



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

Luminaire: ASD-LRKTR-2D2550-PRM

Report No:

Voltage(V): 120

Test No:

Current(A): 0.2113

LampCAT:

Power (W): 25.1000

Lamp flux(lm): 3377.0

PF: 0.9899

Number of Lamps: 1

Ballast type:

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 3376.98

Efficiency(%): 100.00%

Lumens(lm)/Power(W): 134.54

Central intensity(cd): 1331.116

Maximum intensity(cd): 1333.622

Angle of maximum intensity: C=22.5 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=100.5

[C90/270]Total=103.6

Field angle(10%Imax): [C0/180]Total=156.4

[C90/270]Total=155.0

Maximum s/h(1/2): C0_180=1.18 C90_270=1.20

Maximum s/h(1/4): C0_180=1.68 C90_270=1.32

Up flux rate of lamp(%): 0.26%

Down flux rate of lamp(%): 99.74%

Up flux rate of LUM(%): 0.26%

Down flux rate of LUM(%): 99.74%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 81.223%

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

Date:
Humidity(%): 58%

Operator: Zac

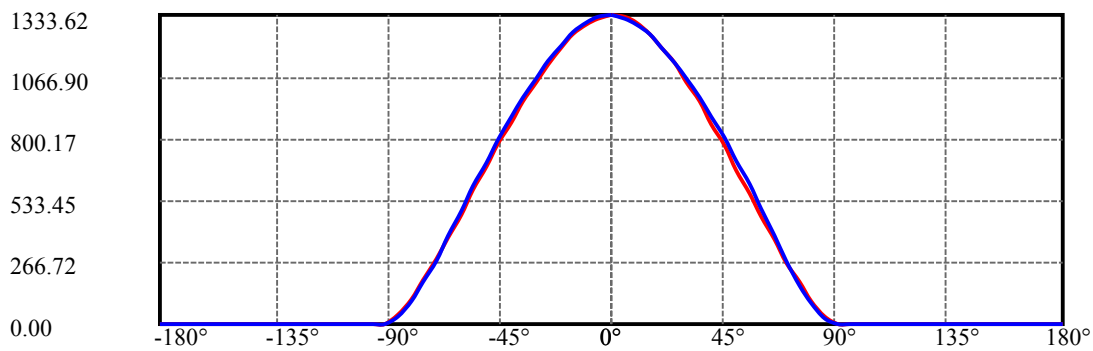
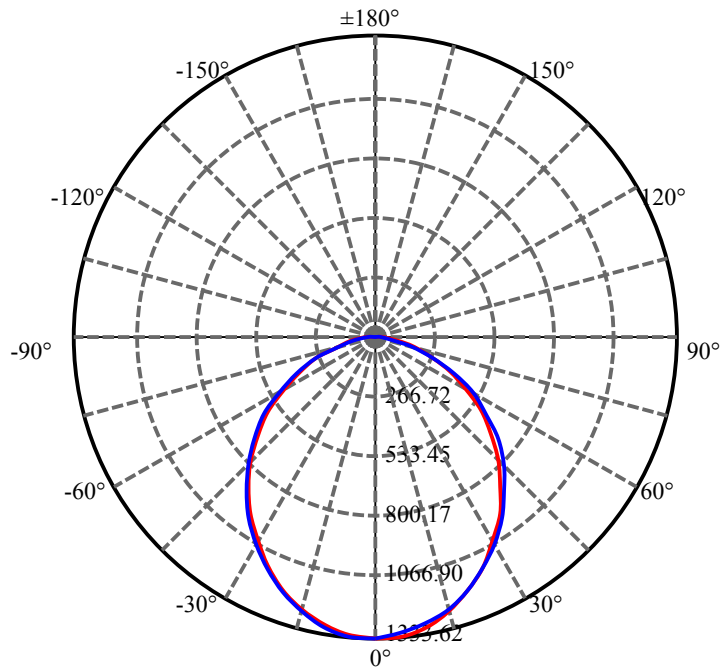
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1327.801	.000	.000	.000%	.000%
5.0	1318.170	31.632	31.632	.937%	.937%
10.0	1291.717	93.364	124.996	2.765%	3.701%
15.0	1248.639	150.692	275.688	4.462%	8.164%
20.0	1193.267	201.247	476.935	5.959%	14.123%
25.0	1127.833	243.441	720.376	7.209%	21.332%
30.0	1053.983	276.111	996.487	8.176%	29.508%
35.0	972.615	298.431	1294.917	8.837%	38.345%
40.0	883.952	309.754	1604.671	9.173%	47.518%
45.0	790.513	310.041	1914.712	9.181%	56.699%
50.0	691.880	299.539	2214.251	8.870%	65.569%
55.0	591.655	279.083	2493.335	8.264%	73.833%
60.0	487.893	249.535	2742.869	7.389%	81.223%
65.0	383.139	211.750	2954.619	6.270%	87.493%
70.0	279.874	167.879	3122.498	4.971%	92.464%
75.0	183.942	121.234	3243.732	3.590%	96.054%
80.0	101.504	76.377	3320.109	2.262%	98.316%
85.0	37.389	37.740	3357.850	1.118%	99.434%
90.0	.979	10.505	3368.355	.311%	99.745%
95.0	.783	.482	3368.838	.014%	99.759%
100.0	1.070	.503	3369.341	.015%	99.774%
105.0	1.161	.597	3369.938	.018%	99.791%
110.0	1.018	.570	3370.508	.017%	99.808%
115.0	1.161	.552	3371.060	.016%	99.825%
120.0	1.423	.628	3371.688	.019%	99.843%
125.0	1.475	.670	3372.357	.020%	99.863%
130.0	1.566	.661	3373.019	.020%	99.883%
135.0	1.631	.646	3373.665	.019%	99.902%
140.0	1.762	.628	3374.293	.019%	99.920%
145.0	1.827	.599	3374.891	.018%	99.938%
150.0	1.866	.544	3375.435	.016%	99.954%
155.0	1.866	.472	3375.907	.014%	99.968%
160.0	1.879	.393	3376.300	.012%	99.980%
165.0	1.722	.297	3376.597	.009%	99.989%
170.0	1.762	.207	3376.804	.006%	99.995%
175.0	1.762	.126	3376.930	.004%	99.999%
180.0	1.827	.043	3376.973	.001%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	996.49	29.51%	29.51%
0-40	1604.67	47.52%	47.52%
0-60	2742.87	81.22%	81.22%
0-90	3368.36	99.74%	99.74%
0-120	3371.69	99.84%	99.84%
0-180	3376.97	100.00%	100.00%
60-90	875.02	25.91%	25.91%
90-120	13.84	0.41%	0.41%
90-130	15.17	0.45%	0.45%
90-150	17.59	0.52%	0.52%
90-180	19.08	0.56%	0.56%
0-59.17	2701.58	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	125.00
10-20	351.94
20-30	519.55
30-40	608.18
40-50	609.58
50-60	528.62
60-70	379.63
70-80	197.61
80-90	48.25
90-100	0.99
100-110	1.17
110-120	1.18
120-130	1.33
130-140	1.27
140-150	1.14
150-160	0.87
160-170	0.50
170-180	0.13

