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

Tel:0755-21038430
Address:1Floor, No.1 Building,Meibaohe Industrial Park,Dalang Street,Longhua District,Shenzhen,Guangdong Prov.518101 China

Client:
LumCAT:LRG6-5CCT(3500K)
Luminaire:
Report No:
Ballast type:

Test No:	Voltage(V): 120.04
LampCAT:	Current(A): 0.1210
Lamp flux(lm): -1.0	Power (W): 14.24
Number of Lamps: 1	PF: 0.9842
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 1511.92, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 106.21
Central intensity(cd): 2481.371, Maximum intensity(cd): 2519.216
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 : 97.051%

Zonal flux distribution table

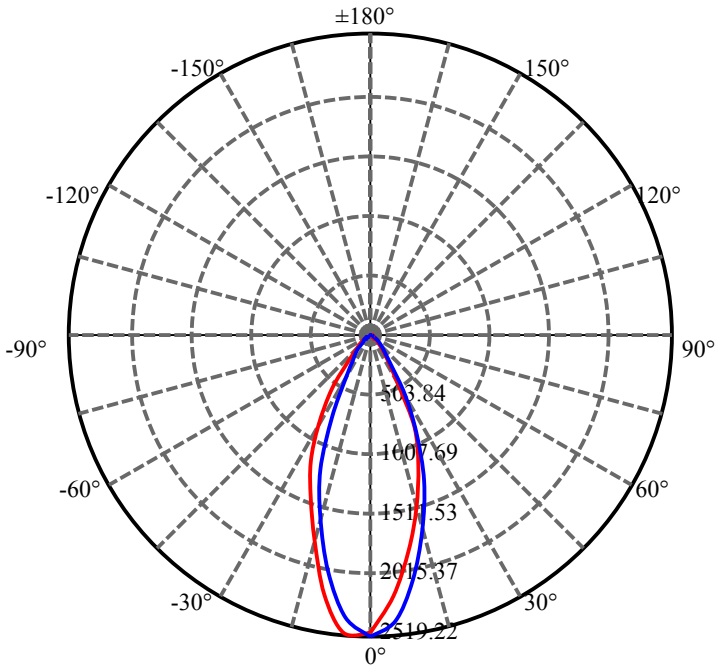
γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2493.749	0.000	0	0.00%	0.00%
5.0	2361.055	58.038	58.038	0.00%	3.84%
10.0	2013.236	156.482	214.52	0.00%	14.19%
15.0	1621.750	215.625	430.145	0.00%	28.45%
20.0	1263.405	237.777	667.922	0.00%	44.18%
25.0	919.239	228.919	896.841	0.00%	59.32%
30.0	594.666	191.586	1088.427	0.00%	71.99%
35.0	346.584	138.606	1227.033	0.00%	81.16%
40.0	199.567	91.121	1318.154	0.00%	87.18%
45.0	123.758	59.866	1378.02	0.00%	91.14%
50.0	74.849	40.131	1418.152	0.00%	93.80%
55.0	52.707	27.735	1445.887	0.00%	95.63%
60.0	40.026	21.435	1467.322	0.00%	97.05%
65.0	28.331	16.618	1483.94	0.00%	98.15%
70.0	17.175	11.522	1495.462	0.00%	98.91%
75.0	10.145	7.141	1502.603	0.00%	99.38%
80.0	6.544	4.465	1507.068	0.00%	99.68%
85.0	2.720	2.517	1509.585	0.00%	99.85%
90.0	0.355	0.842	1510.427	0.00%	99.90%
95.0	0.013	0.101	1510.528	0.00%	99.91%
100.0	0.000	0.004	1510.532	0.00%	99.91%
105.0	0.026	0.007	1510.539	0.00%	99.91%
110.0	0.026	0.014	1510.553	0.00%	99.91%
115.0	0.026	0.013	1510.566	0.00%	99.91%
120.0	0.053	0.019	1510.585	0.00%	99.91%
125.0	0.053	0.024	1510.609	0.00%	99.91%
130.0	0.079	0.029	1510.638	0.00%	99.92%
135.0	0.131	0.042	1510.68	0.00%	99.92%
140.0	0.250	0.071	1510.751	0.00%	99.92%
145.0	0.381	0.105	1510.856	0.00%	99.93%
150.0	0.618	0.147	1511.003	0.00%	99.94%
155.0	0.867	0.188	1511.191	0.00%	99.95%
160.0	1.157	0.212	1511.404	0.00%	99.97%
165.0	1.327	0.205	1511.608	0.00%	99.98%
170.0	1.446	0.164	1511.773	0.00%	99.99%
175.0	1.525	0.106	1511.879	0.00%	100.00%
180.0	1.525	0.036	1511.915	0.00%	100.00%

