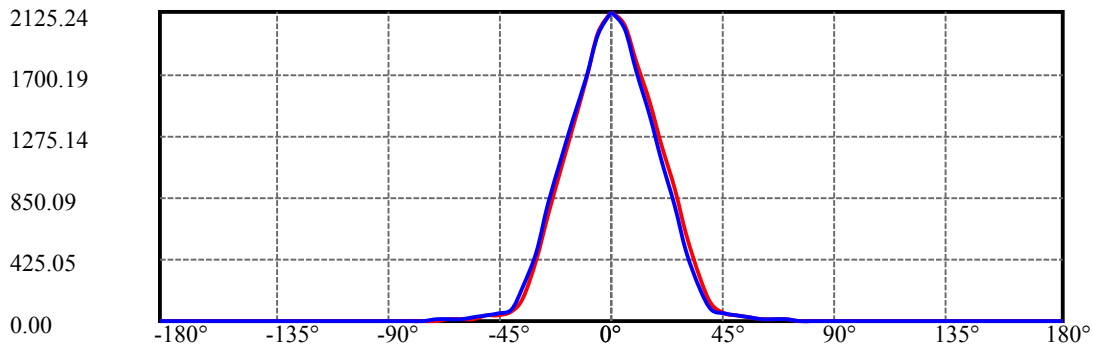
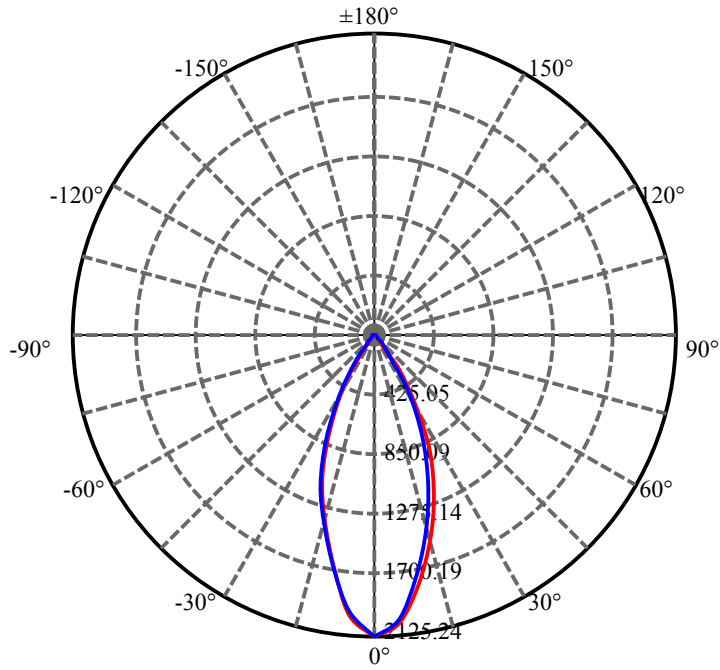
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2125.235	0.000	0	0.00%	0.00%
5.0	1993.145	49.234	49.234	0.00%	4.18%
10.0	1702.578	132.208	181.442	0.00%	15.41%
15.0	1400.581	184.077	365.519	0.00%	31.05%
20.0	1116.298	207.426	572.945	0.00%	48.67%
25.0	802.561	201.253	774.198	0.00%	65.77%
30.0	491.586	163.775	937.973	0.00%	79.69%
35.0	231.577	106.491	1044.464	0.00%	88.73%
40.0	83.987	52.649	1097.114	0.00%	93.21%
45.0	50.423	24.887	1122.001	0.00%	95.32%
50.0	36.617	17.588	1139.589	0.00%	96.81%
55.0	22.655	12.888	1152.476	0.00%	97.91%
60.0	14.929	8.687	1161.164	0.00%	98.65%
65.0	10.192	6.107	1167.271	0.00%	99.17%
70.0	6.717	4.282	1171.552	0.00%	99.53%
75.0	4.069	2.819	1174.371	0.00%	99.77%
80.0	2.023	1.630	1176.001	0.00%	99.91%
85.0	0.381	0.653	1176.655	0.00%	99.96%
90.0	0.000	0.104	1176.759	0.00%	99.97%
95.0	0.000	0.000	1176.759	0.00%	99.97%
100.0	0.000	0.000	1176.759	0.00%	99.97%
105.0	0.000	0.000	1176.759	0.00%	99.97%
110.0	0.000	0.000	1176.759	0.00%	99.97%
115.0	0.000	0.000	1176.759	0.00%	99.97%
120.0	0.000	0.000	1176.759	0.00%	99.97%
125.0	0.000	0.000	1176.759	0.00%	99.97%
130.0	0.000	0.000	1176.759	0.00%	99.97%
135.0	0.000	0.000	1176.759	0.00%	99.97%
140.0	0.000	0.000	1176.759	0.00%	99.97%
145.0	0.000	0.000	1176.759	0.00%	99.97%
150.0	0.042	0.006	1176.765	0.00%	99.97%
155.0	0.223	0.034	1176.799	0.00%	99.98%
160.0	0.434	0.069	1176.868	0.00%	99.98%
165.0	0.593	0.085	1176.952	0.00%	99.99%
170.0	0.635	0.073	1177.025	0.00%	99.99%
175.0	0.731	0.049	1177.074	0.00%	100.00%
180.0	0.818	0.019	1177.093	0.00%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	937.97	N.A.	79.69%
0-40	1097.11	N.A.	93.21%
0-60	1161.16	N.A.	98.65%
0-90	1176.76	N.A.	99.97%
0-120	1176.76	N.A.	99.97%
0-180	1177.09	N.A.	100.00%
60-90	15.60	N.A.	1.32%
90-120	0.00	N.A.	0.00%
90-130	0.00	N.A.	0.00%
90-150	0.01	N.A.	0.00%
90-180	0.31	N.A.	0.03%
0-30.17	941.67	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	181.44
10-20	391.50
20-30	365.03
30-40	159.14
40-50	42.47
50-60	21.57
60-70	10.39
70-80	4.45
80-90	0.76
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.01
150-160	0.10
160-170	0.16
170-180	0.05