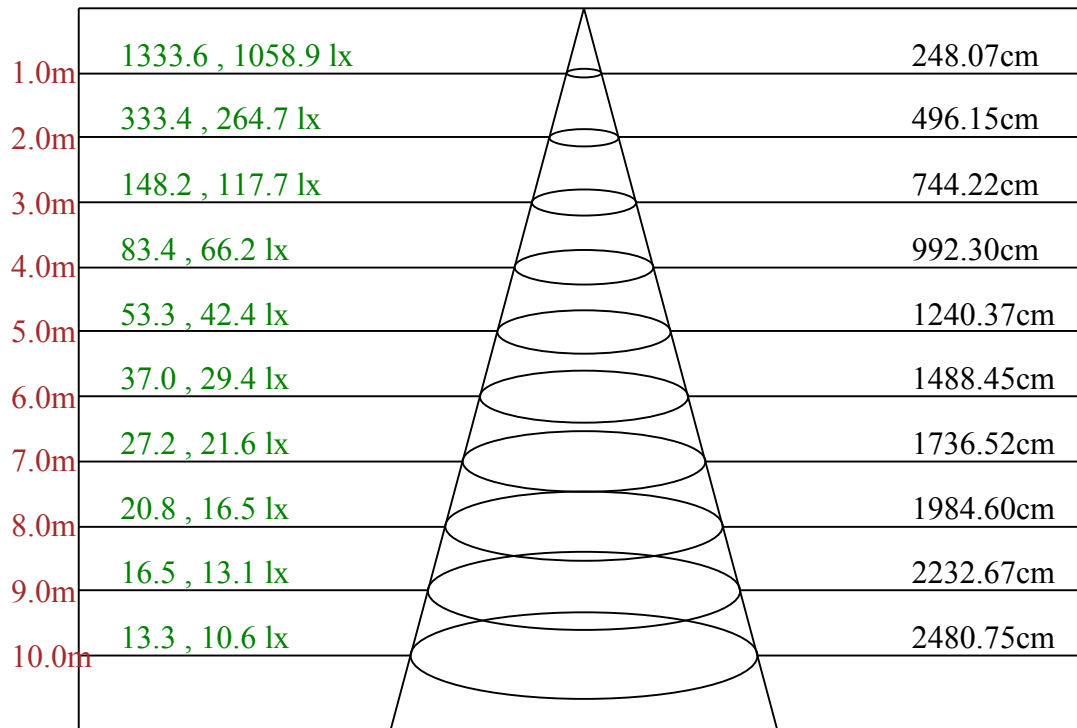


C0/C180: —

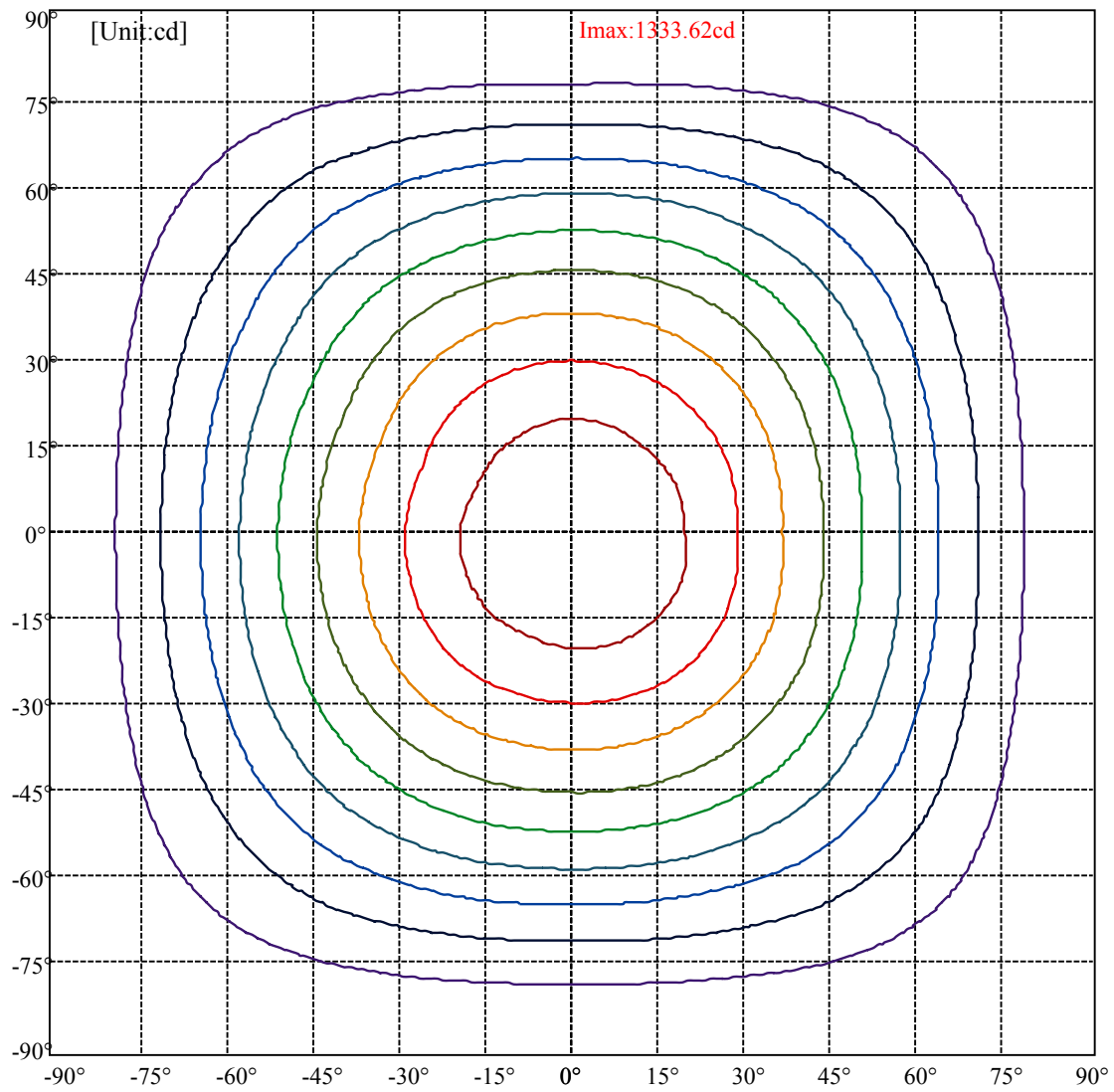
C90/C270: —

Field angle(10%Imax):C0/180Left:78.5 Right:77.9
 :C90/270Left:77.9 Right:77.1

Beam Angle(50%Imax):C0/180Left:50.6 Right:50.0
 :C90/270Left:51.6 Right:51.9



Max , Ave Beam angle of C22.5plane102.25



(10%Imax) 133.132	—
(20%Imax) 266.265	—
(30%Imax) 399.397	—
(40%Imax) 532.53	—
(50%Imax) 665.662	—
(60%Imax) 798.795	—
(70%Imax) 931.927	—
(80%Imax) 1065.06	—
(90%Imax) 1198.19	—

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	1331.12	1326.31	1300.84	1253.44	1192.68	1122.73	1041.92	957.15	864.44
22.5	1333.62	1326.73	1298.54	1251.56	1194.77	1129.83	1054.24	968.84	879.69
45.0	1325.27	1312.32	1285.18	1241.33	1187.46	1126.07	1055.08	978.24	889.08
67.5	1325.90	1314.20	1286.43	1244.88	1191.22	1127.53	1057.38	980.75	894.72
90.0	1331.33	1315.46	1289.36	1249.47	1192.89	1127.33	1057.59	975.94	891.17
112.5	1330.49	1312.95	1280.79	1239.45	1187.04	1125.86	1056.96	979.91	891.80
135.0	1318.38	1300.42	1272.44	1231.73	1181.61	1120.43	1048.82	968.43	882.61
157.5	1326.31	1307.73	1277.66	1231.52	1175.35	1110.83	1031.28	949.01	856.93
180.0	1331.12	1318.17	1290.82	1247.60	1189.13	1119.39	1044.01	958.82	867.99
202.5	1333.62	1321.30	1293.53	1248.85	1192.47	1124.40	1049.65	965.71	878.43
