



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

LumCAT:LD4S-HO-5CCT-3500K

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.03

LampCAT:

Current(A): 0.1530

Lamp flux(lm): -1.0

Power (W): 18.10

Number of Lamps: 0

PF: 0.9856

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1667.38, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 92.12

Central intensity(cd): 4437.919, Maximum intensity(cd): 4461.207

Angle of maximum intensity: C=45.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=35.8

[C90/270]Total=35.7

Field angle(10%Imax): [C0/180]Total=52.3

[C90/270]Total=52.2

Maximum s/h(1/2): C0_180=0.65 C90_270=0.66

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

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 0.00%

Up flux rate of LUM(%): 0.14%

Down flux rate of LUM(%): 99.86%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 97.913%

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

Date:
Humidity(%): 59%

Operator: Tester

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	4425.747	0.000	0	0.00%	0.00%
5.0	4217.855	103.332	103.332	0.00%	6.20%
10.0	3689.922	282.886	386.218	0.00%	23.16%
15.0	2904.452	391.174	777.392	0.00%	46.62%
20.0	1704.470	379.840	1157.232	0.00%	69.40%
25.0	703.461	252.547	1409.779	0.00%	84.55%
30.0	149.224	107.908	1517.687	0.00%	91.02%
35.0	77.298	33.357	1551.044	0.00%	93.02%
40.0	53.164	21.767	1572.81	0.00%	94.33%
45.0	41.758	17.576	1590.386	0.00%	95.38%
50.0	35.169	15.544	1605.93	0.00%	96.31%
55.0	29.850	14.137	1620.067	0.00%	97.16%
60.0	24.293	12.515	1632.582	0.00%	97.91%
65.0	19.186	10.570	1643.152	0.00%	98.55%
70.0	14.263	8.470	1651.621	0.00%	99.05%
75.0	9.897	6.315	1657.937	0.00%	99.43%
80.0	5.901	4.227	1662.164	0.00%	99.69%
85.0	2.355	2.243	1664.407	0.00%	99.82%
90.0	0.106	0.674	1665.081	0.00%	99.86%
95.0	0.027	0.036	1665.117	0.00%	99.86%
100.0	0.053	0.022	1665.139	0.00%	99.87%
105.0	0.027	0.021	1665.16	0.00%	99.87%
110.0	0.053	0.021	1665.181	0.00%	99.87%
115.0	0.053	0.027	1665.208	0.00%	99.87%
120.0	0.132	0.045	1665.253	0.00%	99.87%
125.0	0.079	0.049	1665.302	0.00%	99.88%
130.0	0.106	0.040	1665.342	0.00%	99.88%
135.0	0.159	0.053	1665.396	0.00%	99.88%
140.0	0.265	0.078	1665.474	0.00%	99.89%
145.0	0.661	0.154	1665.628	0.00%	99.90%
150.0	1.006	0.245	1665.874	0.00%	99.91%
155.0	1.429	0.308	1666.182	0.00%	99.93%
160.0	1.773	0.336	1666.518	0.00%	99.95%
165.0	2.276	0.334	1666.852	0.00%	99.97%
170.0	2.514	0.284	1667.136	0.00%	99.99%
175.0	2.514	0.180	1667.316	0.00%	100.00%
180.0	2.752	0.063	1667.379	0.00%	100.00%

