
AFX

LumCAT: CRRF4450L30SN

Luminaire: LED 灯具

Report No:

Voltage(V): 120.0000

Test No: LCZP19070393

Current(A): 0.2040

LampCAT:

Power (W): 24.1100

Lamp flux(lm): 1910.1

PF: 0.9860

Number of Lamps: 1

Ballast type:

Length(mm): 800

Width(mm): 40

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1910.12

Efficiency(%): 100.00%

Lumens(lm)/Power(W): 79.23

Central intensity(cd): 6830.749

Maximum intensity(cd): 6830.749

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=28.7

[C90/270]Total=28.0

Field angle(10%Imax): [C0/180]Total=49.0

[C90/270]Total=49.0

Maximum s/h(1/2): C0_180=0.49 C90_270=0.48

Maximum s/h(1/4): C0_180=0.47 C90_270=0.46

Up flux rate of lamp(%): 0.44%

Down flux rate of lamp(%): 99.56%

Up flux rate of LUM(%): 0.44%

Down flux rate of LUM(%): 99.56%

CIE Type : Direct lighting

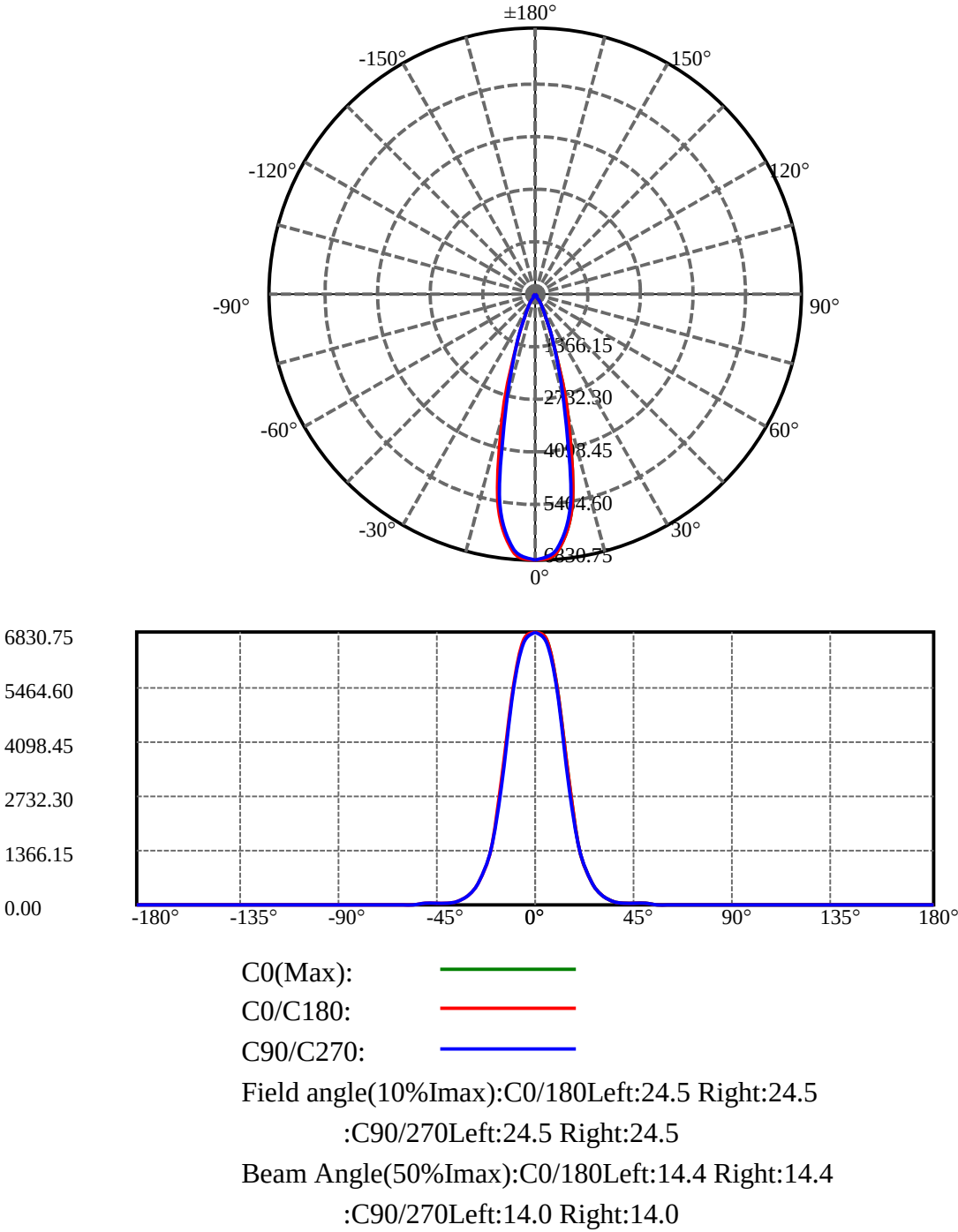
Output flux ratio in π solid angle : 98.304%