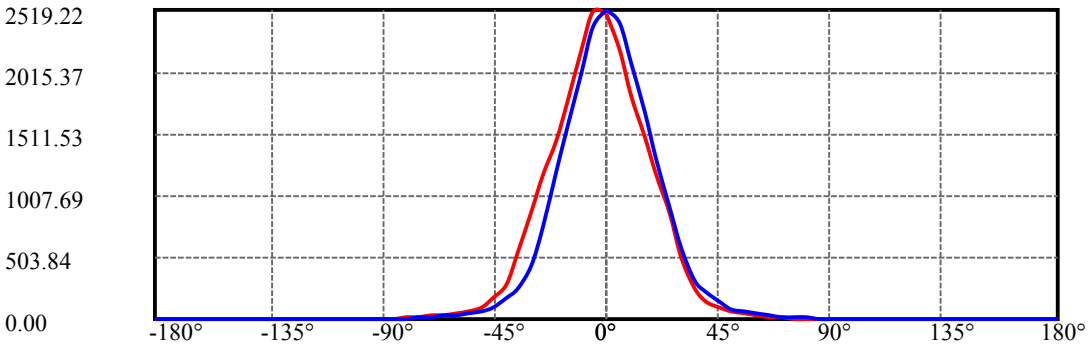
ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1088.43	N.A.	71.99%
0-40	1318.15	N.A.	87.18%
0-60	1467.32	N.A.	97.05%
0-90	1510.43	N.A.	99.90%
0-120	1510.59	N.A.	99.91%
0-180	1511.92	N.A.	100.00%
60-90	43.11	N.A.	2.85%
90-120	0.16	N.A.	0.01%
90-130	0.21	N.A.	0.01%
90-150	0.58	N.A.	0.04%
90-180	1.45	N.A.	0.10%
0-34.37	1209.53	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	214.52
10-20	453.40
20-30	420.51
30-40	229.73
40-50	100.00
50-60	49.17
60-70	28.14
70-80	11.61
80-90	3.36
90-100	0.10
100-110	0.02
110-120	0.03
120-130	0.05
130-140	0.11
140-150	0.25
150-160	0.40
160-170	0.37
170-180	0.11



