



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

LumCAT: LD4S-35K

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 119.99

LampCAT:

Current(A): 0.1240

Lamp flux(lm): -1.0

Power (W): 14.64

Number of Lamps: 1

PF: 0.9868

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1258.16, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 85.92

Central intensity(cd): 4020.941, Maximum intensity(cd): 4134.457

Angle of maximum intensity: C=180.0 γ =5.0

Beam Angle(50%Imax): [C0/180]Total=31.0

[C90/270]Total=32.5

Field angle(10%Imax): [C0/180]Total=46.4

[C90/270]Total=48.3

Maximum s/h(1/2): C0_180=0.64 C90_270=0.58

Maximum s/h(1/4): C0_180=0.58 C90_270=0.53

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 0.00%

Up flux rate of LUM(%): 0.11%

Down flux rate of LUM(%): 99.89%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 98.478%

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

Date:
Humidity(%): 59%

Operator: jarvis

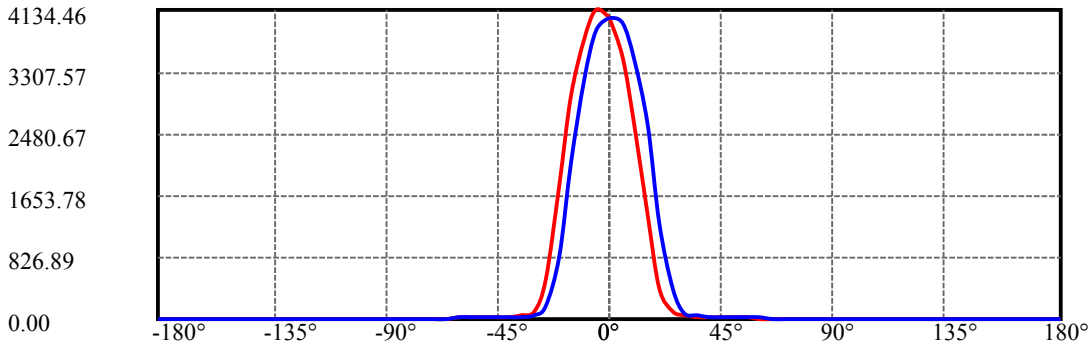
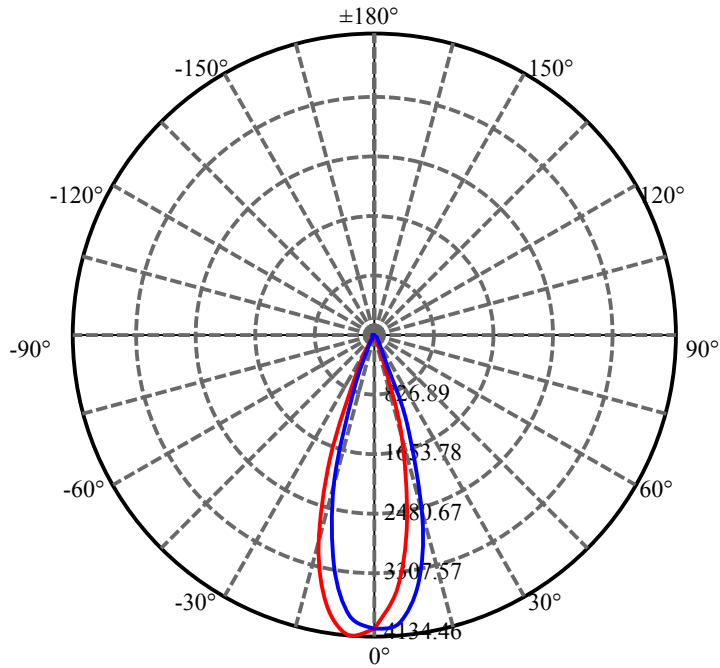
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	4020.941	0.000	0	0.00%	0.00%
5.0	3835.009	93.916	93.916	0.00%	7.46%
10.0	3215.309	252.212	346.128	0.00%	27.51%
15.0	2255.991	324.554	670.681	0.00%	53.31%
20.0	1134.566	279.430	950.111	0.00%	75.52%
25.0	373.642	158.183	1108.294	0.00%	88.09%
30.0	96.806	59.536	1167.83	0.00%	92.82%
35.0	49.346	21.522	1189.352	0.00%	94.53%
40.0	33.105	13.756	1203.108	0.00%	95.62%
45.0	25.610	10.872	1213.98	0.00%	96.49%
50.0	21.033	9.425	1223.405	0.00%	97.24%
55.0	17.410	8.359	1231.763	0.00%	97.90%
