Shenzhen Belling Efficiency Testing Lab Co.,Ltd
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Client:
LumCAT:LRG6-5CCT(3000K)
Luminaire:
Report No:
Ballast type:

Test No:	Voltage(V): 120.02
LampCAT:	Current(A): 0.1230
Lamp flux(lm): -1.0	Power (W): 14.51
Number of Lamps: 1	PF: 0.9851
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 1441.84, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 99.36
Central intensity(cd): 2366.367, Maximum intensity(cd): 2402.458
Angle of maximum intensity: C=202.5 γ=5.0
Beam Angle(50%Imax): [C0/180]Total=42.3
[C90/270]Total=39.8
Field angle(10%Imax): [C0/180]Total=76.6
[C90/270]Total=72.9
Maximum s/h(1/2): C0_180=0.71 C90_270=0.65
Maximum s/h(1/4): C0_180=0.79 C90_270=0.68
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 0.00%
Up flux rate of LUM(%): 0.10%
Down flux rate of LUM(%): 99.90%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.050%

Zonal flux distribution table

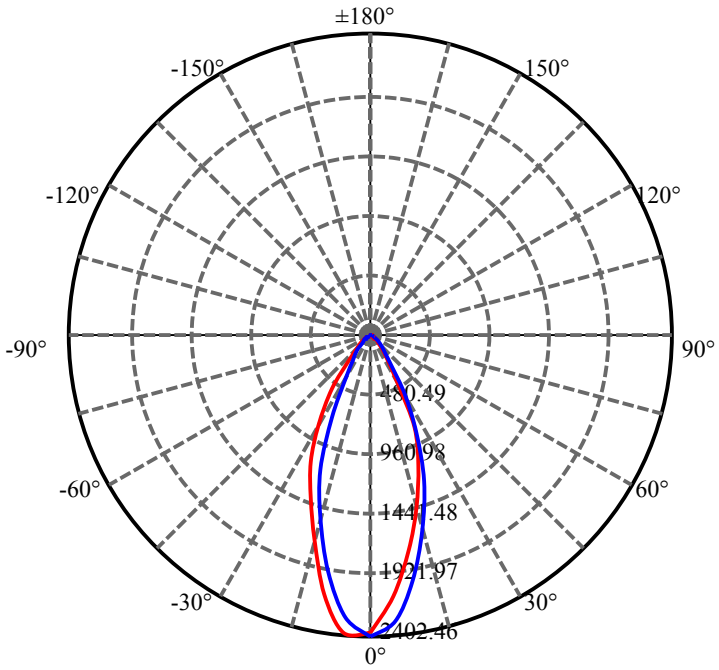
γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2378.172	0.000	0	0.00%	0.00%
5.0	2251.628	55.348	55.348	0.00%	3.84%
10.0	1919.929	149.230	204.578	0.00%	14.19%
15.0	1546.587	205.631	410.209	0.00%	28.45%
20.0	1204.851	226.757	636.966	0.00%	44.18%
25.0	876.636	218.309	855.276	0.00%	59.32%
30.0	567.105	182.707	1037.982	0.00%	71.99%
35.0	330.521	132.182	1170.164	0.00%	81.16%
40.0	190.317	86.898	1257.062	0.00%	87.18%
45.0	118.023	57.092	1314.154	0.00%	91.14%
50.0	71.380	38.272	1352.425	0.00%	93.80%
55.0	50.264	26.450	1378.875	0.00%	95.63%
60.0	38.171	20.442	1399.316	0.00%	97.05%
65.0	27.018	15.848	1415.164	0.00%	98.15%
70.0	16.379	10.988	1426.152	0.00%	98.91%
75.0	9.674	6.810	1432.962	0.00%	99.38%
80.0	6.241	4.258	1437.221	0.00%	99.68%
85.0	2.594	2.401	1439.621	0.00%	99.85%
90.0	0.339	0.803	1440.424	0.00%	99.90%
95.0	0.013	0.096	1440.52	0.00%	99.91%
100.0	0.000	0.003	1440.524	0.00%	99.91%
105.0	0.025	0.007	1440.53	0.00%	99.91%
110.0	0.025	0.013	1440.544	0.00%	99.91%
115.0	0.025	0.013	1440.556	0.00%	99.91%
120.0	0.050	0.018	1440.575	0.00%	99.91%
125.0	0.050	0.023	1440.598	0.00%	99.91%
130.0	0.075	0.027	1440.625	0.00%	99.92%
135.0	0.126	0.041	1440.666	0.00%	99.92%
140.0	0.238	0.067	1440.733	0.00%	99.92%
145.0	0.364	0.100	1440.833	0.00%	99.93%
150.0	0.589	0.140	1440.974	0.00%	99.94%
155.0	0.828	0.179	1441.153	0.00%	99.95%
160.0	1.103	0.202	1441.355	0.00%	99.97%
165.0	1.266	0.195	1441.551	0.00%	99.98%
170.0	1.379	0.157	1441.708	0.00%	99.99%
175.0	1.454	0.101	1441.809	0.00%	100.00%
180.0	1.454	0.035	1441.844	0.00%	100.00%

