



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

LumCAT: LRG2-40K-HO

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.03

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): 533.03, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 101.47

Central intensity(cd): 1032.082, Maximum intensity(cd): 1116.037

Angle of maximum intensity: C=90.0 γ =5.0

Beam Angle(50%Imax): [C0/180]Total=33.8

[C90/270]Total=34.3

Field angle(10%Imax): [C0/180]Total=71.2

[C90/270]Total=70.7

Maximum s/h(1/2): C0_180=0.67 C90_270=0.63

Maximum s/h(1/4): C0_180=0.66 C90_270=0.63

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 0.00%

Up flux rate of LUM(%): 0.02%

Down flux rate of LUM(%): 99.98%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 98.571%

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

Date:
Humidity(%): 59%

Operator: jarvis

LRG2-40K-HO

Zonal flux distribution table

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$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1032.082	0.000	0	0.00%	0.00%
5.0	1000.315	24.297	24.297	0.00%	4.56%
10.0	862.528	66.640	90.936	0.00%	17.06%
15.0	639.266	89.085	180.022	0.00%	33.77%
20.0	429.661	88.095	268.116	0.00%	50.30%
25.0	284.616	74.914	343.031	0.00%	64.35%
30.0	180.497	58.861	401.891	0.00%	75.40%
35.0	113.119	43.237	445.129	0.00%	83.51%
40.0	70.450	30.627	475.756	0.00%	89.25%
45.0	42.482	20.910	496.666	0.00%	93.18%
50.0	25.325	13.701	510.367	0.00%	95.75%
55.0	16.124	9.012	519.38	0.00%	97.44%
60.0	9.980	6.034	525.413	0.00%	98.57%
65.0	5.540	3.773	529.186	0.00%	99.28%
70.0	2.790	2.109	531.296	0.00%	99.67%
75.0	1.100	1.017	532.312	0.00%	99.87%
80.0	0.496	0.427	532.739	0.00%	99.95%
85.0	0.067	0.153	532.892	0.00%	99.97%
90.0	0.000	0.018	532.911	0.00%	99.98%
95.0	0.000	0.000	532.911	0.00%	99.98%
100.0	0.000	0.000	532.911	0.00%	99.98%
105.0	0.000	0.000	532.911	0.00%	99.98%
110.0	0.000	0.000	532.911	0.00%	99.98%
115.0	0.000	0.000	532.911	0.00%	99.98%
120.0	0.000	0.000	532.911	0.00%	99.98%
125.0	0.000	0.000	532.911	0.00%	99.98%
130.0	0.000	0.000	532.911	0.00%	99.98%
135.0	0.000	0.000	532.911	0.00%	99.98%
140.0	0.000	0.000	532.911	0.00%	99.98%
145.0	0.027	0.004	532.915	0.00%	99.98%
150.0	0.040	0.010	532.925	0.00%	99.98%
155.0	0.067	0.014	532.939	0.00%	99.98%
160.0	0.121	0.020	532.958	0.00%	99.99%
165.0	0.175	0.024	532.983	0.00%	99.99%
170.0	0.228	0.024	533.007	0.00%	100.00%
175.0	0.255	0.017	533.024	0.00%	100.00%
180.0	0.316	0.007	533.031	0.00%	100.00%

Equipment: GMS-3000
Temperature($^{\circ}$ C): 25

Date:
Humidity(%): 59%

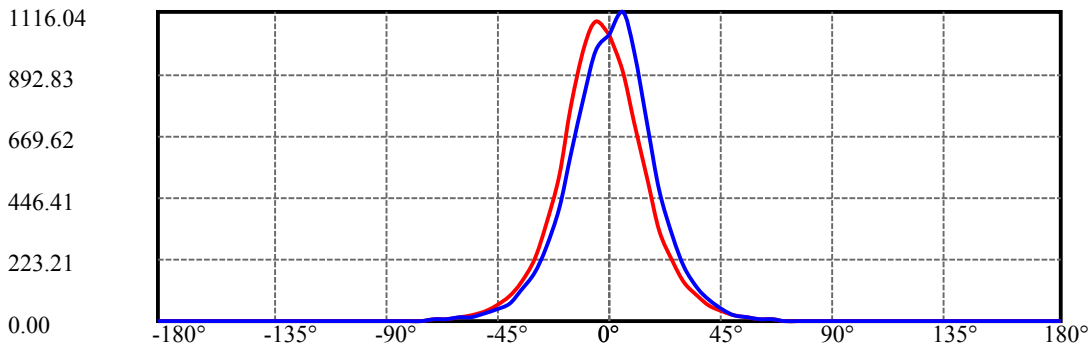
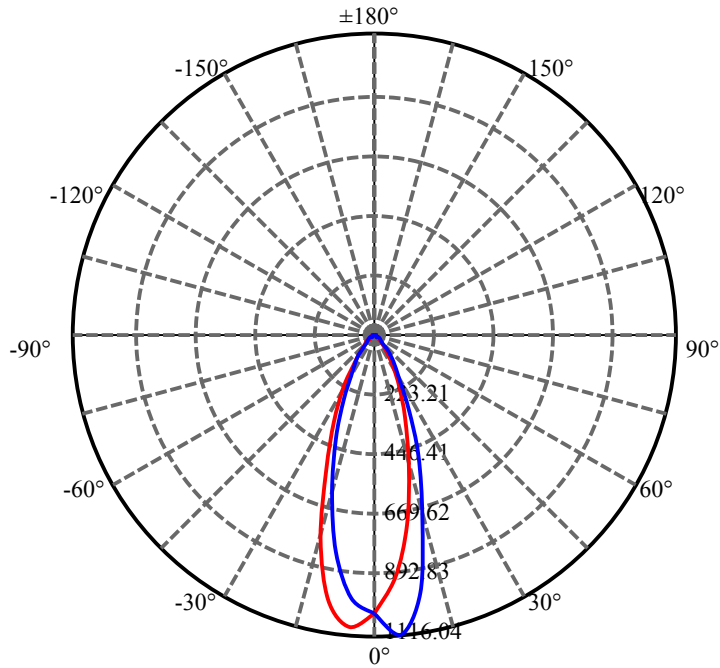
Operator: jarvis

