



Shenzhen Belling Efficiency Testing Laboratory Co.,Ltd.  
www.bellingeel.com

Tel:0755-21038430

Address:1 F.,No.1 building,Meibaoh industrial park,Dalang street,Longhua district,Shenzhen,China

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LumCAT: LRG3-30K-15D

Luminaire:

Report No:

Voltage(V): 120.16

Test No:

Current(A): 0.0613

LampCAT:

Power (W): 7.1760

Lamp flux(lm): 557.0

PF: 0.9748

Number of Lamps: 1

Ballast type:

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

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### Photometric Results

Lumens(lm): 557.05

Efficiency(%): 100.00%

Lumens(lm)/Power(W): 77.63

Central intensity(cd): 2391.270

Maximum intensity(cd): 2391.270

Angle of maximum intensity: C=0.0  $\gamma$ =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  $\pi$  solid angle : 92.463%

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

Date:  
Humidity(%): 58%

Operator: Zac

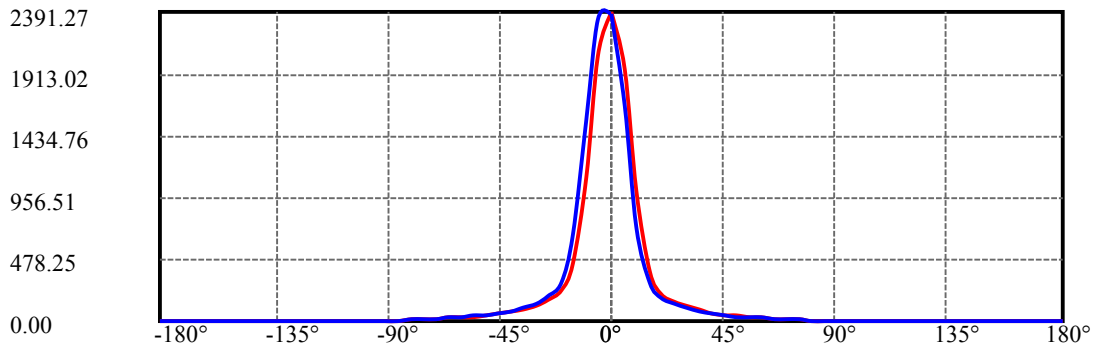
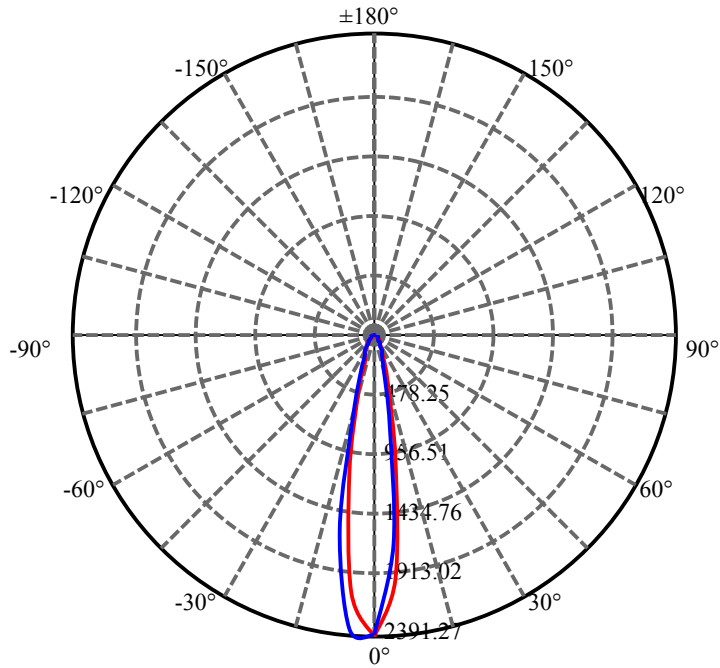
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2375.008	.000	.000	.000%	.000%
5.0	1992.401	52.211	52.211	9.373%	9.373%
10.0	1091.068	110.305	162.517	19.802%	29.175%
15.0	445.990	91.177	253.694	16.368%	45.543%
20.0	231.890	55.867	309.561	10.029%	55.572%
25.0	158.487	40.943	350.504	7.350%	62.922%
30.0	116.999	34.863	385.367	6.259%	69.180%
35.0	87.638	30.134	415.501	5.410%	74.590%
40.0	67.630	25.905	441.407	4.650%	79.240%
45.0	53.449	22.419	463.825	4.025%	83.265%
50.0	42.959	19.481	483.306	3.497%	86.762%
55.0	35.105	16.974	500.280	3.047%	89.809%
