



Shenzhen Belling Efficiency Testing Laboratory Co.,Ltd.
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LumCAT: LL4SRG-30K

Luminaire:

Report No:

Voltage(V): 120.06

Test No:

Current(A): 0.1204

LampCAT:

Power (W): 14.3100

Lamp flux(lm): 866.1

PF: 0.9897

Number of Lamps: 1

Ballast type:

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 866.09

Efficiency(%): 100.00%

Lumens(lm)/Power(W): 60.52

Central intensity(cd): 369.163

Maximum intensity(cd): 369.163

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=99.8

[C90/270]Total=99.2

Field angle(10%Imax): [C0/180]Total=147.5

[C90/270]Total=147.8

Maximum s/h(1/2): C0_180=1.22 C90_270=1.18

Maximum s/h(1/4): C0_180=1.74 C90_270=1.27

Up flux rate of lamp(%): 0.82%

Down flux rate of lamp(%): 99.18%

Up flux rate of LUM(%): 0.82%

Down flux rate of LUM(%): 99.18%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 84.539%

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

Date:
Humidity(%): 58%

Operator: Zac

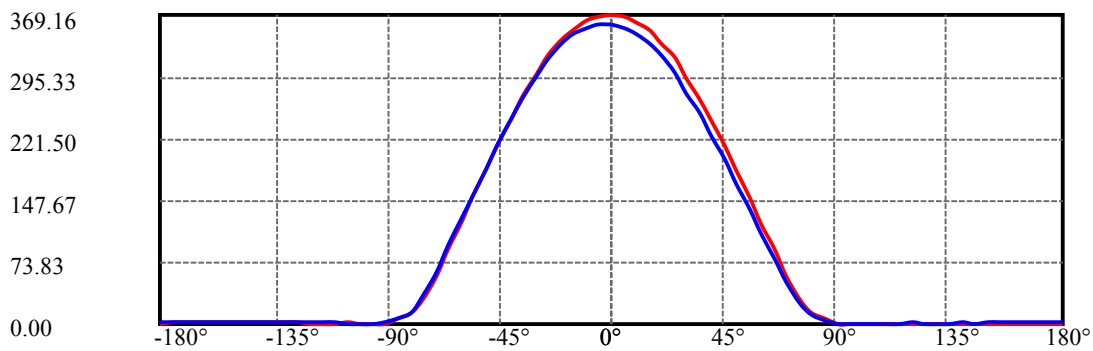
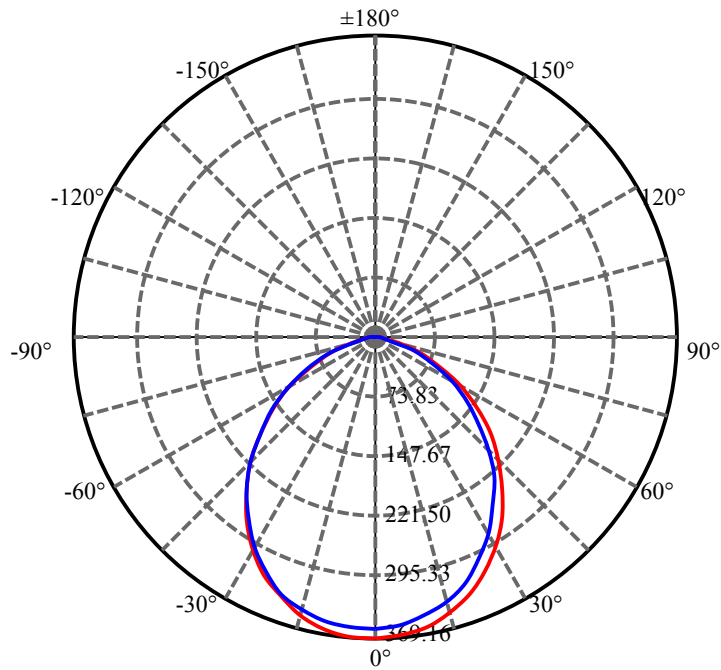
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	360.367	.000	.000	.000%	.000%
5.0	358.305	8.592	8.592	.992%	.992%
10.0	352.563	25.430	34.022	2.936%	3.928%
15.0	343.115	41.267	75.289	4.765%	8.693%
20.0	329.451	55.429	130.718	6.400%	15.093%
25.0	311.638	67.238	197.956	7.763%	22.856%
30.0	289.792	76.111	274.067	8.788%	31.644%
35.0	264.696	81.652	355.720	9.428%	41.072%
40.0	237.552	83.796	439.516	9.675%	50.747%
45.0	208.907	82.666	522.182	9.545%	60.292%
50.0	178.435	78.268	600.450	9.037%	69.329%
55.0	147.362	70.839	671.289	8.179%	77.508%
60.0	116.094	60.897	732.186	7.031%	84.539%
65.0	85.661	49.047	781.233	5.663%	90.202%
70.0	56.533	36.005	817.238	4.157%	94.359%
75.0	30.459	22.738	839.976	2.625%	96.985%
80.0	13.324	11.715	851.691	1.353%	98.337%
85.0	6.094	5.277	856.968	.609%	98.947%
90.0	1.148	1.983	858.951	.229%	99.176%
95.0	.913	.565	859.516	.065%	99.241%
100.0	1.005	.521	860.037	.060%	99.301%
105.0	.979	.531	860.568	.061%	99.362%
110.0	1.005	.518	861.086	.060%	99.422%
115.0	1.083	.529	861.615	.061%	99.483%
120.0	1.149	.543	862.157	.063%	99.546%
125.0	1.162	.534	862.691	.062%	99.607%
130.0	1.201	.514	863.205	.059%	99.667%
135.0	1.188	.483	863.688	.056%	99.723%
140.0	1.266	.454	864.142	.052%	99.775%
145.0	1.266	.422	864.565	.049%	99.824%
150.0	1.331	.382	864.947	.044%	99.868%
155.0	1.371	.342	865.289	.039%	99.907%
160.0	1.331	.283	865.572	.033%	99.940%
165.0	1.384	.224	865.796	.026%	99.966%
170.0	1.371	.163	865.959	.019%	99.985%
175.0	1.384	.099	866.058	.011%	99.996%
180.0	1.357	.033	866.091	.004%	100.000%