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	401.89	N.A.	75.40%
0-40	475.76	N.A.	89.25%
0-60	525.41	N.A.	98.57%
0-90	532.91	N.A.	99.98%
0-120	532.91	N.A.	99.98%
0-180	533.03	N.A.	100.00%
60-90	7.50	N.A.	1.41%
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	0.11	N.A.	0.02%
0-32.84	426.42	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	90.94
10-20	177.18
20-30	133.77
30-40	73.86
40-50	34.61
50-60	15.05
60-70	5.88
70-80	1.44
80-90	0.17
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	0.03
160-170	0.05
170-180	0.02

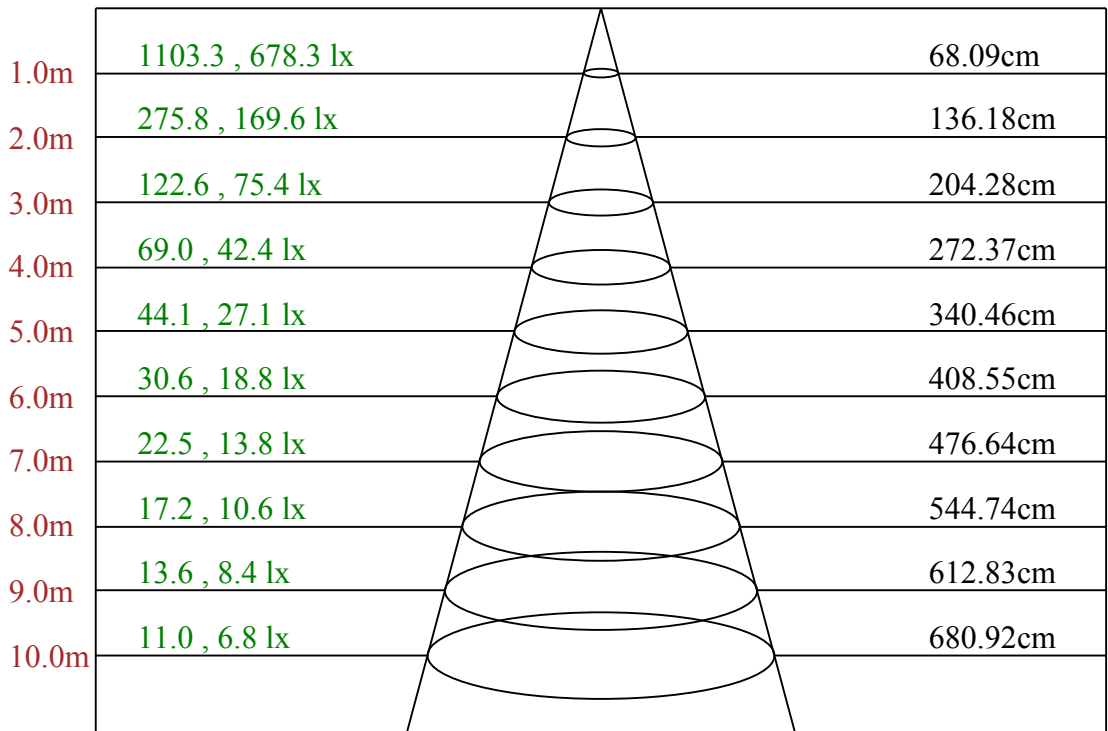


C0/C180: —

C90/C270: —

Field angle(10%Imax):C0/180Left:38.2 Right:33.0
:C90/270Left:34.7 Right:36.0

Beam Angle(50%Imax):C0/180Left:19.7 Right:14.1
:C90/270Left:16.2 Right:18.1



Max , Ave Beam angle of C90 plane 37.60

LRG2-40K-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	1032.08	899.70	711.90	504.58	324.94	214.19	138.22	88.00	52.37
22.5	1032.08	900.13	708.25	485.05	315.71	212.48	131.56	79.41	46.57
45.0	1032.08	905.49	700.31	488.48	320.22	214.19	135.43	81.13	49.15
67.5	1032.08	919.66	722.85	491.92	325.80	216.13	136.29	82.42	50.22
90.0	1032.08	1116.04	968.59	696.67	474.53	307.13	191.87	120.40	74.26
112.5	1032.08	1107.02	974.17	715.12	480.33	319.79	200.67	126.63	81.77
135.0	1032.08	1097.15	982.76	737.66	500.07	328.16	205.18	132.21	83.49
157.5	1032.08	1090.07	993.49	766.42	517.67	341.46	217.20	138.00	86.28
180.0	1032.08	1083.84	994.56	776.93	529.26	349.41	223.21	141.44	89.50
202.5	1032.08	1067.75	996.71	780.15	536.56	361.42	228.36	140.36	90.79
225.0	1032.08	1055.73	991.56	776.50	532.05	357.78	227.93	142.30	92.72
247.5	1032.08	1039.20	980.18	756.97	515.95	355.20	225.78	137.36	89.07
270.0	1032.08	978.89	818.57	606.52	407.35	266.78	172.56	107.96	65.67
292.5	1032.08	930.17	776.93	571.11	386.96	252.18	160.75	104.52	64.82
315.0	1032.08	911.07	748.39	549.22	361.64	235.87	149.38	95.72	56.66
337.5	1032.08	903.13	731.22	524.97	345.54	221.71	143.58	92.07	53.87
360.0	1032.08	899.70	711.90	504.58	324.94	214.19	138.22	88.00	52.37
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	32.41	19.10	11.80	7.08	3.86	1.50	0.43	0.22	0.00