60.0	13.969	7.253	1239.017	0.00%	98.48%
65.0	10.766	6.013	1245.03	0.00%	98.96%
70.0	7.848	4.713	1249.743	0.00%	99.33%
75.0	5.315	3.440	1253.183	0.00%	99.60%
80.0	2.998	2.224	1255.408	0.00%	99.78%
85.0	1.068	1.105	1256.512	0.00%	99.87%
90.0	0.011	0.295	1256.808	0.00%	99.89%
95.0	0.000	0.003	1256.811	0.00%	99.89%
100.0	0.000	0.000	1256.811	0.00%	99.89%
105.0	0.000	0.000	1256.811	0.00%	99.89%
110.0	0.000	0.000	1256.811	0.00%	99.89%
115.0	0.000	0.000	1256.811	0.00%	99.89%
120.0	0.011	0.003	1256.814	0.00%	99.89%
125.0	0.000	0.003	1256.816	0.00%	99.89%
130.0	0.000	0.000	1256.816	0.00%	99.89%
135.0	0.023	0.005	1256.821	0.00%	99.89%
140.0	0.114	0.025	1256.846	0.00%	99.90%
145.0	0.273	0.064	1256.911	0.00%	99.90%
150.0	0.545	0.120	1257.031	0.00%	99.91%
155.0	1.011	0.197	1257.228	0.00%	99.93%
160.0	1.431	0.256	1257.484	0.00%	99.95%
165.0	1.738	0.261	1257.745	0.00%	99.97%
170.0	1.988	0.221	1257.966	0.00%	99.98%
175.0	2.044	0.144	1258.11	0.00%	100.00%
180.0	2.341	0.052	1258.163	0.00%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1167.83	N.A.	92.82%
0-40	1203.11	N.A.	95.62%
0-60	1239.02	N.A.	98.48%
0-90	1256.81	N.A.	99.89%
0-120	1256.81	N.A.	99.89%
0-180	1258.16	N.A.	100.00%
60-90	17.79	N.A.	1.41%
90-120	0.01	N.A.	0.00%
90-130	0.01	N.A.	0.00%
90-150	0.22	N.A.	0.02%
90-180	1.30	N.A.	0.10%
0-21.78	1006.53	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	346.13
10-20	603.98
20-30	217.72
30-40	35.28
40-50	20.30
50-60	15.61
60-70	10.73
70-80	5.66
80-90	1.40
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.03
140-150	0.18
150-160	0.45
160-170	0.48
170-180	0.14

