



Shenzhen Belling Efficiency Testing Laboratory Co.,Ltd.
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LumCAT: LRG3-40K-15D

Luminaire:

Report No:

Voltage(V): 120.16

Test No:

Current(A): 0.0613

LampCAT:

Power (W): 7.1760

Lamp flux(lm): 583.5

PF: 0.9748

Number of Lamps: 1

Ballast type:

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 583.53

Efficiency(%): 100.00%

Lumens(lm)/Power(W): 81.32

Central intensity(cd): 2504.931

Maximum intensity(cd): 2504.931

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=18.5

[C90/270]Total=19.7

Field angle(10%Imax): [C0/180]Total=39.2

[C90/270]Total=40.5

Maximum s/h(1/2): C0_180=0.34 C90_270=0.28

Maximum s/h(1/4): C0_180=0.49 C90_270=0.28

Up flux rate of lamp(%): 0.23%

Down flux rate of lamp(%): 99.77%

Up flux rate of LUM(%): 0.23%

Down flux rate of LUM(%): 99.77%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 92.463%

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

Date:
Humidity(%): 58%

Operator: Zac

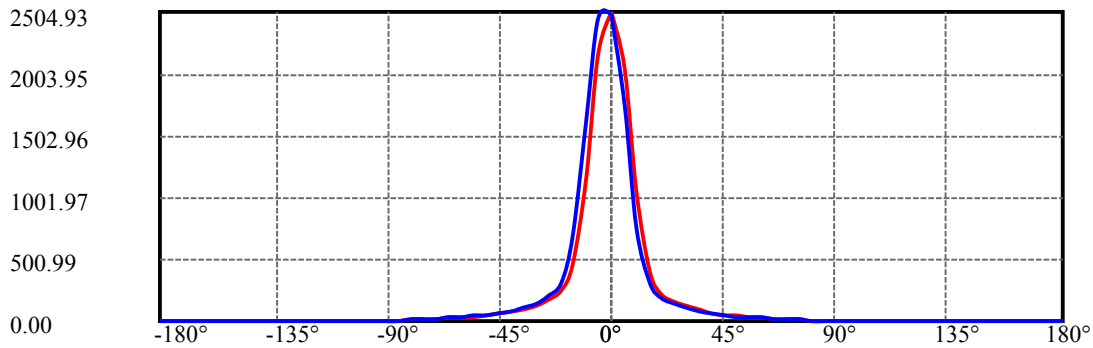
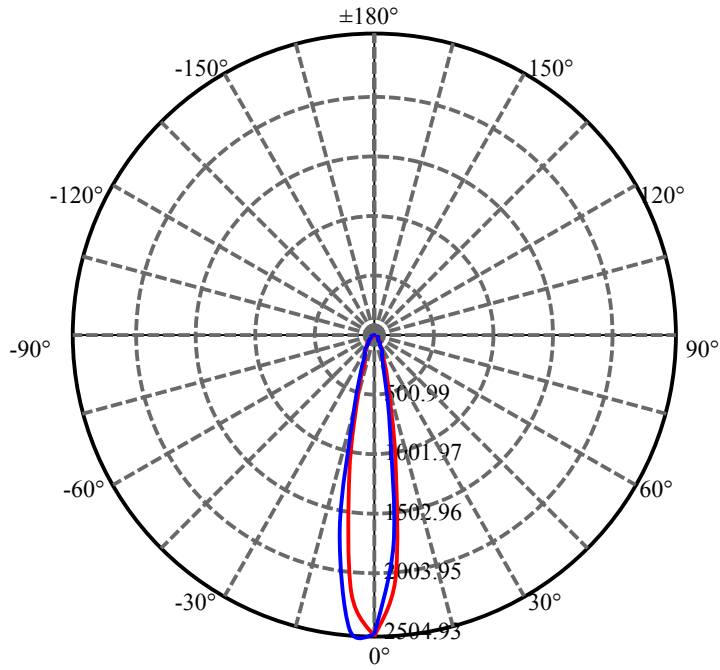
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2487.896	.000	.000	.000%	.000%
5.0	2087.103	54.693	54.693	9.373%	9.373%
10.0	1142.928	115.548	170.241	19.802%	29.175%
15.0	467.189	95.511	265.752	16.368%	45.542%
20.0	242.912	58.522	324.275	10.029%	55.571%
25.0	166.021	42.889	367.164	7.350%	62.922%
30.0	122.561	36.520	403.684	6.259%	69.180%
35.0	91.804	31.567	435.251	5.410%	74.590%
40.0	70.844	27.137	462.388	4.650%	79.240%
45.0	55.990	23.484	485.872	4.025%	83.265%
50.0	45.001	20.407	506.279	3.497%	86.762%