22.5	28.55	16.53	10.95	6.44	3.43	1.50	0.86	0.22	0.00
45.0	29.62	16.96	11.16	6.22	3.43	1.29	0.64	0.43	0.00
67.5	29.40	16.31	10.95	6.22	3.43	1.50	0.64	0.43	0.00
90.0	40.78	24.04	15.67	8.80	5.15	2.36	0.86	0.64	0.00
112.5	47.00	27.69	17.38	9.87	5.15	2.58	0.86	0.43	0.00
135.0	47.86	28.76	18.24	11.16	6.01	3.01	0.86	0.22	0.00
157.5	50.01	30.26	18.89	12.02	6.44	3.43	1.29	0.43	0.00
180.0	54.73	33.27	21.46	13.09	7.30	3.86	1.50	0.86	0.22
202.5	55.59	32.19	21.25	13.52	7.94	4.08	1.93	0.64	0.00
225.0	57.30	34.13	22.75	14.38	8.59	4.51	1.93	0.64	0.22
247.5	55.80	32.19	21.46	13.52	8.37	4.08	2.15	0.64	0.22
270.0	40.99	25.54	15.24	10.73	5.80	3.65	1.07	1.07	0.43
292.5	40.99	25.76	15.02	10.30	5.15	2.79	0.86	0.64	0.00
315.0	35.63	22.32	13.31	8.59	4.51	2.36	0.86	0.00	0.00
337.5	33.05	20.18	12.45	7.73	4.08	2.15	0.86	0.43	0.00
360.0	32.41	19.10	11.80	7.08	3.86	1.50	0.43	0.22	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	0.00
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

LRG2-40K-HO

Intensity data(cd)

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	0.22	0.22	0.43	0.22	0.22
22.5	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.22	0.22
45.0	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.43	0.22
67.5	0.00	0.00	0.00	0.22	0.00	0.00	0.43	0.22	0.22
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.22
112.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22
135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22
157.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.43
202.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.43	0.22
225.0	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.00	0.43
247.5	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.22
270.0	0.00	0.00	0.43	0.43	0.43	0.64	0.64	0.86	0.86
292.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.00
315.0	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22
337.5	0.00	0.00	0.00	0.00	0.22	0.43	0.22	0.22	0.00
360.0	0.00	0.00	0.00	0.00	0.22	0.22	0.43	0.22	0.22

C/γ(°)	180.0
0.0	0.32
22.5	0.32
45.0	0.32
67.5	0.32
90.0	0.32
112.5	0.32
135.0	0.32
157.5	0.32
180.0	0.32
202.5	0.32
225.0	0.32
247.5	0.32
270.0	0.32
292.5	0.32
315.0	0.32
337.5	0.32
360.0	0.32