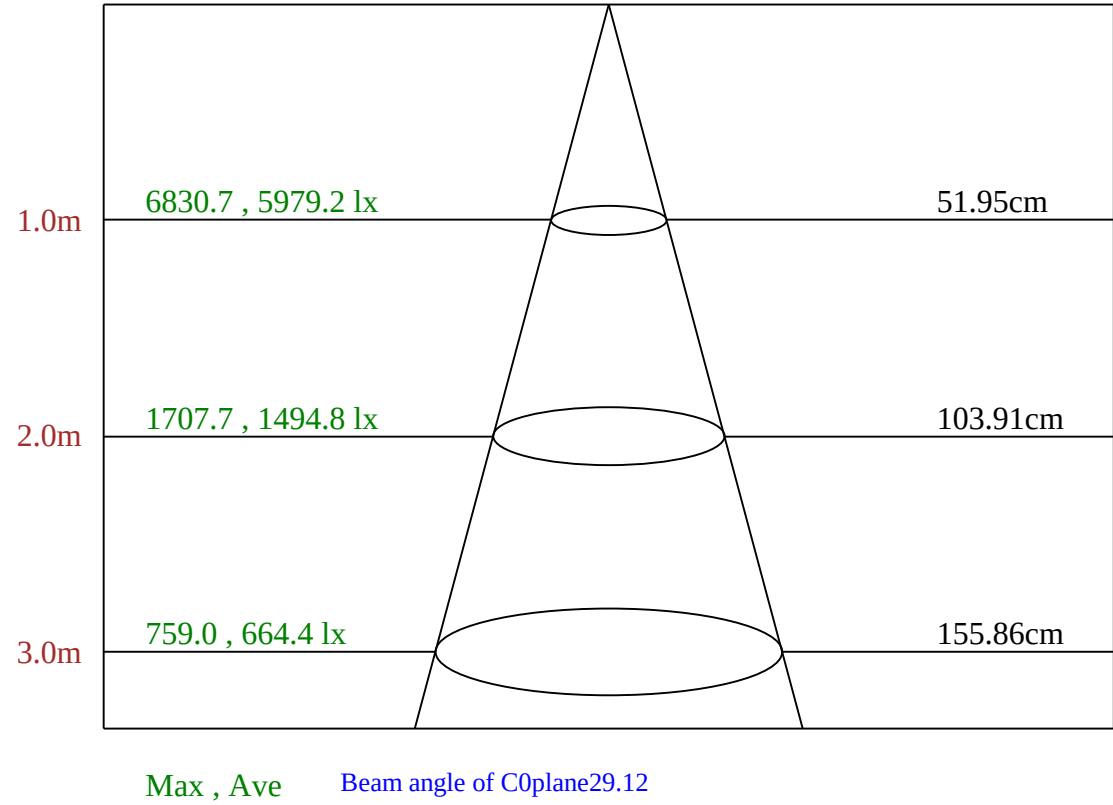
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	6830.750	.000	.000	.000%	.000%
5.0	6560.195	160.085	160.085	8.381%	8.381%
10.0	5362.665	426.518	586.603	22.329%	30.710%
15.0	3028.132	497.736	1084.339	26.058%	56.768%
20.0	1368.478	362.342	1446.682	18.970%	75.738%
25.0	606.610	207.150	1653.832	10.845%	86.583%
30.0	247.271	108.059	1761.891	5.657%	92.240%
35.0	95.203	50.432	1812.323	2.640%	94.880%
40.0	43.139	23.081	1835.404	1.208%	96.088%
45.0	30.347	13.607	1849.011	.712%	96.801%
50.0	23.745	10.930	1859.941	.572%	97.373%
55.0	19.582	9.421	1869.362	.493%	97.866%
60.0	16.543	8.350	1877.712	.437%	98.303%
65.0	14.256	7.487	1885.199	.392%	98.695%
70.0	12.079	6.668	1891.867	.349%	99.044%
75.0	8.253	5.314	1897.182	.278%	99.323%
80.0	3.452	3.132	1900.313	.164%	99.487%
85.0	.825	1.162	1901.475	.061%	99.547%
90.0	.000	.226	1901.701	.012%	99.559%
95.0	.000	.000	1901.701	.000%	99.559%
100.0	.000	.000	1901.701	.000%	99.559%
105.0	.000	.000	1901.701	.000%	99.559%
110.0	.000	.000	1901.701	.000%	99.559%
115.0	.000	.000	1901.701	.000%	99.559%
120.0	.000	.000	1901.701	.000%	99.559%
125.0	.076	.018	1901.719	.001%	99.560%
130.0	.075	.033	1901.751	.002%	99.562%
135.0	.340	.084	1901.835	.004%	99.566%
140.0	1.164	.278	1902.113	.015%	99.581%
145.0	2.477	.607	1902.721	.032%	99.613%
150.0	4.125	.972	1903.693	.051%	99.664%
155.0	6.450	1.338	1905.031	.070%	99.734%
160.0	8.175	1.534	1906.565	.080%	99.814%
165.0	9.227	1.434	1908.000	.075%	99.889%
170.0	9.939	1.137	1909.137	.060%	99.949%
175.0	10.278	.723	1909.860	.038%	99.986%
180.0	11.108	.256	1910.115	.013%	100.000%

