



Shenzhen Belling Efficiency Testing Laboratory Co.,Ltd.
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Client:

LumCAT: LR3G-HO-5CCT-3500K

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.14

LampCAT:

Current(A): 0.0890

Lamp flux(lm): -1.0

Power (W): 10.46

Number of Lamps: 0

PF: 0.9739

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1023.10, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 97.77

Central intensity(cd): 1660.171, Maximum intensity(cd): 1665.464

Angle of maximum intensity: C=45.0 $\gamma=0.0$

Beam Angle(50%Imax): [C0/180]Total=44.8

[C90/270]Total=44.0

Field angle(10%Imax): [C0/180]Total=72.6

[C90/270]Total=72.6

Maximum s/h(1/2): C0_180=0.72 C90_270=0.75

Maximum s/h(1/4): C0_180=0.71 C90_270=0.72

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 0.00%

Up flux rate of LUM(%): 0.07%

Down flux rate of LUM(%): 99.93%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 97.525%

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

Date:
Humidity(%): 59%

Operator: Tester

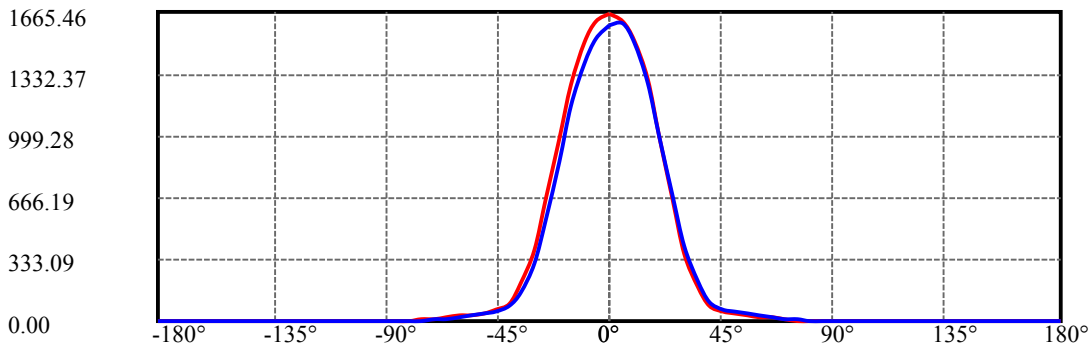
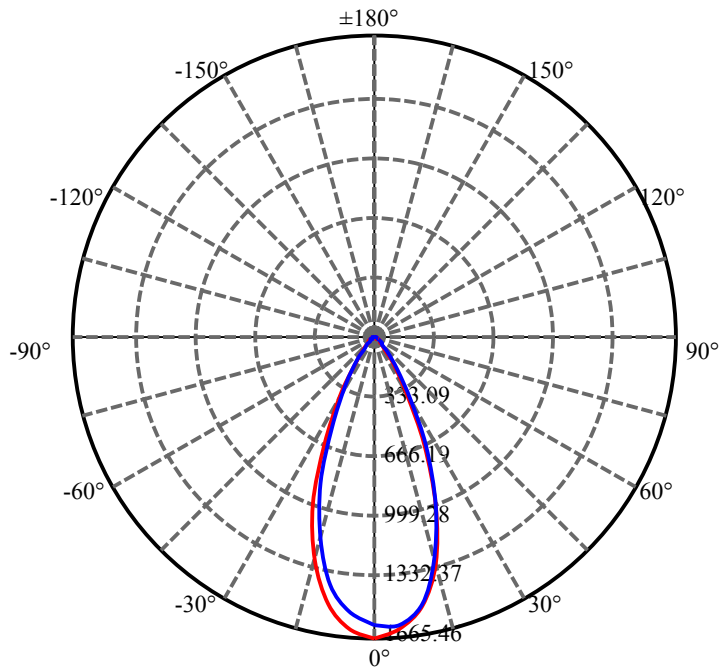
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1637.360	0.000	0	0.00%	0.00%
5.0	1598.036	38.678	38.678	0.00%	3.78%
10.0	1478.663	110.063	148.741	0.00%	14.54%
15.0	1266.034	162.814	311.555	0.00%	30.45%
20.0	965.761	183.931	495.486	0.00%	48.43%
25.0	635.134	167.904	663.39	0.00%	64.84%
30.0	364.764	126.538	789.928	0.00%	77.21%
35.0	186.695	81.206	871.135	0.00%	85.15%
40.0	91.853	46.474	917.608	0.00%	89.69%
45.0	58.033	27.753	945.361	0.00%	92.40%
50.0	44.802	20.779	966.14	0.00%	94.43%