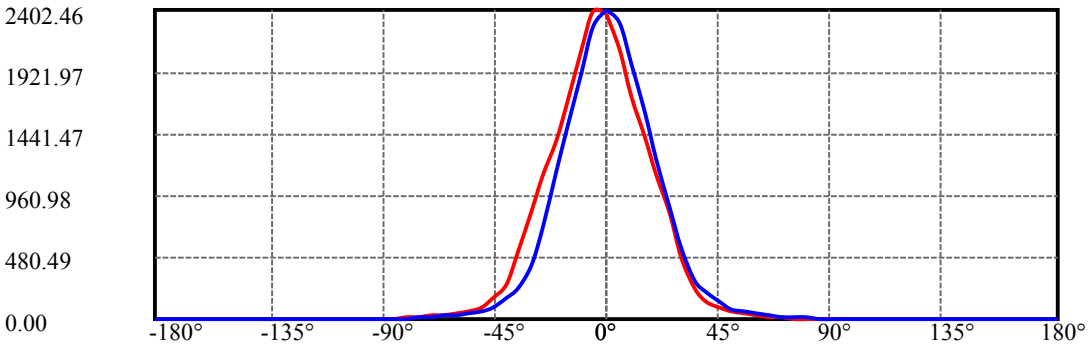
ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1037.98	N.A.	71.99%
0-40	1257.06	N.A.	87.18%
0-60	1399.32	N.A.	97.05%
0-90	1440.42	N.A.	99.90%
0-120	1440.57	N.A.	99.91%
0-180	1441.84	N.A.	100.00%
60-90	41.11	N.A.	2.85%
90-120	0.15	N.A.	0.01%
90-130	0.20	N.A.	0.01%
90-150	0.55	N.A.	0.04%
90-180	1.38	N.A.	0.10%
0-34.37	1153.48	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	204.58
10-20	432.39
20-30	401.02
30-40	219.08
40-50	95.36
50-60	46.89
60-70	26.84
70-80	11.07
80-90	3.20
90-100	0.10
100-110	0.02
110-120	0.03
120-130	0.05
130-140	0.11
140-150	0.24
150-160	0.38
160-170	0.35
170-180	0.10



