



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

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LumCAT:

Luminaire:

Report No:

Voltage(V): 120.05

Test No:

Current(A): 0.0857

LampCAT:

Power (W): 9.7470

Lamp flux(lm): 562.1

PF: 0.9469

Number of Lamps: 1

Ballast type:

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

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### Photometric Results

Lumens(lm): 562.09

Efficiency(%): 100.00%

Lumens(lm)/Power(W): 57.67

Central intensity(cd): 195.162

Maximum intensity(cd): 195.162

Angle of maximum intensity: C=0.0  $\gamma$ =0.0

Beam Angle(50%Imax): [C0/180]Total=112.6

[C90/270]Total=112.6

Field angle(10%Imax): [C0/180]Total=161.0

[C90/270]Total=162.0

Maximum s/h(1/2): C0\_180=1.28 C90\_270=1.26

Maximum s/h(1/4): C0\_180=1.82 C90\_270=1.37

Up flux rate of lamp(%): 1.40%

Down flux rate of lamp(%): 98.60%

Up flux rate of LUM(%): 1.40%

Down flux rate of LUM(%): 98.60%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 77.870%

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

Date:  
Humidity(%): 58%

Operator: Zac

## Zonal flux distribution table

Page: 2 Total:7

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	193.178	.000	.000	.000%	.000%
5.0	192.351	4.609	4.609	.820%	.820%
10.0	189.870	13.673	18.282	2.433%	3.253%
15.0	185.901	22.290	40.573	3.966%	7.218%
20.0	180.332	30.183	70.755	5.370%	12.588%
25.0	173.138	37.072	107.828	6.595%	19.183%
30.0	164.565	42.737	150.564	7.603%	26.786%
35.0	154.531	46.989	197.554	8.360%	35.146%
40.0	143.202	49.675	247.228	8.837%	43.984%
45.0	130.219	50.626	297.854	9.007%	52.990%
50.0	116.023	49.757	347.611	8.852%	61.842%
55.0	100.862	47.158	394.769	8.390%	70.232%
60.0	84.874	42.932	437.701	7.638%	77.870%
65.0	68.583	37.305	475.006	6.637%	84.507%
70.0	51.988	30.529	505.535	5.431%	89.938%
75.0	35.945	22.984	528.520	4.089%	94.027%
80.0	21.032	15.246	543.765	2.712%	96.740%
85.0	8.159	7.932	551.697	1.411%	98.151%
90.0	1.158	2.551	554.249	.454%	98.605%
95.0	1.075	.611	554.860	.109%	98.714%
100.0	1.103	.592	555.452	.105%	98.819%
105.0	1.103	.590	556.042	.105%	98.924%
110.0	1.130	.584	556.626	.104%	99.028%
115.0	1.186	.586	557.212	.104%	99.132%
120.0	1.186	.576	557.788	.103%	99.235%
125.0	1.186	.548	558.336	.098%	99.332%
130.0	1.296	.540	558.876	.096%	99.428%
135.0	1.351	.535	559.411	.095%	99.523%
140.0	1.434	.516	559.926	.092%	99.615%
145.0	1.461	.483	560.409	.086%	99.701%
150.0	1.544	.442	560.852	.079%	99.779%
155.0	1.461	.380	561.232	.068%	99.847%
160.0	1.461	.306	561.538	.055%	99.902%
165.0	1.461	.241	561.779	.043%	99.945%
170.0	1.434	.172	561.951	.031%	99.975%
175.0	1.489	.105	562.055	.019%	99.994%
180.0	1.489	.036	562.091	.006%	100.000%