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

Date:
Humidity(%): 59%

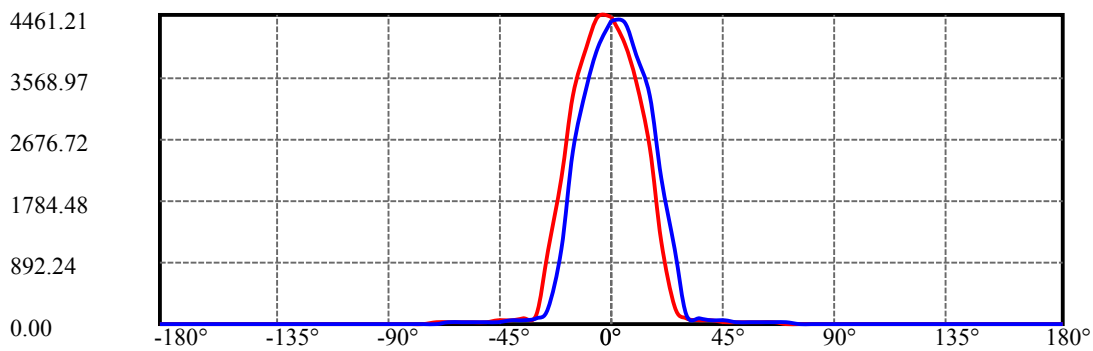
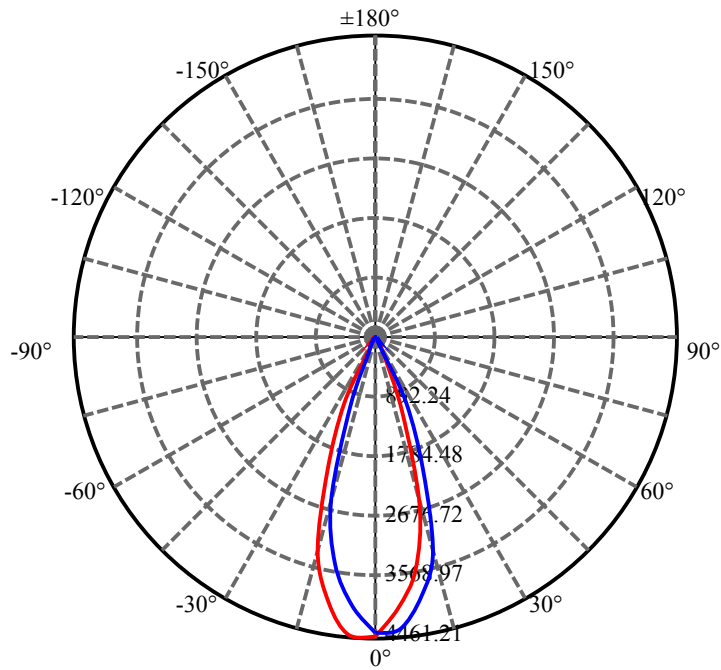
Operator: Tester

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1517.69	N.A.	91.02%
0-40	1572.81	N.A.	94.33%
0-60	1632.58	N.A.	97.91%
0-90	1665.08	N.A.	99.86%
0-120	1665.25	N.A.	99.87%
0-180	1667.38	N.A.	100.00%
60-90	32.50	N.A.	1.95%
90-120	0.17	N.A.	0.01%
90-130	0.26	N.A.	0.02%
90-150	0.79	N.A.	0.05%
90-180	2.23	N.A.	0.13%
0-23.50	1333.90	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	386.22
10-20	771.01
20-30	360.46
30-40	55.12
40-50	33.12
50-60	26.65
60-70	19.04
70-80	10.54
80-90	2.92
90-100	0.06
100-110	0.04
110-120	0.07
120-130	0.09
130-140	0.13
140-150	0.40
150-160	0.64
160-170	0.62
170-180	0.18