225.0	1325.27	1315.87	1289.77	1246.97	1194.35	1129.83	1057.38	978.66	888.66
247.5	1325.90	1318.80	1289.98	1245.72	1190.38	1126.07	1055.71	975.53	888.04
270.0	1331.33	1326.31	1300.42	1255.32	1199.15	1131.50	1057.17	976.15	890.96
292.5	1330.49	1328.82	1305.02	1264.09	1207.92	1141.31	1064.68	983.04	894.09
315.0	1318.38	1318.59	1299.17	1259.08	1206.88	1142.57	1069.49	985.97	896.60
337.5	1326.31	1326.73	1307.52	1267.22	1208.97	1139.64	1062.39	979.70	888.04
360.0	1331.12	1326.31	1300.84	1253.44	1192.68	1122.73	1041.92	957.15	864.44
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	766.31	665.04	566.69	464.59	364.15	267.69	179.78	99.81	35.50
22.5	782.59	680.91	577.97	476.91	373.76	274.16	181.24	102.10	37.58
45.0	797.00	697.19	594.25	489.02	386.70	283.35	186.46	101.48	38.21
67.5	802.43	704.71	605.74	498.20	388.58	277.92	177.90	95.01	34.04
90.0	800.76	704.50	604.07	496.74	384.41	270.82	166.21	87.28	27.98
112.5	797.63	698.44	595.51	492.15	383.57	273.11	173.72	91.25	32.16
135.0	788.86	689.05	585.90	484.42	379.39	277.08	180.82	96.88	35.08
157.5	764.43	665.87	565.44	463.33	365.61	267.06	176.44	96.26	35.50
180.0	774.87	676.73	575.88	473.77	375.64	278.96	187.71	110.04	43.85
202.5	784.26	685.50	587.15	485.05	382.11	281.47	190.43	106.49	40.51
225.0	794.29	696.98	599.05	495.70	390.88	290.86	192.10	105.65	38.63