ZONAL LUMEN SUMMARY

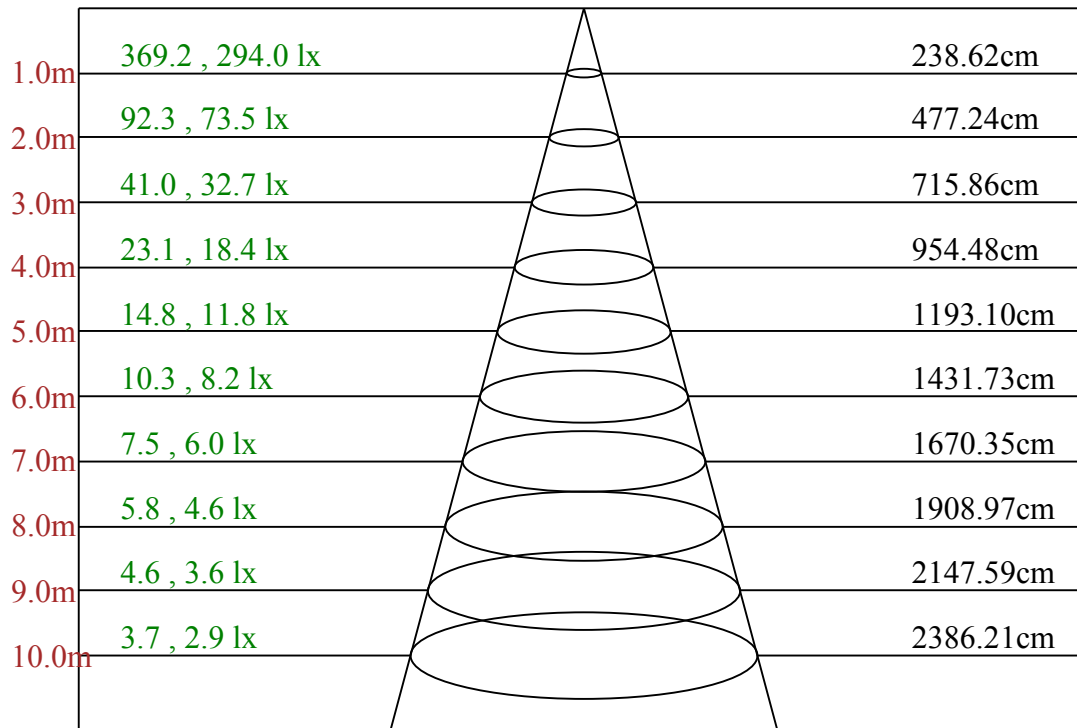
Zone	Lumens	%Lamp	%Fixt
0-30	274.07	31.64%	31.64%
0-40	439.52	50.75%	50.75%
0-60	732.19	84.54%	84.54%
0-90	858.95	99.18%	99.18%
0-120	862.16	99.55%	99.55%
0-180	866.09	100.00%	100.00%
60-90	187.66	21.67%	21.67%
90-120	5.19	0.60%	0.60%
90-130	6.24	0.72%	0.72%
90-150	7.98	0.92%	0.92%
90-180	9.09	1.05%	1.05%
0-56.77	692.87	80.00%	80.00%