55.0	36.774	17.781	524.059	3.047%	89.809%
60.0	30.233	15.489	539.548	2.654%	92.463%
65.0	24.535	13.314	552.862	2.282%	94.745%
70.0	19.390	11.122	563.984	1.906%	96.651%
75.0	13.779	8.670	572.654	1.486%	98.137%
80.0	8.053	5.842	578.495	1.001%	99.138%
85.0	2.645	2.907	581.402	.498%	99.636%
90.0	.175	.772	582.174	.132%	99.768%
95.0	.087	.072	582.246	.012%	99.781%
100.0	.087	.047	582.294	.008%	99.789%
105.0	.087	.047	582.340	.008%	99.797%
110.0	.116	.053	582.394	.009%	99.806%
115.0	.116	.059	582.453	.010%	99.816%
120.0	.146	.064	582.516	.011%	99.827%
125.0	.117	.061	582.577	.010%	99.837%
130.0	.145	.057	582.634	.010%	99.847%
135.0	.146	.059	582.692	.010%	99.857%
140.0	.233	.070	582.763	.012%	99.869%
145.0	.378	.102	582.864	.017%	99.886%
150.0	.407	.116	582.980	.020%	99.906%
155.0	.552	.121	583.102	.021%	99.927%
160.0	.727	.134	583.236	.023%	99.950%
165.0	.756	.122	583.358	.021%	99.971%
170.0	.843	.095	583.453	.016%	99.987%
175.0	.698	.055	583.508	.009%	99.997%
180.0	.872	.019	583.527	.003%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	403.68	69.18%	69.18%
0-40	462.39	79.24%	79.24%
0-60	539.55	92.46%	92.46%
0-90	582.17	99.77%	99.77%
0-120	582.52	99.83%	99.83%
0-180	583.53	100.00%	100.00%
60-90	58.12	9.96%	9.96%
90-120	1.11	0.19%	0.19%
90-130	1.23	0.21%	0.21%
90-150	1.58	0.27%	0.27%
90-180	2.11	0.36%	0.36%
0-40.94	466.82	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	170.24
10-20	154.03
20-30	79.41
30-40	58.70
40-50	43.89
50-60	33.27
60-70	24.44
70-80	14.51
80-90	3.68
90-100	0.12
100-110	0.10
110-120	0.12
120-130	0.12
130-140	0.13
140-150	0.22
150-160	0.26
160-170	0.22
170-180	0.06



