



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

LumCAT: LRG2-50K-HO

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.02

LampCAT:

Current(A): 0.0470

Lamp flux(lm): -1.0

Power (W): 5.25

Number of Lamps: 1

PF: 0.9384

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 552.41, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 105.28

Central intensity(cd): 1047.998, Maximum intensity(cd): 1066.709

Angle of maximum intensity: C=202.5 γ =5.0

Beam Angle(50%Imax): [C0/180]Total=34.1

[C90/270]Total=34.6

Field angle(10%Imax): [C0/180]Total=73.8

[C90/270]Total=74.0

Maximum s/h(1/2): C0_180=0.63 C90_270=0.62

Maximum s/h(1/4): C0_180=0.64 C90_270=0.65

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 0.00%

Up flux rate of LUM(%): 0.08%

Down flux rate of LUM(%): 99.92%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 97.848%

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

Date:
Humidity(%): 59%

Operator: jarvis

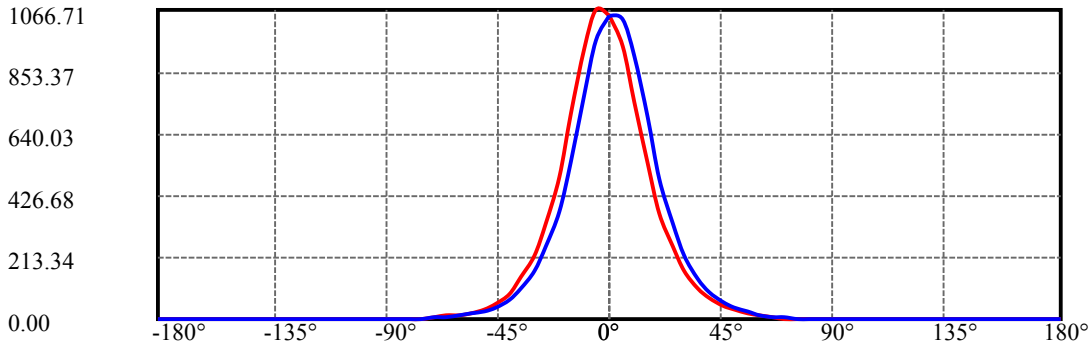
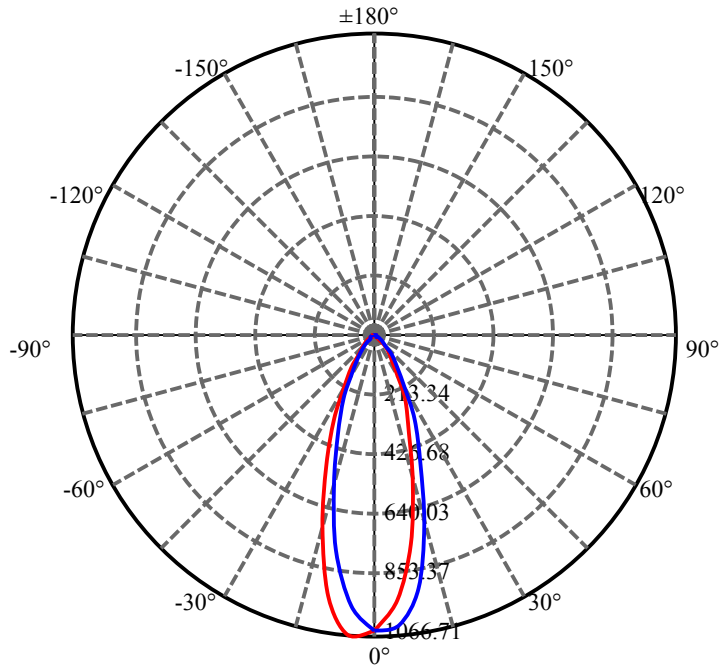
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1047.998	0.000	0	0.00%	0.00%
5.0	998.612	24.467	24.467	0.00%	4.43%
10.0	839.982	65.772	90.239	0.00%	16.34%
15.0	616.776	86.414	176.653	0.00%	31.98%
20.0	428.884	86.177	262.83	0.00%	47.58%
25.0	289.684	75.365	338.194	0.00%	61.22%
30.0	190.598	60.780	398.975	0.00%	72.22%
35.0	124.215	46.358	445.333	0.00%	80.62%
40.0	80.145	34.096	479.429	0.00%	86.79%
45.0	51.236	24.326	503.755	0.00%	91.19%
50.0	32.539	16.928	520.683	0.00%	94.26%
55.0	21.308	11.708	532.391	0.00%	96.38%
