



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

Tel:0755-21038430

Address:Rm. 108, No.1 Building, Meibaohe industrial park, No.14 Shilongzi Road, Dalang street, Longhua district, Shenzhen, China

Client:

LumCAT: LD4R-HO-3018K

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.08

LampCAT:

Current(A): 0.1490

Lamp flux(lm): -1.0

Power (W): 17.71

Number of Lamps: 1

PF: 0.9871

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1598.08, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 90.25

Central intensity(cd): 4462.963, Maximum intensity(cd): 4462.963

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=34.2

[C90/270]Total=36.7

Field angle(10%Imax): [C0/180]Total=52.9

[C90/270]Total=54.3

Maximum s/h(1/2): C0_180=0.57 C90_270=0.66

Maximum s/h(1/4): C0_180=0.54 C90_270=0.61

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 0.00%

Up flux rate of LUM(%): 0.43%

Down flux rate of LUM(%): 99.57%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 98.222%

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

Date:
Humidity(%): 59%

Operator: Tester

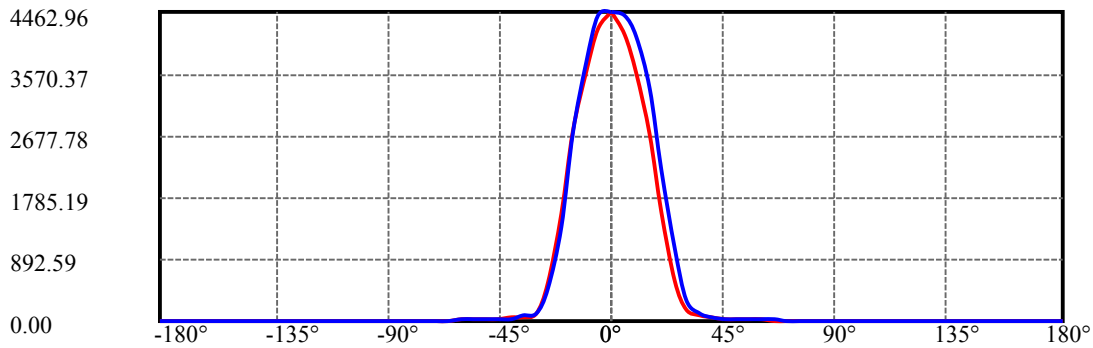
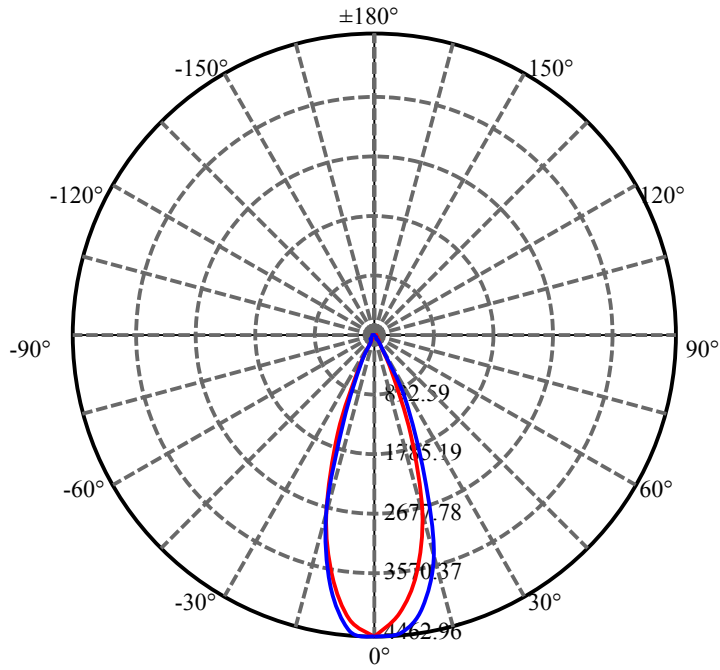
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	4462.963	0.000	0	0.00%	0.00%
5.0	4229.833	103.920	103.92	0.00%	6.50%
10.0	3700.184	283.682	387.602	0.00%	24.25%
15.0	2854.595	388.825	776.427	0.00%	48.59%
20.0	1586.200	365.984	1142.411	0.00%	71.49%
25.0	593.671	228.628	1371.039	0.00%	85.79%
30.0	165.370	96.057	1467.096	0.00%	91.80%
35.0	77.605	35.780	1502.876	0.00%	94.04%
40.0	47.485	20.870	1523.746	0.00%	95.35%
45.0	33.955	15.079	1538.825	0.00%	96.29%