ZONAL LUMEN SUMMARY			
Zone	Lumens	%Lamp	%Fixt
0-30	1761.89	92.24%	92.24%
0-40	1835.40	96.09%	96.09%
0-60	1877.71	98.30%	98.30%
0-90	1901.70	99.56%	99.56%
0-120	1901.70	99.56%	99.56%
0-180	1910.12	100.00%	100.00%
60-90	32.34	1.69%	1.69%
90-120	0.23	0.01%	0.01%
90-130	0.28	0.01%	0.01%
90-150	2.22	0.12%	0.12%
90-180	8.38	0.44%	0.44%
0-21.97	1528.09	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	586.60
10-20	860.08
20-30	315.21
30-40	73.51
40-50	24.54
50-60	17.77
60-70	14.16
70-80	8.45
80-90	1.39
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.05
130-140	0.36
140-150	1.58
150-160	2.87
160-170	2.57
170-180	0.72





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	6830.75	6638.64	5421.34	3117.42	1408.72	605.44	243.27	95.76	44.47
15.0	6830.75	6569.15	5407.20	3068.48	1360.01	595.22	238.71	93.29	43.21
30.0	6830.75	6545.12	5356.48	3054.42	1364.19	594.35	241.61	92.77	42.57
45.0	6830.75	6563.47	5364.80	3025.84	1356.19	613.97	253.37	95.41	43.10
60.0	6830.75	6543.56	5339.31	2963.43	1370.03	612.02	254.17	97.60	43.17
75.0	6830.75	6552.87	5333.15	3029.35	1364.66	618.05	249.71	95.34	43.30
90.0	6830.75	6535.40	5328.75	2937.14	1382.89	606.65	248.86	97.86	42.51
105.0	6830.75	6552.87	5333.15	3029.35	1364.66	618.05	249.71	95.34	43.30
120.0	6830.75	6543.56	5339.31	2963.43	1370.03	612.02	254.17	97.60	43.17
135.0	6830.75	6563.47	5364.80	3025.84	1356.19	613.97	253.37	95.41	43.10
150.0	6830.75	6545.12	5356.48	3054.42	1364.19	594.35	241.61	92.77	42.57
165.0	6830.75	6569.15	5407.20	3068.48	1360.01	595.22	238.71	93.29	43.21
180.0	6830.75	6638.64	5421.34	3117.42	1408.72	605.44	243.27	95.76	44.47
195.0	6830.75	6569.15	5407.20	3068.48	1360.01	595.22	238.71	93.29	43.21
210.0	6830.75	6545.12	5356.48	3054.42	1364.19	594.35	241.61	92.77	42.57
225.0	6830.75	6563.47	5364.80	3025.84	1356.19	613.97	253.37	95.41	43.10
240.0	6830.75	6543.56	5339.31	2963.43	1370.03	612.02	254.17	97.60	43.17
255.0	6830.75	6552.87	5333.15	3029.35	1364.66	618.05	249.71	95.34	43.30
