



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

LumCAT: LE8R-5CCT-3500K

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 120.14

LampCAT:

Current(A): 0.1510

Lamp flux(lm): -1.0

Power (W): 16.55

Number of Lamps: 1

PF: 0.9093

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1512.86, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 91.41

Central intensity(cd): 521.259, Maximum intensity(cd): 521.259

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=113.3

[C90/270]Total=113.3

Field angle(10%Imax): [C0/180]Total=162.8

[C90/270]Total=163.0

Maximum s/h(1/2): C0_180=1.27 C90_270=1.27

Maximum s/h(1/4): C0_180=1.39 C90_270=1.38

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 0.00%

Up flux rate of LUM(%): 0.30%

Down flux rate of LUM(%): 99.70%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 78.044%

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

Date:
Humidity(%): 58%

Operator: Sam

LE8R-5CCT-3500K

Zonal flux distribution table

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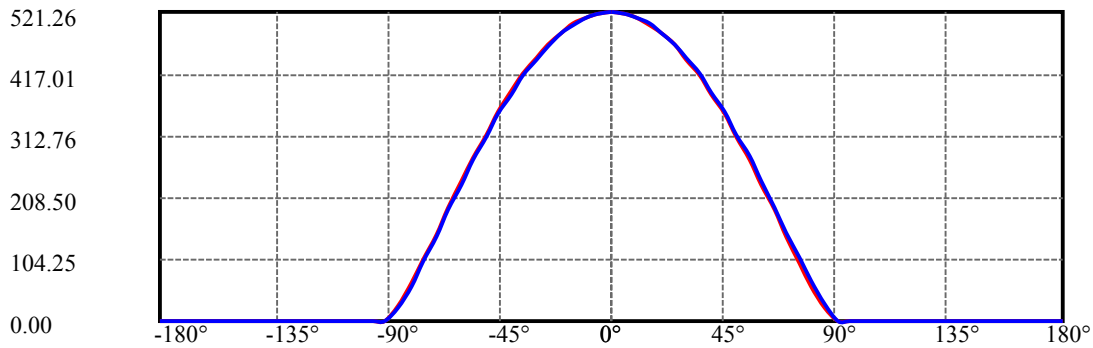
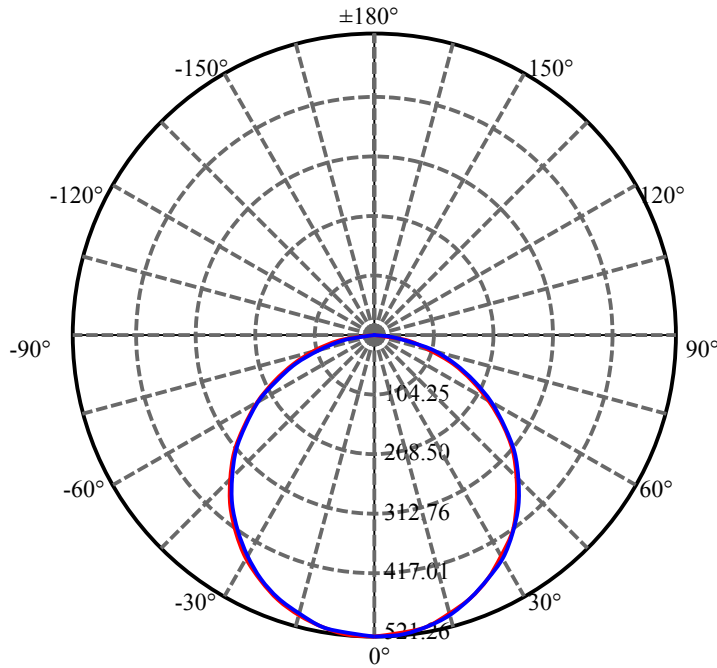
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	521.259	0.000	0	0.00%	0.00%
5.0	518.565	12.431	12.431	0.00%	0.82%
10.0	512.056	36.869	49.299	0.00%	3.26%
15.0	500.888	60.087	109.386	0.00%	7.23%
20.0	485.540	81.296	190.682	0.00%	12.60%
25.0	465.878	99.786	290.468	0.00%	19.20%
30.0	442.538	114.961	405.429	0.00%	26.80%
35.0	415.228	126.312	531.741	0.00%	35.15%
40.0	384.743	133.469	665.21	0.00%	43.97%
45.0	350.712	136.175	801.385	0.00%	52.97%
50.0	313.584	134.231	935.616	0.00%	61.84%