50.0	25.842	12.083	1550.908	0.00%	97.05%
55.0	20.788	10.139	1561.047	0.00%	97.68%
60.0	16.459	8.610	1569.657	0.00%	98.22%
65.0	12.545	7.051	1576.708	0.00%	98.66%
70.0	9.150	5.493	1582.201	0.00%	99.01%
75.0	6.247	4.024	1586.226	0.00%	99.26%
80.0	3.862	2.705	1588.931	0.00%	99.43%
85.0	1.815	1.543	1590.473	0.00%	99.52%
90.0	0.596	0.660	1591.133	0.00%	99.57%
95.0	0.648	0.341	1591.474	0.00%	99.59%
100.0	0.648	0.352	1591.826	0.00%	99.61%
105.0	0.674	0.354	1592.179	0.00%	99.63%
110.0	0.752	0.373	1592.552	0.00%	99.65%
115.0	0.674	0.361	1592.913	0.00%	99.68%
120.0	0.777	0.353	1593.266	0.00%	99.70%
125.0	0.829	0.371	1593.637	0.00%	99.72%
130.0	0.881	0.372	1594.009	0.00%	99.75%
135.0	0.907	0.361	1594.37	0.00%	99.77%
140.0	1.218	0.394	1594.764	0.00%	99.79%
145.0	1.530	0.458	1595.222	0.00%	99.82%
150.0	1.996	0.519	1595.742	0.00%	99.85%
155.0	2.411	0.558	1596.299	0.00%	99.89%
160.0	2.774	0.544	1596.843	0.00%	99.92%
165.0	3.266	0.498	1597.341	0.00%	99.95%
170.0	3.447	0.398	1597.739	0.00%	99.98%
175.0	3.525	0.249	1597.988	0.00%	99.99%
180.0	3.778	0.087	1598.076	0.00%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1467.10	N.A.	91.80%
0-40	1523.75	N.A.	95.35%
0-60	1569.66	N.A.	98.22%
0-90	1591.13	N.A.	99.57%
0-120	1593.27	N.A.	99.70%
0-180	1598.08	N.A.	100.00%
60-90	21.48	N.A.	1.34%
90-120	2.13	N.A.	0.13%
90-130	2.88	N.A.	0.18%
90-150	4.61	N.A.	0.29%
90-180	6.86	N.A.	0.43%
0-22.98	1278.46	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	387.60
10-20	754.81
20-30	324.69
30-40	56.65
40-50	27.16
50-60	18.75
60-70	12.54
70-80	6.73
80-90	2.20
90-100	0.69
100-110	0.73
110-120	0.71
120-130	0.74
130-140	0.75
140-150	0.98
150-160	1.10
160-170	0.90
170-180	0.25