270.0	6830.75	6535.40	5328.75	2937.14	1382.89	606.65	248.86	97.86	42.51
285.0	6830.75	6552.87	5333.15	3029.35	1364.66	618.05	249.71	95.34	43.30
300.0	6830.75	6543.56	5339.31	2963.43	1370.03	612.02	254.17	97.60	43.17
315.0	6830.75	6563.47	5364.80	3025.84	1356.19	613.97	253.37	95.41	43.10
330.0	6830.75	6545.12	5356.48	3054.42	1364.19	594.35	241.61	92.77	42.57
345.0	6830.75	6569.15	5407.20	3068.48	1360.01	595.22	238.71	93.29	43.21
360.0	6830.75	6638.64	5421.34	3117.42	1408.72	605.44	243.27	95.76	44.47
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	30.40	24.05	19.96	16.79	14.07	12.25	8.17	3.63	0.91
15.0	30.64	23.78	19.43	16.69	14.63	12.12	8.23	3.66	0.91
30.0	30.25	23.53	19.27	16.36	13.89	11.88	8.07	3.58	0.90
45.0	30.08	23.79	19.53	16.61	14.37	12.12	8.31	3.59	0.90
60.0	30.36	23.83	19.79	16.41	14.17	11.92	8.32	3.15	0.67
75.0	30.51	23.78	19.74	16.38	14.36	12.34	8.30	3.36	0.67
90.0	30.11	23.47	19.48	16.83	14.17	11.96	8.41	3.10	0.89
105.0	30.51	23.78	19.74	16.38	14.36	12.34	8.30	3.36	0.67
120.0	30.36	23.83	19.79	16.41	14.17	11.92	8.32	3.15	0.67
135.0	30.08	23.79	19.53	16.61	14.37	12.12	8.31	3.59	0.90
150.0	30.25	23.53	19.27	16.36	13.89	11.88	8.07	3.58	0.90
165.0	30.64	23.78	19.43	16.69	14.63	12.12	8.23	3.66	0.91
180.0	30.40	24.05	19.96	16.79	14.07	12.25	8.17	3.63	0.91
195.0	30.64	23.78	19.43	16.69	14.63	12.12	8.23	3.66	0.91
210.0	30.25	23.53	19.27	16.36	13.89	11.88	8.07	3.58	0.90
225.0	30.08	23.79	19.53	16.61	14.37	12.12	8.31	3.59	0.90
240.0	30.36	23.83	19.79	16.41	14.17	11.92	8.32	3.15	0.67
255.0	30.51	23.78	19.74	16.38	14.36	12.34	8.30	3.36	0.67
270.0	30.11	23.47	19.48	16.83	14.17	11.96	8.41	3.10	0.89
285.0	30.51	23.78	19.74	16.38	14.36	12.34	8.30	3.36	0.67
300.0	30.36	23.83	19.79	16.41	14.17	11.92	8.32	3.15	0.67
315.0	30.08	23.79	19.53	16.61	14.37	12.12	8.31	3.59	0.90
330.0	30.25	23.53	19.27	16.36	13.89	11.88	8.07	3.58	0.90
345.0	30.64	23.78	19.43	16.69	14.63	12.12	8.23	3.66	0.91
360.0	30.40	24.05	19.96	16.79	14.07	12.25	8.17	3.63	0.91

