



Shenzhen Belling Efficiency Testing Laboratory Co.,Ltd.
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LumCAT: LL10R-40K

Luminaire:

Report No:

Voltage(V): 120.06

Test No:

Current(A): 0.4316

LampCAT:

Power (W): 49.8600

Lamp flux(lm): 6604.4

PF: 0.9622

Number of Lamps: 1

Ballast type:

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 6604.36

Efficiency(%): 100.00%

Lumens(lm)/Power(W): 132.46

Central intensity(cd): 5974.715

Maximum intensity(cd): 5974.715

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=65.6

[C90/270]Total=65.4

Field angle(10%Imax): [C0/180]Total=94.3

[C90/270]Total=94.0

Maximum s/h(1/2): C0_180=1.04 C90_270=1.02

Maximum s/h(1/4): C0_180=1.48 C90_270=0.98

Up flux rate of lamp(%): 0.19%

Down flux rate of lamp(%): 99.81%

Up flux rate of LUM(%): 0.19%

Down flux rate of LUM(%): 99.81%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 97.277%

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

Date:
Humidity(%): 58%

Operator: Zac

Zonal flux distribution table

Page: 2 Total:8

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	5927.777	.000	.000	.000%	.000%
5.0	5861.868	140.942	140.942	2.134%	2.134%
10.0	5681.988	412.960	553.902	6.253%	8.387%
15.0	5371.695	655.697	1209.599	9.928%	18.315%
20.0	4946.870	850.395	2059.994	12.876%	31.191%
25.0	4387.976	979.053	3039.047	14.824%	46.016%
30.0	3601.577	1011.085	4050.131	15.309%	61.325%
35.0	2429.842	888.169	4938.300	13.448%	74.773%
40.0	1304.847	623.105	5561.404	9.435%	84.208%
45.0	710.779	373.209	5934.614	5.651%	89.859%
50.0	432.429	231.002	6165.616	3.498%	93.357%
55.0	278.083	154.489	6320.104	2.339%	95.696%
60.0	173.612	104.408	6424.513	1.581%	97.277%
65.0	104.654	67.647	6492.160	1.024%	98.301%
70.0	63.576	42.597	6534.756	.645%	98.946%
75.0	39.012	26.815	6561.571	.406%	99.352%
80.0	24.045	16.872	6578.443	.255%	99.608%
85.0	11.510	9.661	6588.104	.146%	99.754%
90.0	1.026	3.432	6591.537	.052%	99.806%
95.0	.675	.466	6592.002	.007%	99.813%
100.0	.745	.386	6592.388	.006%	99.819%
105.0	.731	.395	6592.783	.006%	99.825%
110.0	.801	.400	6593.184	.006%	99.831%
115.0	.941	.441	6593.625	.007%	99.837%
120.0	1.208	.523	6594.147	.008%	99.845%
125.0	1.504	.627	6594.774	.009%	99.855%
130.0	1.954	.752	6595.526	.011%	99.866%
135.0	2.431	.886	6596.413	.013%	99.880%
140.0	3.050	1.015	6597.427	.015%	99.895%
145.0	3.682	1.123	6598.550	.017%	99.912%
150.0	4.342	1.182	6599.732	.018%	99.930%
155.0	5.158	1.202	6600.934	.018%	99.948%
160.0	5.705	1.139	6602.073	.017%	99.965%
165.0	5.987	.964	6603.037	.015%	99.980%
170.0	6.184	.722	6603.758	.011%	99.991%
175.0	6.296	.446	6604.205	.007%	99.998%
180.0	6.605	.154	6604.359	.002%	100.000%