ZONAL LUMEN SUMMARY

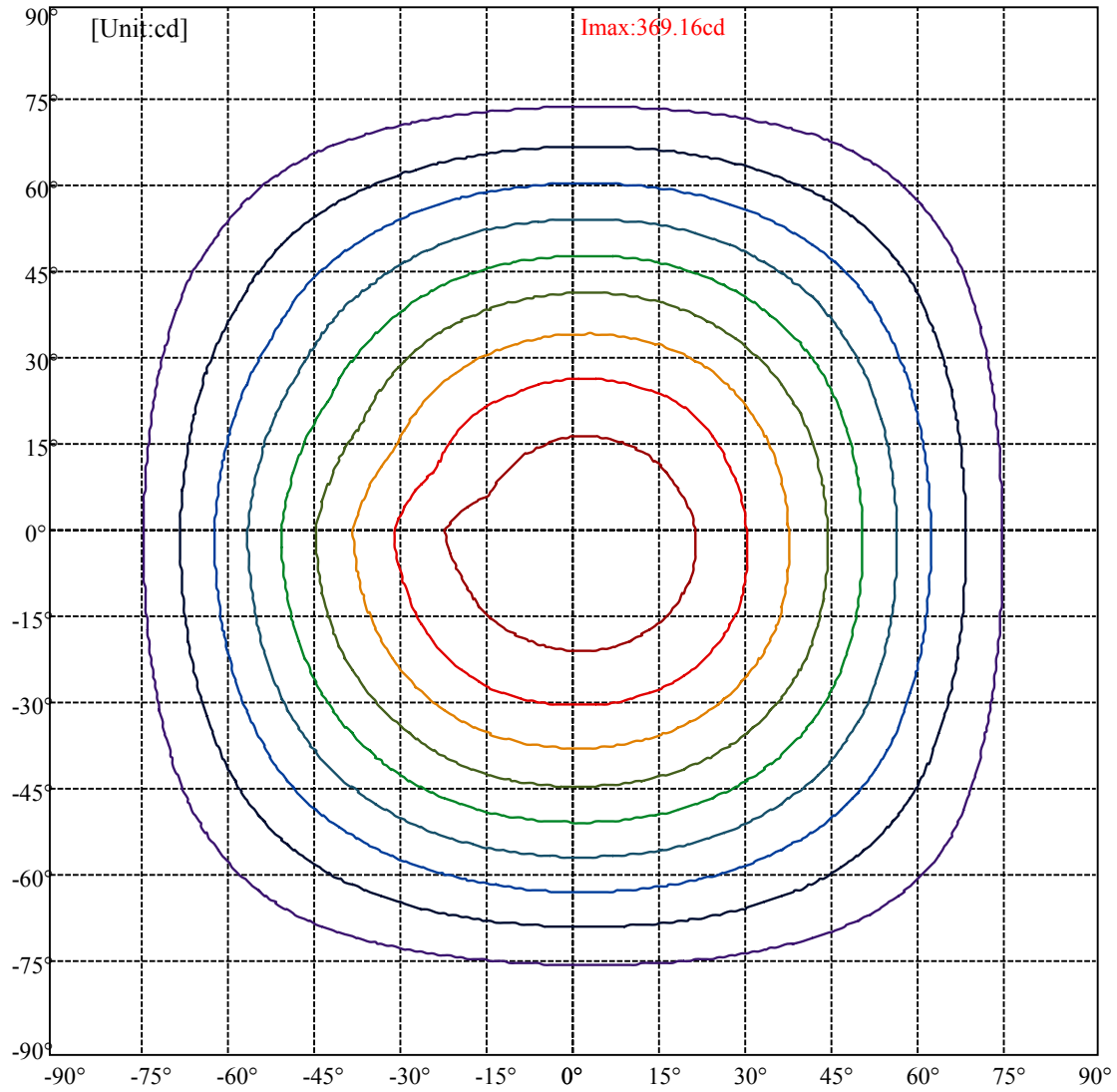
0-10	34.02
10-20	96.70
20-30	143.35
30-40	165.45
40-50	160.93
50-60	131.74
60-70	85.05
70-80	34.45
80-90	7.26
90-100	1.09
100-110	1.05
110-120	1.07
120-130	1.05
130-140	0.94
140-150	0.80
150-160	0.63
160-170	0.39
170-180	0.10