55.0	274.525	127.875	1063.491	0.00%	70.30%
60.0	232.555	117.210	1180.701	0.00%	78.04%
65.0	189.342	102.564	1283.265	0.00%	84.82%
70.0	145.810	84.863	1368.127	0.00%	90.43%
75.0	102.464	64.895	1433.022	0.00%	94.72%
80.0	62.346	44.099	1477.121	0.00%	97.64%
85.0	25.828	23.959	1501.08	0.00%	99.22%
90.0	0.397	7.180	1508.26	0.00%	99.70%
95.0	0.397	0.217	1508.478	0.00%	99.71%
100.0	0.344	0.201	1508.679	0.00%	99.72%
105.0	0.503	0.227	1508.905	0.00%	99.74%
110.0	0.556	0.277	1509.182	0.00%	99.76%
115.0	0.556	0.281	1509.463	0.00%	99.78%
120.0	0.715	0.309	1509.772	0.00%	99.80%
125.0	0.794	0.349	1510.121	0.00%	99.82%
130.0	0.873	0.363	1510.483	0.00%	99.84%
135.0	0.953	0.369	1510.852	0.00%	99.87%
140.0	1.006	0.363	1511.215	0.00%	99.89%
145.0	1.006	0.336	1511.551	0.00%	99.91%
150.0	1.138	0.316	1511.866	0.00%	99.93%
155.0	1.244	0.301	1512.168	0.00%	99.95%
160.0	1.165	0.253	1512.42	0.00%	99.97%
165.0	1.085	0.185	1512.606	0.00%	99.98%
170.0	1.191	0.135	1512.741	0.00%	99.99%
175.0	1.191	0.085	1512.826	0.00%	100.00%
180.0	1.270	0.029	1512.855	0.00%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	405.43	N.A.	26.80%
0-40	665.21	N.A.	43.97%
0-60	1180.70	N.A.	78.04%
0-90	1508.26	N.A.	99.70%
0-120	1509.77	N.A.	99.80%
0-180	1512.86	N.A.	100.00%
60-90	327.56	N.A.	21.65%
90-120	1.51	N.A.	0.10%
90-130	2.22	N.A.	0.15%
90-150	3.61	N.A.	0.24%
90-180	4.57	N.A.	0.30%
0-61.44	1210.28	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	49.30
10-20	141.38
20-30	214.75
30-40	259.78
40-50	270.41
50-60	245.08
60-70	187.43
70-80	108.99
80-90	31.14
90-100	0.42
100-110	0.50
110-120	0.59
120-130	0.71
130-140	0.73
140-150	0.65
150-160	0.55
160-170	0.32
170-180	0.09

