



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: LD4S-32K

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.00

LampCAT:

Current(A): 0.1260

Lamp flux(lm): -1.0

Power (W): 14.95

Number of Lamps: 1

PF: 0.9887

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 913.61, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 61.12

Central intensity(cd): 2867.694, Maximum intensity(cd): 2953.716

Angle of maximum intensity: C=135.0 γ =5.0

Beam Angle(50%Imax): [C0/180]Total=32.9

[C90/270]Total=32.1

Field angle(10%Imax): [C0/180]Total=49.6

[C90/270]Total=48.0

IES Classification : TypeI

Longitudinal Classification : VeryShort

Cut Off Classification : FullCutoff

Max Cd(At 90°Vert) : 0

Max Cd(80 to 90°Vert) : 2.673

Street Side UpWard Lumens: - -of Lamp 0.02%of Luminaire

Street Side DownWard Lumens: - -of lamp 57.74%of Luminaire

House Side UpWard Lumens: - -of lamp 0.02%of Luminaire

House Side DownWard Lumens: - -of lamp 42.22%of Luminaire

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

Throw: 95.2 (long), Spread: 9.2 (narrow), Control: --- (limited)

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

Date:
Humidity(%): 58%

Operator: Jarvis

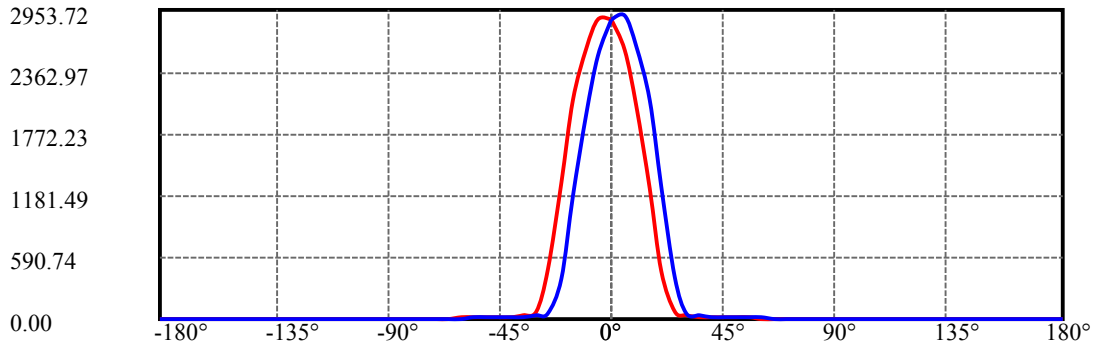
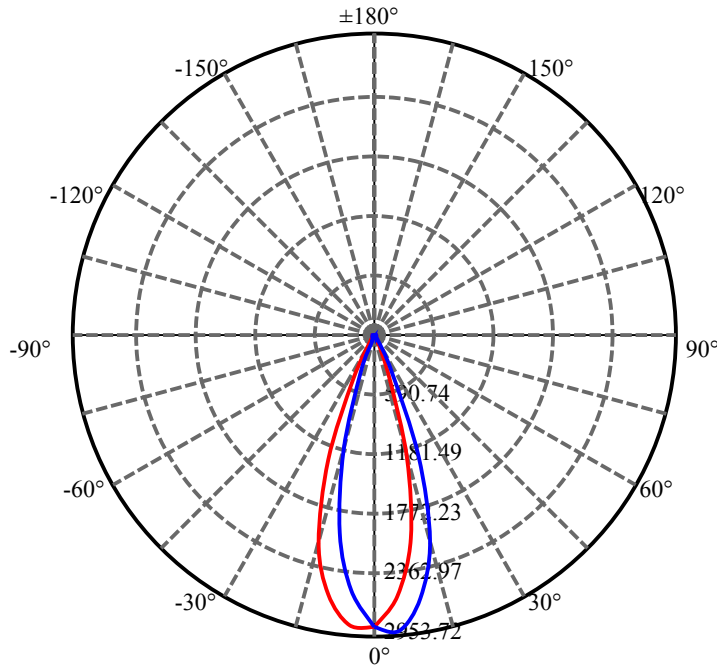
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2867.694	0.000	0	0.00%	0.00%
5.0	2710.739	66.689	66.689	0.00%	7.30%
10.0	2305.878	179.460	246.149	0.00%	26.94%
15.0	1656.834	235.065	481.214	0.00%	52.67%
20.0	866.918	207.993	689.207	0.00%	75.44%
25.0	277.273	120.005	809.211	0.00%	88.57%
30.0	68.627	43.774	852.985	0.00%	93.36%
35.0	33.050	14.973	867.958	0.00%	95.00%
40.0	22.315	9.237	877.195	0.00%	96.01%