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

Date:  
Humidity(%): 58%

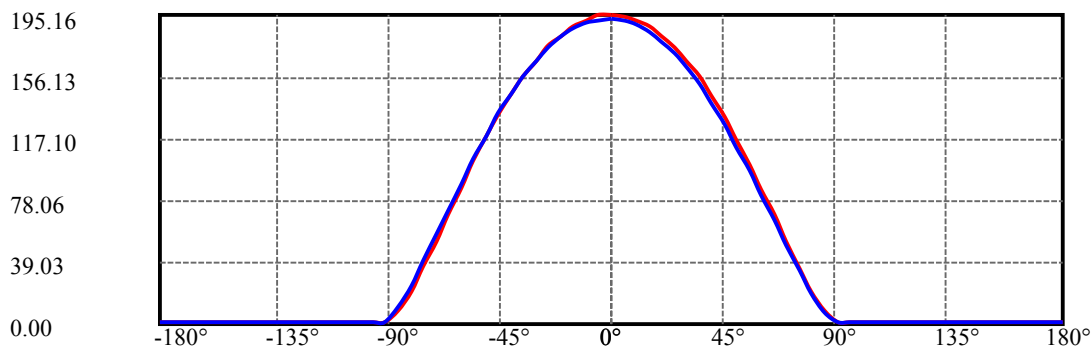
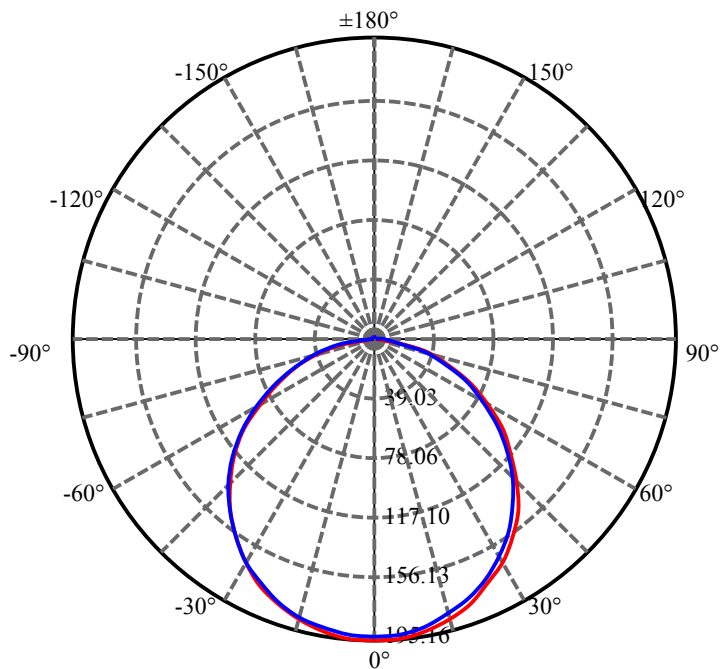
Operator: Zac

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	150.56	26.79%	26.79%
0-40	247.23	43.98%	43.98%
0-60	437.70	77.87%	77.87%
0-90	554.25	98.60%	98.60%
0-120	557.79	99.23%	99.23%
0-180	562.09	100.00%	100.00%
60-90	159.48	28.37%	28.37%
90-120	6.09	1.08%	1.08%
90-130	7.18	1.28%	1.28%
90-150	9.15	1.63%	1.63%
90-180	10.36	1.84%	1.84%
0-61.60	449.67	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	18.28
10-20	52.47
20-30	79.81
30-40	96.66
40-50	100.38
50-60	90.09
60-70	67.83
70-80	38.23
80-90	10.48
90-100	1.20
100-110	1.17
110-120	1.16
120-130	1.09
130-140	1.05
140-150	0.93
150-160	0.69
160-170	0.41
170-180	0.10