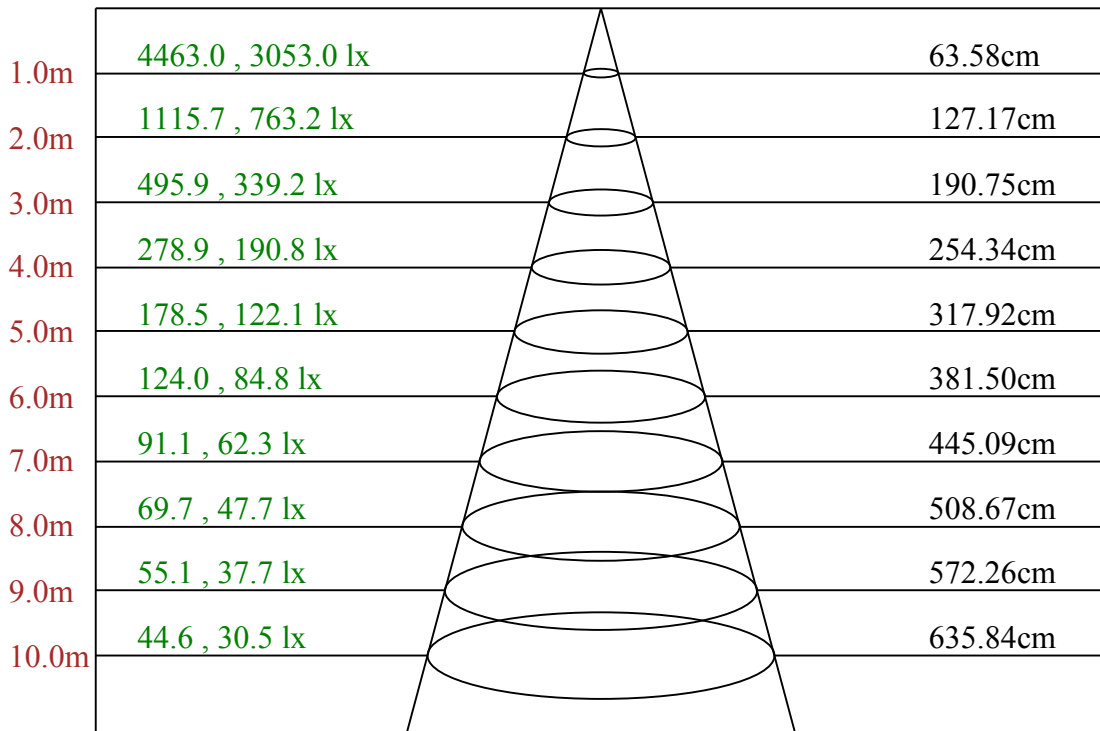


C0/C180: —

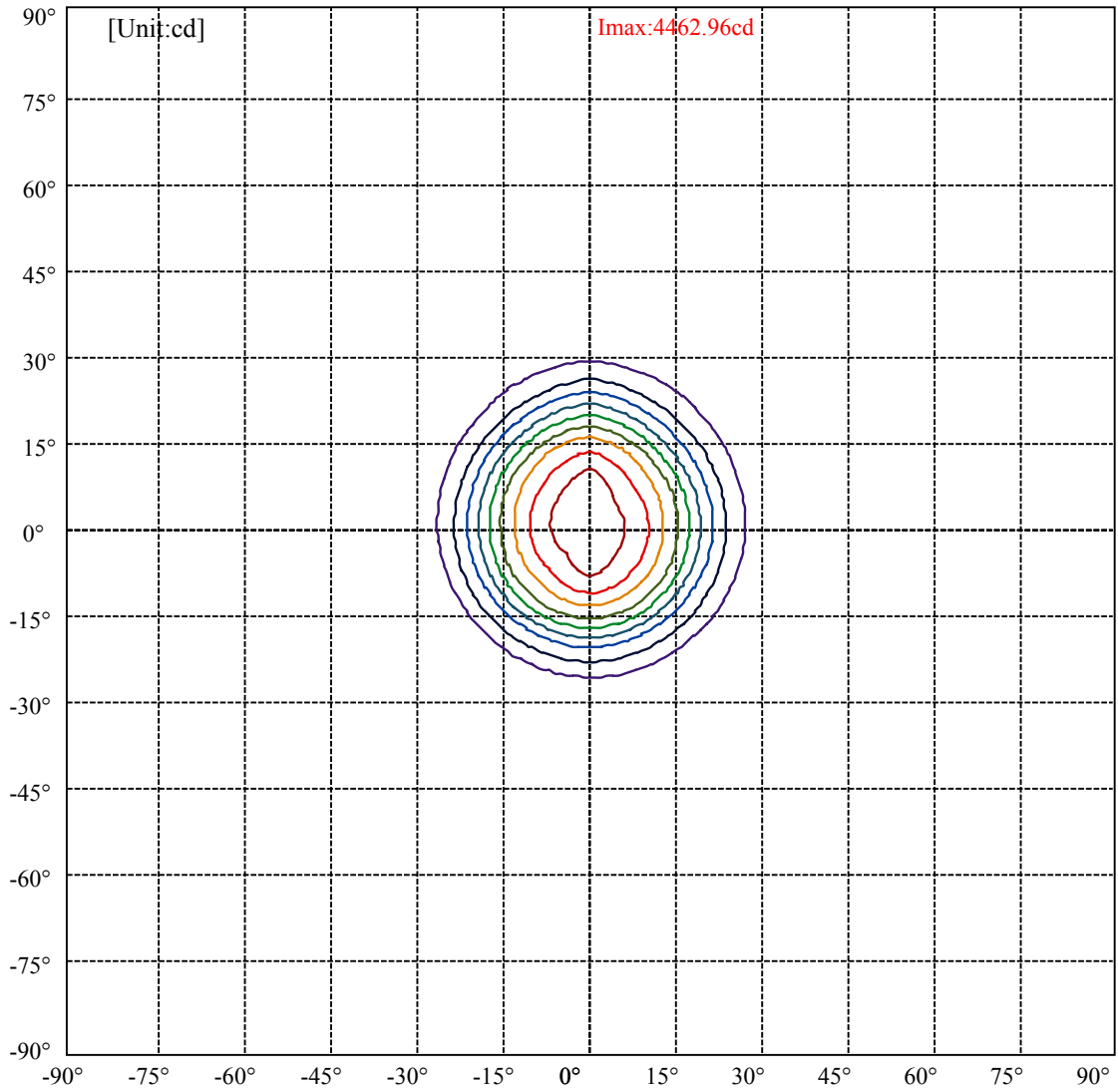
C90/C270: —