60.0	28.861	14.786	515.065	2.654%	92.463%
65.0	23.422	12.710	527.775	2.282%	94.745%
70.0	18.510	10.618	538.393	1.906%	96.651%
75.0	13.154	8.277	546.670	1.486%	98.137%
80.0	7.687	5.577	552.246	1.001%	99.138%
85.0	2.525	2.775	555.021	.498%	99.636%
90.0	.167	.737	555.758	.132%	99.768%
95.0	.083	.068	555.826	.012%	99.781%
100.0	.083	.045	555.871	.008%	99.789%
105.0	.083	.045	555.916	.008%	99.797%
110.0	.111	.051	555.967	.009%	99.806%
115.0	.111	.056	556.023	.010%	99.816%
120.0	.139	.061	556.084	.011%	99.827%
125.0	.111	.058	556.141	.010%	99.837%
130.0	.139	.054	556.196	.010%	99.847%
135.0	.139	.056	556.252	.010%	99.857%
140.0	.222	.067	556.319	.012%	99.869%
145.0	.361	.097	556.416	.017%	99.887%
150.0	.389	.110	556.526	.020%	99.906%
155.0	.527	.116	556.642	.021%	99.927%
160.0	.694	.128	556.770	.023%	99.950%
165.0	.722	.117	556.887	.021%	99.971%
170.0	.805	.091	556.977	.016%	99.987%
175.0	.666	.053	557.030	.009%	99.997%
180.0	.833	.018	557.048	.003%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	385.37	69.18%	69.18%
0-40	441.41	79.24%	79.24%
0-60	515.07	92.46%	92.46%
0-90	555.76	99.77%	99.77%
0-120	556.08	99.83%	99.83%
0-180	557.05	100.00%	100.00%
60-90	55.48	9.96%	9.96%
90-120	1.06	0.19%	0.19%
90-130	1.17	0.21%	0.21%
90-150	1.51	0.27%	0.27%
90-180	2.01	0.36%	0.36%
0-40.94	445.64	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	162.52
10-20	147.04
20-30	75.81
30-40	56.04
40-50	41.90
50-60	31.76
60-70	23.33
70-80	13.85
80-90	3.51
90-100	0.11
100-110	0.10
110-120	0.12
120-130	0.11
130-140	0.12
140-150	0.21
150-160	0.24
160-170	0.21
170-180	0.05