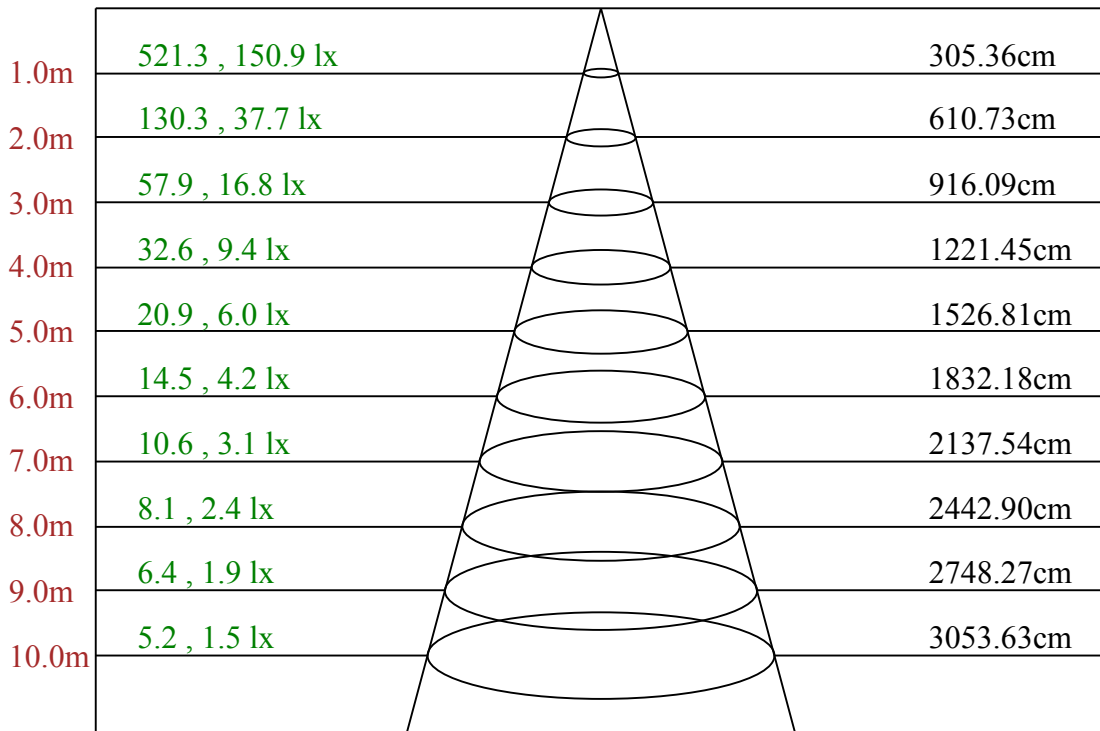


C0/C180: —

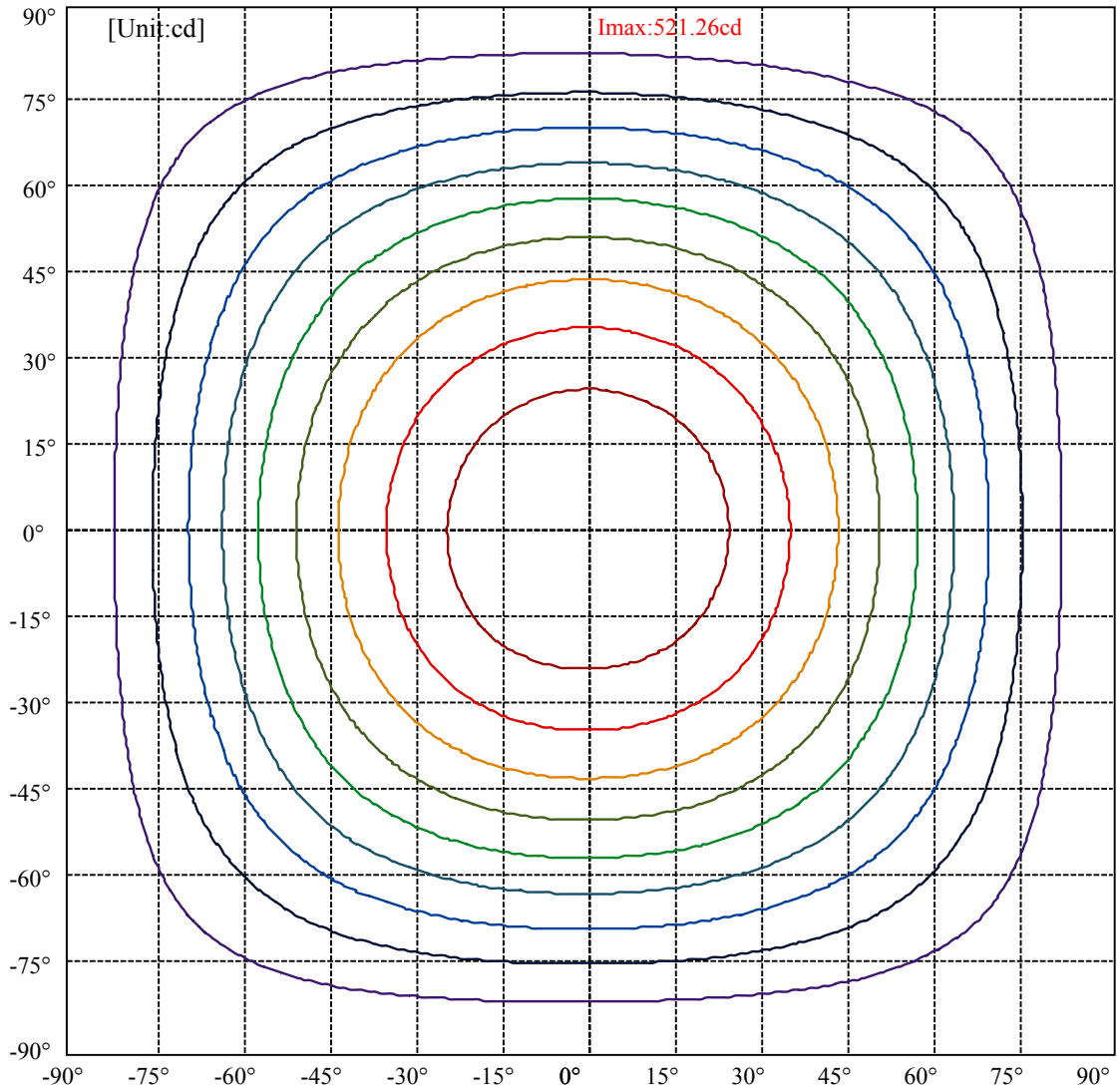
C90/C270: —

Field angle(10%Imax):C0/180Left:81.7 Right:81.1
:C90/270Left:81.0 Right:82.0

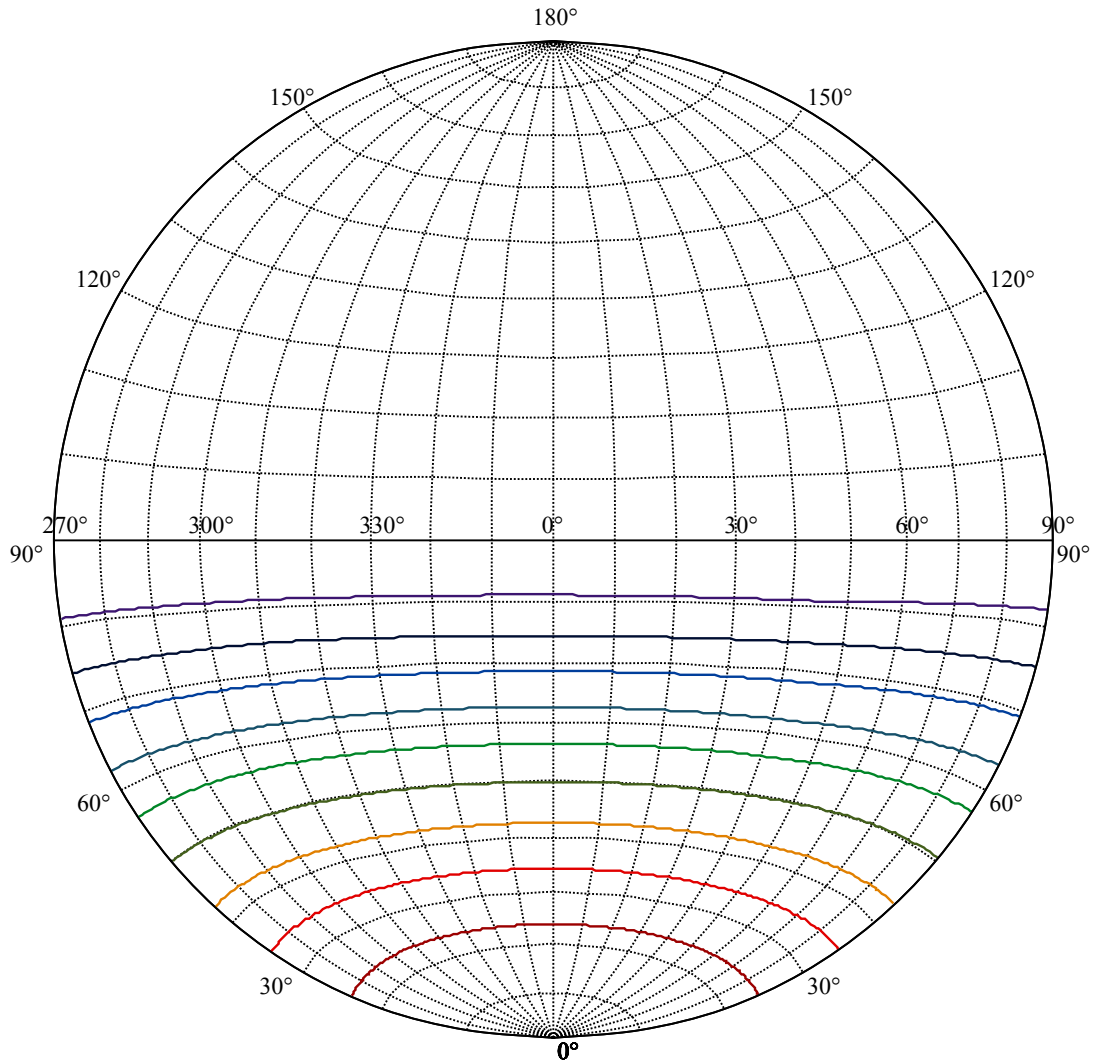
Beam Angle(50%Imax):C0/180Left:56.9 Right:56.4
:C90/270Left:56.3 Right:57.0



Max , Ave Beam angle of C0 plane 113.55



(10%Imax) 52.1259	—
(20%Imax) 104.252	—
(30%Imax) 156.378	—
(40%Imax) 208.504	—
(50%Imax) 260.629	—
(60%Imax) 312.755	—
(70%Imax) 364.881	—
(80%Imax) 417.007	—
(90%Imax) 469.133	—