60.0	13.883	8.134	540.525	0.00%	97.85%
65.0	8.254	5.382	545.907	0.00%	98.82%
70.0	4.365	3.195	549.102	0.00%	99.40%
75.0	1.931	1.646	550.748	0.00%	99.70%
80.0	1.074	0.804	551.552	0.00%	99.84%
85.0	0.272	0.366	551.917	0.00%	99.91%
90.0	0.000	0.074	551.992	0.00%	99.92%
95.0	0.000	0.000	551.992	0.00%	99.92%
100.0	0.000	0.000	551.992	0.00%	99.92%
105.0	0.000	0.000	551.992	0.00%	99.92%
110.0	0.014	0.004	551.996	0.00%	99.92%
115.0	0.000	0.003	551.999	0.00%	99.93%
120.0	0.014	0.003	552.002	0.00%	99.93%
125.0	0.014	0.006	552.009	0.00%	99.93%
130.0	0.041	0.012	552.02	0.00%	99.93%
135.0	0.041	0.016	552.037	0.00%	99.93%
140.0	0.027	0.013	552.05	0.00%	99.93%
145.0	0.054	0.014	552.063	0.00%	99.94%
150.0	0.177	0.034	552.097	0.00%	99.94%
155.0	0.259	0.055	552.152	0.00%	99.95%
160.0	0.422	0.071	552.224	0.00%	99.97%
165.0	0.490	0.075	552.299	0.00%	99.98%
170.0	0.517	0.060	552.358	0.00%	99.99%
175.0	0.544	0.038	552.396	0.00%	100.00%
180.0	0.755	0.016	552.412	0.00%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	398.97	N.A.	72.22%
0-40	479.43	N.A.	86.79%
0-60	540.53	N.A.	97.85%
0-90	551.99	N.A.	99.92%
0-120	552.00	N.A.	99.93%
0-180	552.41	N.A.	100.00%
60-90	11.47	N.A.	2.08%
90-120	0.01	N.A.	0.00%
90-130	0.03	N.A.	0.01%
90-150	0.11	N.A.	0.02%
90-180	0.40	N.A.	0.07%
0-34.63	441.93	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	90.24
10-20	172.59
20-30	136.14
30-40	80.45
40-50	41.25
50-60	19.84
60-70	8.58
70-80	2.45
80-90	0.44
90-100	0.00
100-110	0.00
110-120	0.01
120-130	0.02
130-140	0.03
140-150	0.05
150-160	0.13
160-170	0.13
170-180	0.04