C0/C180: —

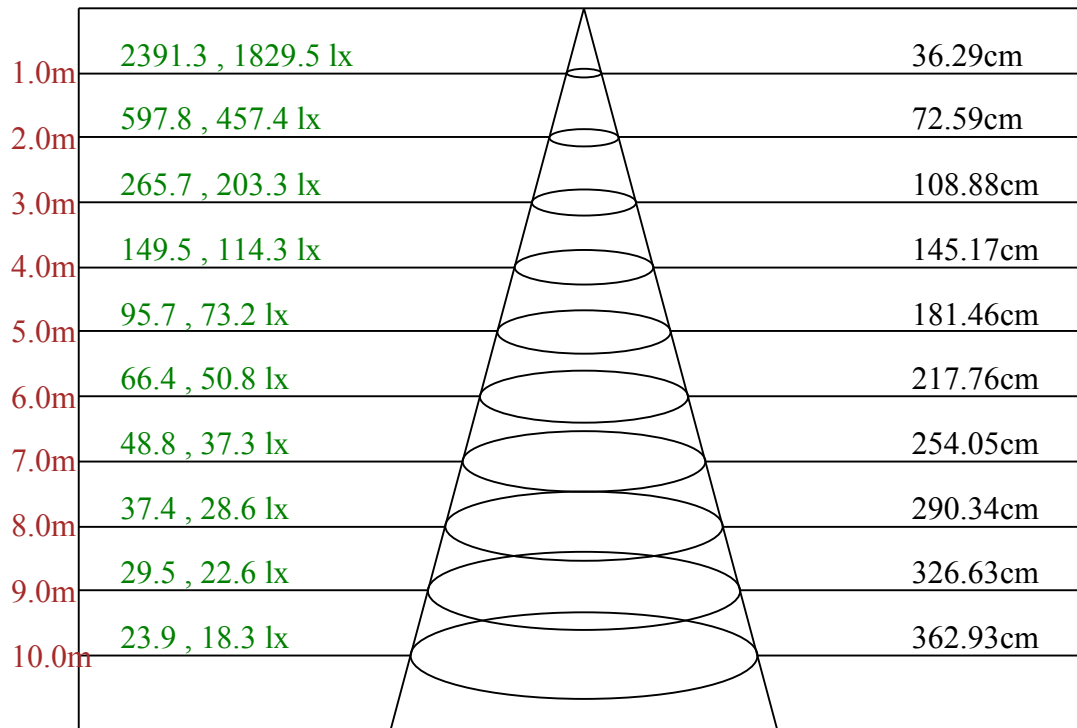
C90/C270: —

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

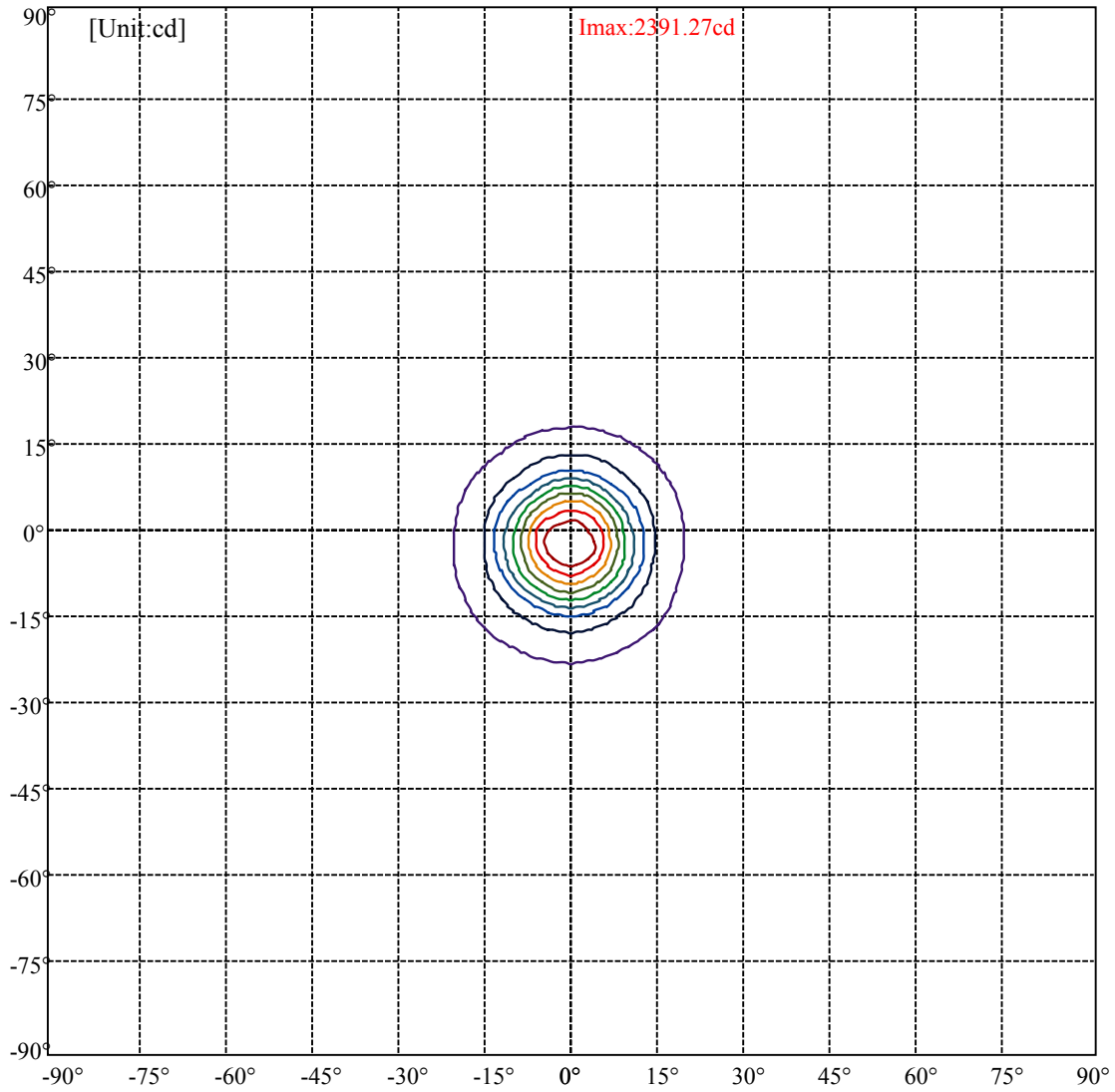
:C90/270Left:22.9 Right:17.6

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



(10%Imax) 237.129	—
(20%Imax) 474.258	—
(30%Imax) 711.387	—
(40%Imax) 948.516	—
(50%Imax) 1185.64	—
(60%Imax) 1422.77	—
(70%Imax) 1659.9	—
(80%Imax) 1897.03	—
(90%Imax) 2134.16	—

LRG3-30K-15D

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	2391.27	1940.15	1002.82	392.29	213.80	155.19	115.22	85.92	65.72
45.0	2383.72	1746.78	758.39	323.69	191.37	134.76	99.46	75.04	58.83
90.0	2371.29	1668.18	727.53	295.05	184.27	133.21	97.46	73.26	57.72
135.0	2353.75	1720.58	770.60	307.71	182.05	127.88	95.91	73.26	59.28
180.0	2391.27	2046.49	1114.27	443.35	235.78	164.07	122.99	93.91	72.15
225.0	2383.72	2244.52	1422.42	586.77	276.85	184.05	134.54	98.57	74.15
270.0	2371.29	2335.32	1559.18	664.48	302.38	189.38	137.42	102.35	78.81
315.0	2353.75	2237.20	1373.35	554.58	268.63	179.38	132.98	98.79	74.37
360.0	2391.27	1940.15	1002.82	392.29	213.80	155.19	115.22	85.92	65.72
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	51.51	40.85	33.08	26.86	22.20	18.21	12.66	7.10	2.22
45.0	46.84	37.96	31.08	25.31	20.20	15.76	11.10	6.22	1.11
90.0	45.73	37.08	30.86	25.98	20.65	15.54	10.66	5.55	1.11
135.0	47.95	39.74	32.64	27.09	21.54	16.65	11.10	5.99	1.33
180.0	56.39	44.62	36.63	29.75	24.20	19.32	13.77	8.21	2.00
