



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

LumCAT: LL4SR-40K

Luminaire:

Report No:

Voltage(V): 120.02

Test No:

Current(A): 0.1216

LampCAT:

Power (W): 14.4160

Lamp flux(lm): 950.7

PF: 0.9878

Number of Lamps: 1

Ballast type:

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 950.70

Efficiency(%): 100.00%

Lumens(lm)/Power(W): 65.95

Central intensity(cd): 409.323

Maximum intensity(cd): 409.323

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=99.7

[C90/270]Total=99.3

Field angle(10%Imax): [C0/180]Total=147.6

[C90/270]Total=148.0

Maximum s/h(1/2): C0_180=1.24 C90_270=1.18

Maximum s/h(1/4): C0_180=1.77 C90_270=1.29

Up flux rate of lamp(%): 0.33%

Down flux rate of lamp(%): 99.67%

Up flux rate of LUM(%): 0.33%

Down flux rate of LUM(%): 99.67%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 85.070%

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

Date:
Humidity(%): 58%

Operator: Zac

Zonal flux distribution table

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$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	398.855	.000	.000	.000%	.000%
5.0	396.746	9.511	9.511	1.000%	1.000%
10.0	390.259	28.154	37.665	2.961%	3.962%
15.0	379.807	45.680	83.345	4.805%	8.767%
20.0	365.073	61.389	144.733	6.457%	15.224%
25.0	344.486	74.420	219.153	7.828%	23.052%
30.0	319.998	84.091	303.244	8.845%	31.897%
35.0	292.480	90.192	393.435	9.487%	41.384%
40.0	262.441	92.584	486.020	9.738%	51.122%
45.0	230.339	91.242	577.262	9.597%	60.719%
50.0	196.636	86.277	663.538	9.075%	69.794%
55.0	162.473	78.082	741.621	8.213%	78.007%
60.0	128.025	67.148	808.768	7.063%	85.070%
65.0	94.527	54.103	862.871	5.691%	90.761%
70.0	62.363	39.726	902.597	4.179%	94.940%
75.0	33.561	25.073	927.669	2.637%	97.577%
80.0	13.925	12.706	940.375	1.336%	98.913%
85.0	5.979	5.409	945.784	.569%	99.482%
90.0	.555	1.789	947.573	.188%	99.671%
95.0	.254	.222	947.795	.023%	99.694%
100.0	.254	.138	947.933	.015%	99.708%
105.0	.286	.144	948.077	.015%	99.724%
110.0	.365	.170	948.247	.018%	99.741%
115.0	.365	.185	948.432	.019%	99.761%
120.0	.476	.204	948.636	.022%	99.782%
125.0	.524	.231	948.867	.024%	99.807%
130.0	.523	.228	949.095	.024%	99.831%
135.0	.587	.224	949.320	.024%	99.854%
140.0	.650	.229	949.549	.024%	99.878%
145.0	.666	.220	949.768	.023%	99.901%
150.0	.809	.217	949.986	.023%	99.924%
155.0	.840	.209	950.194	.022%	99.946%
160.0	.825	.175	950.369	.018%	99.965%
165.0	.920	.144	950.513	.015%	99.980%
170.0	.872	.106	950.619	.011%	99.991%
175.0	.936	.065	950.684	.007%	99.998%
180.0	.888	.022	950.705	.002%	100.000%

