Shenzhen Belling Efficiency Testing Laboratory Co.,Ltd.
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LumCAT: LL6R-30K
Luminaire:
Report No:
Test No:
LampCAT:
Lamp flux(lm): 1030.2
Number of Lamps: 1
Length(mm): 0
Phm Type: C

Voltage(V): 120.05
Current(A): 0.1421
Power (W): 16.7930
PF: 0.9844
Ballast type:
Width(mm): 0
Height(mm): 0

Photometric Results

Lumens(lm): 1030.24
Efficiency(%): 100.00%
Lumens(lm)/Power(W): 61.35
Central intensity(cd): 380.245
Maximum intensity(cd): 386.197
Angle of maximum intensity: C=180.0 γ=5.0
Beam Angle(50%Imax): [C0/180]Total=107.2
[C90/270]Total=107.0
Field angle(10%Imax): [C0/180]Total=158.8
[C90/270]Total=158.9
Maximum s/h(1/2): C0_180=1.26 C90_270=1.20
Maximum s/h(1/4): C0_180=1.80 C90_270=1.32
Up flux rate of lamp(%): 0.65%
Down flux rate of lamp(%): 99.35%
Up flux rate of LUM(%): 0.65%
Down flux rate of LUM(%): 99.35%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 79.432%

LL6R-30K

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	380.245	.000	.000	.000%	.000%
5.0	378.116	9.066	9.066	.880%	.880%
10.0	372.163	26.840	35.906	2.605%	3.485%
15.0	362.105	43.556	79.462	4.228%	7.713%
20.0	348.569	58.570	138.032	5.685%	13.398%
25.0	331.483	71.325	209.357	6.923%	20.321%
30.0	311.669	81.391	290.748	7.900%	28.221%
35.0	289.173	88.478	379.226	8.588%	36.810%
40.0	264.805	92.427	471.653	8.971%	45.781%
45.0	238.240	93.143	564.796	9.041%	54.822%
50.0	210.739	90.723	655.519	8.806%	63.628%
55.0	182.186	85.435	740.954	8.293%	71.921%
60.0	152.592	77.383	818.337	7.511%	79.432%
65.0	122.721	66.929	885.266	6.496%	85.928%
70.0	92.607	54.523	939.789	5.292%	91.220%
75.0	63.083	40.695	980.483	3.950%	95.170%
80.0	34.969	26.236	1006.719	2.547%	97.717%
85.0	12.647	12.938	1019.658	1.256%	98.973%
90.0	1.618	3.906	1023.563	.379%	99.352%
95.0	.867	.681	1024.244	.066%	99.418%
100.0	.902	.481	1024.725	.047%	99.465%
105.0	.937	.492	1025.217	.048%	99.512%
110.0	.879	.474	1025.691	.046%	99.558%
115.0	1.006	.477	1026.168	.046%	99.605%
120.0	.994	.486	1026.655	.047%	99.652%
125.0	1.064	.476	1027.130	.046%	99.698%
130.0	1.110	.473	1027.603	.046%	99.744%
135.0	1.110	.449	1028.052	.044%	99.788%
140.0	1.133	.415	1028.467	.040%	99.828%
145.0	1.168	.384	1028.851	.037%	99.865%
150.0	1.226	.352	1029.203	.034%	99.899%
155.0	1.226	.310	1029.513	.030%	99.929%
160.0	1.237	.258	1029.772	.025%	99.955%
165.0	1.203	.201	1029.973	.020%	99.974%
170.0	1.260	.146	1030.119	.014%	99.988%
175.0	1.283	.091	1030.210	.009%	99.997%
180.0	1.208	.030	1030.240	.003%	100.000%