Intensity data(cd)

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	0.45	0.00
15.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.23
30.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22
45.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
75.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22
165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.23
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.45	0.00
195.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.23
210.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22
225.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
240.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
255.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
270.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
285.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
300.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
315.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
330.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22
345.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.23
360.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.45	0.00
C/ γ (°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	0.91	1.36	2.72	4.08	5.90	7.71	8.62	9.53	10.44
15.0	0.69	1.37	2.97	4.12	6.17	7.77	9.14	9.83	10.52
30.0	0.45	1.34	2.69	4.03	6.50	8.07	8.96	9.63	10.31
45.0	0.45	1.35	2.24	4.26	6.51	8.31	9.20	9.88	10.32
60.0	0.00	0.90	2.25	4.27	6.52	8.32	9.67	10.12	10.34
75.0	0.00	0.90	2.24	4.04	6.73	8.52	9.42	10.32	10.09
90.0	0.00	0.89	2.21	3.99	6.64	8.41	9.30	10.18	9.74
105.0	0.00	0.90	2.24	4.04	6.73	8.52	9.42	10.32	10.09
120.0	0.00	0.90	2.25	4.27	6.52	8.32	9.67	10.12	10.34
135.0	0.45	1.35	2.24	4.26	6.51	8.31	9.20	9.88	10.32
150.0	0.45	1.34	2.69	4.03	6.50	8.07	8.96	9.63	10.31
165.0	0.69	1.37	2.97	4.12	6.17	7.77	9.14	9.83	10.52
180.0	0.91	1.36	2.72	4.08	5.90	7.71	8.62	9.53	10.44
195.0	0.69	1.37	2.97	4.12	6.17	7.77	9.14	9.83	10.52
210.0	0.45	1.34	2.69	4.03	6.50	8.07	8.96	9.63	10.31
225.0	0.45	1.35	2.24	4.26	6.51	8.31	9.20	9.88	10.32
240.0	0.00	0.90	2.25	4.27	6.52	8.32	9.67	10.12	10.34
255.0	0.00	0.90	2.24	4.04	6.73	8.52	9.42	10.32	10.09
270.0	0.00	0.89	2.21	3.99	6.64	8.41	9.30	10.18	9.74
285.0	0.00	0.90	2.24	4.04	6.73	8.52	9.42	10.32	10.09
300.0	0.00	0.90	2.25	4.27	6.52	8.32	9.67	10.12	10.34
315.0	0.45	1.35	2.24	4.26	6.51	8.31	9.20	9.88	10.32
330.0	0.45	1.34	2.69	4.03	6.50	8.07	8.96	9.63	10.31
345.0	0.69	1.37	2.97	4.12	6.17	7.77	9.14	9.83	10.52
360.0	0.91	1.36	2.72	4.08	5.90	7.71	8.62	9.53	10.44

Intensity data(cd)

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C/ γ (°)	180.0
0.0	11.80
15.0	11.89
30.0	11.20
45.0	11.23
60.0	10.79
75.0	10.77
90.0	9.74
105.0	10.77
120.0	10.79
135.0	11.23
150.0	11.20
165.0	11.89
180.0	11.80
195.0	11.89
210.0	11.20
225.0	11.23
240.0	10.79
255.0	10.77
270.0	9.74
285.0	10.77
300.0	10.79
315.0	11.23
330.0	11.20
345.0	11.89
360.0	11.80