



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

LumCAT: LRG2-35K-HO

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.06

LampCAT:

Current(A): 0.0470

Lamp flux(lm): -1.0

Power (W): 5.27

Number of Lamps: 1

PF: 0.9385

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 504.68, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 95.84

Central intensity(cd): 995.466, Maximum intensity(cd): 995.466

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=34.6

[C90/270]Total=34.6

Field angle(10%Imax): [C0/180]Total=72.1

[C90/270]Total=73.2

Maximum s/h(1/2): C0_180=0.59 C90_270=0.64

Maximum s/h(1/4): C0_180=0.62 C90_270=0.65

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 0.00%

Up flux rate of LUM(%): 0.05%

Down flux rate of LUM(%): 99.95%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 98.297%

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

Date:
Humidity(%): 59%

Operator: jarvis

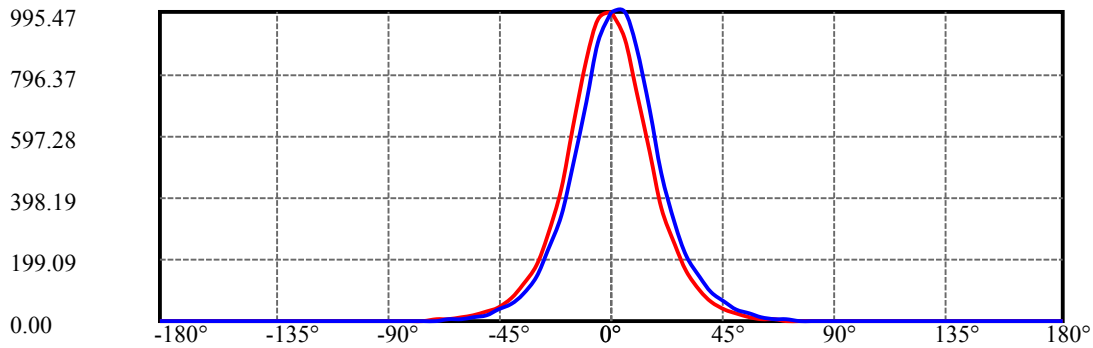
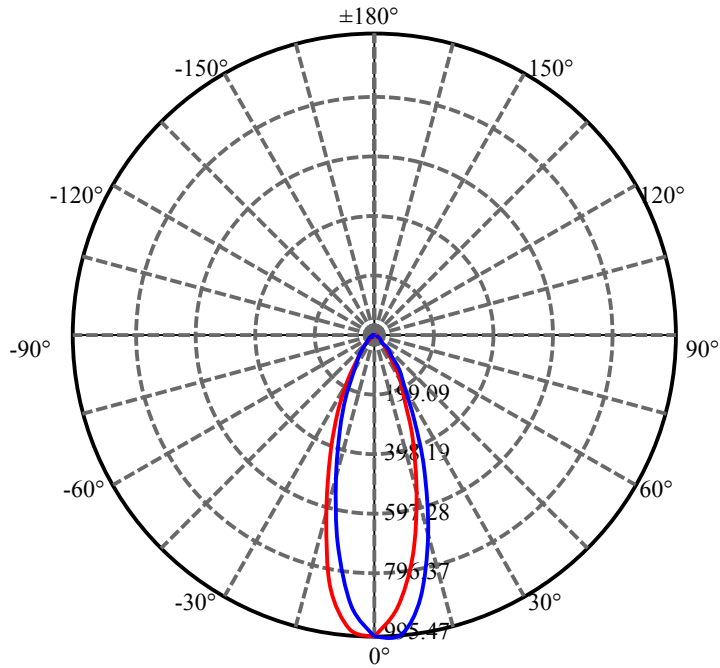
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	995.466	0.000	0	0.00%	0.00%
5.0	939.328	23.130	23.13	0.00%	4.58%
10.0	792.699	61.960	85.09	0.00%	16.86%
15.0	586.055	81.787	166.877	0.00%	33.07%
20.0	399.528	81.226	248.103	0.00%	49.16%
25.0	266.000	69.802	317.904	0.00%	62.99%
30.0	171.817	55.406	373.31	0.00%	73.97%
35.0	110.310	41.545	414.856	0.00%	82.20%
40.0	70.284	30.131	444.986	0.00%	88.17%
45.0	43.218	21.016	466.002	0.00%	92.34%
50.0	26.744	14.137	480.139	0.00%	95.14%
55.0	17.079	9.529	489.668	0.00%	97.02%
60.0	10.708	6.423	496.09	0.00%	98.30%
65.0	6.023	4.067	500.158	0.00%	99.10%
70.0	3.269	2.353	502.511	0.00%	99.57%
75.0	1.159	1.157	503.668	0.00%	99.80%
80.0	0.747	0.510	504.178	0.00%	99.90%
85.0	0.116	0.234	504.412	0.00%	99.95%
90.0	0.000	0.032	504.444	0.00%	99.95%
95.0	0.000	0.000	504.444	0.00%	99.95%
100.0	0.000	0.000	504.444	0.00%	99.95%
105.0	0.000	0.000	504.444	0.00%	99.95%
110.0	0.000	0.000	504.444	0.00%	99.95%
115.0	0.000	0.000	504.444	0.00%	99.95%
120.0	0.000	0.000	504.444	0.00%	99.95%
125.0	0.000	0.000	504.444	0.00%	99.95%
130.0	0.000	0.000	504.444	0.00%	99.95%
135.0	0.000	0.000	504.444	0.00%	99.95%
140.0	0.013	0.002	504.446	0.00%	99.95%
145.0	0.000	0.002	504.449	0.00%	99.95%
150.0	0.052	0.008	504.456	0.00%	99.95%
155.0	0.232	0.036	504.492	0.00%	99.96%
160.0	0.270	0.053	504.545	0.00%	99.97%
165.0	0.348	0.051	504.596	0.00%	99.98%
170.0	0.425	0.046	504.641	0.00%	99.99%
175.0	0.451	0.031	504.673	0.00%	100.00%
180.0	0.460	0.011	504.684	0.00%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	373.31	N.A.	73.97%
0-40	444.99	N.A.	88.17%
0-60	496.09	N.A.	98.30%
0-90	504.44	N.A.	99.95%
0-120	504.44	N.A.	99.95%
0-180	504.68	N.A.	100.00%
60-90	8.35	N.A.	1.66%
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	0.23	N.A.	0.05%
0-33.66	403.75	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	85.09
10-20	163.01
20-30	125.21
30-40	71.68
40-50	35.15
50-60	15.95
60-70	6.42
70-80	1.67
80-90	0.27
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	0.09
160-170	0.10
170-180	0.03