C0/C180: —

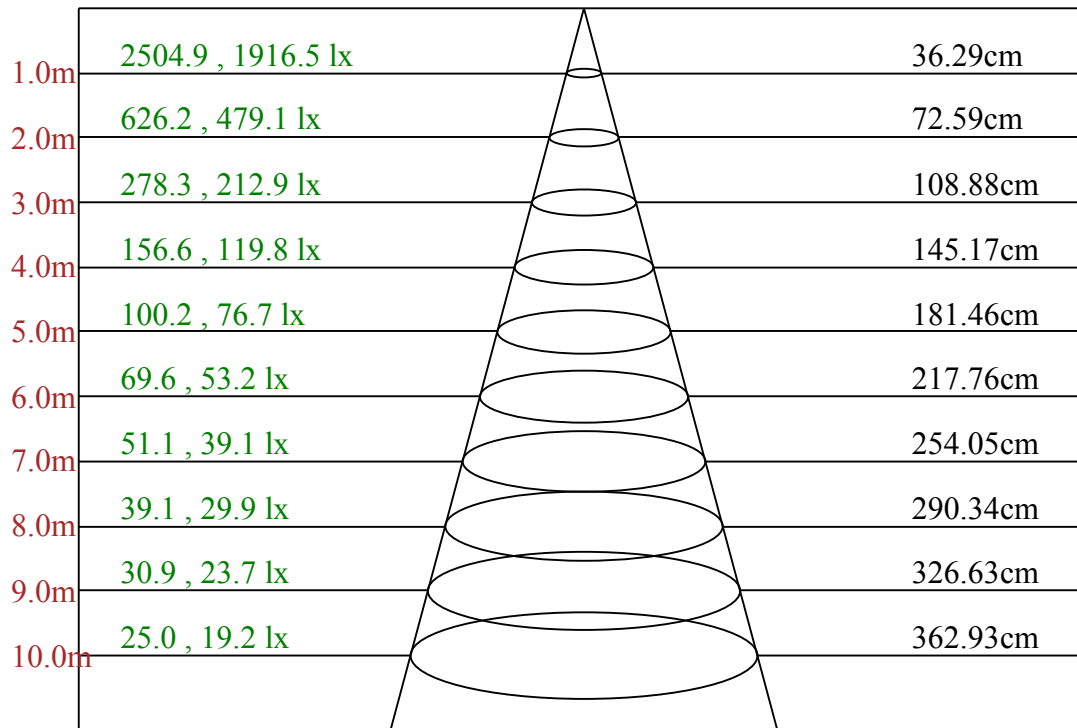
C90/C270: —

Field angle(10%Imax):C0/180Left:19.9 Right:19.3

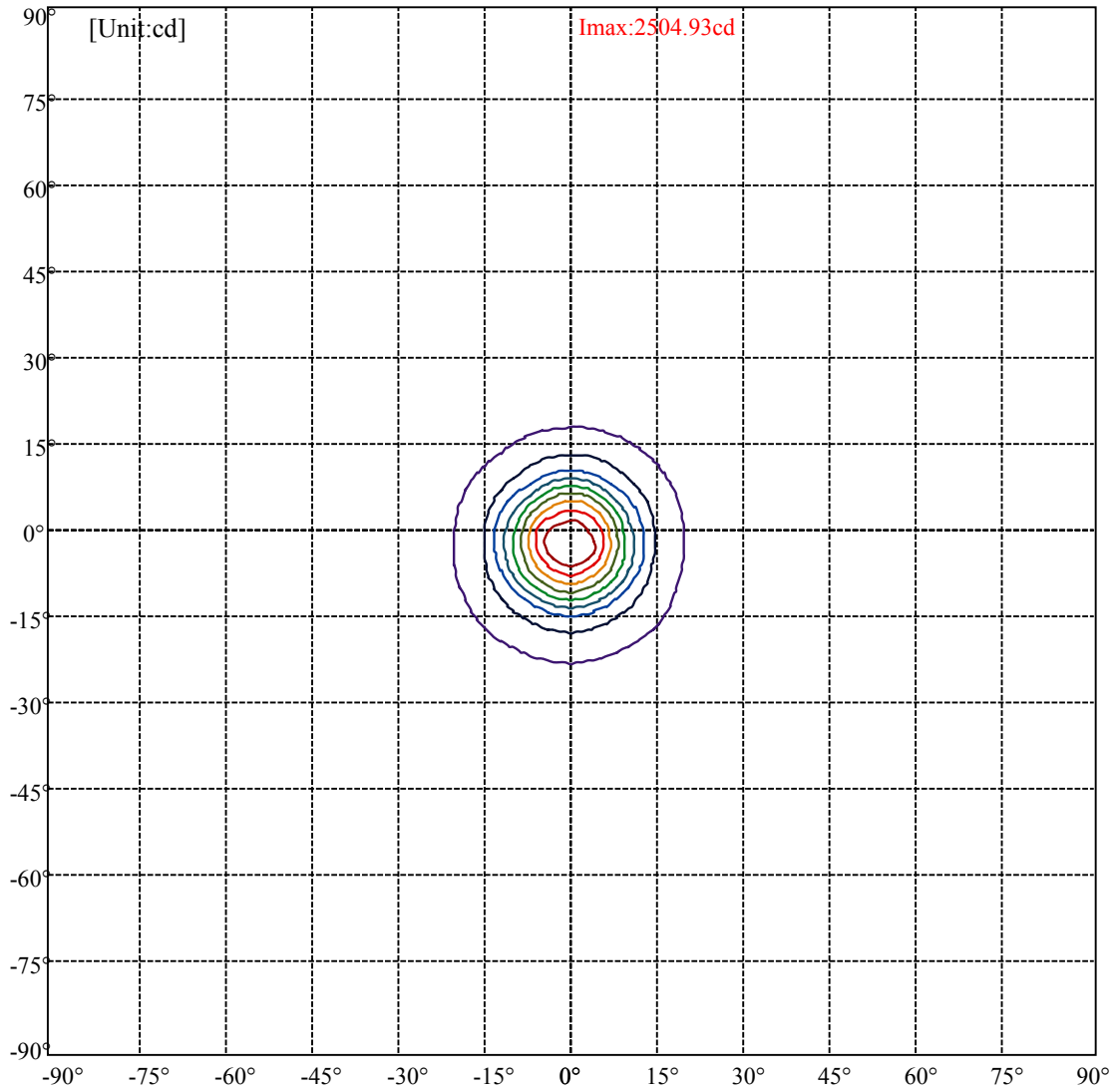
:C90/270Left:22.9 Right:17.6

Beam Angle(50%Imax):C0/180Left:9.6 Right:9.0

:C90/270Left:12.1 Right:7.6



Max , Ave Beam angle of C0plane20.57



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	2504.93	2032.36	1050.49	410.94	223.96	162.56	120.70	90.00	68.84
45.0	2497.02	1829.80	794.43	339.08	200.47	141.17	104.19	78.61	61.63
90.0	2484.00	1747.48	762.11	309.08	193.03	139.54	102.10	76.75	60.47
135.0	2465.63	1802.36	807.22	322.33	190.70	133.96	100.47	76.75	62.09
180.0	2504.93	2143.76	1167.23	464.43	246.98	171.86	128.84	98.37	75.58
225.0	2497.02	2351.21	1490.03	614.66	290.01	192.79	140.93	103.26	77.68
270.0	2484.00	2446.33	1633.29	696.06	316.75	198.38	143.96	107.21	82.56
315.0	2465.63	2343.53	1438.63	580.94	281.40	187.91	139.31	103.49	77.91
360.0	2504.93	2032.36	1050.49	410.94	223.96	162.56	120.70	90.00	68.84

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	53.96	42.79	34.65	28.14	23.26	19.07	13.26	7.44	2.33
45.0	49.07	39.77	32.56	26.51	21.16	16.51	11.63	6.51	1.16
90.0	47.91	38.84	32.33	27.21	21.63	16.28	11.16	5.81	1.16
135.0	50.23	41.63	34.19	28.37	22.56	17.44	11.63	6.28	1.40
180.0	59.07	46.75	38.37	31.16	25.35	20.23	14.42	8.61	2.09
225.0	61.40	49.30	40.47	33.26	27.21	21.86	15.81	9.54	4.19