225.0	58.61	47.07	38.63	31.75	25.98	20.87	15.10	9.10	4.00
270.0	62.16	49.29	39.74	32.64	26.86	21.31	15.76	9.99	4.44
315.0	58.39	47.07	38.19	31.53	25.75	20.43	15.10	9.32	4.00
360.0	51.51	40.85	33.08	26.86	22.20	18.21	12.66	7.10	2.22
C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	0.00	0.22	0.00	0.00	0.44	0.00	0.00	0.00	0.00
45.0	0.00	0.00	0.00	0.22	0.00	0.44	0.22	0.22	0.22
90.0	0.00	0.22	0.22	0.22	0.22	0.44	0.44	0.22	0.44
135.0	0.22	0.22	0.44	0.22	0.22	0.00	0.22	0.22	0.44
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
225.0	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.00
270.0	0.67	0.00	0.00	0.00	0.00	0.00	0.22	0.00	0.00
315.0	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
360.0	0.00	0.22	0.00	0.00	0.44	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	0.22	0.00	0.22	0.22	0.44	0.44	0.44	0.44	0.44
45.0	0.22	0.44	0.44	0.67	0.89	0.67	0.89	0.89	0.67
90.0	0.22	0.44	0.67	0.67	0.67	1.11	0.89	0.89	0.67
135.0	0.22	0.44	0.67	0.67	0.67	0.89	0.89	1.11	0.89
180.0	0.00	0.22	0.22	0.22	0.44	0.44	0.67	0.67	0.67
225.0	0.00	0.00	0.22	0.44	0.67	0.44	0.67	0.67	0.67
270.0	0.22	0.00	0.22	0.00	0.00	0.67	0.67	0.89	0.44
315.0	0.00	0.22	0.22	0.22	0.44	0.89	0.67	0.89	0.89
360.0	0.22	0.00	0.22	0.22	0.44	0.44	0.44	0.44	0.44
C/γ(°)	180.0								
0.0	0.67								
45.0	1.11								
90.0	0.89								
135.0	0.67								
180.0	0.67								
225.0	1.11								
270.0	0.89								
315.0	0.67								
360.0	0.67								