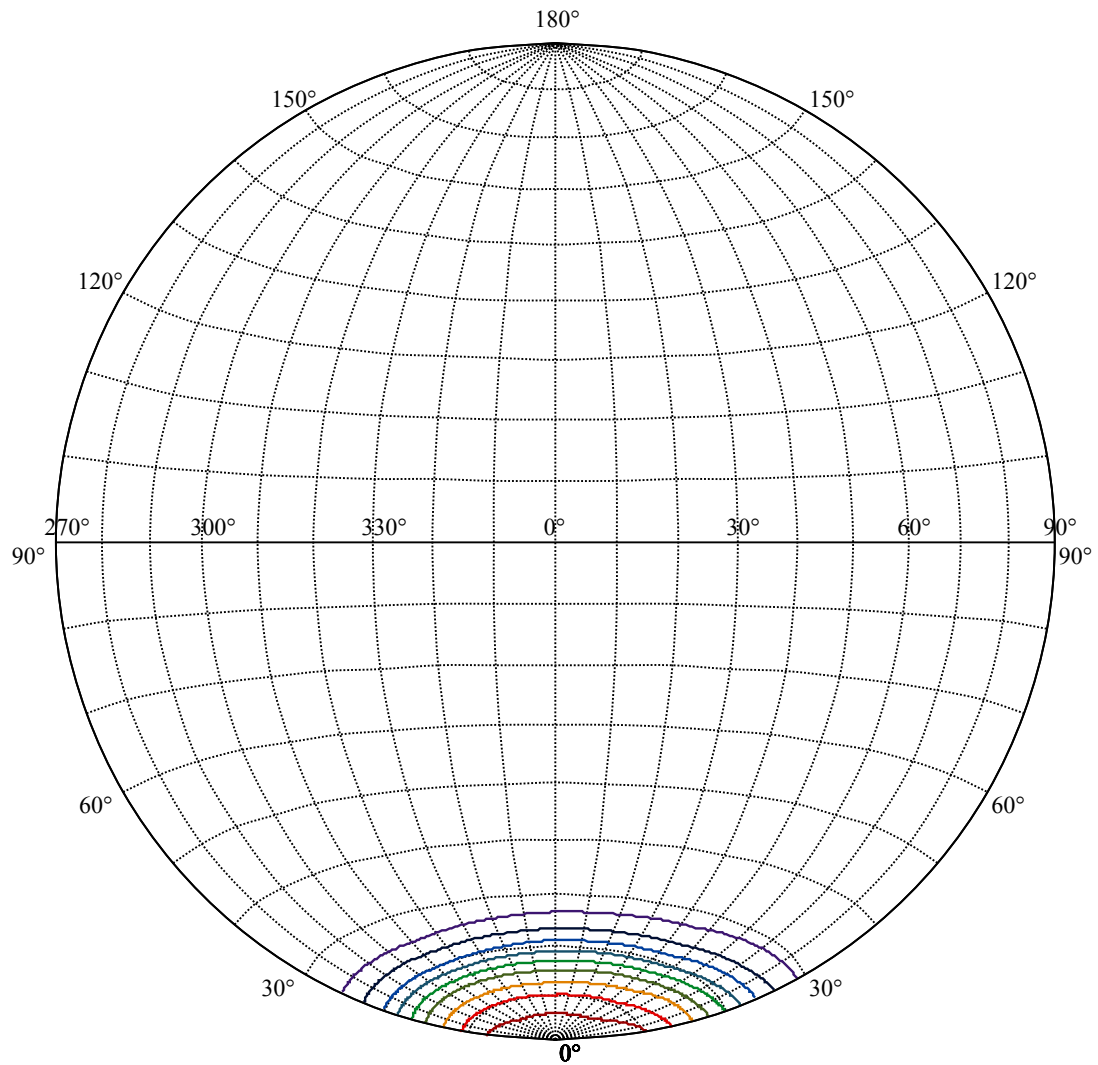
Field angle(10%Imax):C0/180Left:26.2 Right:26.7
:C90/270Left:25.3 Right:29.0