Equipment: GMS-3000
Temperature($^{\circ}$ C): 25

Date:
Humidity(%): 58%

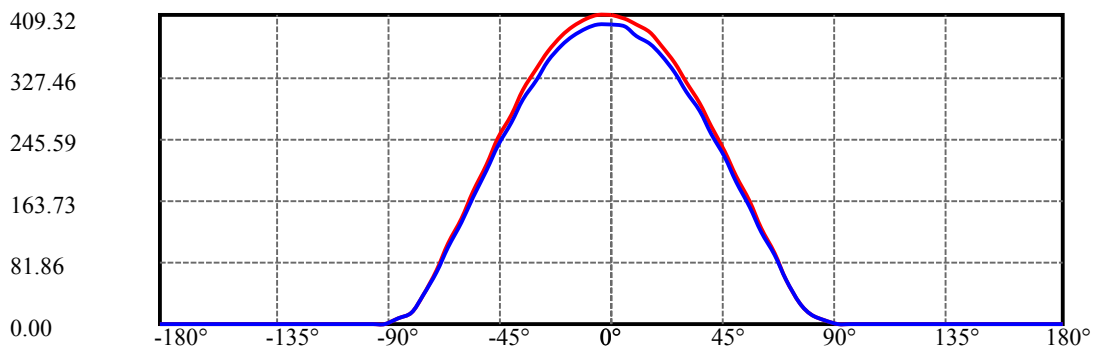
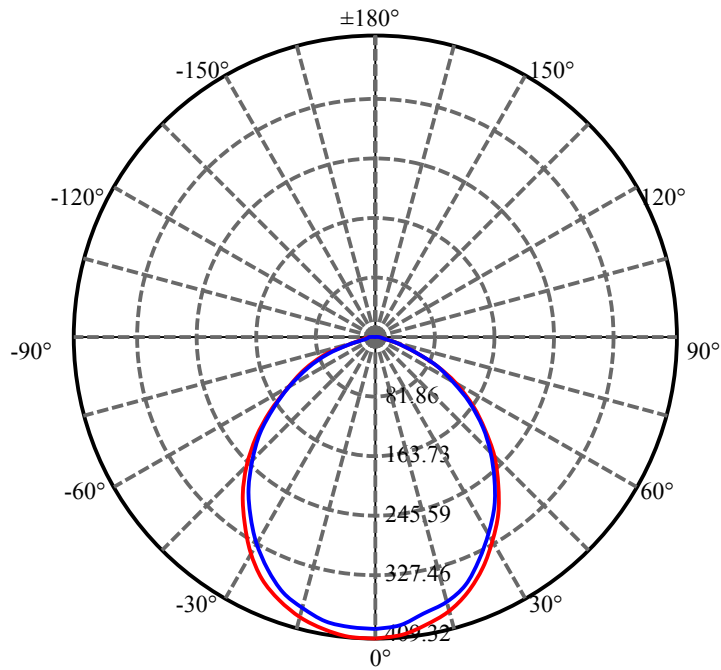
Operator: Zac

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	303.24	31.90%	31.90%
0-40	486.02	51.12%	51.12%
0-60	808.77	85.07%	85.07%
0-90	947.57	99.67%	99.67%
0-120	948.64	99.78%	99.78%
0-180	950.71	100.00%	100.00%
60-90	205.95	21.66%	21.66%
90-120	2.85	0.30%	0.30%
90-130	3.31	0.35%	0.35%
90-150	4.20	0.44%	0.44%
90-180	4.90	0.52%	0.52%
0-56.41	760.56	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	37.66
10-20	107.07
20-30	158.51
30-40	182.78
40-50	177.52
50-60	145.23
60-70	93.83
70-80	37.78
80-90	7.20
90-100	0.36
100-110	0.31
110-120	0.39
120-130	0.46
130-140	0.45
140-150	0.44
150-160	0.38
160-170	0.25
170-180	0.06

