



Shenzhen Belling Efficiency Testing Laboratory Co.,Ltd.
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LumCAT: LL6SR-40K

Luminaire:

Report No:

Voltage(V): 120.04

Test No:

Current(A): 0.1514

LampCAT:

Power (W): 17.9340

Lamp flux(lm): 1254.4

PF: 0.9868

Number of Lamps: 1

Ballast type:

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1254.40

Efficiency(%): 100.00%

Lumens(lm)/Power(W): 69.95

Central intensity(cd): 500.531

Maximum intensity(cd): 500.531

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=104.3

[C90/270]Total=104.2

Field angle(10%Imax): [C0/180]Total=154.3

[C90/270]Total=154.4

Maximum s/h(1/2): C0_180=1.22 C90_270=1.22

Maximum s/h(1/4): C0_180=1.74 C90_270=1.32

Up flux rate of lamp(%): 0.25%

Down flux rate of lamp(%): 99.75%

Up flux rate of LUM(%): 0.25%

Down flux rate of LUM(%): 99.75%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 82.466%

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

Date:
Humidity(%): 58%

Operator: Zac

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	490.013	.000	.000	.000%	.000%
5.0	487.625	11.687	11.687	.932%	.932%
10.0	479.918	34.612	46.299	2.759%	3.691%
15.0	467.676	56.211	102.510	4.481%	8.172%
20.0	450.720	75.689	178.199	6.034%	14.206%
25.0	427.930	92.154	270.353	7.346%	21.552%
30.0	400.637	104.856	375.209	8.359%	29.911%
35.0	369.610	113.424	488.633	9.042%	38.954%
40.0	335.728	117.680	606.313	9.381%	48.335%
45.0	299.140	117.551	723.864	9.371%	57.706%
50.0	260.678	113.119	836.984	9.018%	66.724%
55.0	220.962	104.725	941.708	8.349%	75.072%
60.0	180.294	92.749	1034.458	7.394%	82.466%
65.0	139.611	77.769	1112.227	6.200%	88.666%
70.0	99.608	60.572	1172.799	4.829%	93.495%
75.0	62.143	42.279	1215.078	3.370%	96.865%
80.0	28.004	24.121	1239.199	1.923%	98.788%
85.0	7.964	9.773	1248.972	.779%	99.567%
90.0	.378	2.284	1251.256	.182%	99.749%
95.0	.242	.170	1251.426	.014%	99.763%
100.0	.227	.127	1251.553	.010%	99.773%
105.0	.287	.138	1251.691	.011%	99.784%
110.0	.333	.162	1251.853	.013%	99.797%
115.0	.393	.184	1252.036	.015%	99.812%
120.0	.393	.191	1252.228	.015%	99.827%
125.0	.438	.192	1252.420	.015%	99.842%
130.0	.650	.237	1252.656	.019%	99.861%
135.0	.650	.263	1252.919	.021%	99.882%
140.0	.725	.255	1253.173	.020%	99.902%
145.0	.755	.247	1253.421	.020%	99.922%
150.0	.861	.238	1253.659	.019%	99.941%
155.0	.861	.218	1253.877	.017%	99.958%
160.0	.907	.185	1254.062	.015%	99.973%
165.0	.907	.149	1254.211	.012%	99.985%
170.0	.846	.104	1254.315	.008%	99.993%
175.0	.907	.063	1254.378	.005%	99.998%
180.0	.937	.022	1254.400	.002%	100.000%