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

Date:
Humidity(%): 58%

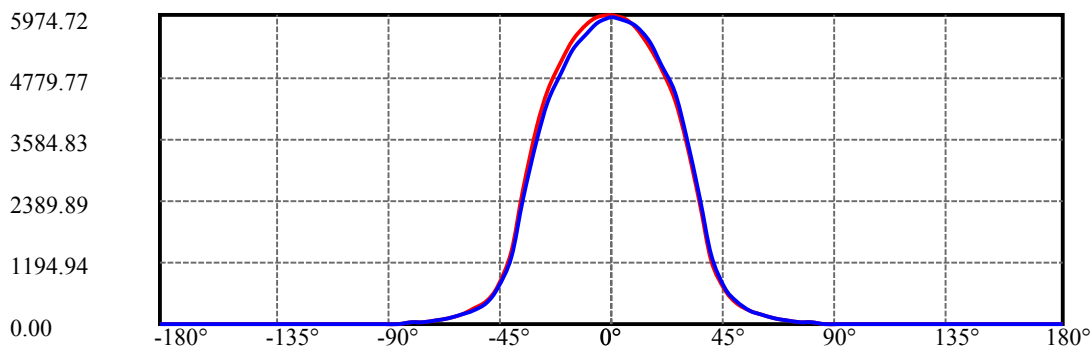
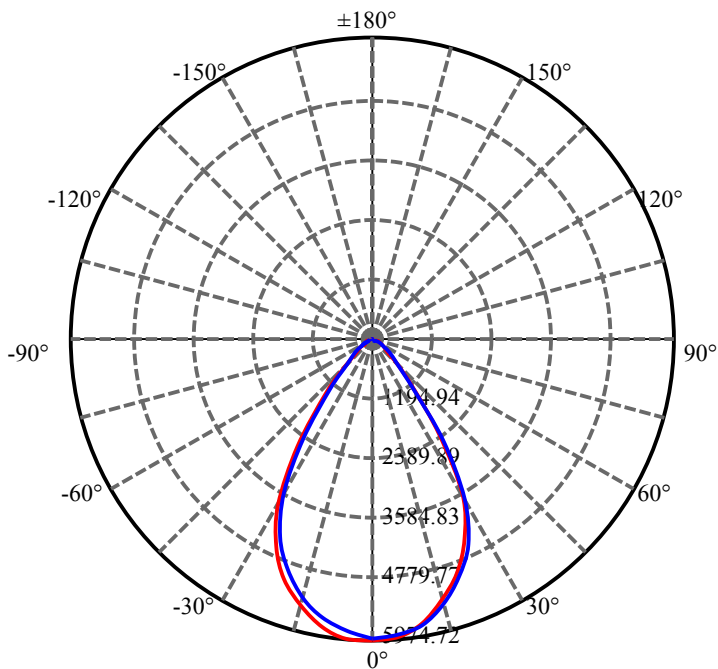
Operator: Zac

ZONAL LUMEN SUMMARY

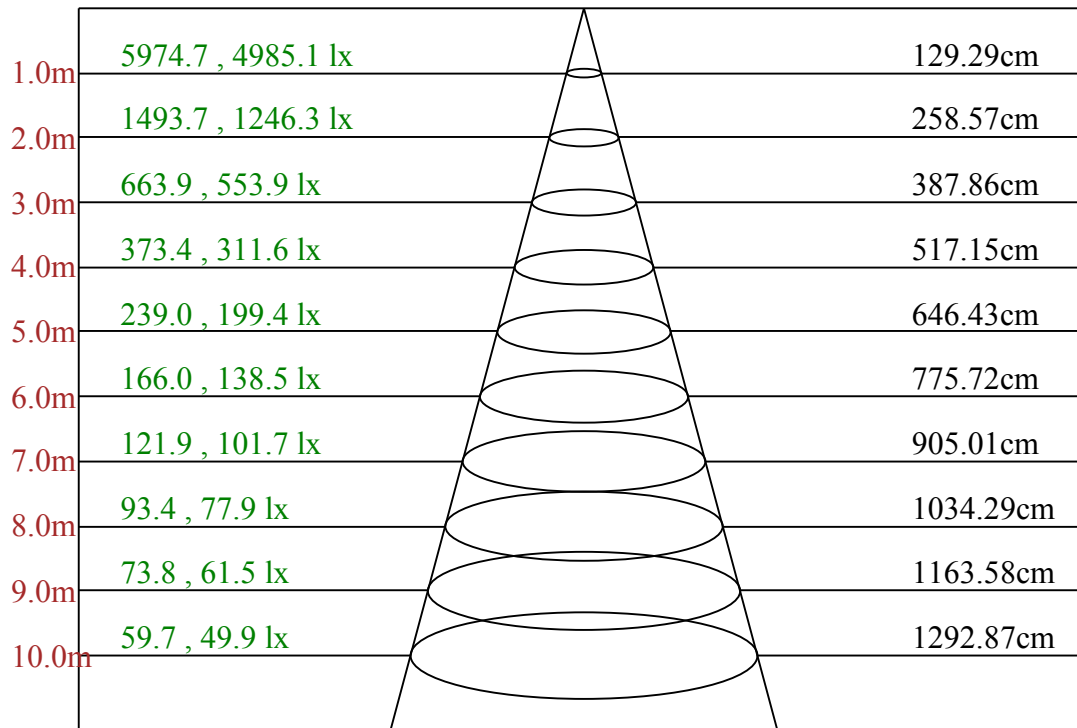
Zone	Lumens	%Lamp	%Fixt
0-30	4050.13	61.33%	61.33%
0-40	5561.40	84.21%	84.21%
0-60	6424.51	97.28%	97.28%
0-90	6591.54	99.81%	99.81%
0-120	6594.15	99.85%	99.85%
0-180	6604.36	100.00%	100.00%
60-90	271.43	4.11%	4.11%
90-120	6.04	0.09%	0.09%
90-130	7.42	0.11%	0.11%
90-150	11.63	0.18%	0.18%
90-180	16.10	0.24%	0.24%
0-37.77	5283.49	80.00%	80.00%