270.0	65.12	51.63	41.63	34.19	28.14	22.33	16.51	10.47	4.65
315.0	61.16	49.30	40.00	33.02	26.98	21.40	15.81	9.77	4.19
360.0	53.96	42.79	34.65	28.14	23.26	19.07	13.26	7.44	2.33

C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	0.00	0.23	0.00	0.00	0.47	0.00	0.00	0.00	0.00
45.0	0.00	0.00	0.00	0.23	0.00	0.47	0.23	0.23	0.23
90.0	0.00	0.23	0.23	0.23	0.23	0.47	0.47	0.23	0.47
135.0	0.23	0.23	0.47	0.23	0.23	0.00	0.23	0.23	0.47
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
225.0	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00
270.0	0.70	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00
315.0	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
360.0	0.00	0.23	0.00	0.00	0.47	0.00	0.00	0.00	0.00

C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	0.23	0.00	0.23	0.23	0.47	0.47	0.47	0.47	0.47
45.0	0.23	0.47	0.47	0.70	0.93	0.70	0.93	0.93	0.70
90.0	0.23	0.47	0.70	0.70	0.70	1.16	0.93	0.93	0.70
135.0	0.23	0.47	0.70	0.70	0.70	0.93	0.93	1.16	0.93
180.0	0.00	0.23	0.23	0.23	0.47	0.47	0.70	0.70	0.70
225.0	0.00	0.00	0.23	0.47	0.70	0.47	0.70	0.70	0.70
270.0	0.23	0.00	0.23	0.00	0.00	0.70	0.70	0.93	0.47
315.0	0.00	0.23	0.23	0.23	0.47	0.93	0.70	0.93	0.93
360.0	0.23	0.00	0.23	0.23	0.47	0.47	0.47	0.47	0.47

C/γ(°)	180.0
0.0	0.70
45.0	1.16
90.0	0.93
135.0	0.70
180.0	0.70
225.0	1.16
270.0	0.93
315.0	0.70
360.0	0.70