C0/C180: —

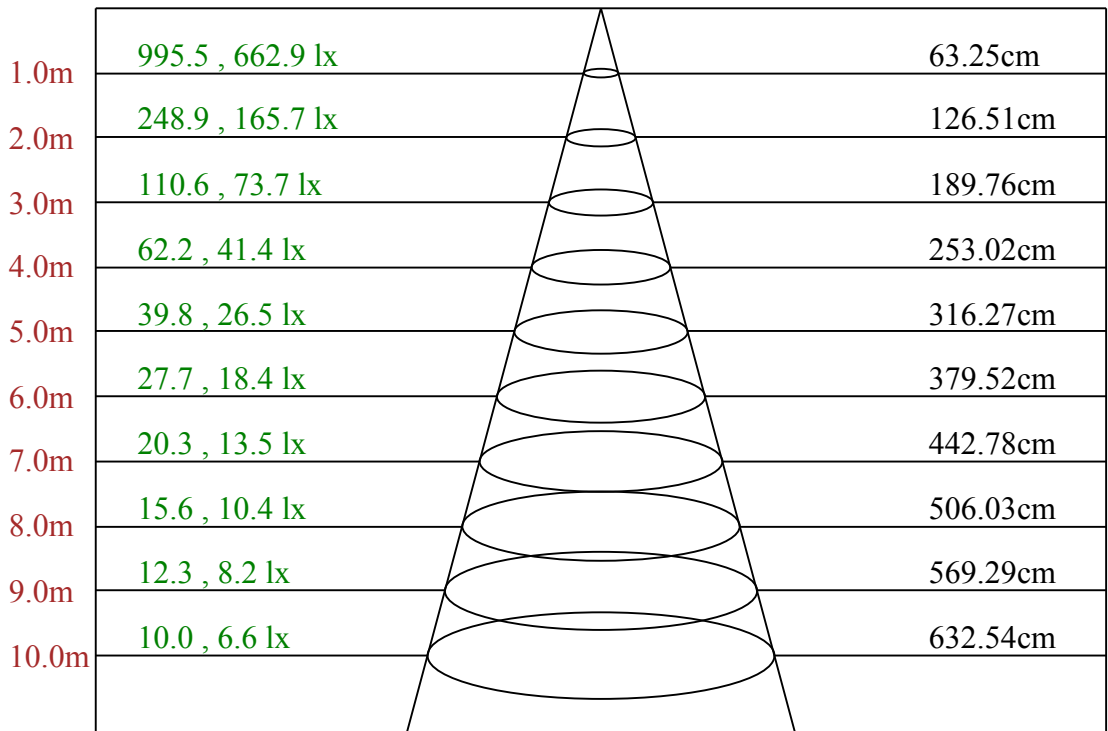
C90/C270: —

Field angle(10%I_{max}):C0/180Left:36.9 Right:35.2

:C90/270Left:34.0 Right:39.2

Beam Angle(50%I_{max}):C0/180Left:18.2 Right:16.4

:C90/270Left:15.1 Right:19.5



Max , Ave Beam angle of C0 plane 35.10

LRG2-35K-HO

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	995.47	906.47	739.47	546.52	367.16	247.52	159.80	101.31	61.78
22.5	995.47	896.79	730.61	542.81	366.54	245.46	157.74	100.70	62.60
45.0	995.47	884.44	721.96	536.02	362.84	243.40	156.91	103.99	67.13
67.5	995.47	876.41	710.43	518.72	351.92	232.90	153.82	103.17	65.28
90.0	995.47	994.40	884.03	681.60	475.06	315.89	207.57	139.62	92.05
112.5	995.47	991.11	877.44	659.36	456.32	302.09	201.39	133.64	89.16
135.0	995.47	983.07	859.52	637.33	437.79	290.76	188.83	123.35	79.90
157.5	995.47	977.93	843.87	619.42	430.38	282.11	181.42	118.20	77.84
180.0	995.47	973.60	843.46	621.68	425.44	279.64	177.71	115.11	73.51
202.5	995.47	971.54	849.84	626.62	425.85	281.08	181.21	114.91	71.87
225.0	995.47	972.37	858.29	637.33	439.23	290.15	186.15	117.17	74.54
247.5	995.47	977.72	879.08	662.87	449.74	299.21	194.19	120.67	74.34
270.0	995.47	895.76	703.84	501.42	337.51	229.19	144.15	88.55	56.42
292.5	995.47	903.59	716.20	520.37	349.86	234.55	150.53	93.49	59.31
315.0	995.47	910.80	728.55	526.13	355.83	237.22	150.94	93.90	57.86
337.5	995.47	913.27	736.59	538.69	360.98	244.84	156.71	97.20	60.95
360.0	995.47	906.47	739.47	546.52	367.16	247.52	159.80	101.31	61.78
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	36.04	22.03	14.00	8.86	5.15	2.88	1.03	0.62	0.21
22.5	37.07	22.45	14.21	9.27	5.35	2.88	1.03	0.62	0.00
45.0	42.21	25.95	16.47	9.68	5.15	2.68	1.03	0.41	0.21
67.5	40.16	25.12	16.47	9.06	5.15	2.88	1.03	0.82	0.00
90.0	58.89	36.45	23.06	14.21	7.21	3.91	1.03	0.62	0.21
112.5	56.63	36.24	22.65	13.80	7.21	3.71	0.82	0.62	0.00