ZONAL LUMEN SUMMARY

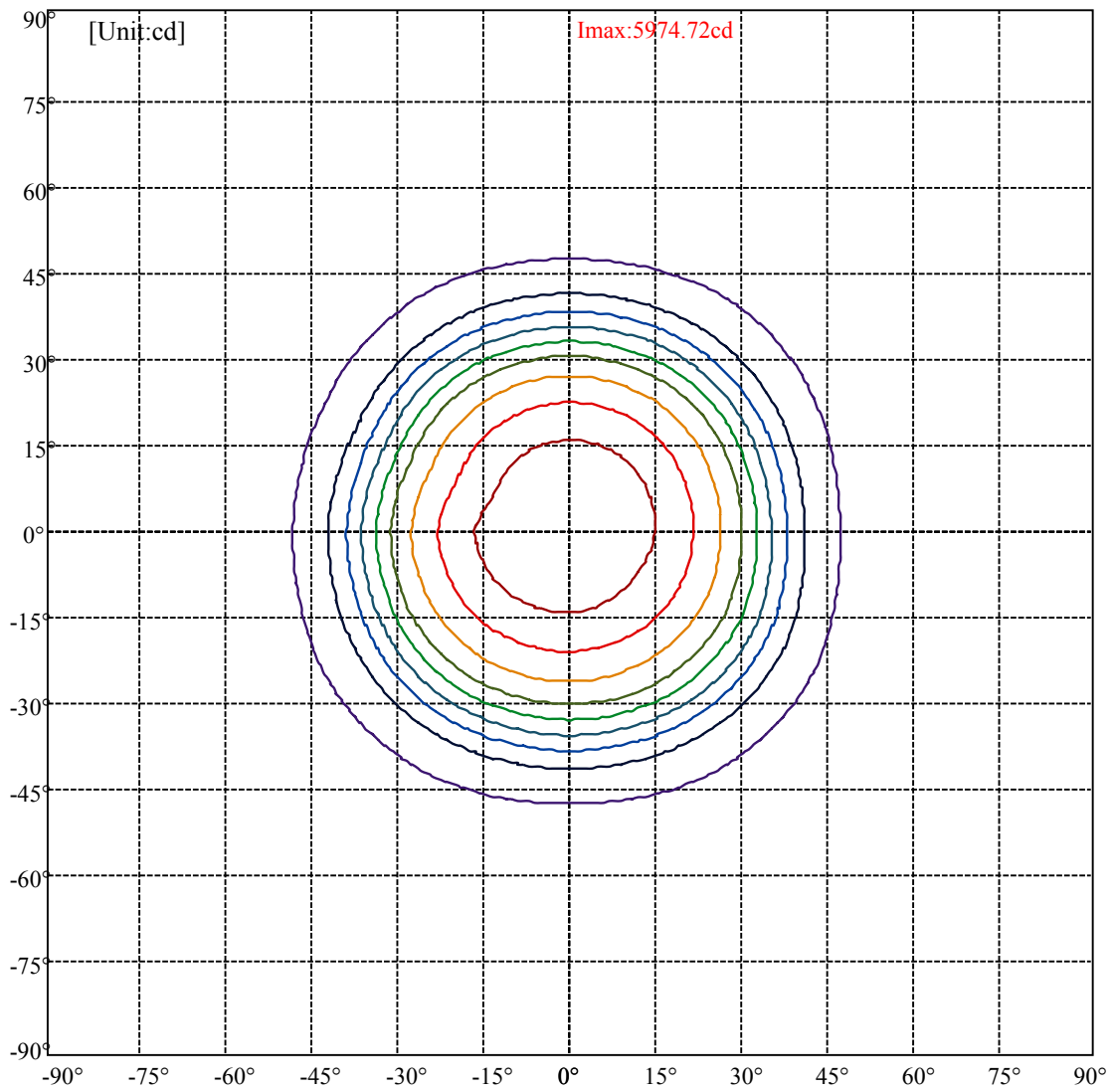
0-10	553.90
10-20	1506.09
20-30	1990.14
30-40	1511.27
40-50	604.21
50-60	258.90
60-70	110.24
70-80	43.69
80-90	13.09
90-100	0.85
100-110	0.80
110-120	0.96
120-130	1.38
130-140	1.90
140-150	2.30
150-160	2.34
160-170	1.69
170-180	0.45