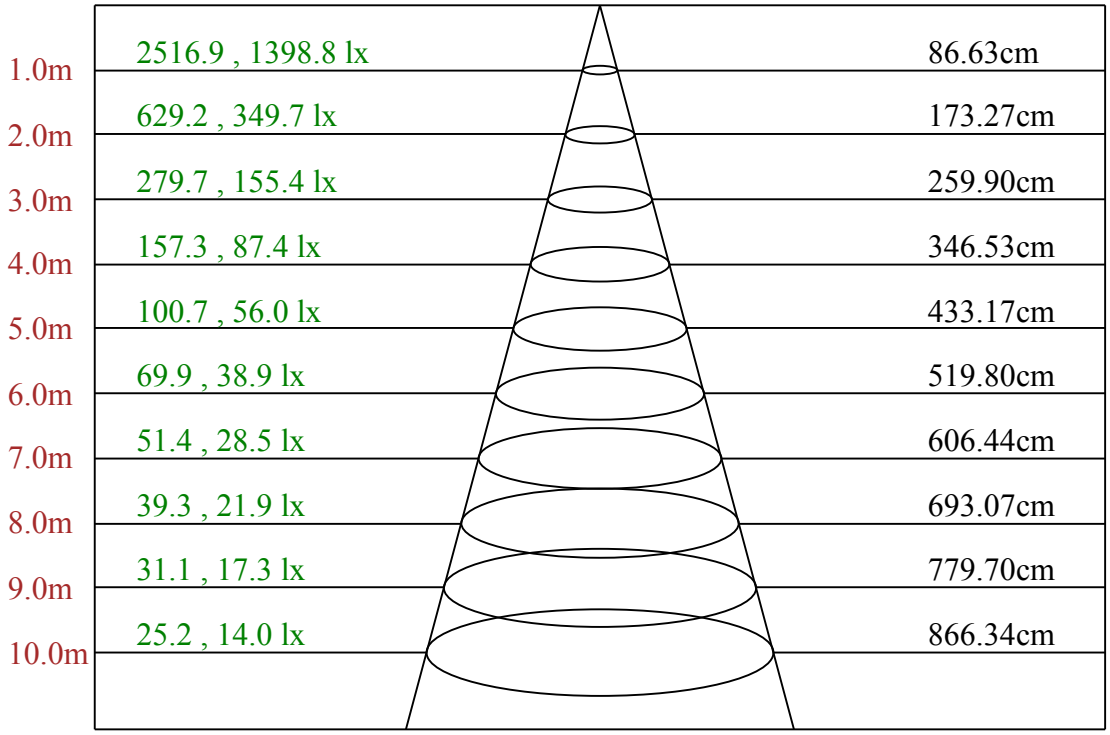


C0/C180:

C90/C270:

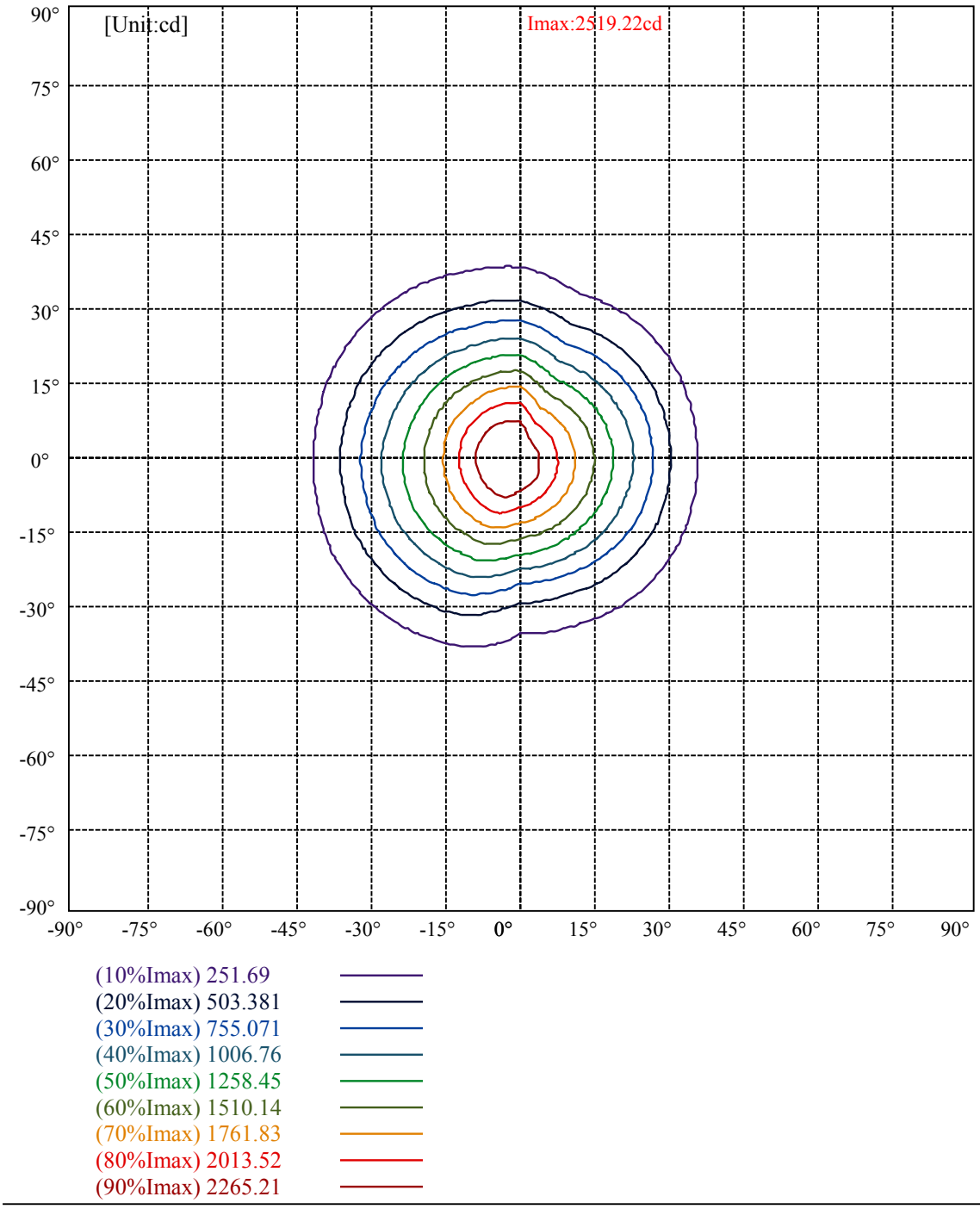
Field angle(10%Imax):C0/180Left:41.3 Right:35.3
:C90/270Left:35.0 Right:37.9