C0/C180: —

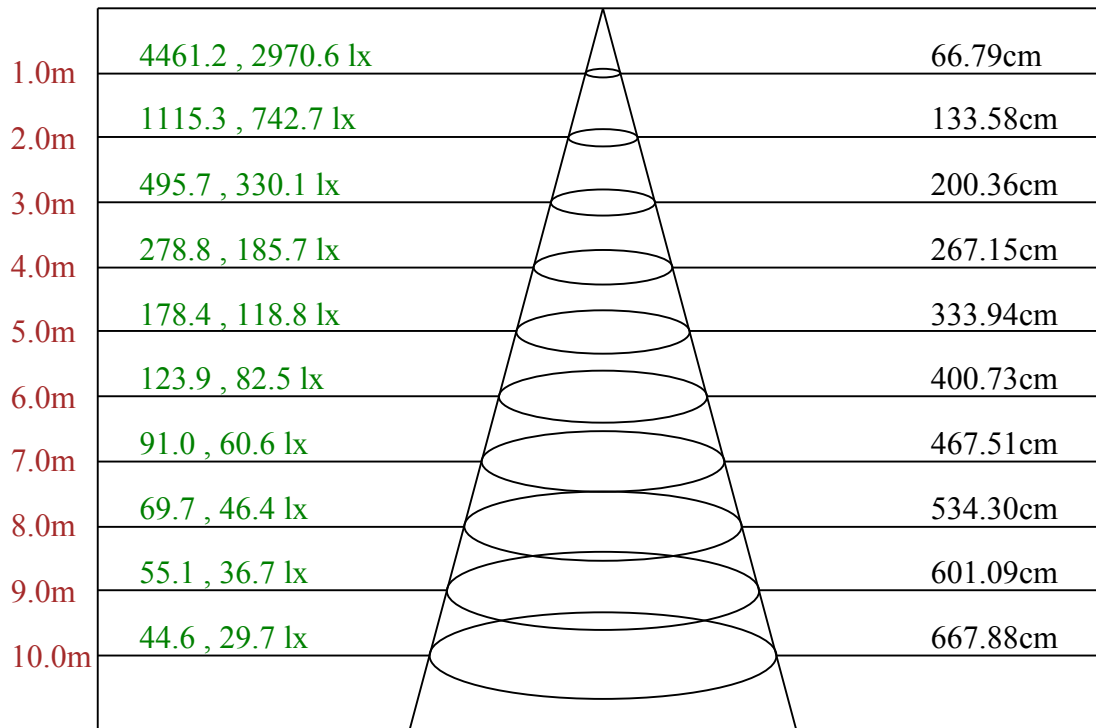
C90/C270: —

Field angle(10%Imax):C0/180Left:28.3 Right:24.0

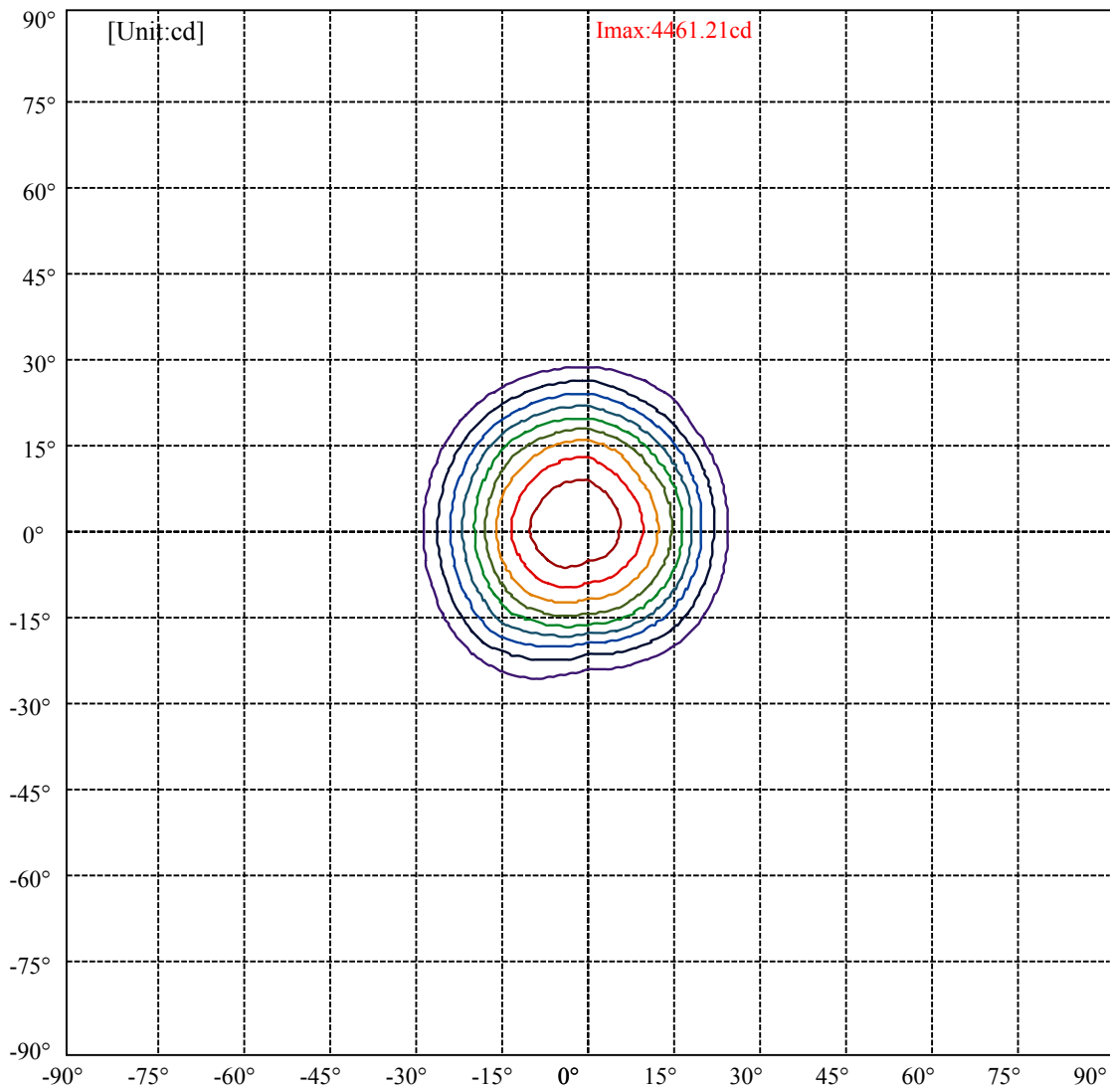
:C90/270Left:23.8 Right:28.4

Beam Angle(50%Imax):C0/180Left:19.6 Right:16.2

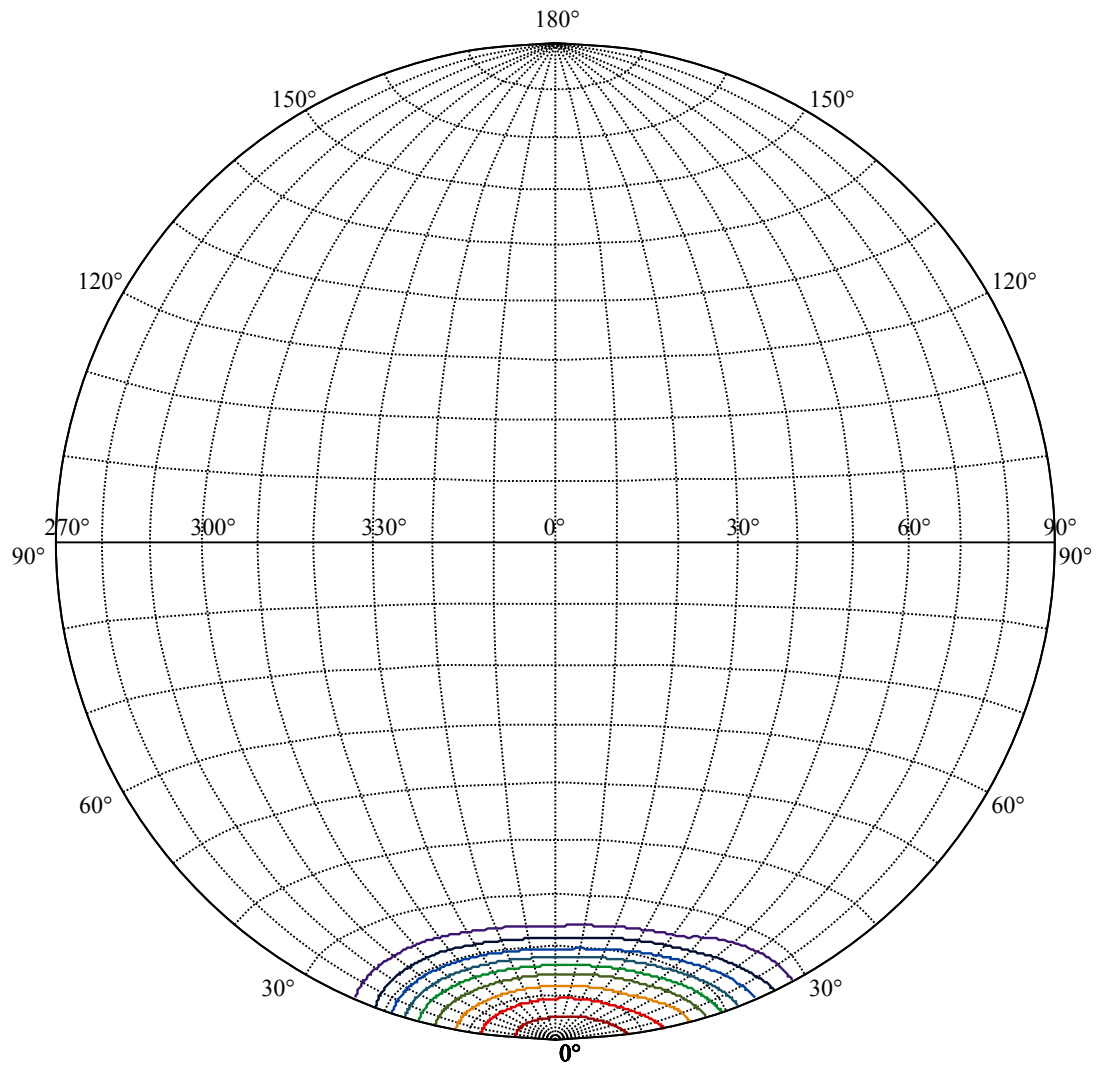
:C90/270Left:16.1 Right:19.6



Max , Ave Beam angle of C45 plane 36.93



(10%I _{max}) 443.707	—
(20%I _{max}) 887.414	—
(30%I _{max}) 1331.12	—
(40%I _{max}) 1774.83	—
(50%I _{max}) 2218.54	—
(60%I _{max}) 2662.24	—
(70%I _{max}) 3105.95	—
(80%I _{max}) 3549.66	—
(90%I _{max}) 3993.36	—



House

[Unit:cd]

Road

Imax:4461.21

(10%Imax) 446.121	—
(20%Imax) 892.241	—
(30%Imax) 1338.36	—
(40%Imax) 1784.48	—
(50%Imax) 2230.6	—
(60%Imax) 2676.72	—
(70%Imax) 3122.84	—
(80%Imax) 3568.97	—
(90%Imax) 4015.09	—

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	4437.92	4035.69	3485.47	2546.15	1179.18	260.39	92.30	56.53	46.15
45.0	4461.21	4182.61	3557.45	2733.93	1546.91	459.39	154.12	81.72	49.54
90.0	4382.88	4342.65	3883.26	3292.61	2107.08	1076.08	138.88	78.54	53.35