C0/C180: —
 C90/C270: —
 Field angle(10%Imax):C0/180Left:47.7 Right:46.6
 :C90/270Left:47.0 Right:47.1
 Beam Angle(50%Imax):C0/180Left:33.3 Right:32.3
 :C90/270Left:32.5 Right:32.9



Max , Ave Beam angle of C0plane65.75



(10%Imax) 596.887	—
(20%Imax) 1193.77	—
(30%Imax) 1790.66	—
(40%Imax) 2387.55	—
(50%Imax) 2984.43	—
(60%Imax) 3581.32	—
(70%Imax) 4178.21	—
(80%Imax) 4775.09	—
(90%Imax) 5371.98	—

Intensity data(cd)

Page: 7 Total:8

C/γ(°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	5974.72	5905.01	5711.64	5356.38	4926.91	4357.37	3541.16	2336.19	1242.75
22.5	5963.47	5902.76	5704.90	5387.86	4965.14	4391.32	3557.80	2354.63	1285.47
45.0	5945.48	5878.03	5727.38	5423.83	4987.62	4415.38	3620.99	2416.24	1290.64
67.5	5931.99	5887.02	5738.62	5435.08	5034.84	4469.57	3624.58	2466.61	1310.88
90.0	5923.00	5873.53	5740.87	5437.32	5028.10	4473.17	3655.16	2447.27	1320.32
112.5	5907.26	5864.54	5707.14	5426.08	4998.87	4467.77	3627.51	2420.29	1301.88
135.0	5902.76	5839.81	5659.93	5378.86	4971.88	4387.72	3593.33	2392.63	1253.09
157.5	5873.53	5826.31	5644.19	5324.90	4911.17	4351.75	3534.87	2309.44	1208.79
180.0	5974.72	5945.48	5799.33	5480.04	5077.56	4522.18	3766.69	2597.47	1396.77
202.5	5963.47	5905.01	5734.13	5414.84	4996.62	4445.73	3710.48	2505.28	1369.79
225.0	5945.48	5875.78	5662.17	5369.87	4940.41	4362.54	3586.81	2462.56	1324.82
247.5	5931.99	5842.05	5644.19	5318.15	4857.21	4328.81	3553.08	2390.61	1284.34
270.0	5923.00	5819.57	5621.70	5304.66	4845.97	4306.33	3526.10	2404.10	1293.34
292.5	5907.26	5810.57	5610.46	5288.92	4836.97	4286.09	3571.07	2399.60	1291.09
315.0	5902.76	5806.08	5590.22	5293.42	4866.20	4290.59	3553.08	2462.56	1329.31
337.5	5873.53	5808.33	5614.96	5306.91	4904.43	4351.30	3602.55	2512.02	1374.28
360.0	5974.72	5905.01	5711.64	5356.38	4926.91	4357.37	3541.16	2336.19	1242.75
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	681.75	421.82	270.27	169.31	105.01	65.88	38.45	22.49	10.34
22.5	701.31	426.99	274.54	167.29	97.14	59.14	36.43	22.71	10.12
45.0	716.15	435.31	276.79	168.64	99.38	58.24	35.98	21.81	10.12
67.5	711.65	433.06	282.41	176.28	104.56	61.83	36.65	21.59	9.67
90.0	707.83	430.14	277.69	169.54	95.56	56.89	35.53	22.04	9.44
112.5	706.03	423.84	276.34	173.81	107.03	63.41	35.53	21.14	9.67
135.0	683.54	416.87	269.37	166.39	98.26	59.81	36.43	22.49	9.89
157.5	673.65	411.25	261.05	158.97	95.11	58.24	36.88	22.71	10.34
180.0	751.45	462.07	298.15	191.35	119.85	73.08	42.72	24.96	12.59
202.5	742.90	455.10	288.26	183.48	109.95	65.43	41.15	25.86	12.59
225.0	718.85	437.11	284.44	178.76	107.48	65.21	40.92	25.63	12.82
247.5	710.53	431.71	276.34	177.63	109.50	67.46	41.82	26.08	13.04
270.0	700.18	424.52	274.54	170.44	102.53	63.41	40.70	26.31	13.72
292.5	711.43	435.98	277.24	177.18	112.20	69.03	41.82	25.86	13.49
315.0	717.05	431.94	279.71	175.38	106.58	66.11	41.60	26.08	13.27
337.5	738.18	441.16	282.19	173.36	104.33	64.08	41.60	26.98	13.04
360.0	681.75	421.82	270.27	169.31	105.01	65.88	38.45	22.49	10.34
C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	0.23	0.23	0.45	0.23	0.45	0.45	1.12	0.90	1.57
22.5	0.68	0.90	0.68	0.90	0.90	1.12	1.12	1.57	2.02
45.0	0.90	0.68	0.68	0.90	0.90	1.12	1.35	1.80	2.02
67.5	0.90	0.90	0.90	0.90	1.12	0.90	1.57	1.80	2.25
90.0	0.90	0.68	0.90	0.68	0.68	1.12	1.35	1.57	2.02
112.5	0.90	0.68	0.90	0.90	0.90	1.35	1.35	1.80	2.25
135.0	0.90	0.90	0.90	0.68	1.12	1.12	1.57	2.02	2.02
157.5	0.90	0.90	0.90	0.90	1.12	0.90	1.35	1.80	2.25
180.0	0.68	0.23	0.68	0.68	0.68	0.68	0.90	1.12	1.57
202.5	0.90	0.68	0.68	0.68	0.68	0.90	1.12	1.35	1.80
225.0	1.12	0.68	0.45	0.90	0.68	0.90	1.12	1.35	2.02
247.5	1.12	0.68	0.68	0.68	0.90	0.90	1.12	1.35	1.80
270.0	1.80	0.68	0.90	0.90	0.68	0.68	1.12	1.57	2.02
292.5	1.35	0.68	0.90	0.68	0.68	0.90	1.12	1.35	2.02
315.0	1.57	0.68	0.68	0.68	0.68	0.90	0.90	1.35	1.80
337.5	1.57	0.68	0.68	0.45	0.68	1.12	1.12	1.35	1.80
360.0	0.23	0.23	0.45	0.23	0.45	0.45	1.12	0.90	1.57