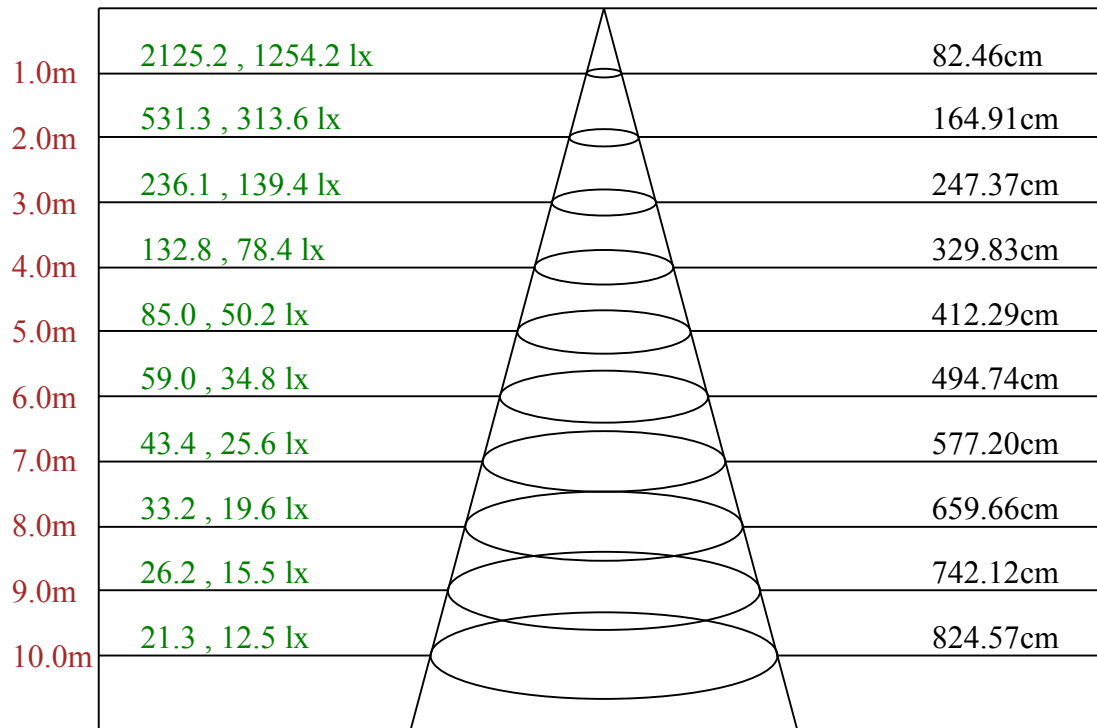


C0/C180: —

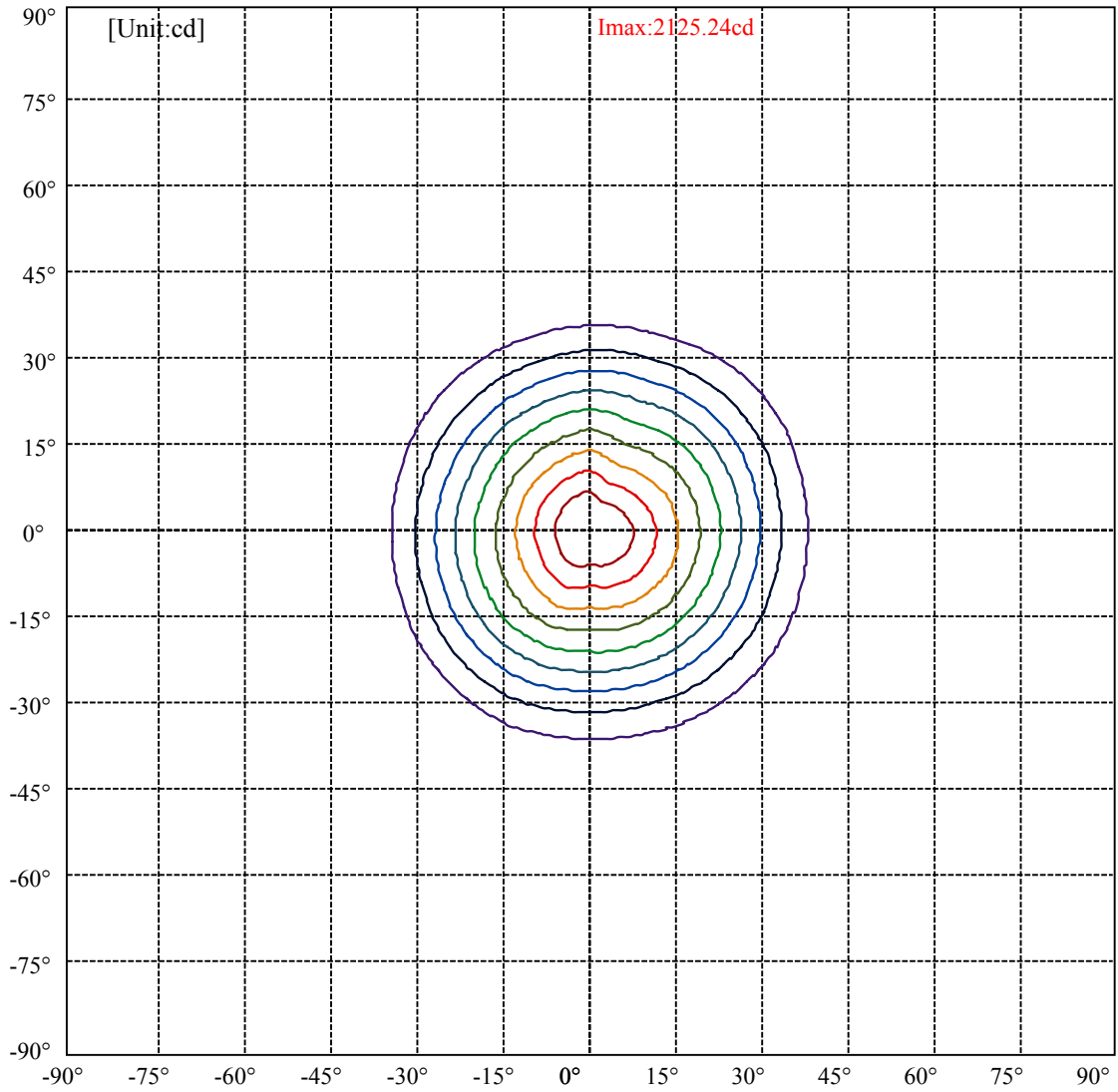
C90/C270: —

Field angle(10%Imax):C0/180Left:34.0 Right:37.4
:C90/270Left:35.8 Right:35.2

Beam Angle(50%Imax):C0/180Left:19.9 Right:22.6
:C90/270Left:20.9 Right:20.8



Max , Ave Beam angle of C0 plane 44.81



(10%I _{max}) 212.524	—
(20%I _{max}) 425.047	—
(30%I _{max}) 637.571	—
(40%I _{max}) 850.094	—
(50%I _{max}) 1062.62	—
(60%I _{max}) 1275.14	—
(70%I _{max}) 1487.66	—
(80%I _{max}) 1700.19	—
(90%I _{max}) 1912.71	—

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	2125.24	2038.22	1784.02	1502.64	1219.21	915.26	593.53	304.80	115.73
22.5	2125.24	2005.45	1726.12	1463.10	1187.50	893.90	581.26	308.56	106.19
45.0	2125.24	1975.18	1669.50	1383.93	1131.98	849.96	541.74	270.70	88.71
67.5	2125.24	1925.91	1616.32	1316.82	1053.53	784.84	481.65	224.24	73.06
90.0	2125.24	2010.00	1722.10	1410.57	1115.13	793.22	474.66	218.40	74.36
112.5	2125.24	1995.67	1681.15	1351.56	1063.30	734.89	427.83	184.95	69.27
135.0	2125.24	1979.40	1654.84	1327.72	1031.27	700.06	406.34	173.27	67.13
157.5	2125.24	1963.14	1666.09	1319.35	1021.79	693.84	406.36	162.78	64.91