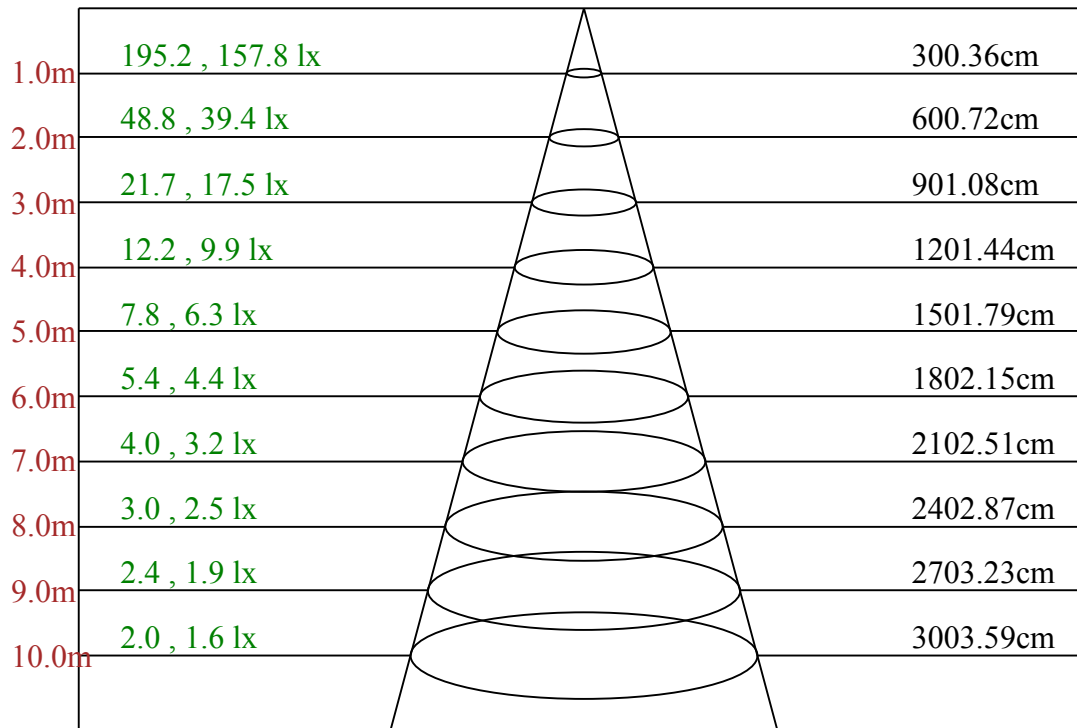


C0/C180: —

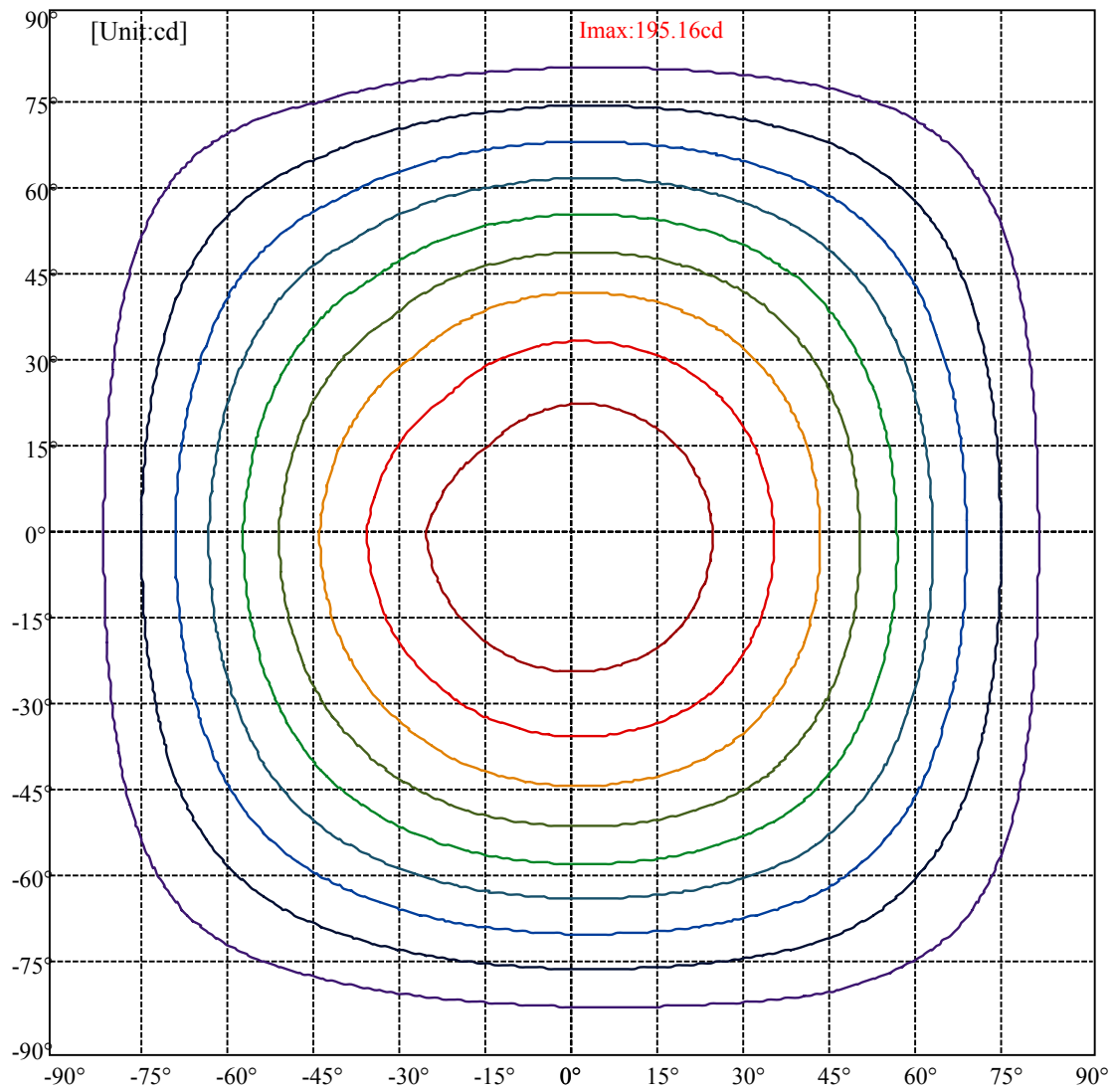
C90/C270: —

Field angle(10%Imax):C0/180Left:80.6 Right:80.5  
:C90/270Left:82.0 Right:80.1

Beam Angle(50%Imax):C0/180Left:56.5 Right:56.1  
:C90/270Left:57.6 Right:55.1



Max , Ave      Beam angle of C0plane112.68



(10%Imax) 19.5118	—
(20%Imax) 39.0236	—
(30%Imax) 58.5354	—
(40%Imax) 78.0472	—
(50%Imax) 97.559	—
(60%Imax) 117.071	—
(70%Imax) 136.583	—
(80%Imax) 156.094	—
(90%Imax) 175.606	—

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	195.16	194.50	191.86	187.89	182.15	174.65	165.83	155.91	144.66
45.0	193.18	192.08	189.65	185.68	179.95	172.67	164.07	153.93	142.46
90.0	192.74	191.63	188.99	184.36	178.62	171.13	162.08	151.28	139.81
135.0	191.63	190.09	186.56	182.15	175.98	167.60	158.34	148.19	135.84
180.0	195.16	194.94	192.08	187.89	182.37	175.54	166.50	156.57	144.88
225.0	193.18	192.52	190.31	186.34	180.83	173.77	165.17	155.03	144.22
270.0	192.74	191.63	189.87	186.56	181.27	174.43	166.50	156.79	145.99
315.0	191.63	191.41	189.65	186.34	181.49	175.32	168.04	158.56	147.75
360.0	195.16	194.50	191.86	187.89	182.15	174.65	165.83	155.91	144.66

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	130.77	116.00	101.00	85.34	68.80	51.82	35.73	20.73	7.94
45.0	129.45	115.33	99.90	83.58	66.82	50.94	34.84	20.29	7.72
90.0	126.14	111.81	96.59	80.71	65.72	49.62	34.18	19.41	6.84
135.0	122.39	107.40	91.96	76.52	60.42	44.11	28.67	15.44	3.53