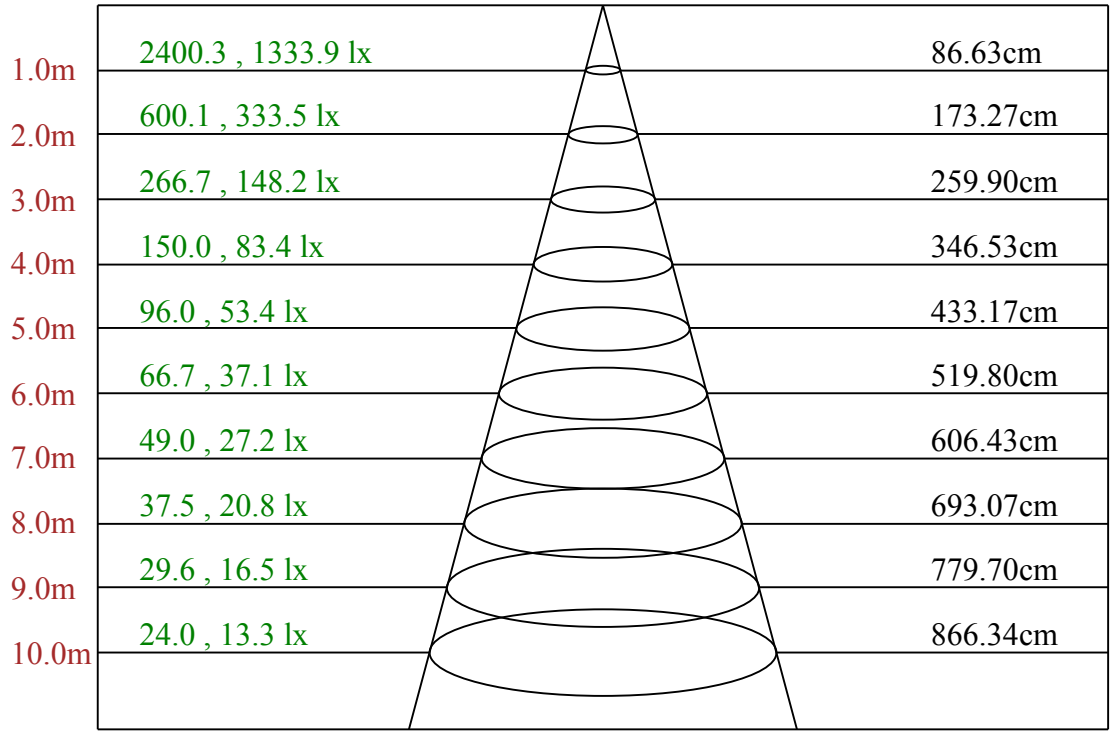


C0/C180:

C90/C270:

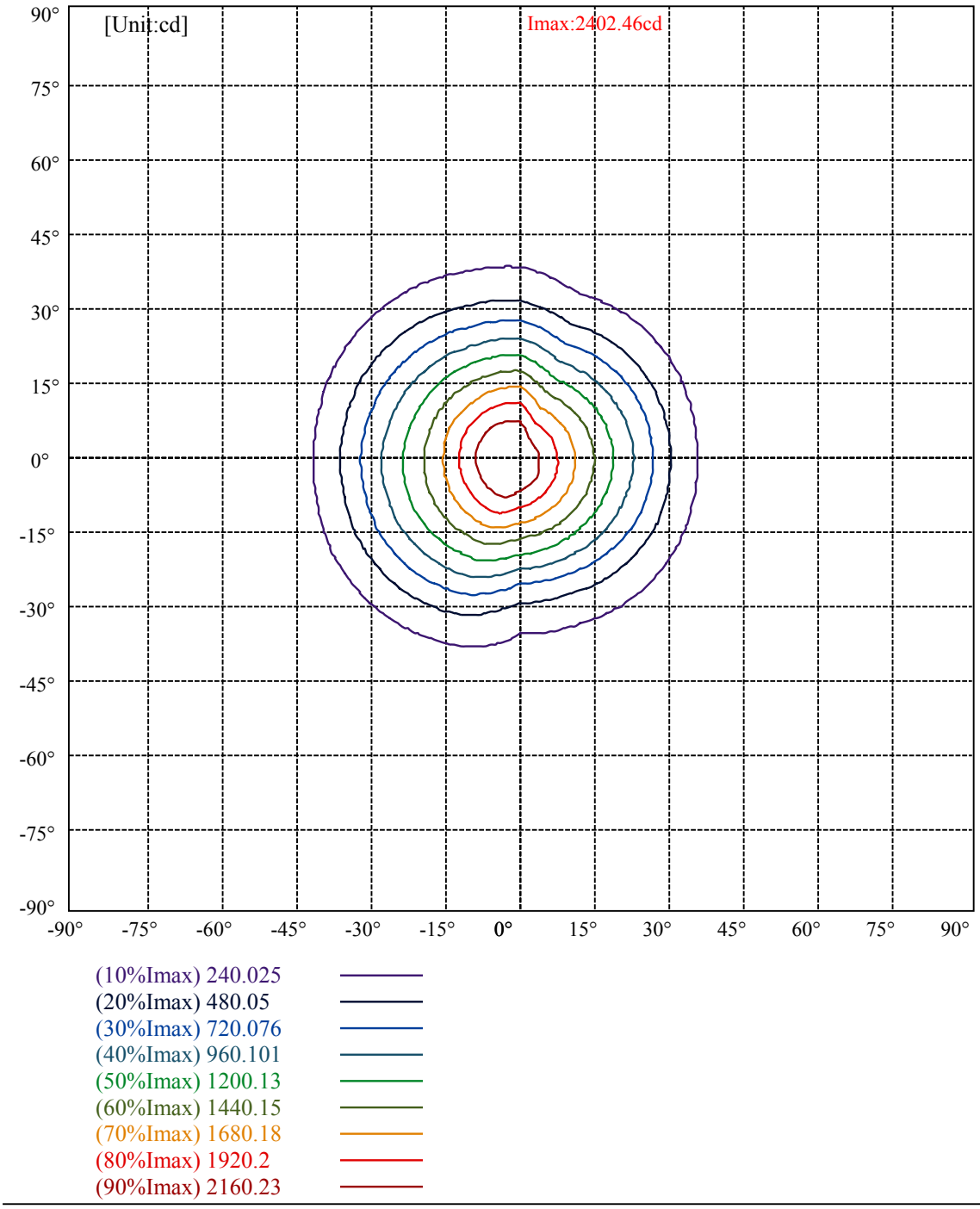
Field angle(10%Imax):C0/180Left:41.3 Right:35.3
:C90/270Left:35.0 Right:37.9