Zonal flux distribution table

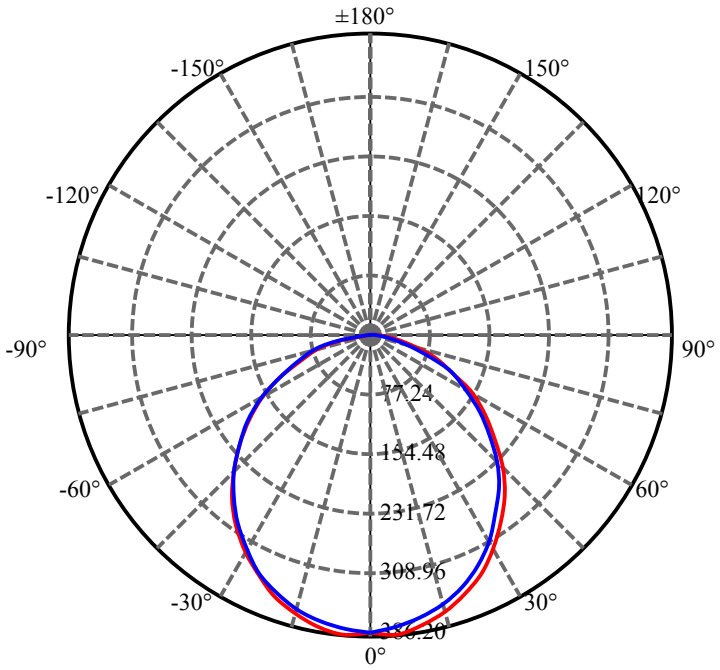
ZONAL LUMEN SUMMARY

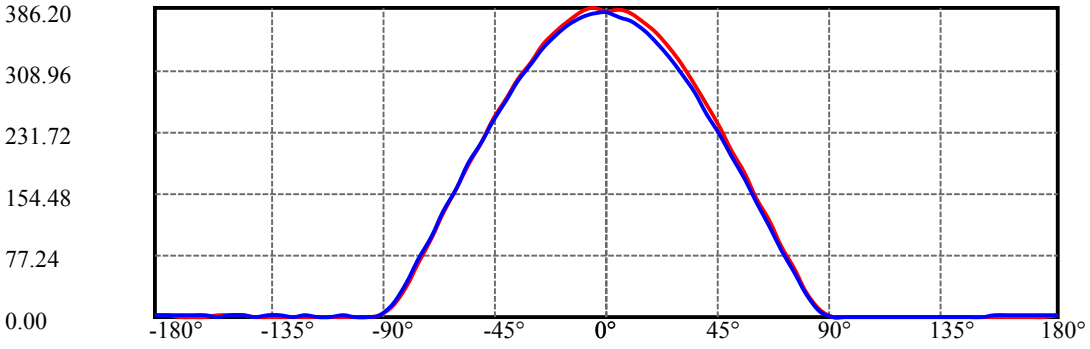
Zone	Lumens	%Lamp	%Fixt
0-30	290.75	28.22%	28.22%
0-40	471.65	45.78%	45.78%
0-60	818.34	79.43%	79.43%
0-90	1023.56	99.35%	99.35%
0-120	1026.66	99.65%	99.65%
0-180	1030.24	100.00%	100.00%
60-90	282.61	27.43%	27.43%
90-120	7.00	0.68%	0.68%
90-130	7.95	0.77%	0.77%
90-150	9.55	0.93%	0.93%
90-180	10.55	1.02%	1.02%
0-60.44	824.19	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	35.91
10-20	102.13
20-30	152.72
30-40	180.91
40-50	183.87
50-60	162.82
60-70	121.45
70-80	66.93
80-90	16.84
90-100	1.16
100-110	0.97
110-120	0.96
120-130	0.95
130-140	0.86
140-150	0.74
150-160	0.57
160-170	0.35
170-180	0.09

Light Distribution Curve [Unit:cd]