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

Operator: Zac

Intensity data(cd)

Page: 8 Total:8

C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	2.02	2.70	3.37	4.05	4.95	5.40	5.62	5.62	5.85
22.5	2.70	3.15	3.60	4.50	5.40	5.85	6.30	6.07	6.30
45.0	2.47	3.15	3.82	4.50	5.40	5.85	6.07	6.30	6.30
67.5	2.70	3.37	3.82	4.27	5.17	5.62	6.07	6.30	6.30
90.0	2.70	3.37	3.82	4.50	5.17	5.62	5.85	6.30	6.52
112.5	2.70	3.37	4.05	4.72	5.17	5.62	5.85	6.30	6.75
135.0	2.70	3.37	3.82	4.50	5.40	6.07	6.07	6.30	6.52
157.5	2.70	3.37	3.82	4.72	5.40	5.85	6.30	6.30	6.30
180.0	2.02	2.47	3.37	4.05	4.95	5.40	6.07	5.85	5.85
202.5	2.47	2.70	3.60	4.27	5.17	6.07	6.07	6.30	6.30
225.0	2.47	2.92	3.60	4.27	5.17	5.62	6.07	6.07	6.30
247.5	2.25	3.15	3.82	4.05	4.95	5.62	5.85	6.07	6.30
270.0	2.25	2.92	3.60	4.27	4.95	5.85	6.07	6.07	6.30
292.5	2.25	2.92	3.60	4.27	4.95	5.40	5.85	6.30	6.07
315.0	2.25	2.92	3.60	4.27	5.17	5.85	5.85	6.30	6.52
337.5	2.25	2.92	3.60	4.27	5.17	5.62	5.85	6.52	6.30
360.0	2.02	2.70	3.37	4.05	4.95	5.40	5.62	5.62	5.85
C/γ(°)	180.0								
0.0	6.07								
22.5	6.75								
45.0	6.75								
67.5	6.52								
90.0	6.52								
112.5	6.75								
135.0	6.75								
157.5	6.75								
180.0	6.07								
202.5	6.75								
225.0	6.75								
247.5	6.52								
270.0	6.52								
292.5	6.75								
315.0	6.75								
337.5	6.75								
360.0	6.07								