247.5	795.54	701.58	599.89	496.95	389.00	282.30	184.58	102.73	36.96
270.0	797.21	698.03	598.64	491.73	382.74	276.04	181.24	99.39	35.50
292.5	803.68	703.66	605.53	498.62	388.58	284.81	187.30	103.36	37.79
315.0	802.22	707.63	607.20	503.42	401.74	296.92	197.74	112.75	43.43
337.5	796.16	694.27	597.59	495.70	393.38	295.46	199.41	113.59	45.52
360.0	766.31	665.04	566.69	464.59	364.15	267.69	179.78	99.81	35.50
C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	0.42	0.84	1.25	1.25	1.25	0.84	1.46	1.46	1.46
22.5	1.04	1.25	1.88	2.09	1.25	1.04	1.25	1.67	2.09
45.0	1.04	1.04	1.25	0.84	0.84	2.30	2.30	1.46	1.46
67.5	0.84	0.84	0.63	1.04	1.04	1.25	1.46	1.88	1.67
90.0	0.63	0.63	1.04	1.04	1.04	1.04	1.46	1.46	1.46
112.5	1.04	0.63	1.04	0.84	1.04	1.25	1.46	1.67	1.88
135.0	0.84	1.04	1.04	1.04	1.04	1.88	1.88	1.46	1.67
157.5	1.04	0.84	1.67	1.67	1.67	1.04	1.04	1.67	1.67
180.0	1.04	0.63	0.84	0.84	0.84	0.63	0.63	1.25	1.25
202.5	1.04	0.84	1.25	1.46	1.46	0.63	1.04	1.04	1.46
225.0	0.63	0.63	0.63	0.84	0.63	1.04	1.46	1.46	1.25
247.5	0.63	0.63	0.63	0.84	0.84	1.04	1.46	1.25	1.25
270.0	0.63	0.63	0.84	0.84	0.84	0.84	1.25	1.46	1.67
292.5	1.04	0.42	0.63	0.84	0.63	1.04	1.46	1.46	1.46
315.0	1.46	0.84	1.04	1.04	0.63	1.88	1.88	1.04	1.25
337.5	2.30	0.84	1.46	2.09	1.25	0.84	1.25	1.88	2.09
360.0	0.42	0.84	1.25	1.25	1.25	0.84	1.46	1.46	1.46