C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:75.0 Right:83.7

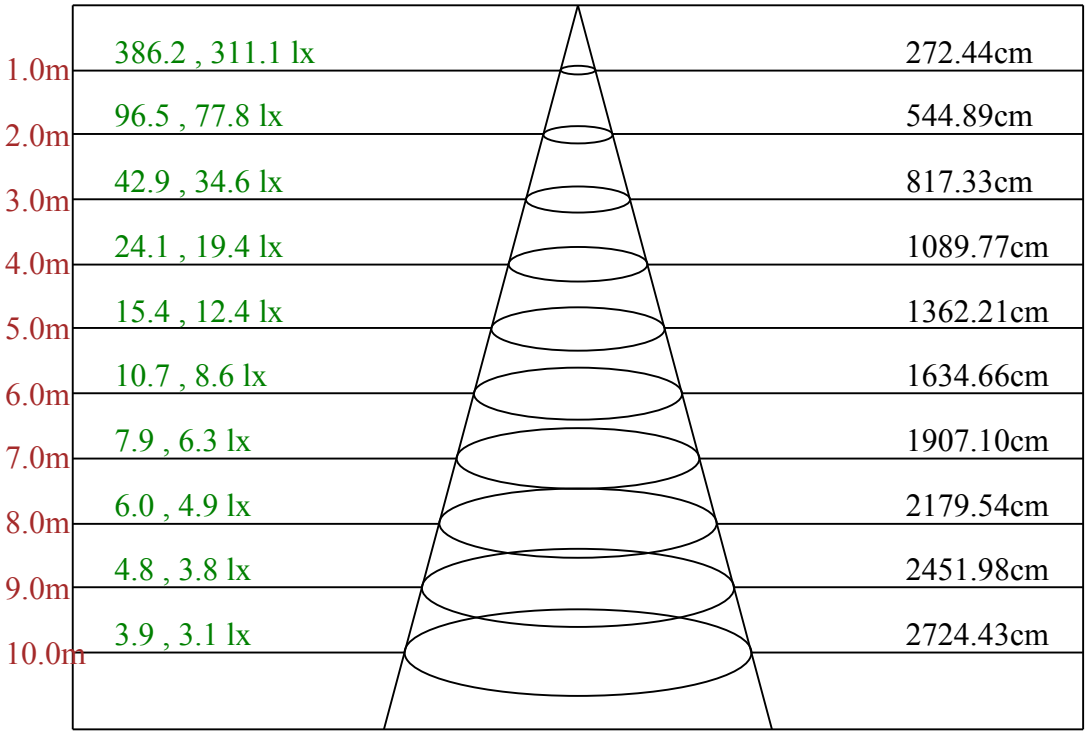
:C90/270Left:80.8 Right:78.1

Beam Angle(50%Imax):C0/180Left:49.4 Right:57.8

:C90/270Left:55.2 Right:51.8

LL6R-30K

Lux distance Curve



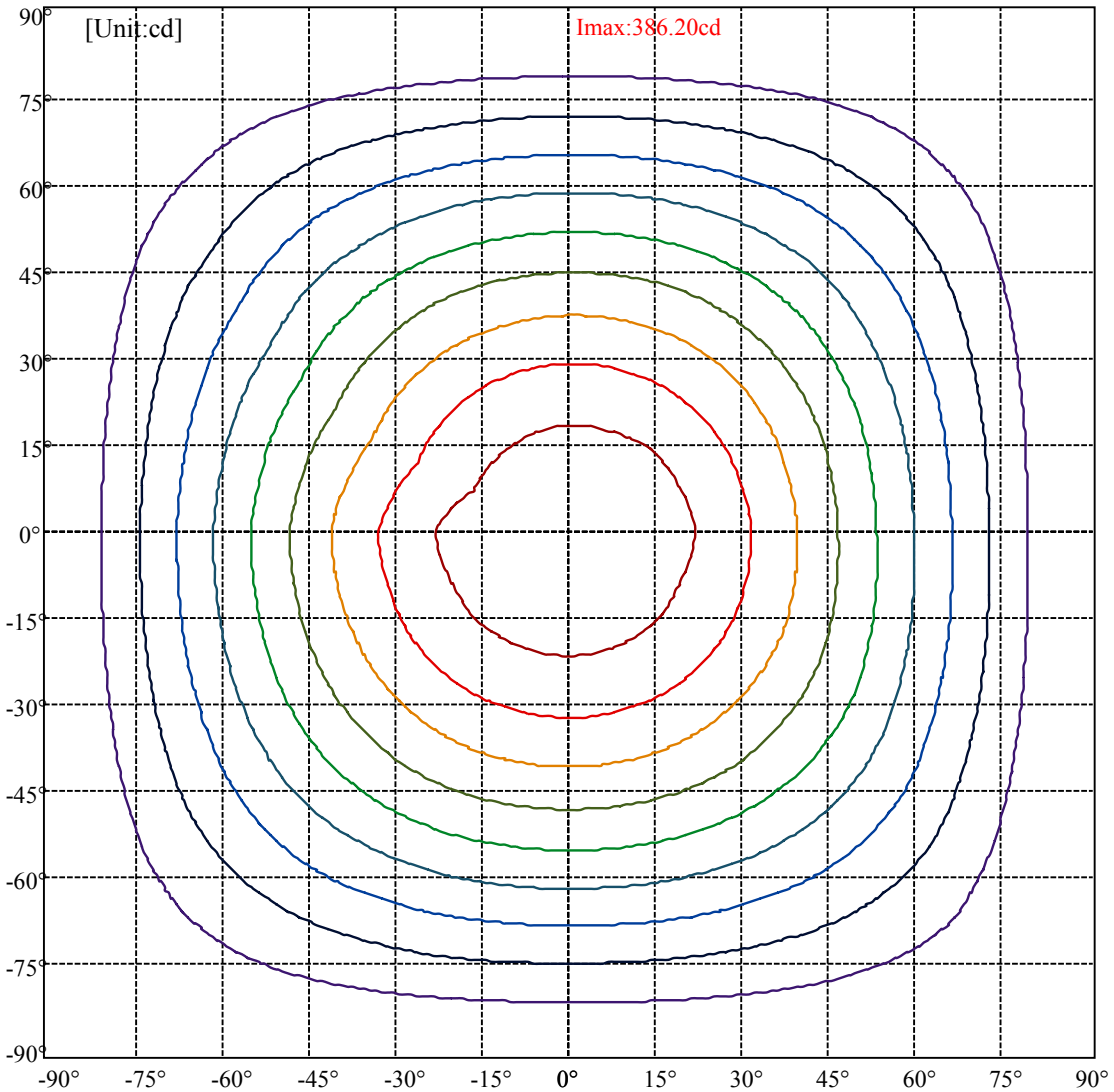
Max , Ave

Beam angle of C180plane107.41

Equipment: GMS-3000 Date: Operator: Zac

Temperature(°C): 25 Humidity(%): 58%

ISO-Intensity(V-H)



(10%Imax) 38.6197
(20%Imax) 77.2394
(30%Imax) 115.859
(40%Imax) 154.479
(50%Imax) 193.098
(60%Imax) 231.718
(70%Imax) 270.338
(80%Imax) 308.958
(90%Imax) 347.577

Equipment: GMS-3000 Date: Operator: Zac
Temperature(°C): 25 Humidity(%): 58%

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	380.25	384.90	378.24	367.15	353.83	335.89	315.54	290.94	266.34
22.5	380.25	380.83	373.99	362.89	349.02	330.71	310.36	287.61	262.09
45.0	380.25	378.06	371.77	360.67	346.80	328.12	306.66	284.65	259.31
67.5	380.25	375.65	369.00	357.90	343.29	325.72	305.18	282.06	257.46
90.0	380.25	375.10	368.26	356.97	342.18	324.42	303.89	280.77	255.06
112.5	380.25	374.36	365.85	355.31	341.25	323.68	302.78	279.11	254.32
135.0	380.25	374.17	366.41	354.57	340.14	322.76	302.04	278.37	254.69
157.5	380.25	373.43	366.22	355.68	340.14	322.39	301.67	278.92	254.51
180.0	380.25	386.20	380.46	370.11	357.16	339.96	320.17	298.16	273.74
202.5	380.25	381.94	376.76	366.59	353.27	337.00	317.76	296.12	271.34
225.0	380.25	379.72	374.91	366.22	352.72	336.26	317.02	295.38	270.97
247.5	380.25	378.43	373.62	364.37	351.61	335.52	316.65	294.83	271.71