C0/C180: —
C90/C270: —
Field angle(10%Imax):C0/180Left:73.7 Right:73.7
:C90/270Left:74.9 Right:72.9
Beam Angle(50%Imax):C0/180Left:50.1 Right:49.7
:C90/270Left:51.1 Right:48.1



Max , Ave Beam angle of C0plane100.06



(10%Imax) 36.8829	—
(20%Imax) 73.7658	—
(30%Imax) 110.649	—
(40%Imax) 147.532	—
(50%Imax) 184.414	—
(60%Imax) 221.297	—
(70%Imax) 258.18	—
(80%Imax) 295.063	—
(90%Imax) 331.946	—

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	369.16	366.24	359.77	349.74	335.75	317.59	294.41	268.94	242.63
22.5	362.69	360.18	354.34	344.11	329.70	312.58	289.82	265.60	238.66
45.0	360.39	356.84	350.58	340.35	326.57	308.82	287.73	261.84	233.86
67.5	358.51	355.38	348.07	337.22	322.81	303.39	280.21	255.99	229.68
90.0	357.26	353.29	345.15	335.13	320.09	299.42	276.25	251.40	225.30
112.5	357.26	353.09	344.11	333.04	316.34	296.92	273.95	249.31	222.17
135.0	358.31	353.71	344.94	332.62	317.17	298.80	275.20	249.10	222.17
157.5	359.35	354.13	345.57	333.25	317.59	297.96	275.20	249.10	221.33
180.0	369.16	367.49	362.48	351.83	338.68	321.14	298.80	273.32	245.55
202.5	362.69	361.86	356.22	347.66	334.29	317.17	296.08	271.65	243.67
225.0	360.39	358.93	354.55	346.20	333.46	316.96	296.92	271.44	242.84
247.5	358.51	357.89	353.92	346.20	333.25	316.96	296.50	271.44	244.30
270.0	357.26	356.64	353.29	345.99	334.29	316.75	295.25	270.82	244.72
292.5	357.26	357.89	354.76	348.07	338.17	319.05	298.17	273.74	246.39
315.0	358.31	359.35	356.22	348.70	336.80	321.35	300.88	276.04	248.48
337.5	359.35	359.98	357.05	349.74	338.26	321.35	301.30	275.41	249.10
360.0	369.16	366.24	359.77	349.74	335.75	317.59	294.41	268.94	242.63
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	214.23	182.91	151.59	119.44	89.16	58.05	29.86	12.95	6.06
22.5	210.89	179.78	148.25	116.51	86.24	56.59	30.07	13.16	6.06
45.0	204.63	174.77	143.87	112.55	82.27	54.71	29.86	12.95	5.64
67.5	201.08	171.43	141.36	110.67	81.02	52.41	27.56	11.90	5.43
90.0	196.90	167.04	138.02	108.16	78.51	50.95	24.85	11.28	5.01
112.5	194.81	165.37	135.72	105.24	76.00	48.23	24.64	11.07	4.39
135.0	192.73	162.66	130.92	102.73	73.71	46.77	24.22	10.65	4.39
157.5	193.35	163.70	133.22	102.94	74.33	47.19	23.18	10.65	4.59
180.0	216.32	185.00	153.05	120.90	88.95	58.05	29.86	13.16	6.26
202.5	215.69	183.54	152.22	119.44	87.28	57.21	30.49	13.16	6.47
225.0	212.98	182.91	150.96	118.39	87.91	58.67	32.57	14.20	6.68