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

Date:
Humidity(%): 58%

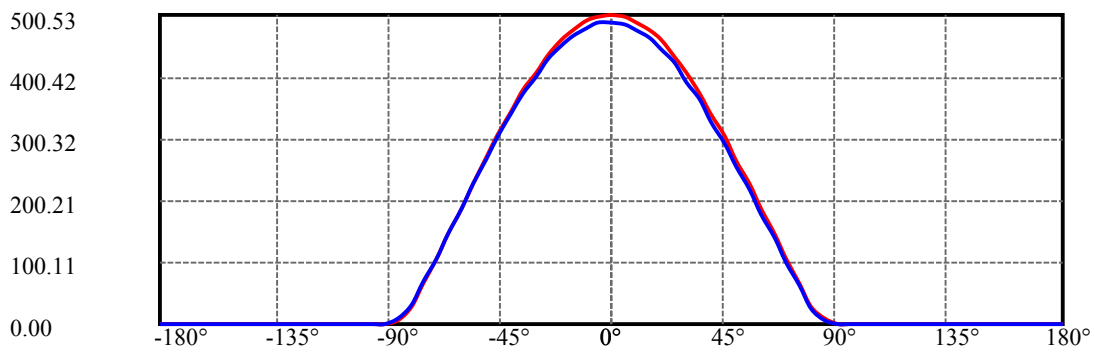
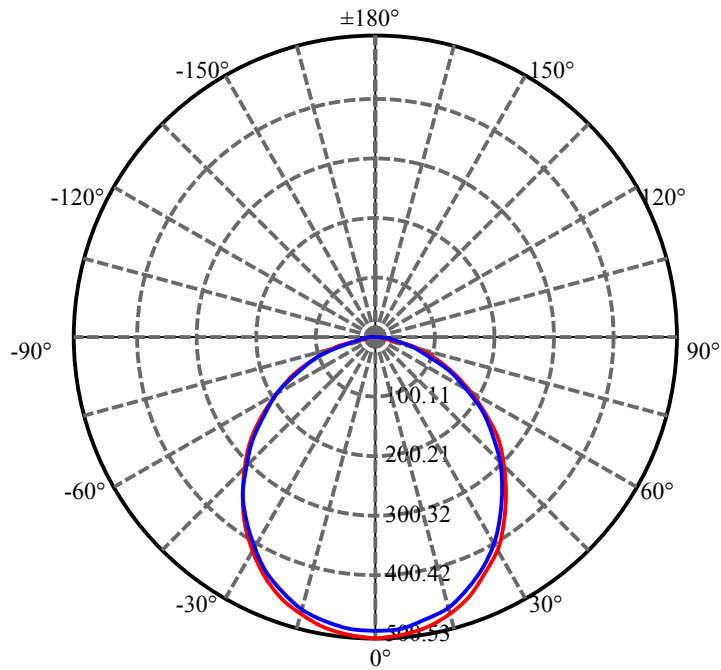
Operator: Zac

ZONAL LUMEN SUMMARY

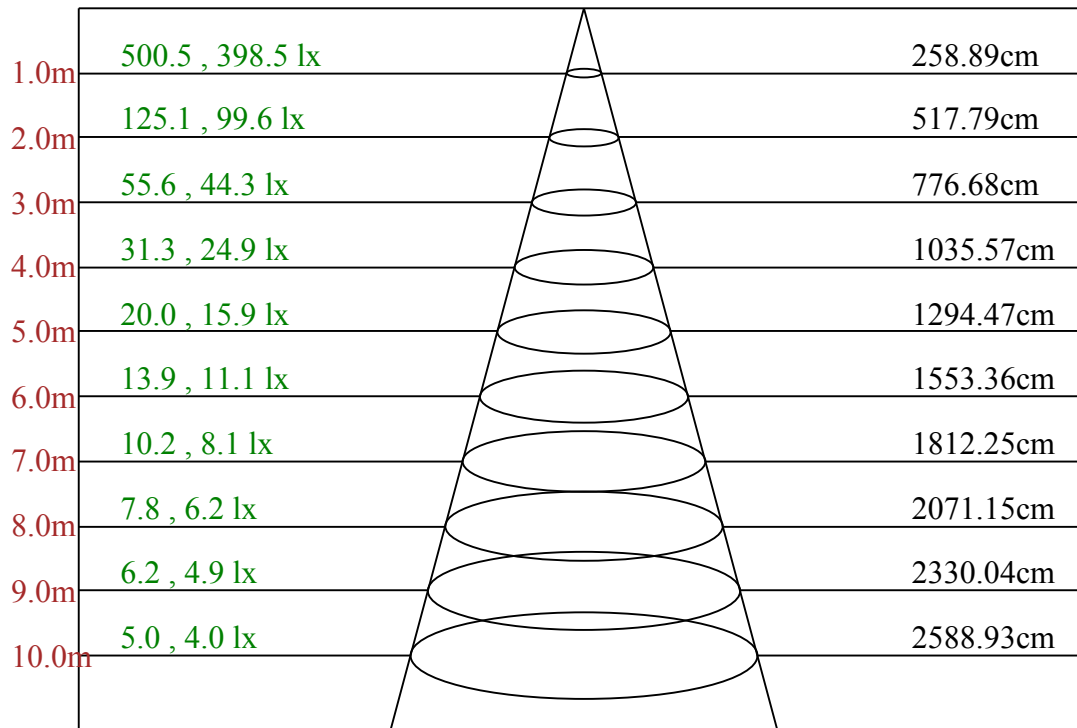
Zone	Lumens	%Lamp	%Fixt
0-30	375.21	29.91%	29.91%
0-40	606.31	48.33%	48.33%
0-60	1034.46	82.47%	82.47%
0-90	1251.26	99.75%	99.75%
0-120	1252.23	99.83%	99.83%
0-180	1254.40	100.00%	100.00%
60-90	309.55	24.68%	24.68%
90-120	3.26	0.26%	0.26%
90-130	3.68	0.29%	0.29%
90-150	4.69	0.37%	0.37%
90-180	5.41	0.43%	0.43%
0-58.33	1003.52	80.00%	80.00%