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:2519.22cd
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) 251.69
(20%Imax) 503.381
(30%Imax) 755.071
(40%Imax) 1006.76
(50%Imax) 1258.45
(60%Imax) 1510.14
(70%Imax) 1761.83
(80%Imax) 2013.52
(90%Imax) 2265.21

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	2481.37	2191.02	1816.77	1487.94	1167.52	857.40	493.88	257.98	143.81
22.5	2473.38	2183.45	1814.67	1465.86	1135.35	819.34	484.21	254.19	144.65
45.0	2478.43	2187.23	1805.21	1428.65	1080.90	757.95	449.52	247.25	150.75
67.5	2494.41	2221.50	1816.56	1413.51	1050.83	707.70	399.27	235.06	158.53
90.0	2516.90	2403.79	2078.95	1686.21	1295.56	911.43	572.51	309.07	211.51
112.5	2512.49	2431.33	2126.68	1714.80	1320.37	942.97	611.62	336.40	219.29
135.0	2503.45	2477.38	2161.58	1733.09	1370.62	1017.40	702.03	409.99	238.00
157.5	2489.57	2501.77	2181.34	1779.98	1418.14	1095.82	793.48	503.76	265.13
180.0	2481.37	2501.13	2194.59	1783.97	1453.88	1168.15	869.59	551.07	277.53
202.5	2473.38	2519.22	2189.96	1792.59	1464.60	1163.94	850.25	538.66	282.37
225.0	2478.43	2501.34	2189.54	1790.07	1425.92	1103.39	793.48	486.31	261.13
247.5	2494.41	2493.99	2181.98	1760.21	1399.84	1050.41	686.47	403.68	230.01
270.0	2516.90	2373.51	1999.48	1584.87	1202.21	756.27	432.48	251.67	167.36
292.5	2512.49	2319.27	1928.41	1530.62	1153.01	741.13	425.34	247.04	152.22
315.0	2503.45	2262.92	1881.11	1499.71	1133.04	778.98	454.56	253.56	148.44
337.5	2489.57	2208.05	1844.94	1495.93	1142.71	835.53	495.98	259.66	142.34
360.0	2481.37	2191.02	1816.77	1487.94	1167.52	857.40	493.88	257.98	143.81