180.0	132.53	118.20	102.54	86.22	69.47	52.48	35.95	20.95	7.94
225.0	131.43	117.54	102.54	86.22	69.69	52.04	36.17	20.73	7.72
270.0	133.64	119.30	104.75	88.43	72.11	56.45	40.14	24.48	11.25
315.0	135.40	122.61	107.62	91.96	75.64	58.44	41.90	26.24	12.35
360.0	130.77	116.00	101.00	85.34	68.80	51.82	35.73	20.73	7.94

C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	1.10	0.88	1.10	1.10	1.10	1.10	1.10	1.10	1.10
45.0	1.10	1.32	1.32	1.32	1.32	1.32	1.54	1.32	1.54
90.0	1.10	1.32	1.10	1.32	1.32	1.54	1.32	1.32	1.54
135.0	1.32	1.54	1.32	1.10	1.32	1.54	1.54	1.54	1.54
180.0	0.88	0.88	0.88	0.88	0.88	1.10	0.88	1.10	1.10
225.0	1.10	0.88	0.88	1.10	1.10	0.88	0.88	0.66	1.10
270.0	0.88	0.88	1.10	0.88	1.10	1.10	1.10	1.10	1.10
315.0	1.76	0.88	1.10	1.10	0.88	0.88	1.10	1.32	1.32
360.0	1.10	0.88	1.10	1.10	1.10	1.10	1.10	1.10	1.10

C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	1.32	1.10	1.54	1.32	1.32	1.10	1.32	1.10	1.10
45.0	1.32	1.54	1.54	1.76	1.54	1.54	1.54	1.32	1.32
90.0	1.54	1.76	1.76	1.54	1.54	1.76	1.54	1.54	1.54
135.0	1.54	1.54	1.54	1.76	1.32	1.54	1.54	1.54	1.76
180.0	1.10	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32
225.0	1.32	1.32	1.54	1.54	1.54	1.54	1.32	1.54	1.54
270.0	1.32	1.54	1.32	1.32	1.54	1.32	1.54	1.54	1.76
315.0	1.32	1.32	1.10	1.76	1.54	1.54	1.54	1.54	1.54
360.0	1.32	1.10	1.54	1.32	1.32	1.10	1.32	1.10	1.10

C/γ(°)	180.0
0.0	1.10
45.0	1.54
90.0	1.54
135.0	1.76
180.0	1.10
225.0	1.54
270.0	1.54
315.0	1.76
360.0	1.10