135.0	4420.98	4435.80	3961.59	3309.55	2295.49	1129.01	234.78	96.75	65.42
180.0	4437.92	4433.69	4003.93	3296.84	2115.54	1054.91	139.94	75.79	51.87
225.0	4461.21	4315.13	3821.87	3097.84	2054.15	1063.38	207.47	89.34	62.66
270.0	4382.88	3983.18	3409.26	2489.83	1091.96	226.95	94.63	58.85	47.85
315.0	4420.98	4014.09	3396.56	2468.87	1245.45	357.57	131.68	80.87	48.48
360.0	4437.92	4035.69	3485.47	2546.15	1179.18	260.39	92.30	56.53	46.15
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	40.44	33.87	27.73	22.23	17.15	12.28	8.05	4.45	1.27
45.0	40.22	32.39	27.52	22.23	17.36	12.70	8.68	4.87	1.48
90.0	42.13	36.84	31.54	25.62	20.54	15.45	11.01	6.56	2.75
135.0	43.61	36.41	30.70	25.62	20.75	15.88	11.43	7.20	3.60
180.0	42.55	37.05	32.39	26.89	21.38	16.09	11.64	7.62	3.60
225.0	43.82	35.99	30.49	25.40	20.54	15.67	11.22	6.99	3.18
270.0	41.07	35.57	29.85	23.92	18.42	13.55	8.89	4.87	1.69
315.0	40.22	33.24	28.58	22.44	17.36	12.49	8.26	4.66	1.27
360.0	40.44	33.87	27.73	22.23	17.15	12.28	8.05	4.45	1.27
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	0.21