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	91.46	58.66	43.31	32.38	21.03	10.93	7.78	4.00	0.42
22.5	91.25	58.66	43.94	32.38	21.66	11.14	7.99	4.21	0.42
45.0	90.20	58.45	44.78	32.80	22.08	11.35	8.20	4.42	0.42
67.5	91.25	58.87	44.99	34.27	23.34	11.77	8.83	4.84	1.26
90.0	138.98	83.89	56.56	43.31	31.75	20.82	11.77	8.41	4.21
112.5	150.12	87.46	57.61	45.20	33.22	22.29	11.98	8.41	4.42
135.0	160.21	91.04	60.76	47.10	34.90	23.34	12.62	8.83	4.84
157.5	164.63	93.98	63.92	48.78	35.53	24.60	12.62	9.25	5.26
180.0	169.46	96.08	63.92	49.62	36.37	24.81	12.62	9.25	5.47
202.5	164.63	93.98	63.29	48.57	35.11	24.39	12.62	8.83	5.05
225.0	154.11	91.04	60.55	46.68	33.85	23.13	11.56	8.41	4.84
247.5	143.39	87.25	58.03	43.94	32.59	21.24	10.72	7.78	4.00
270.0	96.93	61.39	47.52	35.53	25.23	12.41	9.46	5.26	1.68
292.5	92.09	58.87	45.62	33.85	23.13	11.14	8.20	4.63	0.84
315.0	90.20	58.87	44.57	33.43	21.87	10.93	7.78	4.21	0.42
337.5	91.25	59.08	43.94	32.59	21.66	10.51	7.57	4.00	0.00
360.0	91.46	58.66	43.31	32.38	21.03	10.93	7.78	4.00	0.42

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	0.21	0.00	0.21
22.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21
45.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21
67.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
112.5	0.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.0	0.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
157.5	1.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	1.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
202.5	1.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
225.0	0.63	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	0.21	0.21	0.00	0.42	0.42	0.21	0.21	0.63	0.42
292.5	0.00	0.00	0.00	0.00	0.00	0.21	0.21	0.21	0.21
315.0	0.00	0.00	0.00	0.00	0.00	0.00	0.21	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	0.21	0.00	0.21

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	0.42	0.42	0.42	0.84	1.05	1.26	1.47	1.47	1.47
22.5	0.21	0.42	0.42	0.84	1.05	1.47	1.47	1.68	1.47
45.0	0.21	0.42	0.63	0.63	1.05	1.26	1.47	1.26	1.47
67.5	0.21	0.42	0.63	0.63	1.05	1.26	1.47	1.47	1.68
90.0	0.21	0.21	0.42	0.63	0.63	1.26	1.47	1.47	1.47
112.5	0.00	0.00	0.21	0.42	0.63	1.05	1.26	1.47	1.47
135.0	0.00	0.00	0.00	0.42	0.63	0.84	1.05	1.26	1.26
157.5	0.00	0.00	0.21	0.00	0.63	1.05	0.84	1.26	1.26
180.0	0.00	0.00	0.00	0.42	0.63	1.05	1.05	1.47	1.26
202.5	0.00	0.00	0.21	0.42	0.63	0.84	1.26	1.05	1.26
225.0	0.00	0.00	0.21	0.42	0.63	0.63	1.05	1.26	1.47
247.5	0.00	0.00	0.00	0.42	0.63	0.84	1.05	1.47	1.68
270.0	0.63	0.84	0.63	1.26	1.47	1.68	1.89	2.10	2.10
292.5	0.21	0.42	0.63	0.84	1.05	1.47	1.47	1.68	1.89
315.0	0.00	0.42	0.63	0.84	1.05	1.26	1.47	1.47	1.68
337.5	0.00	0.42	0.84	0.84	1.05	1.26	1.47	1.26	1.47
360.0	0.42	0.42	0.42	0.84	1.05	1.26	1.47	1.47	1.47

C/γ(°)	180.0
0.0	1.26
22.5	1.47
45.0	1.47
67.5	1.26
90.0	1.89
112.5	1.47
135.0	1.68
157.5	1.68
180.0	1.26
202.5	1.47
225.0	1.47
247.5	1.26
270.0	1.89
292.5	1.47
315.0	1.68
337.5	1.68
360.0	1.26