270.0	380.25	378.06	373.25	364.37	351.61	336.07	317.21	295.38	271.89
292.5	380.25	377.13	372.69	363.82	351.98	335.52	317.21	295.20	272.08
315.0	380.25	376.58	371.59	363.63	351.42	335.33	316.47	294.64	270.78
337.5	380.25	375.28	371.59	363.45	350.68	334.41	316.10	294.64	270.60
360.0	380.25	384.90	378.24	367.15	353.83	335.89	315.54	290.94	266.34

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	238.60	209.75	180.15	149.63	120.04	89.71	59.37	31.44	9.99
22.5	234.53	206.97	177.38	145.93	117.27	88.23	58.08	30.52	9.62
45.0	231.94	204.20	175.71	145.56	115.79	85.82	56.97	29.59	9.25
67.5	230.46	202.35	173.12	144.45	114.31	84.53	55.12	28.48	8.32
90.0	228.06	200.31	172.38	142.79	113.20	84.16	54.75	27.93	7.77
112.5	228.06	199.57	170.90	142.79	112.83	82.68	54.56	27.00	7.40
135.0	227.69	199.76	170.90	141.68	112.83	83.60	54.19	27.56	8.32
157.5	227.69	200.13	171.46	141.31	112.46	84.16	54.75	28.11	8.32
180.0	247.11	218.99	189.40	159.81	128.92	97.66	67.70	38.84	14.80
202.5	244.89	217.70	189.58	159.62	128.55	98.58	68.25	39.21	15.91
225.0	244.70	218.25	189.77	159.81	130.03	99.51	68.81	40.88	16.46
247.5	245.44	218.44	190.32	161.29	130.95	99.88	71.76	41.62	16.65
270.0	245.81	218.62	191.06	161.84	131.14	100.62	71.03	41.99	16.65
292.5	245.81	219.36	191.25	161.66	132.43	101.54	71.40	42.36	17.57
315.0	246.18	219.73	190.69	162.21	131.88	100.99	71.76	42.36	18.31
337.5	244.89	217.70	190.88	161.10	130.95	100.06	70.84	41.62	17.02
360.0	238.60	209.75	180.15	149.63	120.04	89.71	59.37	31.44	9.99