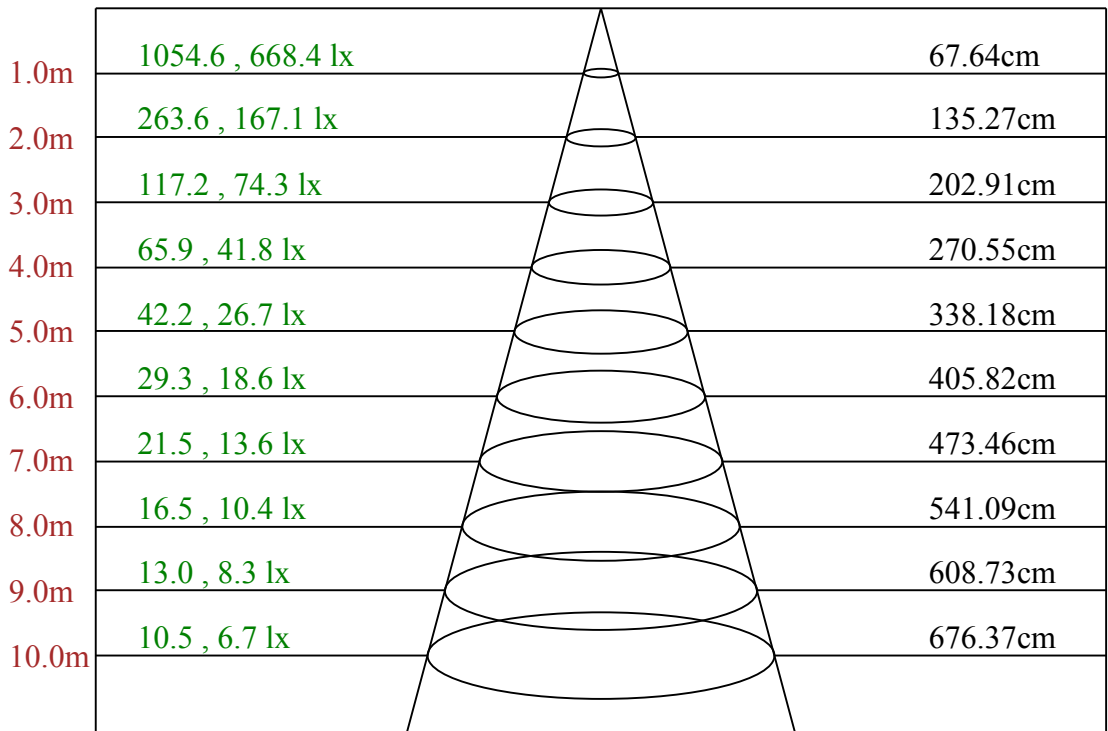


C0/C180: —

C90/C270: —

Field angle(10%Imax):C0/180Left:38.4 Right:35.4
:C90/270Left:35.3 Right:38.7

Beam Angle(50%Imax):C0/180Left:19.0 Right:15.1
:C90/270Left:15.6 Right:19.0



Max , Ave Beam angle of C202.5 plane 37.37

LRG2-50K-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	1048.00	940.09	749.72	534.99	366.16	249.98	164.70	109.00	73.97
22.5	1048.00	938.78	732.32	521.28	364.85	246.72	162.52	106.17	71.58
45.0	1048.00	930.95	716.00	508.23	358.98	244.32	160.78	104.65	69.62
67.5	1048.00	923.99	704.25	498.22	357.24	240.62	159.69	104.43	68.53
90.0	1048.00	1030.59	908.98	693.59	484.08	332.00	217.56	141.20	91.81
112.5	1048.00	1034.51	915.72	695.11	482.55	329.39	217.78	141.42	91.81
135.0	1048.00	1044.52	920.94	688.37	486.91	329.17	216.69	141.63	90.51
157.5	1048.00	1054.96	927.03	692.72	487.99	326.13	214.73	140.98	88.11
180.0	1048.00	1063.45	936.17	705.99	489.30	330.26	219.96	144.03	89.20
202.5	1048.00	1066.71	947.05	713.39	492.13	332.22	219.96	140.98	87.90
225.0	1048.00	1066.49	950.10	716.22	495.17	337.00	218.87	140.11	88.11
247.5	1048.00	1065.84	958.36	727.75	498.22	333.09	221.48	143.16	90.07
270.0	1048.00	958.58	773.22	545.65	372.69	251.07	162.52	107.26	65.70
292.5	1048.00	953.36	771.91	550.43	375.30	249.76	162.95	108.56	68.75
315.0	1048.00	952.92	765.60	534.77	376.82	253.03	165.78	107.48	73.75
337.5	1048.00	952.05	762.34	541.73	373.77	250.20	163.61	106.39	72.88
360.0	1048.00	940.09	749.72	534.99	366.16	249.98	164.70	109.00	73.97
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	48.95	30.68	20.67	11.53	6.31	3.26	1.52	0.87	0.00
22.5	48.08	29.81	20.02	11.97	6.53	3.26	1.52	1.09	0.22
45.0	46.34	29.15	19.80	11.31	6.53	3.05	1.31	0.87	0.22
67.5	45.47	29.15	19.58	11.10	6.53	3.26	1.31	0.65	0.00
90.0	57.87	36.99	24.15	16.54	9.36	5.44	1.74	1.09	0.00
112.5	58.09	37.64	23.93	16.10	9.36	5.00	1.74	1.09	0.00
135.0	57.65	36.12	22.84	16.10	9.57	5.22	2.18	1.09	0.44