180.0	2125.24	1978.05	1664.36	1337.50	1056.12	728.76	422.41	160.01	66.16
202.5	2125.24	1977.58	1671.75	1366.42	1078.08	758.82	441.94	180.44	67.96
225.0	2125.24	1997.49	1703.13	1391.36	1122.01	796.39	486.99	211.73	73.84
247.5	2125.24	2015.81	1737.87	1436.86	1139.72	823.73	510.60	244.44	81.14
270.0	2125.24	1962.61	1671.68	1384.61	1116.46	801.42	478.84	236.49	81.40
292.5	2125.24	1999.90	1723.49	1437.60	1152.89	830.24	503.36	251.00	92.65
315.0	2125.24	2022.50	1764.04	1474.75	1171.66	849.31	538.72	269.36	105.80
337.5	2125.24	2043.42	1784.81	1504.51	1200.12	886.34	569.14	304.04	115.47
360.0	2125.24	2038.22	1784.02	1502.64	1219.21	915.26	593.53	304.80	115.73
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	55.39	40.00	27.01	16.58	11.63	7.86	4.96	2.56	0.86
22.5	53.18	38.57	25.83	16.31	11.21	7.48	4.59	2.72	0.85
45.0	50.86	36.84	23.66	15.72	10.65	7.27	4.22	2.37	0.68
67.5	47.98	35.19	21.89	14.65	10.44	6.73	4.04	2.19	0.34
90.0	50.25	36.35	21.94	14.91	10.05	6.70	3.85	2.01	0.17
112.5	47.76	35.06	21.00	14.40	9.49	6.27	3.73	1.69	0.17
135.0	46.51	34.42	19.76	13.80	9.20	5.96	3.41	1.53	0.00
157.5	46.29	33.65	19.30	13.32	9.22	5.81	3.25	1.37	0.00
180.0	46.16	33.51	18.98	13.33	8.55	5.47	3.42	1.20	0.00
202.5	46.39	34.15	19.71	13.42	9.18	5.78	3.23	1.36	0.00
225.0	48.33	35.65	20.45	13.69	9.29	6.08	3.55	1.69	0.00
247.5	51.01	36.53	22.22	14.31	9.76	6.23	3.87	1.85	0.17
270.0	51.92	37.52	22.78	15.24	10.72	7.03	4.69	2.35	0.84
292.5	53.86	38.62	24.39	15.92	11.01	7.45	4.40	2.37	0.51
315.0	55.37	39.87	26.24	16.36	11.25	7.50	4.77	2.56	0.85
337.5	55.51	39.97	27.33	16.91	11.44	7.86	5.12	2.56	0.68
360.0	55.39	40.00	27.01	16.58	11.63	7.86	4.96	2.56	0.86
C/ γ (°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
45.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
67.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
112.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
157.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
202.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
225.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
247.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
270.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
292.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
315.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
337.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
360.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