55.0	35.169	17.388	983.528	0.00%	96.13%
60.0	26.489	14.252	997.78	0.00%	97.52%
65.0	17.201	10.621	1008.401	0.00%	98.56%
70.0	10.400	6.989	1015.39	0.00%	99.25%
75.0	5.054	4.040	1019.43	0.00%	99.64%
80.0	2.302	1.968	1021.398	0.00%	99.83%
85.0	0.582	0.784	1022.182	0.00%	99.91%
90.0	0.000	0.159	1022.341	0.00%	99.93%
95.0	0.000	0.000	1022.341	0.00%	99.93%
100.0	0.000	0.000	1022.341	0.00%	99.93%
105.0	0.000	0.000	1022.341	0.00%	99.93%
110.0	0.000	0.000	1022.341	0.00%	99.93%
115.0	0.000	0.000	1022.341	0.00%	99.93%
120.0	0.000	0.000	1022.341	0.00%	99.93%
125.0	0.000	0.000	1022.341	0.00%	99.93%
130.0	0.027	0.006	1022.347	0.00%	99.93%
135.0	0.053	0.016	1022.363	0.00%	99.93%
140.0	0.027	0.015	1022.378	0.00%	99.93%
145.0	0.185	0.035	1022.413	0.00%	99.93%
150.0	0.291	0.070	1022.483	0.00%	99.94%
155.0	0.556	0.107	1022.59	0.00%	99.95%
160.0	0.821	0.144	1022.735	0.00%	99.96%
165.0	0.979	0.148	1022.883	0.00%	99.98%
170.0	1.033	0.119	1023.002	0.00%	99.99%
175.0	1.085	0.076	1023.078	0.00%	100.00%
180.0	1.112	0.026	1023.104	0.00%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	789.93	N.A.	77.21%
0-40	917.61	N.A.	89.69%
0-60	997.78	N.A.	97.52%
0-90	1022.34	N.A.	99.93%
0-120	1022.34	N.A.	99.93%
0-180	1023.10	N.A.	100.00%
60-90	24.56	N.A.	2.40%
90-120	0.00	N.A.	0.00%
90-130	0.01	N.A.	0.00%
90-150	0.14	N.A.	0.01%
90-180	0.74	N.A.	0.07%
0-31.76	818.48	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	148.74
10-20	346.74
20-30	294.44
30-40	127.68
40-50	48.53
50-60	31.64
60-70	17.61
70-80	6.01
80-90	0.94
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.01
130-140	0.03
140-150	0.11
150-160	0.25
160-170	0.27
170-180	0.08