ZONAL LUMEN SUMMARY

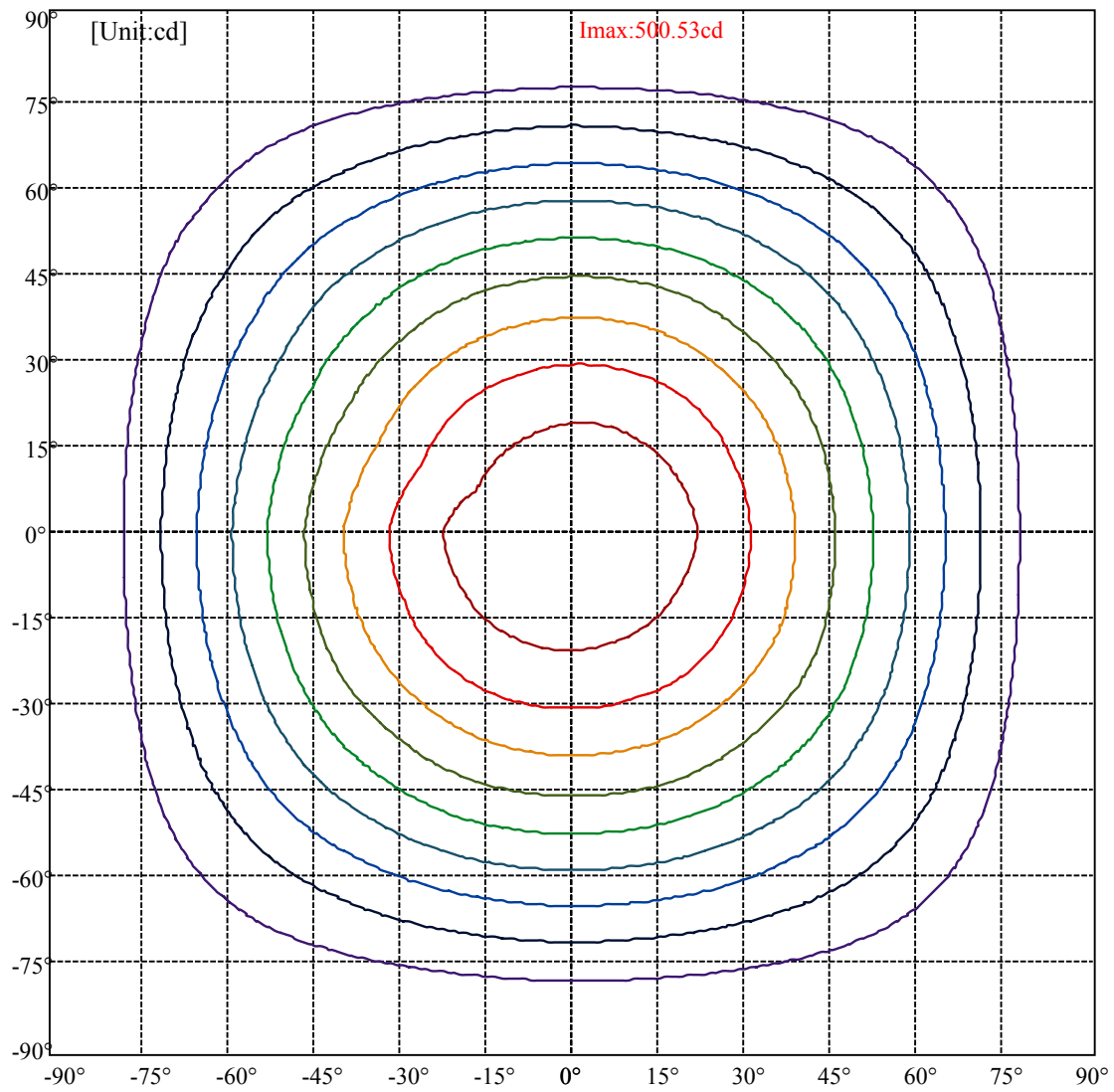
0-10	46.30
10-20	131.90
20-30	197.01
30-40	231.10
40-50	230.67
50-60	197.47
60-70	138.34
70-80	66.40
80-90	12.06
90-100	0.30
100-110	0.30
110-120	0.37
120-130	0.43
130-140	0.52
140-150	0.49
150-160	0.40
160-170	0.25
170-180	0.06