247.5	215.69	184.79	152.64	120.48	90.20	60.55	33.20	14.20	6.47
270.0	215.69	185.63	154.51	125.07	92.92	62.64	35.08	14.20	6.68
292.5	217.78	187.71	156.39	125.07	93.96	64.52	36.54	15.45	7.31
315.0	219.87	188.76	157.02	124.45	93.96	64.10	37.38	17.54	7.93
337.5	219.87	188.97	158.06	125.49	94.17	63.89	38.00	16.70	8.14
360.0	214.23	182.91	151.59	119.44	89.16	58.05	29.86	12.95	6.06
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	0.42	0.21	0.21	0.42	0.42	0.42	0.21
22.5	0.84	0.84	0.84	0.84	0.84	0.63	1.04	0.84	1.04
45.0	1.04	0.84	1.04	0.84	0.84	1.25	1.04	1.25	1.25
67.5	0.84	0.84	1.04	0.84	0.84	1.04	1.04	1.25	1.25
90.0	1.04	0.84	0.84	0.84	1.04	0.84	1.25	1.04	1.04
112.5	1.04	0.84	0.84	1.04	1.04	1.04	1.04	1.04	1.25
135.0	0.84	1.04	0.84	0.84	0.84	1.25	1.04	1.04	0.84
157.5	0.84	0.84	1.04	0.84	1.04	1.04	1.04	1.25	1.25
180.0	0.84	1.04	1.04	1.25	1.04	1.04	1.04	1.25	1.46
202.5	1.25	0.84	1.04	1.25	1.04	1.04	1.25	1.25	1.04
225.0	1.04	1.04	1.25	1.25	1.25	1.25	1.46	1.46	1.46
247.5	1.46	1.04	1.04	1.25	1.25	1.25	1.46	1.25	1.46
270.0	1.46	1.04	1.04	1.04	1.25	1.25	1.25	1.25	1.46
292.5	2.09	1.25	1.46	1.04	1.25	1.25	1.25	1.46	1.25
315.0	1.67	1.25	1.25	1.04	1.04	1.25	1.46	1.25	1.46
337.5	2.09	1.04	1.04	1.25	1.25	1.46	1.25	1.25	1.46
360.0	0.00	0.00	0.42	0.21	0.21	0.42	0.42	0.42	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	0.21	0.63	0.63	0.63	0.42	0.63	0.84	0.63	0.63
22.5	1.04	0.84	1.04	1.25	1.46	1.25	1.46	1.25	1.46
45.0	1.04	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.46
67.5	1.25	1.25	1.04	1.25	1.25	1.46	1.46	1.46	1.46
90.0	1.04	1.25	1.04	1.46	1.67	1.46	1.46	1.46	1.46
112.5	1.25	1.25	1.25	1.04	1.46	1.25	1.04	1.46	1.25
135.0	1.04	1.25	1.46	1.46	1.46	1.25	1.46	1.46	1.46
157.5	1.25	1.04	1.25	1.25	1.25	1.46	1.46	1.46	1.46
180.0	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25
202.5	1.46	1.46	1.46	1.46	1.46	1.46	1.46	1.46	1.46
225.0	1.25	1.67	1.46	1.46	1.46	1.46	1.46	1.46	1.46
247.5	1.46	1.67	1.67	1.46	1.67	1.46	1.67	1.25	1.46
270.0	1.46	1.46	1.46	1.46	1.46	1.46	1.46	1.46	1.46
292.5	1.25	1.46	1.25	1.46	1.46	1.46	1.46	1.46	1.67
315.0	1.46	1.25	1.25	1.67	1.46	1.46	1.46	1.67	1.46
337.5	1.25	1.25	1.46	1.46	1.46	1.25	1.46	1.46	1.25
360.0	0.21	0.63	0.63	0.63	0.42	0.63	0.84	0.63	0.63
C/γ(°)	180.0								
0.0	0.63								
22.5	1.67								
45.0	1.46								
67.5	1.25								
90.0	1.46								
112.5	1.67								
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