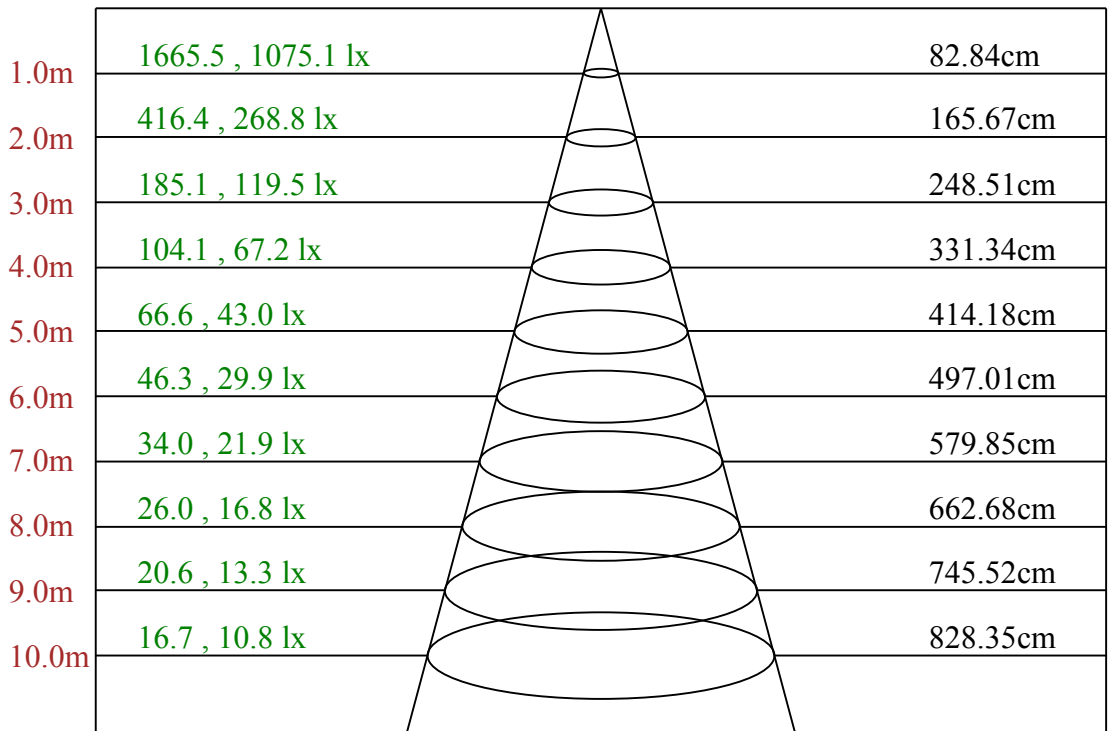


C0/C180: —

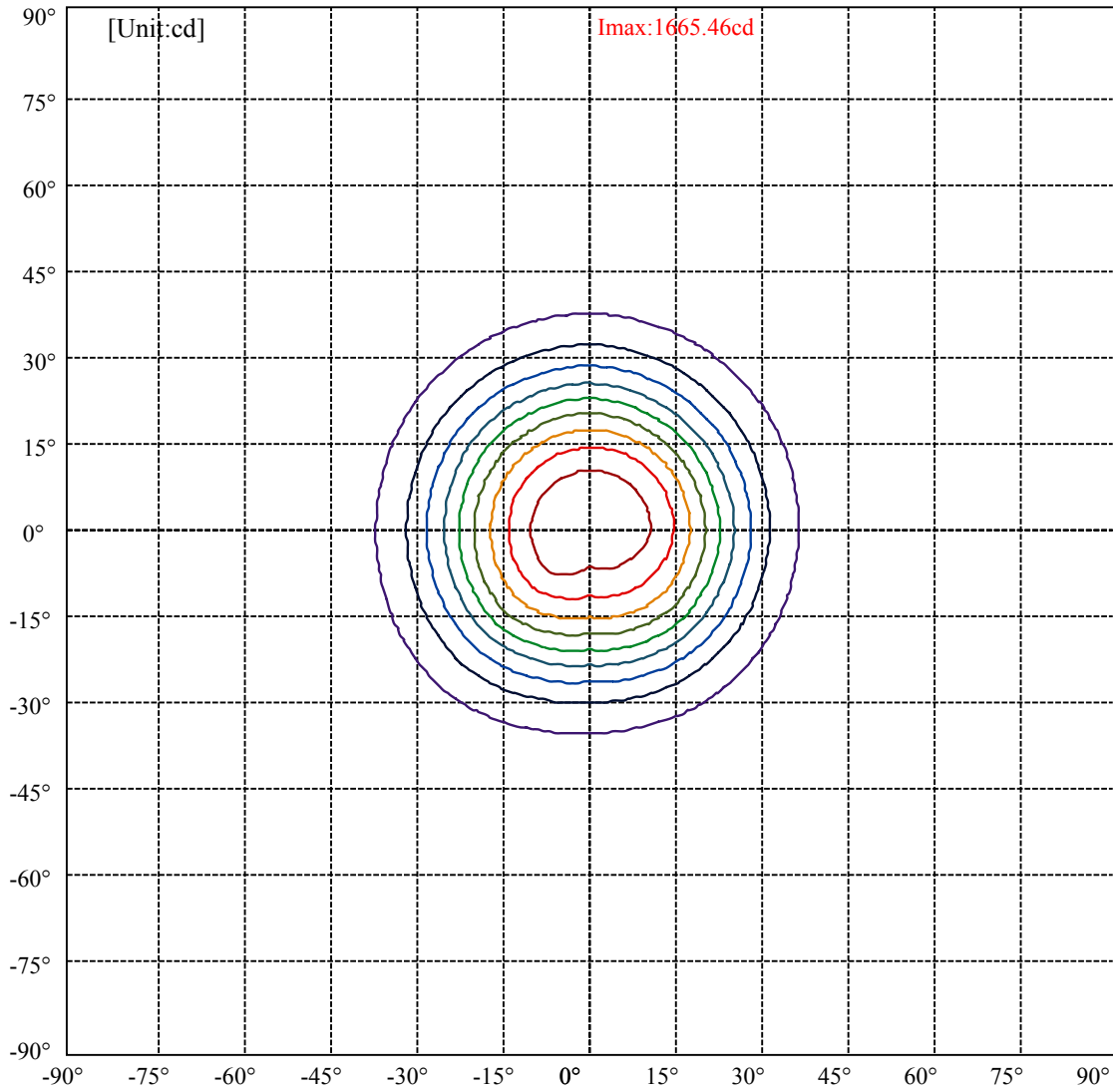
C90/C270: —

Field angle(10%I_{max}):C0/180Left:36.7 Right:35.9