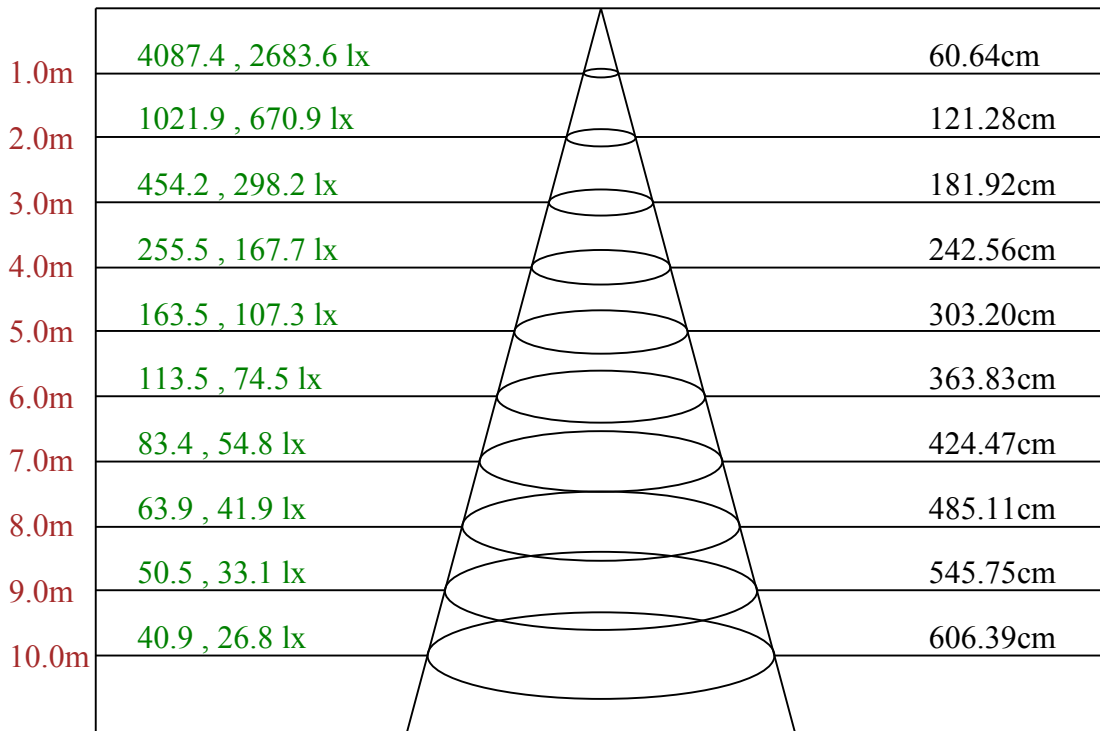


C0/C180: —

C90/C270: —

Field angle(10%Imax):C0/180Left:26.4 Right:20.0
:C90/270Left:23.3 Right:25.0

Beam Angle(50%Imax):C0/180Left:18.8 Right:12.2
:C90/270Left:15.3 Right:17.2



Max , Ave Beam angle of C180 plane 33.73

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	4020.94	3488.66	2590.10	1394.26	407.76	90.49	51.42	35.43	28.35
22.5	4020.94	3451.77	2535.22	1411.35	425.38	118.66	55.60	36.34	29.44
45.0	4020.94	3452.32	2595.92	1449.87	550.40	153.91	67.23	47.43	29.98
67.5	4020.94	3487.93	2718.75	1593.24	558.58	178.26	63.05	37.25	29.62
90.0	4020.94	3967.28	3462.13	2580.83	1285.24	403.76	86.68	45.79	34.16
112.5	4020.94	4016.35	3563.89	2766.18	1521.46	534.59	133.19	58.69	35.80
135.0	4020.94	4065.41	3645.66	2873.39	1685.00	668.88	176.99	73.05	45.97
157.5	4020.94	4109.02	3698.35	2938.80	1781.31	567.48	141.73	59.78	35.07
180.0	4020.94	4134.46	3740.15	2980.60	1794.03	538.04	99.94	52.70	33.07
202.5	4020.94	4121.74	3729.24	3006.04	1843.09	595.10	133.74	58.33	34.71
225.0	4020.94	4083.58	3685.63	2924.27	1812.20	903.65	152.09	67.60	40.70
247.5	4020.94	4030.88	3631.12	2887.92	1663.20	535.32	124.84	55.79	33.98
270.0	4020.94	3861.89	3203.74	2088.22	835.14	174.62	63.60	37.98	28.89
292.5	4020.94	3920.04	3067.82	1946.12	749.01	203.70	66.69	38.52	29.98
315.0	4020.94	3610.95	2863.57	1708.99	732.11	175.71	73.05	47.43	30.16
337.5	4020.94	3557.89	2713.66	1545.81	509.15	136.10	59.06	37.43	29.80
360.0	4020.94	3488.66	2590.10	1394.26	407.76	90.49	51.42	35.43	28.35
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	24.17	20.17	16.54	12.72	9.81	6.91	4.54	2.54	0.73
22.5	23.62	20.17	16.35	13.08	9.99	7.09	4.72	2.54	0.91
45.0	24.53	19.08	15.99	12.72	9.81	7.09	4.54	2.36	0.73
67.5	23.99	20.17	16.54	12.90	9.81	6.91	4.36	2.36	0.73
90.0	27.26	23.26	19.44	15.81	12.18	8.72	6.00	3.27	0.73
112.5	28.35	23.26	19.26	15.26	11.81	8.72	6.00	3.45	1.45
135.0	28.35	21.99	17.99	14.72	11.45	8.54	5.82	3.45	1.45
157.5	27.26	21.62	18.35	15.08	11.63	8.72	5.82	3.45	1.45