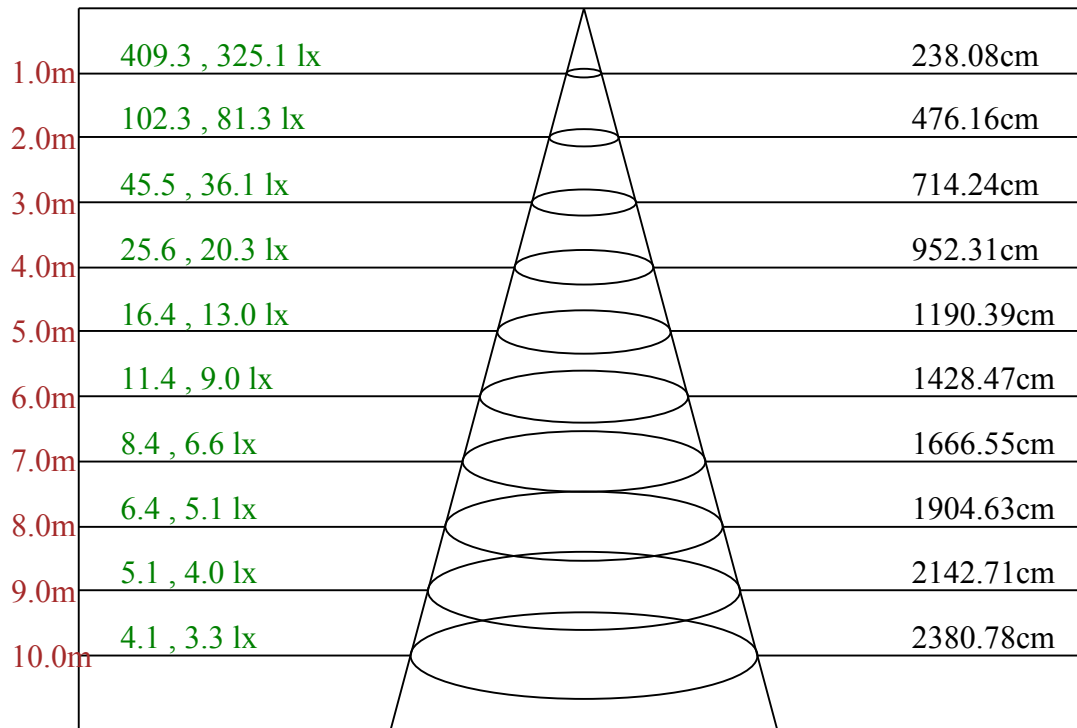


C0/C180: —

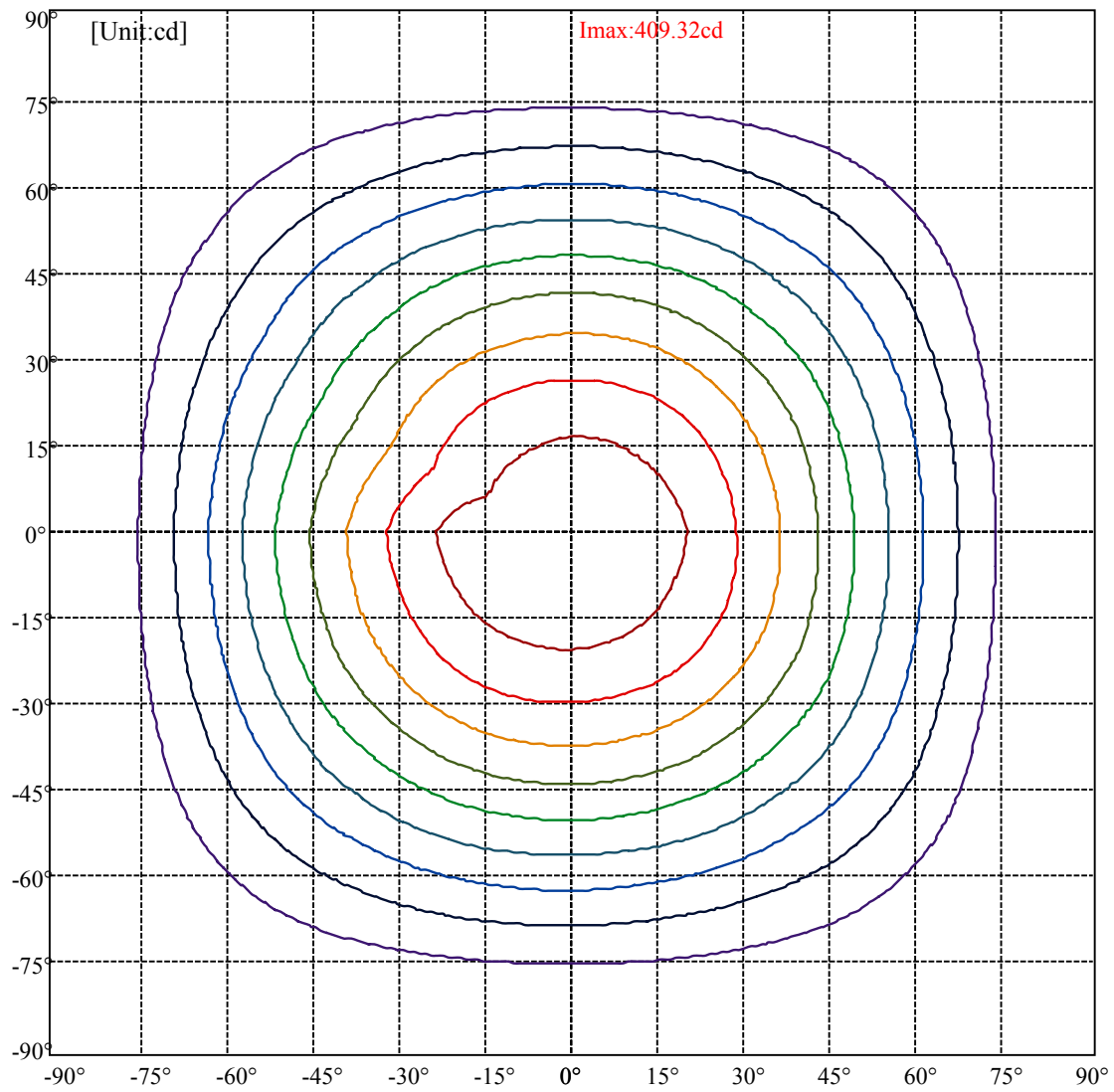
C90/C270: —

Field angle(10%Imax):C0/180Left:74.6 Right:73.0
 :C90/270Left:74.7 Right:73.3

Beam Angle(50%Imax):C0/180Left:51.0 Right:48.7
 :C90/270Left:50.7 Right:48.6



Max , Ave Beam angle of C0plane99.88



(10%Imax) 40.9069	—
(20%Imax) 81.8138	—
(30%Imax) 122.721	—
(40%Imax) 163.628	—
(50%Imax) 204.535	—
(60%Imax) 245.442	—
(70%Imax) 286.348	—
(80%Imax) 327.255	—
(90%Imax) 368.162	—

Intensity data(cd)

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C/γ(°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	409.32	405.01	396.64	385.22	367.96	344.87	319.24	292.08	261.38
22.5	403.23	399.17	391.05	378.87	362.63	341.06	315.94	288.02	258.59
45.0	400.70	396.64	388.01	376.08	358.82	339.54	313.65	284.98	253.51
67.5	397.90	394.10	385.72	374.05	357.56	334.72	310.61	283.46	252.75
90.0	396.13	392.83	382.42	372.27	356.54	332.69	308.32	281.43	252.75
112.5	395.11	390.80	382.93	370.24	354.51	333.45	308.32	280.92	251.48
135.0	394.60	390.54	383.19	370.75	354.51	334.46	310.10	281.43	250.97
157.5	393.84	390.29	383.19	369.74	354.76	332.69	308.07	280.66	252.50
180.0	409.32	408.05	403.49	394.86	380.90	361.36	337.00	309.34	278.13
202.5	403.23	402.73	398.92	389.28	376.84	356.54	332.43	305.28	276.10
225.0	400.70	400.44	395.37	386.23	373.29	355.27	330.66	303.25	272.04
247.5	397.90	397.65	393.34	385.22	370.50	351.46	327.86	299.70	270.01
270.0	396.13	395.37	392.07	381.92	369.23	348.42	323.55	296.91	267.47
292.5	395.11	394.60	390.04	381.41	368.47	348.67	324.31	297.16	267.47
315.0	394.60	395.37	389.02	380.39	367.71	348.93	325.58	297.92	266.96
337.5	393.84	394.35	388.77	380.39	366.94	347.66	324.31	297.16	266.96
360.0	409.32	405.01	396.64	385.22	367.96	344.87	319.24	292.08	261.38
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	229.15	195.65	161.65	127.39	92.88	59.13	28.93	12.43	5.08
