

浙大三色

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## ROLED

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灯具名称: 投光灯

灯具描述: F1123A-5-24DC-RC-Y(55-XL-5RGBWN-AJ, CT)

报告编号:

电压(V): 23.7000

测试编号: 20210414004

电流(A): 0.8870

光源规格型号: XL

功率(W): 21.1000

每个光源光通量(lm)

功率因数: 1.0230

光源数量: 5

镇流器型号:

发光面长度(mm): 112

发光面宽度(mm): 112

测试模式: C

发光面高度(mm): 0

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## 光度结果

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灯具光通量(lm): 1017.19

灯具效能(lm/w): 48.21

中心光强(cd): 938.578

最大光强(cd): 945.714

最大光强角度:  $C=30.0$   $\gamma=0.0$

半峰边角(50%Imax): [C0/180]Total=55.1

[C90/270]Total=55.1

光束扩散角(10%Imax): [C0/180]Total=103.8

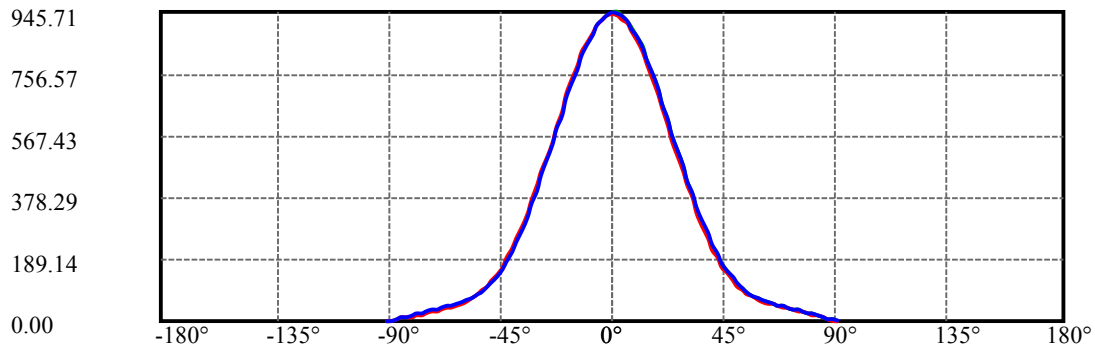
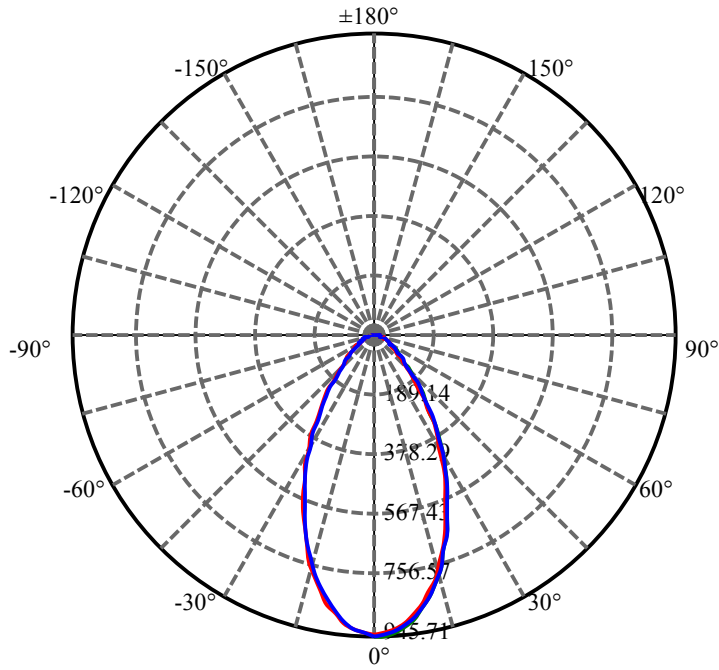
[C90/270]Total=104.3

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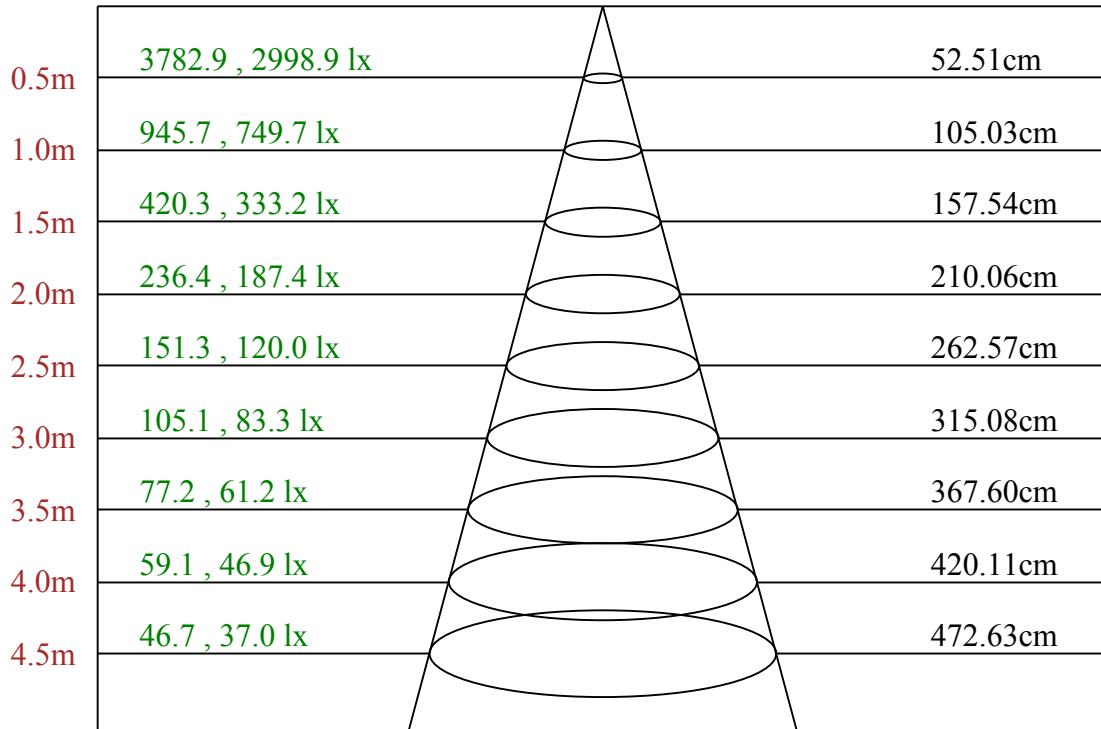
测试设备: GMS1800  
环境温度(°C): 25.0