LD8R-32K

Intensity data(cd)

Appendix Page: 8 Total:8

C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	0.00	0.00	0.00	0.17	0.17	0.51	0.68	0.68	0.68
22.5	0.00	0.00	0.00	0.00	0.34	0.51	0.51	0.68	0.85
45.0	0.00	0.00	0.00	0.17	0.34	0.51	0.68	0.85	0.85
67.5	0.00	0.00	0.00	0.00	0.34	0.51	0.67	0.84	0.84
90.0	0.00	0.00	0.00	0.00	0.17	0.34	0.67	0.67	0.67
112.5	0.00	0.00	0.00	0.00	0.17	0.51	0.51	0.68	0.68
135.0	0.00	0.00	0.00	0.00	0.17	0.51	0.68	0.51	0.68
157.5	0.00	0.00	0.00	0.00	0.34	0.34	0.51	0.51	0.68
180.0	0.00	0.00	0.00	0.00	0.17	0.17	0.51	0.51	0.51
202.5	0.00	0.00	0.00	0.00	0.17	0.34	0.34	0.51	0.51
225.0	0.00	0.00	0.00	0.00	0.00	0.51	0.51	0.68	0.85
247.5	0.00	0.00	0.00	0.00	0.34	0.51	0.51	0.51	0.67
270.0	0.00	0.00	0.00	0.17	0.17	0.67	1.01	0.84	1.01
292.5	0.00	0.00	0.00	0.00	0.17	0.34	0.68	0.68	0.68
315.0	0.00	0.00	0.00	0.00	0.17	0.34	0.51	0.51	0.68
337.5	0.00	0.00	0.00	0.17	0.34	0.34	0.51	0.51	0.85
360.0	0.00	0.00	0.00	0.17	0.17	0.51	0.68	0.68	0.68

C/γ(°)	180.0
0.0	0.82
22.5	0.82
45.0	0.82
67.5	0.82
90.0	0.82
112.5	0.82
135.0	0.82
157.5	0.82
180.0	0.82
202.5	0.82
225.0	0.82
247.5	0.82
270.0	0.82
292.5	0.82
315.0	0.82
337.5	0.82
360.0	0.82