C0/C180: —
 C90/C270: —
 Field angle(10%Imax):C0/180Left:77.1 Right:77.2
 :C90/270Left:77.6 Right:76.7
 Beam Angle(50%Imax):C0/180Left:52.3 Right:51.9
 :C90/270Left:52.8 Right:51.4



Max , Ave Beam angle of C0plane104.62



(10%Imax) 49.9951	—
(20%Imax) 99.9902	—
(30%Imax) 149.985	—
(40%Imax) 199.98	—
(50%Imax) 249.975	—
(60%Imax) 299.97	—
(70%Imax) 349.966	—
(80%Imax) 399.961	—
(90%Imax) 449.956	—

Intensity data(cd)

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C/γ(°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	500.53	497.15	488.44	476.35	458.70	433.31	405.75	374.55	339.73
22.5	493.76	490.86	483.12	470.31	453.14	429.68	401.15	369.96	336.59
45.0	490.62	487.47	479.49	466.68	448.79	427.75	399.70	366.81	331.75
67.5	489.17	486.27	478.29	465.23	447.34	423.15	396.07	365.12	330.79
90.0	487.96	485.78	476.59	463.78	445.16	421.70	392.93	363.19	327.88
112.5	486.02	482.88	474.42	460.63	442.74	418.32	391.48	359.80	325.95
135.0	486.27	481.67	472.72	459.67	441.77	419.29	390.03	358.35	322.81
157.5	485.78	482.64	473.69	459.91	442.02	417.35	389.06	357.38	323.77
180.0	500.53	497.63	489.89	476.84	459.91	435.00	408.65	377.94	344.57
202.5	493.76	491.83	484.33	471.76	455.80	432.83	405.75	375.52	342.63
225.0	490.62	488.68	481.67	470.06	453.62	432.34	406.23	373.34	338.77
247.5	489.17	487.23	480.46	469.58	452.65	430.65	404.29	373.59	339.49
270.0	487.96	486.75	479.49	467.65	451.93	429.68	402.12	373.34	340.46
292.5	486.02	485.30	478.53	467.65	451.69	430.17	403.81	373.34	341.67
315.0	486.27	484.33	478.04	467.65	452.41	432.34	406.95	375.04	340.70
337.5	485.78	485.54	479.49	469.10	453.86	433.31	406.23	376.49	344.09
360.0	500.53	497.15	488.44	476.35	458.70	433.31	405.75	374.55	339.73
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	303.46	265.26	226.57	185.70	145.32	104.22	66.50	29.02	7.98
22.5	299.59	260.66	220.77	180.63	139.52	99.62	60.45	28.53	8.46
45.0	293.55	256.07	215.93	175.31	135.89	96.24	59.48	27.32	8.22
67.5	294.76	255.83	217.14	176.76	135.89	96.48	60.21	26.60	7.74
90.0	292.58	254.86	216.17	177.00	138.80	99.62	61.18	25.39	7.01
112.5	289.68	251.72	212.30	172.16	132.27	94.06	57.07	24.18	6.77
135.0	285.57	246.40	208.19	168.30	128.16	89.47	54.65	23.70	6.77
157.5	287.26	248.33	208.92	169.50	129.85	90.92	53.92	22.49	6.53
180.0	307.33	269.13	228.50	187.16	146.53	105.18	65.53	29.26	7.74
202.5	305.40	265.50	225.84	183.53	140.97	99.86	63.84	28.05	7.74
225.0	300.80	261.63	222.22	179.66	138.07	97.69	60.69	27.81	7.74
247.5	303.70	265.74	224.64	183.77	141.94	101.56	62.87	28.29	8.46
270.0	303.95	266.71	226.33	187.16	145.81	105.91	68.43	31.19	8.46
292.5	305.64	266.71	225.84	185.22	145.08	103.25	66.01	31.19	8.71
315.0	304.43	266.47	225.84	184.25	142.66	103.49	65.77	31.92	9.43
337.5	308.54	269.85	230.20	188.61	147.02	106.15	67.71	33.13	9.67
360.0	303.46	265.26	226.57	185.70	145.32	104.22	66.50	29.02	7.98
C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	0.48	0.24	0.48	0.24	0.24	0.48	0.24	0.24	0.48
22.5	0.48	0.24	0.48	0.73	0.48	0.48	0.73	0.73	0.97
45.0	0.48	0.73	0.48	0.48	0.48	0.48	0.48	0.73	0.97
67.5	0.48	0.48	0.48	0.48	0.48	0.97	0.73	0.48	0.73
90.0	0.48	0.48	0.24	0.48	0.73	0.24	0.73	0.48	0.73
112.5	0.48	0.73	0.48	0.48	0.73	0.73	0.73	0.73	0.97
135.0	0.24	0.24	0.48	0.24	0.48	0.73	0.48	0.97	0.73
157.5	0.48	0.73	0.48	0.73	0.48	0.73	0.48	0.73	0.97
180.0	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.48	0.48
202.5	0.00	0.00	0.00	0.00	0.24	0.00	0.48	0.24	0.73
225.0	0.00	0.00	0.00	0.24	0.24	0.24	0.24	0.24	0.48
247.5	0.00	0.00	0.00	0.00	0.00	0.24	0.24	0.24	0.48
270.0	0.24	0.00	0.00	0.48	0.24	0.48	0.24	0.24	0.48
292.5	0.24	0.00	0.00	0.00	0.24	0.24	0.24	0.24	0.48
315.0	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.48
337.5	0.97	0.00	0.00	0.00	0.00	0.24	0.24	0.24	0.24
360.0	0.48	0.24	0.48	0.24	0.24	0.48	0.24	0.24	0.48