135.0	50.86	31.30	19.56	12.56	6.80	3.50	0.82	0.41	0.21
157.5	49.42	31.30	19.56	12.15	7.00	3.30	1.24	0.62	0.00
180.0	45.10	28.01	18.12	11.74	6.38	3.50	1.24	0.62	0.00
202.5	44.69	27.59	17.30	11.74	6.59	3.50	1.24	0.82	0.00
225.0	46.54	29.45	18.74	12.15	6.80	3.91	1.44	0.82	0.21
247.5	45.30	27.80	17.71	11.94	6.80	4.12	1.65	1.03	0.41
270.0	34.39	21.42	14.00	8.44	5.15	2.68	1.24	1.03	0.00
292.5	35.21	21.42	14.21	8.65	5.15	2.88	1.44	1.03	0.21
315.0	33.36	19.97	13.39	8.44	5.35	2.88	1.24	0.82	0.00
337.5	35.63	21.42	13.80	8.65	5.15	3.09	1.03	1.03	0.21
360.0	36.04	22.03	14.00	8.86	5.15	2.88	1.03	0.62	0.21
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

LRG2-35K-HO

Intensity data(cd)

Appendix Page: 7 Total:7

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	0.00	0.21	0.41	0.41	0.41	0.41
22.5	0.00	0.00	0.00	0.21	0.41	0.21	0.41	0.41	0.62
45.0	0.00	0.00	0.00	0.00	0.21	0.21	0.41	0.41	0.41
67.5	0.00	0.00	0.00	0.21	0.41	0.41	0.41	0.41	0.62
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.41	0.41	0.62
112.5	0.00	0.00	0.00	0.00	0.21	0.21	0.41	0.21	0.41
135.0	0.00	0.00	0.00	0.00	0.00	0.21	0.21	0.41	0.21
157.5	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.21	0.41
180.0	0.00	0.00	0.00	0.00	0.00	0.21	0.41	0.62	0.21
202.5	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.41	0.41
225.0	0.00	0.00	0.00	0.00	0.21	0.41	0.41	0.41	0.41
247.5	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.41	0.41
270.0	0.00	0.00	0.00	0.21	0.21	0.41	0.21	0.41	0.41
292.5	0.00	0.21	0.00	0.21	0.41	0.41	0.41	0.62	0.62
315.0	0.00	0.00	0.00	0.00	0.41	0.21	0.41	0.62	0.41
337.5	0.00	0.00	0.00	0.00	0.41	0.41	0.41	0.41	0.62
360.0	0.00	0.00	0.00	0.00	0.21	0.41	0.41	0.41	0.41

C/γ(°)	180.0
0.0	0.46
22.5	0.46
45.0	0.46
67.5	0.46
90.0	0.46
112.5	0.46
135.0	0.46
157.5	0.46
180.0	0.46
202.5	0.46
225.0	0.46
247.5	0.46
270.0	0.46
292.5	0.46
315.0	0.46
337.5	0.46
360.0	0.46