45.0	17.472	7.367	884.562	0.00%	96.82%
50.0	14.367	6.434	890.996	0.00%	97.52%
55.0	11.854	5.701	896.697	0.00%	98.15%
60.0	9.435	4.921	901.618	0.00%	98.69%
65.0	7.230	4.051	905.669	0.00%	99.13%
70.0	5.242	3.158	908.827	0.00%	99.48%
75.0	3.432	2.267	911.095	0.00%	99.72%
80.0	1.837	1.410	912.504	0.00%	99.88%
85.0	0.450	0.621	913.126	0.00%	99.95%
90.0	0.000	0.123	913.249	0.00%	99.96%
95.0	0.000	0.000	913.249	0.00%	99.96%
100.0	0.000	0.000	913.249	0.00%	99.96%
105.0	0.000	0.000	913.249	0.00%	99.96%
110.0	0.000	0.000	913.249	0.00%	99.96%
115.0	0.000	0.000	913.249	0.00%	99.96%
120.0	0.000	0.000	913.249	0.00%	99.96%
125.0	0.000	0.000	913.249	0.00%	99.96%
130.0	0.000	0.000	913.249	0.00%	99.96%
135.0	0.000	0.000	913.249	0.00%	99.96%
140.0	0.000	0.000	913.249	0.00%	99.96%
145.0	0.018	0.003	913.252	0.00%	99.96%
150.0	0.074	0.014	913.266	0.00%	99.96%
155.0	0.205	0.035	913.301	0.00%	99.97%
160.0	0.459	0.070	913.371	0.00%	99.97%
165.0	0.609	0.088	913.459	0.00%	99.98%
170.0	0.721	0.079	913.537	0.00%	99.99%
175.0	0.787	0.054	913.591	0.00%	100.00%
180.0	0.819	0.019	913.611	0.00%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	852.99	N.A.	93.36%
0-40	877.20	N.A.	96.01%
0-60	901.62	N.A.	98.69%
0-90	913.25	N.A.	99.96%
0-120	913.25	N.A.	99.96%
0-180	913.61	N.A.	100.00%
60-90	11.63	N.A.	1.27%
90-120	0.00	N.A.	0.00%
90-130	0.00	N.A.	0.00%
90-150	0.02	N.A.	0.00%
90-180	0.34	N.A.	0.04%
0-21.74	730.89	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	246.15
10-20	443.06
20-30	163.78
30-40	24.21
40-50	13.80
50-60	10.62
60-70	7.21
70-80	3.68
80-90	0.74
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.02
150-160	0.11
160-170	0.17
170-180	0.05