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

Operator: Zac

Intensity data(cd)

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C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	0.48	0.73	0.73	0.73	0.48	0.73	0.48	0.73	0.73
22.5	0.97	0.73	0.97	0.97	0.97	0.97	0.97	0.97	0.97
45.0	0.73	0.97	0.73	0.73	0.97	1.21	0.97	0.73	0.97
67.5	0.97	1.21	0.73	0.97	0.97	0.97	0.97	0.97	0.73
90.0	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
112.5	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.73	0.73
135.0	0.73	0.73	0.73	0.97	0.97	1.21	0.97	0.97	0.97
157.5	0.73	0.73	0.97	1.21	0.97	0.73	0.97	0.97	0.97
180.0	0.24	0.24	0.48	0.73	0.97	0.73	0.97	0.97	0.73
202.5	0.73	0.48	0.48	0.97	0.97	1.21	0.97	0.73	0.97
225.0	0.48	0.48	0.73	0.73	0.73	0.73	0.97	0.73	0.97
247.5	0.48	0.73	0.73	0.73	0.73	0.97	0.73	0.97	1.21
270.0	0.48	0.73	0.73	0.73	0.97	0.73	0.97	0.97	0.97
292.5	0.73	0.97	0.73	0.73	0.48	0.73	0.97	0.73	0.73
315.0	0.48	0.48	0.73	0.97	0.73	0.73	0.97	0.73	0.97
337.5	0.24	0.48	0.73	0.73	0.97	0.97	0.73	0.73	0.97
360.0	0.48	0.73	0.73	0.73	0.48	0.73	0.48	0.73	0.73
C/γ(°)	180.0								
0.0	0.73								
22.5	0.97								
45.0	0.97								
67.5	0.97								
90.0	0.97								
112.5	0.73								
135.0	1.21								
157.5	0.97								
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