22.5	226.11	191.59	156.83	123.33	89.07	57.10	29.18	12.69	5.33
45.0	221.54	188.29	154.04	120.03	87.55	56.59	30.45	12.43	5.33
67.5	221.79	189.82	156.07	121.55	88.82	58.11	28.93	12.18	4.82
90.0	221.28	189.06	155.56	122.57	90.85	59.13	29.18	12.18	4.57
112.5	221.03	188.04	154.29	119.78	88.82	57.86	30.45	12.43	4.82
135.0	219.00	185.50	152.77	119.52	86.53	56.34	31.21	13.20	5.33
157.5	221.54	188.55	155.81	122.06	89.07	57.61	29.44	12.94	5.84
180.0	245.90	212.15	176.11	139.83	106.07	71.05	38.32	14.97	7.36
202.5	242.35	207.33	171.04	136.53	101.25	67.76	38.57	15.73	7.36
225.0	237.78	203.27	169.01	133.23	98.72	67.25	38.32	17.00	7.11
247.5	237.02	203.01	170.02	133.99	100.49	67.50	37.56	14.97	6.60
270.0	236.00	202.76	168.25	135.51	101.25	68.26	38.07	14.47	6.60
292.5	234.99	200.73	167.23	131.96	97.95	65.22	37.05	15.23	6.09
315.0	234.73	198.95	164.69	129.42	95.67	64.46	36.29	15.99	6.60
337.5	235.24	201.49	166.22	131.70	97.45	64.46	35.02	13.96	6.85
360.0	229.15	195.65	161.65	127.39	92.88	59.13	28.93	12.43	5.08
C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	0.51	0.25	0.51	0.25	0.25	0.25	0.51	0.51	0.25
22.5	0.25	0.51	0.25	0.51	0.51	0.76	0.76	0.76	0.76
45.0	0.76	0.25	0.51	0.76	0.51	0.51	0.51	0.76	0.76
67.5	0.51	0.51	0.51	0.51	0.51	0.51	0.76	0.76	0.76
90.0	0.51	0.76	0.51	0.51	0.76	0.76	0.76	0.76	0.76
112.5	0.76	0.25	0.51	0.51	0.51	0.51	0.76	0.76	0.76
135.0	0.51	0.76	0.51	0.51	0.76	0.76	0.76	0.51	0.76
157.5	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.76	0.76
180.0	0.51	0.00	0.00	0.00	0.25	0.00	0.51	0.25	0.25
202.5	0.51	0.00	0.00	0.00	0.00	0.25	0.25	0.25	0.25
225.0	0.76	0.00	0.00	0.00	0.25	0.00	0.25	0.51	0.51
247.5	0.76	0.25	0.00	0.00	0.25	0.00	0.25	0.25	0.51
270.0	0.51	0.00	0.00	0.00	0.00	0.51	0.25	0.51	0.25
292.5	0.51	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.25
315.0	0.51	0.00	0.25	0.25	0.25	0.25	0.25	0.51	0.51
337.5	0.51	0.00	0.00	0.25	0.25	0.25	0.51	0.51	0.25
360.0	0.51	0.25	0.51	0.25	0.25	0.25	0.51	0.51	0.25