House

[Unit:cd]

Road

I_{max}:521.26

(10%I_{max}) 52.1259

(20%I_{max}) 104.252

(30%I_{max}) 156.378

(40%I_{max}) 208.504

(50%I_{max}) 260.629

(60%I_{max}) 312.755

(70%I_{max}) 364.881

(80%I_{max}) 417.007

(90%I_{max}) 469.133



LE8R-5CCT-3500K

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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	521.26	518.04	511.47	500.04	484.59	464.90	441.19	413.88	383.39	
45.0	521.26	518.46	511.47	499.83	484.16	464.90	440.77	413.24	382.34	
90.0	521.26	518.67	511.90	501.31	485.65	466.17	443.73	416.21	386.15	
135.0	521.26	519.10	512.53	501.52	486.07	466.59	443.52	416.21	385.51	
180.0	521.26	519.10	512.96	502.16	487.13	467.23	443.94	416.84	387.20	
225.0	521.26	519.10	513.17	502.37	487.55	467.86	444.36	417.69	387.63	
270.0	521.26	517.82	511.26	499.62	484.38	464.26	441.40	413.46	382.55	
315.0	521.26	518.25	511.69	500.25	484.80	465.11	441.40	414.30	383.18	
360.0	521.26	518.04	511.47	500.04	484.59	464.90	441.19	413.88	383.39	
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	
0.0	349.10	311.63	271.83	230.97	187.57	143.53	98.02	59.70	23.71	
45.0	348.67	311.63	271.83	229.27	184.39	142.69	98.87	57.58	22.44	
90.0	351.64	315.23	277.33	235.63	192.23	149.67	106.06	67.11	29.43	
135.0	352.70	315.65	276.27	234.36	192.44	148.83	105.43	66.48	28.58	
180.0	352.70	315.65	276.48	235.20	191.59	146.92	105.22	64.57	27.10	
225.0	353.33	316.28	278.18	235.63	192.01	147.35	104.58	64.15	27.73	
270.0	348.89	311.20	271.40	228.85	187.15	143.53	99.92	58.85	23.71	
315.0	348.67	311.41	272.89	230.54	187.36	143.96	101.62	60.34	23.92	
360.0	349.10	311.63	271.83	230.97	187.57	143.53	98.02	59.70	23.71	
C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0	
0.0	0.42	0.64	0.42	0.64	0.64	0.64	0.85	0.85	0.85	
45.0	0.42	0.42	0.42	0.85	0.64	0.64	0.85	1.06	1.06	
90.0	0.21	0.00	0.21	0.21	0.42	0.42	0.64	0.64	0.64	
135.0	0.42	0.21	0.21	0.21	0.42	0.64	0.42	0.42	0.64	
180.0	0.21	0.21	0.00	0.42	0.42	0.21	0.64	0.64	0.64	
225.0	0.42	0.21	0.21	0.21	0.42	0.42	0.42	0.42	0.85	
270.0	0.64	0.85	0.64	0.85	0.85	0.85	0.85	1.27	1.27	
315.0	0.42	0.64	0.64	0.64	0.64	0.64	1.06	1.06	1.06	
360.0	0.42	0.64	0.42	0.64	0.64	0.64	0.85	0.85	0.85	
C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0	
0.0	1.06	1.06	1.06	1.27	1.48	1.27	1.27	1.27	1.27	
45.0	0.85	1.27	1.06	1.06	1.48	1.27	1.27	1.48	1.27	
90.0	1.06	0.85	0.85	0.85	1.27	1.06	0.85	1.06	1.06	
135.0	0.85	0.85	0.85	1.06	1.06	1.06	0.85	1.06	1.06	
180.0	0.64	0.64	0.85	1.06	1.06	1.06	0.85	1.06	1.27	
225.0	0.85	0.85	0.85	1.06	0.85	0.85	1.06	1.06	1.06	
270.0	1.27	1.27	1.48	1.48	1.48	1.48	1.27	1.27	1.48	
315.0	1.06	1.27	1.06	1.27	1.27	1.27	1.27	1.27	1.06	
360.0	1.06	1.06	1.06	1.27	1.48	1.27	1.27	1.27	1.27	
C/γ(°)	180.0									
0.0	1.27									
45.0	1.27									
90.0	1.27									
135.0	1.27									
180.0	1.27									
225.0	1.27									
270.0	1.27									
315.0	1.27									
360.0	1.27									

Equipment: GMS-3000
Temperature(°C): 25Date:
Humidity(%): 58%

Operator: Sam