Beam Angle(50%Imax):C0/180Left:23.6 Right:18.7
:C90/270Left:19.3 Right:20.5



Max , Ave

Beam angle of C202.5 plane 46.84


[Unit:cd]
Imax:2402.46cd
90°
75°
60°
45°
30°
15°
0°
-15°
-30°
-45°
-60°
-75°
-90°
-90° -75° -60° -45° -30° -15° 0° 15° 30° 45° 60° 75° 90°
(10%Imax) 240.025
(20%Imax) 480.05
(30%Imax) 720.076
(40%Imax) 960.101
(50%Imax) 1200.13
(60%Imax) 1440.15
(70%Imax) 1680.18
(80%Imax) 1920.2
(90%Imax) 2160.23

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	2366.37	2089.47	1732.57	1418.98	1113.41	817.66	470.99	246.02	137.15
22.5	2358.75	2082.25	1730.56	1397.93	1082.73	781.37	461.76	242.41	137.95
45.0	2363.56	2085.86	1721.54	1362.44	1030.80	722.82	428.68	235.80	143.76
67.5	2378.80	2118.54	1732.37	1348.00	1002.13	674.90	380.76	224.17	151.18
90.0	2400.25	2292.38	1982.60	1608.06	1235.52	869.19	545.98	294.74	201.71
112.5	2396.04	2318.65	2028.11	1635.32	1259.18	899.27	583.27	320.81	209.13
135.0	2387.42	2362.56	2061.40	1652.77	1307.10	970.25	669.49	390.99	226.97
157.5	2374.19	2385.82	2080.25	1697.48	1352.41	1045.04	756.71	480.41	252.84
180.0	2366.37	2385.22	2092.88	1701.29	1386.50	1114.01	829.29	525.53	264.67
202.5	2358.75	2402.46	2088.47	1709.51	1396.72	1110.00	810.85	513.70	269.28
225.0	2363.56	2385.42	2088.07	1707.11	1359.83	1052.25	756.71	463.77	249.03
247.5	2378.80	2378.40	2080.85	1678.63	1334.97	1001.73	654.65	384.97	219.35
270.0	2400.25	2263.51	1906.81	1511.41	1146.49	721.22	412.44	240.01	159.60
292.5	2396.04	2211.78	1839.04	1459.68	1099.57	706.78	405.62	235.59	145.17
315.0	2387.42	2158.04	1793.92	1430.21	1080.53	742.87	433.49	241.81	141.56
337.5	2374.19	2105.71	1759.44	1426.60	1089.75	796.81	472.99	247.62	135.74
360.0	2366.37	2089.47	1732.57	1418.98	1113.41	817.66	470.99	246.02	137.15