C0/C180: —

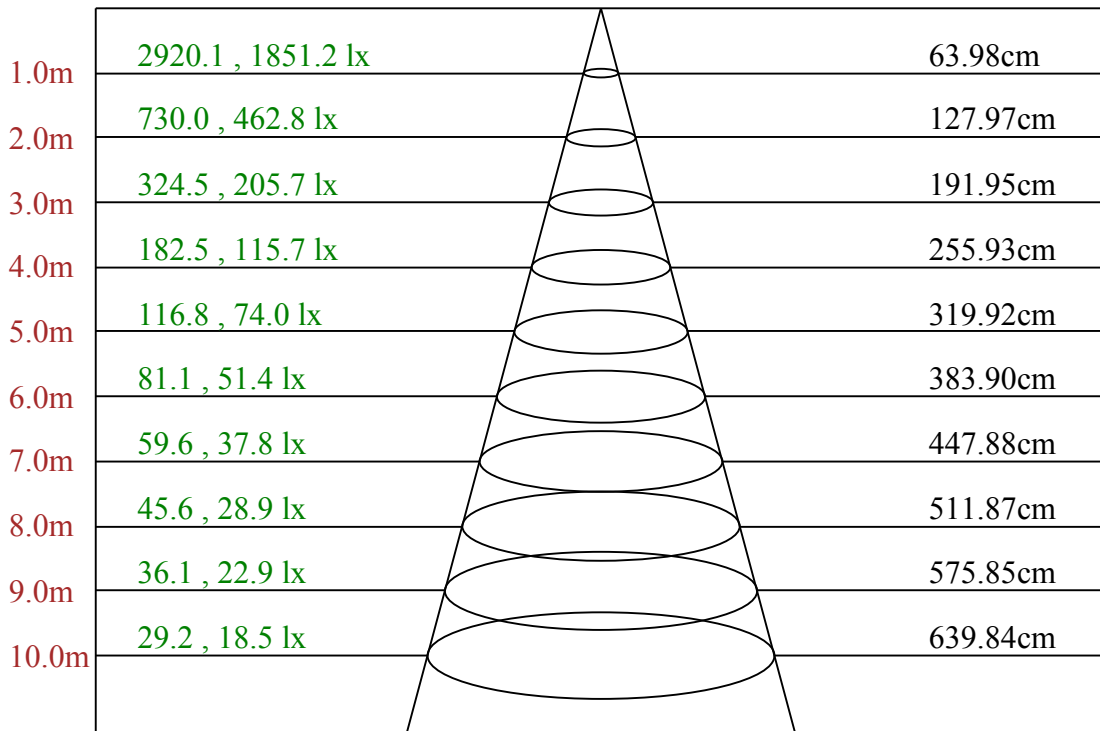
C90/C270: —

Field angle(10%Imax):C0/180Left:27.3 Right:22.3

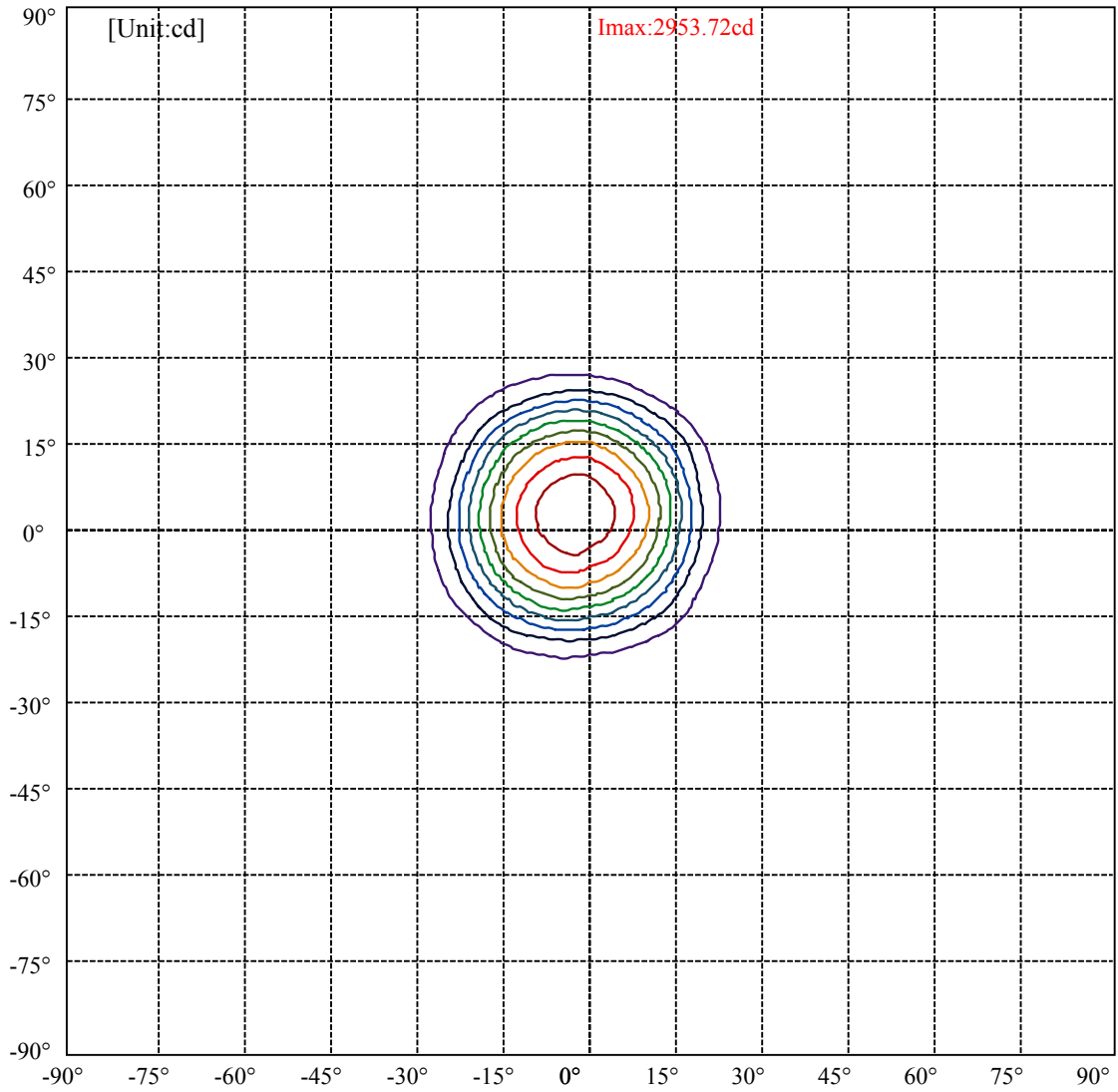
:C90/270Left:21.4 Right:26.6

Beam Angle(50%Imax):C0/180Left:19.1 Right:13.8

:C90/270Left:13.2 Right:18.9



Max , Ave Beam angle of C135 plane 35.48



(10%I _{max}) 295.085	—
(20%I _{max}) 590.169	—
(30%I _{max}) 885.254	—
(40%I _{max}) 1180.34	—
(50%I _{max}) 1475.42	—
(60%I _{max}) 1770.51	—
(70%I _{max}) 2065.59	—
(80%I _{max}) 2360.68	—
(90%I _{max}) 2655.76	—