Intensity data(cd)

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C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	0.51	0.76	0.51	0.76	0.76	0.76	0.76	0.76	0.76
22.5	0.76	0.76	0.76	0.76	1.02	1.02	1.02	0.76	0.76
45.0	0.76	0.51	0.76	1.02	1.02	0.76	1.02	0.76	1.02
67.5	1.02	1.02	0.76	1.02	1.02	1.02	0.76	1.02	1.02
90.0	0.51	0.76	0.51	1.02	0.76	1.02	1.27	0.76	0.76
112.5	0.76	1.02	1.02	1.02	1.02	1.02	1.02	0.76	1.27
135.0	0.76	0.76	0.76	1.02	0.76	0.76	1.02	0.76	1.02
157.5	1.02	1.02	0.76	1.02	1.02	0.76	1.02	0.76	1.02
180.0	0.25	0.51	0.51	0.51	0.76	0.76	0.76	0.76	0.76
202.5	0.51	0.51	0.51	0.76	0.76	0.76	0.76	1.02	1.27
225.0	0.51	0.51	0.51	0.25	0.76	0.76	1.02	0.76	1.02
247.5	0.51	0.25	0.76	0.76	0.76	0.76	1.02	1.27	0.76
270.0	0.51	0.51	0.51	1.02	0.76	0.76	0.76	1.02	1.02
292.5	0.25	0.51	0.76	0.51	0.76	0.76	1.02	1.02	1.02
315.0	0.25	0.51	0.51	0.76	0.76	1.02	0.76	0.76	0.51
337.5	0.51	0.51	0.76	0.76	0.76	0.51	0.76	1.02	1.02
360.0	0.51	0.76	0.51	0.76	0.76	0.76	0.76	0.76	0.76
C/γ(°)	180.0								
0.0	0.76								
22.5	1.27								
45.0	1.02								
67.5	0.76								
90.0	0.76								
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