180.0	25.62	21.62	17.99	14.72	11.63	8.36	5.82	3.45	1.64
202.5	26.71	21.44	18.17	14.54	11.27	8.72	6.00	3.63	1.64
225.0	26.71	21.62	17.26	14.36	11.08	8.36	6.00	3.82	1.64
247.5	26.53	21.44	18.35	14.90	11.81	8.72	6.36	3.82	1.82
270.0	23.80	20.53	16.54	13.27	9.99	7.27	5.09	2.73	0.73
292.5	24.17	20.35	16.72	13.27	10.18	7.45	4.54	2.36	0.36
315.0	24.53	19.44	16.35	13.08	9.99	6.91	4.54	2.36	0.73
337.5	24.17	20.35	16.72	13.08	9.81	7.09	4.91	2.36	0.36
360.0	24.17	20.17	16.54	12.72	9.81	6.91	4.54	2.54	0.73
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	0.18	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	0.18	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-35K

Intensity data(cd)

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C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	0.00	0.18	0.55	0.55	1.45	1.82	2.18	2.00	2.18
22.5	0.18	0.18	0.36	0.91	1.45	1.64	2.00	2.18	2.00
45.0	0.00	0.36	0.55	1.09	1.27	1.82	2.00	2.00	2.00
67.5	0.18	0.36	0.73	0.91	1.45	1.82	2.00	2.00	2.00
90.0	0.00	0.00	0.18	0.18	0.91	1.09	1.27	1.82	2.00
112.5	0.00	0.00	0.00	0.36	0.91	1.27	1.64	2.00	1.82
135.0	0.00	0.00	0.00	0.36	0.73	1.09	1.45	1.82	2.00
157.5	0.00	0.00	0.00	0.18	0.73	1.27	1.45	1.64	1.82
180.0	0.00	0.00	0.18	0.18	0.73	1.09	1.45	1.82	2.00
202.5	0.00	0.00	0.18	0.36	0.73	1.27	1.64	1.82	1.82
225.0	0.00	0.00	0.00	0.18	0.73	1.09	1.45	1.82	2.00
247.5	0.00	0.00	0.18	0.55	0.55	1.27	1.45	1.82	2.00
270.0	0.00	0.18	0.18	0.91	1.09	1.82	2.18	2.36	2.18
292.5	0.00	0.18	0.36	0.55	1.09	1.45	2.00	2.36	2.18
315.0	0.00	0.18	0.55	0.73	1.09	1.45	1.82	2.18	2.36
337.5	0.00	0.18	0.36	0.73	1.27	1.64	1.82	2.18	2.36
360.0	0.00	0.18	0.55	0.55	1.45	1.82	2.18	2.00	2.18
C/γ(°)	180.0								
0.0	2.34								
22.5	2.34								
45.0	2.34								
67.5	2.34								
90.0	2.34								
112.5	2.34								
135.0	2.34								
157.5	2.34								
180.0	2.34								
202.5	2.34								
225.0	2.34								
247.5	2.34								
270.0	2.34								
292.5	2.34								
315.0	2.34								
337.5	2.34								
360.0	2.34								