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	2867.69	2568.89	2033.35	1245.72	457.03	80.92	38.88	23.96	19.29
22.5	2867.69	2635.08	2197.76	1475.18	608.99	146.78	43.75	26.55	20.21
45.0	2867.69	2725.16	2346.17	1667.72	878.09	270.08	67.25	36.05	23.93
67.5	2867.69	2799.41	2477.08	1851.70	1029.65	315.50	76.03	35.21	22.92
90.0	2867.69	2899.59	2611.54	2085.41	1262.42	400.03	63.78	35.71	23.66
112.5	2867.69	2945.79	2668.14	2170.74	1414.99	516.26	101.86	40.39	24.80
135.0	2867.69	2953.72	2688.75	2211.80	1474.38	632.78	155.68	53.45	33.18
157.5	2867.69	2911.43	2659.54	2188.68	1419.65	536.24	123.24	41.78	24.35
180.0	2867.69	2858.80	2586.52	2095.28	1295.59	474.21	67.21	33.60	22.75
202.5	2867.69	2783.97	2462.96	1922.00	1100.62	388.90	91.87	38.17	22.63
225.0	2867.69	2705.01	2324.21	1655.60	857.04	245.39	70.89	37.41	22.87
247.5	2867.69	2629.90	2170.84	1439.08	562.25	112.45	43.55	26.41	20.34
270.0	2867.69	2506.46	1959.46	1167.48	379.90	63.19	37.48	24.25	19.11
292.5	2867.69	2465.32	1884.92	1086.86	363.62	80.62	37.71	24.35	19.15
315.0	2867.69	2479.17	1889.78	1094.11	406.69	83.02	40.53	27.47	18.92
337.5	2867.69	2504.14	1933.04	1151.98	359.80	90.02	38.32	24.05	18.94
360.0	2867.69	2568.89	2033.35	1245.72	457.03	80.92	38.88	23.96	19.29
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	16.12	13.86	11.30	9.04	6.78	4.82	3.01	1.36	0.15
22.5	16.59	14.33	11.77	9.35	7.24	5.28	3.47	1.81	0.45
45.0	17.87	14.24	11.82	9.54	7.42	5.45	3.79	2.12	0.76
67.5	18.51	14.87	12.60	10.17	7.89	5.77	3.95	2.43	0.91
90.0	18.81	15.73	12.93	10.43	8.08	5.88	3.97	2.35	1.18
112.5	19.75	15.59	13.07	10.69	8.32	6.09	4.16	2.67	1.04
135.0	19.97	15.76	12.76	10.36	8.11	6.01	4.05	2.55	1.05
157.5	19.24	15.48	12.93	10.22	7.97	5.86	3.91	2.10	0.60
180.0	18.08	15.22	12.51	9.95	7.69	5.58	3.62	1.96	0.30
202.5	17.95	14.63	12.07	9.50	7.09	5.28	3.47	1.66	0.30
225.0	17.27	13.33	11.06	8.94	6.82	4.85	3.03	1.36	0.30
247.5	16.09	13.66	11.08	8.65	6.37	4.40	2.73	1.21	0.00
270.0	15.87	13.52	11.17	8.67	6.61	4.70	3.09	1.76	0.15
292.5	15.89	13.21	10.84	8.32	6.24	4.60	2.82	1.49	0.00
315.0	15.76	12.91	10.66	8.41	6.46	4.50	2.85	1.35	0.00
337.5	15.78	13.53	11.12	8.72	6.61	4.81	3.01	1.20	0.00
360.0	16.12	13.86	11.30	9.04	6.78	4.82	3.01	1.36	0.15
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

LD4S-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	0.15	0.30	0.60	0.75	0.60	0.75
22.5	0.00	0.00	0.00	0.15	0.30	0.45	0.45	0.75	0.75
45.0	0.00	0.00	0.00	0.00	0.15	0.30	0.61	0.61	0.76
67.5	0.00	0.00	0.00	0.00	0.15	0.46	0.46	0.46	0.76
90.0	0.00	0.00	0.00	0.00	0.15	0.44	0.59	1.03	1.03
112.5	0.00	0.00	0.00	0.00	0.15	0.30	0.45	0.74	0.89
135.0	0.00	0.00	0.00	0.00	0.00	0.30	0.45	0.60	0.75
157.5	0.00	0.00	0.00	0.00	0.00	0.30	0.60	0.60	0.90
180.0	0.00	0.00	0.00	0.00	0.00	0.30	0.45	0.75	0.45
202.5	0.00	0.00	0.00	0.00	0.00	0.30	0.45	0.60	0.60
225.0	0.00	0.00	0.00	0.00	0.15	0.30	0.45	0.61	0.61
247.5	0.00	0.00	0.00	0.00	0.00	0.46	0.61	0.61	0.76
270.0	0.00	0.00	0.15	0.44	0.59	0.88	1.03	1.18	1.18
292.5	0.00	0.00	0.15	0.15	0.59	0.59	0.89	0.89	0.89
315.0	0.00	0.00	0.00	0.15	0.30	0.75	0.75	0.75	0.75
337.5	0.00	0.00	0.00	0.15	0.45	0.60	0.75	0.75	0.75
360.0	0.00	0.00	0.00	0.15	0.30	0.60	0.75	0.60	0.75
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								