Beam Angle(50%Imax):C0/180Left:17.1 Right:17.1
:C90/270Left:16.8 Right:19.9



Max , Ave Beam angle of C0 plane 35.27





House

[Unit:cd]

Road

Imax:4462.96

(10%Imax) 446.296	—
(20%Imax) 892.593	—
(30%Imax) 1338.89	—
(40%Imax) 1785.19	—
(50%Imax) 2231.48	—
(60%Imax) 2677.78	—
(70%Imax) 3124.07	—
(80%Imax) 3570.37	—
(90%Imax) 4016.67	—

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	4462.96	4128.33	3583.39	2692.98	1580.50	589.73	167.34	81.91	48.52
45.0	4462.96	4137.87	3671.93	2912.58	1627.36	635.35	198.03	86.88	52.46
90.0	4462.96	4419.88	4094.32	3358.20	2196.98	1044.06	295.90	105.55	64.28
135.0	4462.96	4312.05	3762.55	3022.27	1728.35	609.02	166.10	74.03	46.86
180.0	4462.96	4220.81	3609.10	2742.34	1552.09	545.77	123.17	65.73	43.34
225.0	4462.96	4090.18	3534.45	2702.94	1336.44	405.80	113.84	60.96	41.06
270.0	4462.96	4399.14	3741.81	2711.44	1360.07	468.43	122.76	74.65	40.44
315.0	4462.96	4130.40	3603.92	2694.02	1307.82	451.22	135.82	71.12	42.92
360.0	4462.96	4128.33	3583.39	2692.98	1580.50	589.73	167.34	81.91	48.52
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	34.21	25.71	20.74	16.38	12.23	8.92	6.01	3.94	1.87
45.0	35.87	26.34	21.36	17.00	12.86	9.33	6.64	4.36	2.07
90.0	37.95	28.20	22.40	17.63	13.89	10.37	7.26	4.56	2.07
135.0	35.25	26.75	21.15	17.00	13.06	9.54	6.64	4.15	2.07
180.0	32.76	24.88	20.53	16.17	12.23	8.71	6.01	3.32	1.45
225.0	31.52	24.47	19.91	15.76	12.23	8.71	5.81	3.53	1.87
270.0	31.52	25.09	20.11	15.97	12.03	8.71	5.60	3.73	1.45
315.0	32.56	25.30	20.11	15.76	11.82	8.92	6.01	3.32	1.66
360.0	34.21	25.71	20.74	16.38	12.23	8.92	6.01	3.94	1.87
C/ γ (°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	0.62	0.83	0.62	0.83	0.83	0.62	0.83	0.83	1.04
45.0	0.83	0.83	0.83	0.83	1.04	0.83	1.04	0.83	1.04
90.0	0.62	0.42	0.42	0.21	0.62	0.42	0.62	0.62	0.83
135.0	0.62	0.62	0.42	0.62	0.42	0.62	0.62	0.62	0.62
180.0	0.42	0.42	0.83	0.42	0.62	0.62	0.62	0.83	0.62
225.0	0.42	0.42	0.62	0.62	0.42	0.62	0.83	0.83	0.83
270.0	0.62	1.04	0.83	1.04	1.04	1.04	0.83	1.24	1.24
315.0	0.62	0.62	0.62	0.83	1.04	0.62	0.83	0.83	0.83
360.0	0.62	0.83	0.62	0.83	0.83	0.62	0.83	0.83	1.04
C/ γ (°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	1.04	1.04	1.45	2.07	2.49	2.90	3.32	3.53	3.73
45.0	1.04	1.45	1.66	1.87	2.49	2.70	3.11	3.73	3.53
90.0	0.62	1.04	1.45	1.87	2.28	2.70	3.11	3.11	3.32
135.0	0.62	1.04	1.24	1.87	2.28	2.49	3.11	3.32	3.53
180.0	0.62	1.24	1.45	1.66	2.49	2.70	3.11	3.53	3.32
225.0	1.04	1.24	1.45	2.07	2.07	2.90	3.32	3.32	3.53
270.0	1.24	1.45	1.87	2.49	2.90	3.11	3.73	3.73	3.94
315.0	1.04	1.24	1.66	2.07	2.28	2.70	3.32	3.32	3.32
360.0	1.04	1.04	1.45	2.07	2.49	2.90	3.32	3.53	3.73
C/ γ (°)	180.0								
0.0	3.78								
45.0	3.78								
90.0	3.78								
135.0	3.78								
180.0	3.78								
225.0	3.78								
270.0	3.78								
315.0	3.78								
360.0	3.78								