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	87.22	55.94	41.30	30.88	20.05	10.43	7.42	3.81	0.40
22.5	87.02	55.94	41.91	30.88	20.65	10.63	7.62	4.01	0.40
45.0	86.02	55.74	42.71	31.28	21.05	10.83	7.82	4.21	0.40
67.5	87.02	56.14	42.91	32.68	22.26	11.23	8.42	4.61	1.20
90.0	132.53	80.00	53.94	41.30	30.28	19.85	11.23	8.02	4.01
112.5	143.16	83.41	54.94	43.11	31.68	21.25	11.43	8.02	4.21
135.0	152.79	86.82	57.95	44.91	33.28	22.26	12.03	8.42	4.61
157.5	157.00	89.63	60.95	46.52	33.89	23.46	12.03	8.82	5.01
180.0	161.61	91.63	60.95	47.32	34.69	23.66	12.03	8.82	5.21
202.5	157.00	89.63	60.35	46.32	33.48	23.26	12.03	8.42	4.81
225.0	146.97	86.82	57.75	44.51	32.28	22.06	11.03	8.02	4.61
247.5	136.75	83.21	55.34	41.91	31.08	20.25	10.23	7.42	3.81
270.0	92.43	58.55	45.31	33.89	24.06	11.83	9.02	5.01	1.60
292.5	87.82	56.14	43.51	32.28	22.06	10.63	7.82	4.41	0.80
315.0	86.02	56.14	42.51	31.88	20.85	10.43	7.42	4.01	0.40
337.5	87.02	56.34	41.91	31.08	20.65	10.03	7.22	3.81	0.00
360.0	87.22	55.94	41.30	30.88	20.05	10.43	7.42	3.81	0.40

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	0.20	0.00	0.20
22.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20
45.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20
67.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
112.5	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.0	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
157.5	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
202.5	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
225.0	0.60	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	0.20	0.20	0.00	0.40	0.40	0.20	0.20	0.60	0.40
292.5	0.00	0.00	0.00	0.00	0.00	0.20	0.20	0.20	0.20
315.0	0.00	0.00	0.00	0.00	0.00	0.00	0.20	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	0.20	0.00	0.20

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	0.40	0.40	0.40	0.80	1.00	1.20	1.40	1.40	1.40
22.5	0.20	0.40	0.40	0.80	1.00	1.40	1.40	1.60	1.40
45.0	0.20	0.40	0.60	0.60	1.00	1.20	1.40	1.20	1.40
67.5	0.20	0.40	0.60	0.60	1.00	1.20	1.40	1.40	1.60
90.0	0.20	0.20	0.40	0.60	0.60	1.20	1.40	1.40	1.40
112.5	0.00	0.00	0.20	0.40	0.60	1.00	1.20	1.40	1.40
135.0	0.00	0.00	0.00	0.40	0.60	0.80	1.00	1.20	1.20
157.5	0.00	0.00	0.20	0.00	0.60	1.00	0.80	1.20	1.20
180.0	0.00	0.00	0.00	0.40	0.60	1.00	1.00	1.40	1.20
202.5	0.00	0.00	0.20	0.40	0.60	0.80	1.20	1.00	1.20
225.0	0.00	0.00	0.20	0.40	0.60	0.60	1.00	1.20	1.40
247.5	0.00	0.00	0.00	0.40	0.60	0.80	1.00	1.40	1.60
270.0	0.60	0.80	0.60	1.20	1.40	1.60	1.81	2.01	2.01
292.5	0.20	0.40	0.60	0.80	1.00	1.40	1.40	1.60	1.81
315.0	0.00	0.40	0.60	0.80	1.00	1.20	1.40	1.40	1.60
337.5	0.00	0.40	0.80	0.80	1.00	1.20	1.40	1.20	1.40
360.0	0.40	0.40	0.40	0.80	1.00	1.20	1.40	1.40	1.40

C/γ(°)	180.0
0.0	1.20
22.5	1.40
45.0	1.40
67.5	1.20
90.0	1.81
112.5	1.40
135.0	1.60
157.5	1.60
180.0	1.20
202.5	1.40
225.0	1.40
247.5	1.20
270.0	1.81
292.5	1.40
315.0	1.60
337.5	1.60
360.0	1.20