157.5	54.39	34.38	21.97	15.45	10.01	5.44	2.18	1.09	0.44
180.0	55.91	35.46	22.63	16.10	10.23	5.66	2.39	1.31	0.44
202.5	56.13	35.68	22.84	16.54	10.88	5.87	2.61	1.09	0.65
225.0	54.61	35.03	22.84	16.54	10.44	5.44	2.61	1.09	0.65
247.5	57.44	36.77	23.28	16.10	10.01	5.44	2.39	1.31	0.22
270.0	42.64	26.54	18.49	11.97	6.96	3.92	2.18	1.52	0.44
292.5	43.73	27.85	19.15	11.75	6.31	3.26	1.96	1.09	0.44
315.0	46.56	30.02	19.36	11.75	6.31	3.05	1.74	1.09	0.22
337.5	45.91	29.37	19.36	11.31	6.74	3.26	1.52	0.87	0.00
360.0	48.95	30.68	20.67	11.53	6.31	3.26	1.52	0.87	0.00
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	0.22
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	0.22	0.00	0.22	0.22	0.44
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

LRG2-50K-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	0.22	0.22	0.44	0.44	0.44	0.44
22.5	0.00	0.00	0.00	0.44	0.65	0.65	0.44	0.65	0.44
45.0	0.00	0.00	0.00	0.22	0.44	0.44	0.65	0.44	0.65
67.5	0.00	0.00	0.44	0.22	0.22	0.44	0.65	0.65	0.44
90.0	0.00	0.00	0.00	0.00	0.22	0.22	0.44	0.44	0.44
112.5	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.44	0.44
135.0	0.00	0.00	0.00	0.00	0.22	0.44	0.44	0.44	0.44
157.5	0.00	0.00	0.00	0.00	0.00	0.44	0.44	0.44	0.65
180.0	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.44	0.65
202.5	0.00	0.00	0.00	0.00	0.22	0.22	0.44	0.44	0.44
225.0	0.00	0.00	0.00	0.00	0.00	0.22	0.65	0.44	0.44
247.5	0.00	0.00	0.00	0.22	0.00	0.44	0.22	0.65	0.44
270.0	0.44	0.44	0.44	0.87	0.65	0.87	1.31	1.09	1.09
292.5	0.00	0.00	0.00	0.22	0.44	0.65	0.44	0.44	0.65
315.0	0.22	0.00	0.00	0.22	0.44	0.44	0.44	0.44	0.44
337.5	0.00	0.00	0.00	0.22	0.22	0.44	0.44	0.44	0.65
360.0	0.00	0.00	0.00	0.22	0.22	0.44	0.44	0.44	0.44

C/γ(°)	180.0
0.0	0.76
22.5	0.76
45.0	0.76
67.5	0.76
90.0	0.76
112.5	0.76
135.0	0.76
157.5	0.76
180.0	0.76
202.5	0.76
225.0	0.76
247.5	0.76
270.0	0.76
292.5	0.76
315.0	0.76
337.5	0.76
360.0	0.76