 :C90/270Left:35.0 Right:37.6

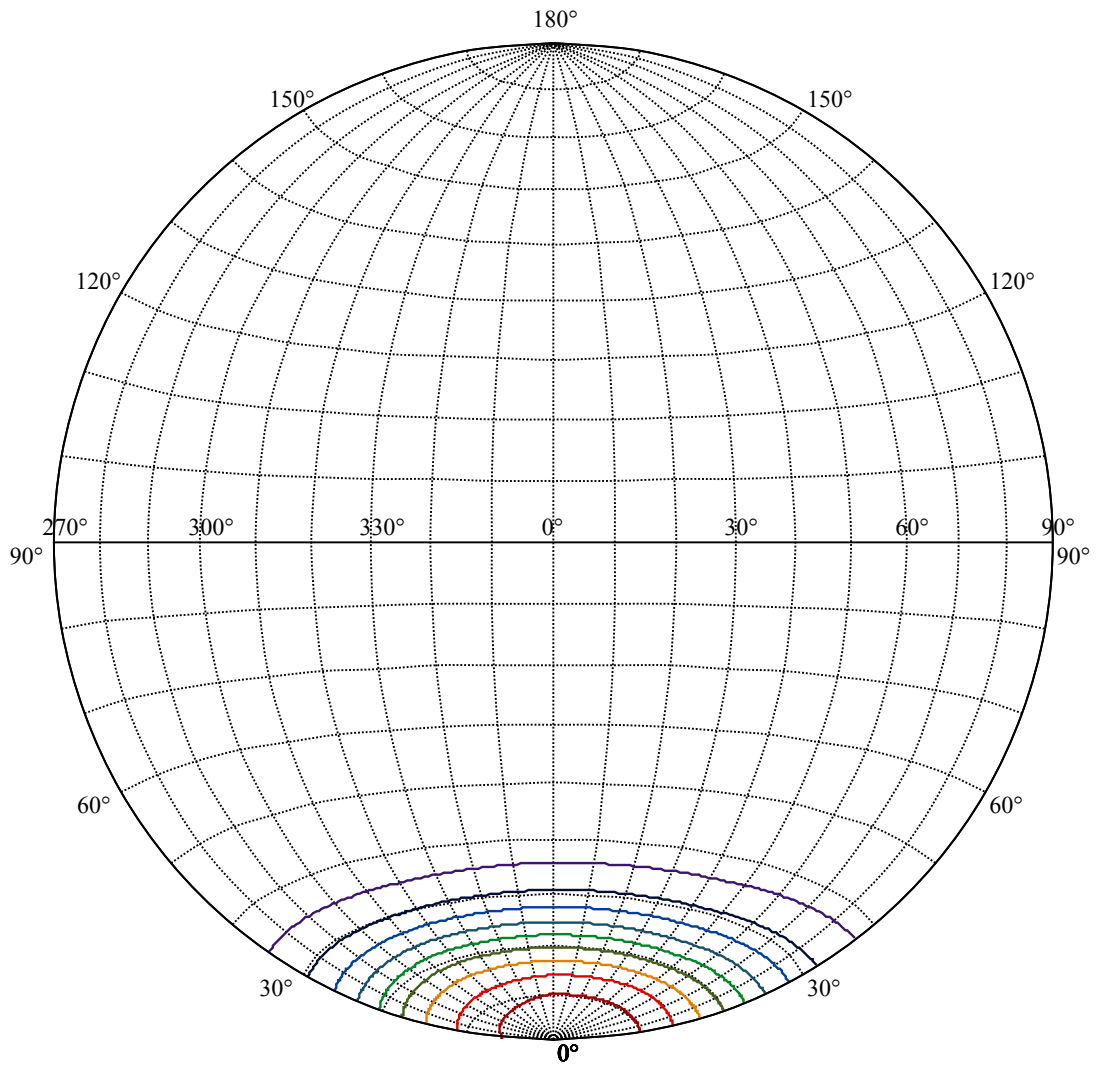
Beam Angle(50%I_{max}):C0/180Left:22.4 Right:22.4
 :C90/270Left:21.0 Right:23.0