C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	0.37	0.37	0.37	0.37	0.19	0.56	0.37	0.56	0.56
22.5	0.74	0.74	0.93	0.93	0.74	0.93	0.74	1.11	0.93
45.0	0.74	0.56	0.93	0.74	0.93	0.93	0.93	0.93	0.93
67.5	0.74	0.93	0.93	0.93	0.93	0.93	0.93	0.93	1.11
90.0	0.74	0.74	0.74	0.74	0.93	0.93	1.11	1.11	1.11
112.5	0.74	0.93	0.74	0.93	0.74	0.93	0.93	0.93	0.93
135.0	0.74	0.74	0.93	0.93	0.74	0.93	0.93	1.11	1.30
157.5	0.93	0.56	0.93	0.74	0.93	0.93	0.93	0.93	1.11
180.0	1.30	0.93	0.93	0.93	0.93	0.93	0.93	1.11	1.11
202.5	2.04	1.11	0.93	1.11	1.11	1.11	1.11	1.11	1.30
225.0	2.40	0.93	0.93	1.11	1.11	1.30	1.30	1.11	1.11
247.5	2.40	1.11	1.11	1.11	0.93	1.11	0.93	1.30	1.30
270.0	3.14	1.11	0.93	1.30	0.93	1.11	1.30	1.11	1.30
292.5	3.14	1.11	0.93	0.93	1.11	1.11	1.11	1.11	1.30
315.0	3.14	1.11	1.11	1.11	0.93	1.11	1.30	1.30	1.30
337.5	2.59	0.93	1.11	1.11	0.93	1.30	1.11	1.30	1.11
360.0	0.37	0.37	0.37	0.37	0.19	0.56	0.37	0.56	0.56

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	0.56	0.74	0.56	0.74	0.56	0.56	0.74	0.74	0.74
22.5	0.74	1.11	0.93	1.11	0.93	1.30	1.11	1.11	1.11
45.0	1.11	1.11	1.11	1.11	1.30	1.30	1.11	1.48	1.30
67.5	1.11	1.30	1.11	1.30	1.30	1.30	1.30	1.30	1.30
90.0	0.93	0.93	1.11	1.11	1.30	1.30	1.30	1.30	1.30
112.5	1.11	1.11	1.11	1.11	1.48	1.30	1.11	1.11	1.30
135.0	1.11	1.11	1.30	1.30	1.30	1.11	1.30	1.11	1.30
157.5	1.30	0.93	1.30	1.30	1.11	1.30	1.11	1.30	1.48
180.0	1.11	1.11	1.30	1.30	1.30	0.93	1.11	1.11	1.30
202.5	1.30	1.30	1.11	1.30	1.30	1.30	1.30	1.30	1.30
225.0	1.30	1.11	1.30	1.30	1.48	1.30	1.30	1.30	1.48
247.5	1.11	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30
270.0	1.30	1.11	1.30	1.30	1.11	1.30	1.30	1.30	1.30
292.5	1.30	1.30	1.30	1.30	1.30	1.48	1.48	1.48	1.30
315.0	1.11	1.48	1.30	1.30	1.30	1.30	1.30	1.48	1.30
337.5	1.30	1.11	1.30	1.48	1.30	1.48	1.11	1.48	1.48
360.0	0.56	0.74	0.56	0.74	0.56	0.56	0.74	0.74	0.74

C/γ(°)	180.0
0.0	1.21
22.5	1.21
45.0	1.21
67.5	1.21
90.0	1.21
112.5	1.21
135.0	1.21
157.5	1.21
180.0	1.21
202.5	1.21
225.0	1.21
247.5	1.21
270.0	1.21
292.5	1.21
315.0	1.21
337.5	1.21
360.0	1.21