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

Operator: Zac

Intensity data(cd)

C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	1.46	1.67	1.67	1.67	2.09	1.88	1.46	1.46	1.46
22.5	1.88	1.88	1.88	1.88	1.88	2.09	2.09	1.67	1.88
45.0	1.88	1.88	1.88	2.30	1.67	1.88	1.67	2.09	1.67
67.5	1.67	1.88	1.88	1.88	1.88	1.88	1.88	1.88	2.09
90.0	1.67	1.67	1.88	1.88	2.09	1.88	1.67	1.88	1.67
112.5	1.67	1.88	1.88	1.88	1.88	1.88	1.88	2.09	1.67
135.0	1.67	1.88	2.09	2.30	1.88	1.88	1.88	1.67	1.88
157.5	1.67	1.88	1.88	2.09	2.09	2.30	1.46	1.67	1.67
180.0	1.04	1.25	1.46	1.67	1.67	1.67	1.46	1.46	1.67
202.5	1.67	1.67	1.67	1.67	2.09	1.88	1.67	1.88	1.88
225.0	1.67	1.88	1.88	1.67	1.88	1.88	1.88	1.46	1.67
247.5	1.46	1.88	1.88	1.67	1.88	1.67	1.67	1.88	1.67
270.0	1.67	1.67	1.67	1.67	1.67	1.88	1.88	1.88	1.88
292.5	1.46	1.46	1.88	1.88	1.67	1.88	1.67	1.67	1.88
315.0	1.46	2.09	2.09	1.88	1.67	1.67	1.67	1.67	1.88
337.5	2.09	1.67	1.67	1.88	1.88	1.88	1.67	1.88	1.67
360.0	1.46	1.67	1.67	1.67	2.09	1.88	1.46	1.46	1.46

C/γ(°)	180.0
0.0	1.67
22.5	1.88
45.0	1.88
67.5	1.88
90.0	1.67
112.5	1.67
135.0	1.88
157.5	2.09
180.0	1.67
202.5	1.88
225.0	1.88
247.5	1.88
270.0	1.67
292.5	1.67
315.0	1.88
337.5	2.09
360.0	1.67