Max , Ave Beam angle of C45 plane 45.00



(10%Imax) 165.385	—
(20%Imax) 330.769	—
(30%Imax) 496.154	—
(40%Imax) 661.539	—
(50%Imax) 826.924	—
(60%Imax) 992.308	—
(70%Imax) 1157.69	—
(80%Imax) 1323.08	—
(90%Imax) 1488.46	—



House

[Unit:cd]

Road

Imax:1665.46

(10%Imax) 166.546	—
(20%Imax) 333.093	—
(30%Imax) 499.639	—
(40%Imax) 666.186	—
(50%Imax) 832.732	—
(60%Imax) 999.278	—
(70%Imax) 1165.82	—
(80%Imax) 1332.37	—
(90%Imax) 1498.92	—

LR3G-HO-5CCT-3500K

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	1660.17	1617.41	1507.75	1300.91	989.07	653.53	366.03	184.61	86.59
45.0	1665.46	1624.39	1513.04	1304.09	970.23	624.73	357.57	182.91	87.01
90.0	1596.03	1601.11	1499.70	1285.25	997.12	672.58	403.29	214.03	108.39
135.0	1627.78	1607.88	1496.31	1283.98	977.22	661.99	385.30	193.92	95.69
180.0	1660.17	1618.47	1494.83	1276.35	985.05	659.67	385.30	201.96	97.60
225.0	1665.46	1623.55	1492.50	1276.57	999.02	652.68	380.43	193.92	99.08
270.0	1596.03	1521.72	1384.53	1154.41	860.36	547.04	308.24	159.62	80.66
315.0	1627.78	1569.77	1440.64	1246.72	948.00	608.86	331.95	162.59	79.81
360.0	1660.17	1617.41	1507.75	1300.91	989.07	653.53	366.03	184.61	86.59
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	56.74	44.88	34.72	25.40	16.30	9.53	4.66	1.91	0.42
45.0	56.53	45.09	35.35	26.25	16.30	9.53	4.87	2.12	0.21
90.0	62.66	48.69	38.11	29.64	19.05	11.86	5.29	2.33	0.85
135.0	60.12	47.00	37.26	28.37	18.84	11.86	5.50	2.33	0.42
180.0	59.28	44.67	35.57	26.89	18.21	10.80	5.29	2.54	0.21
225.0	59.28	44.03	34.30	27.10	18.42	11.22	5.72	3.18	1.27
270.0	54.41	41.28	32.18	23.50	14.61	8.89	4.45	2.12	0.85
315.0	55.25	42.76	33.87	24.77	15.88	9.53	4.66	1.91	0.42
360.0	56.74	44.88	34.72	25.40	16.30	9.53	4.66	1.91	0.42
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00
45.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
225.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
270.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21
315.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
360.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	0.00	0.00	0.42	0.42	0.85	0.85	0.85	1.06	1.06
45.0	0.00	0.00	0.21	0.21	0.64	0.85	1.27	1.06	1.27
90.0	0.00	0.00	0.00	0.21	0.42	0.64	0.85	1.06	1.06
135.0	0.00	0.00	0.00	0.21	0.21	0.64	1.06	1.06	0.85
180.0	0.00	0.00	0.00	0.21	0.42	0.64	0.85	1.06	1.06
225.0	0.00	0.00	0.00	0.21	0.42	0.85	0.85	0.85	0.85
270.0	0.42	0.21	0.42	0.42	0.85	1.06	1.27	1.06	1.48
315.0	0.00	0.00	0.42	0.42	0.64	1.06	0.85	1.06	1.06
360.0	0.00	0.00	0.42	0.42	0.85	0.85	0.85	1.06	1.06
C/γ(°)	180.0								
0.0	1.27								
45.0	0.85								
90.0	1.27								
135.0	1.06								
180.0	1.27								
225.0	0.85								
270.0	1.27								
315.0	1.06								
360.0	1.27								