45.0	0.00	0.00	0.00	0.00	0.21	0.00	0.21	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	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.42	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	0.21	0.21	0.42	0.21	0.21	0.42	0.64	0.42	0.42
315.0	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.21	0.21
360.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21
C/ γ (°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	0.42	0.42	0.85	1.27	1.48	1.91	2.33	2.75	2.54
45.0	0.21	0.64	0.64	1.27	1.27	1.69	2.12	2.33	2.33
90.0	0.00	0.00	0.42	0.85	1.48	1.48	2.12	2.54	2.75
135.0	0.00	0.00	0.42	0.64	1.06	1.69	1.91	2.12	2.54
180.0	0.00	0.00	0.42	0.64	1.06	1.48	2.12	2.12	2.33
225.0	0.00	0.00	0.42	0.64	1.27	1.69	2.12	2.33	2.33
270.0	0.42	0.64	1.27	1.69	2.33	2.33	2.96	3.18	2.96
315.0	0.21	0.42	0.85	1.06	1.48	1.91	2.54	2.75	2.33
360.0	0.42	0.42	0.85	1.27	1.48	1.91	2.33	2.75	2.54
C/ γ (°)	180.0								
0.0	2.54								
45.0	2.54								
90.0	3.39								
135.0	2.54								
180.0	2.54								
225.0	2.54								
270.0	3.39								
315.0	2.54								
360.0	2.54								