测试日期: 2021/4/14  
环境湿度(%): 60.0%

测试人员: anpeilou  
测试距离(m): 8.76

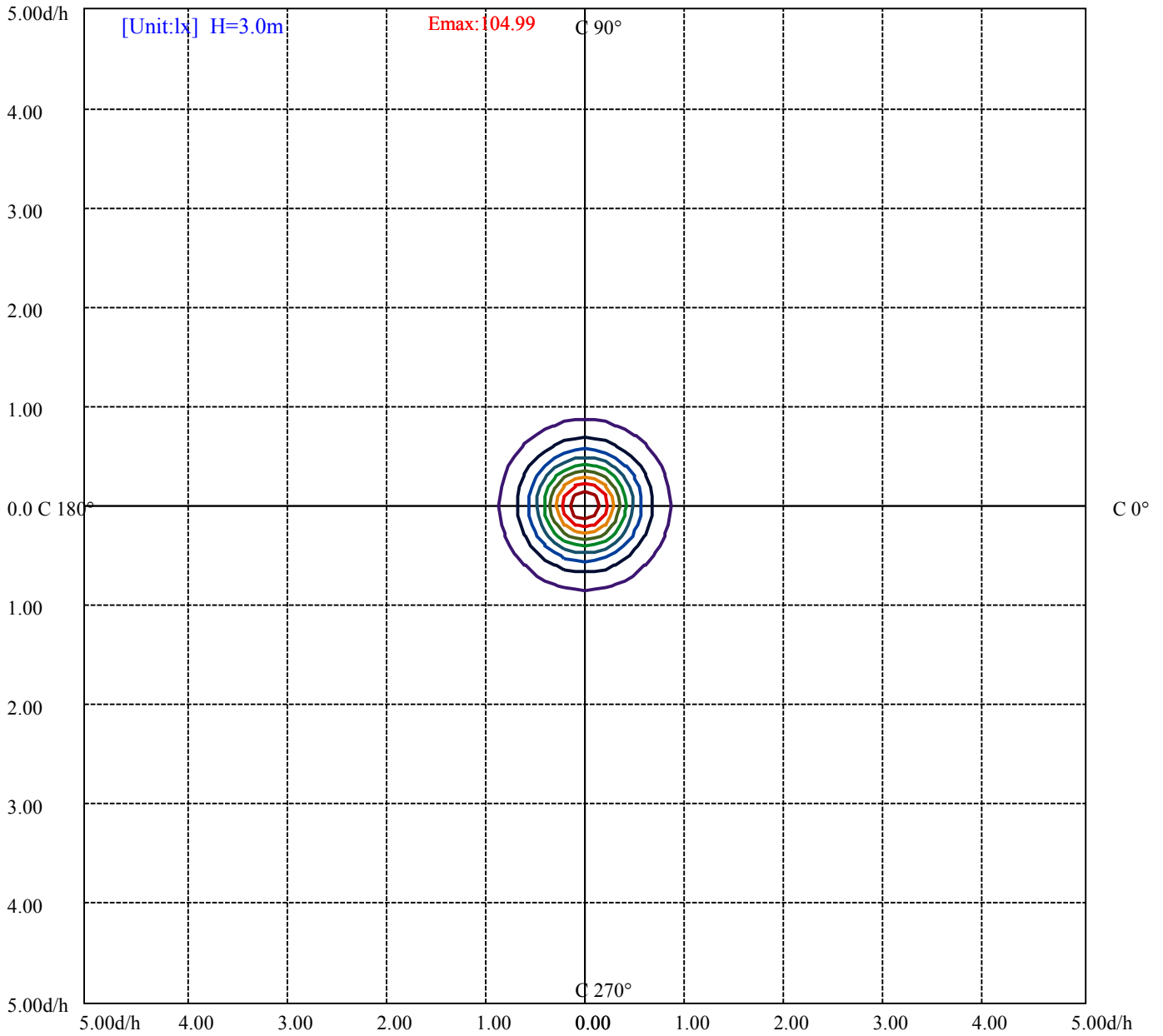


C30(Max): —  
C0/C180: —  
C90/C270: —



Max , Ave    C30面光束角55.41

ROLED 投光灯  
平面等照度曲线



- (10%Emax) 10.4994
- (20%Emax) 20.99878
- (30%Emax) 31.49822
- (40%Emax) 41.99767
- (50%Emax) 52.497
- (60%Emax) 62.99644
- (70%Emax) 73.49589
- (80%Emax) 83.99522
- (90%Emax) 94.49467

测试设备: GMS1800  
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测试人员: anpeilou  
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# ROLED 投光灯

## 灯具的亮度限制曲线(灯具无发光侧边)

亮度值表

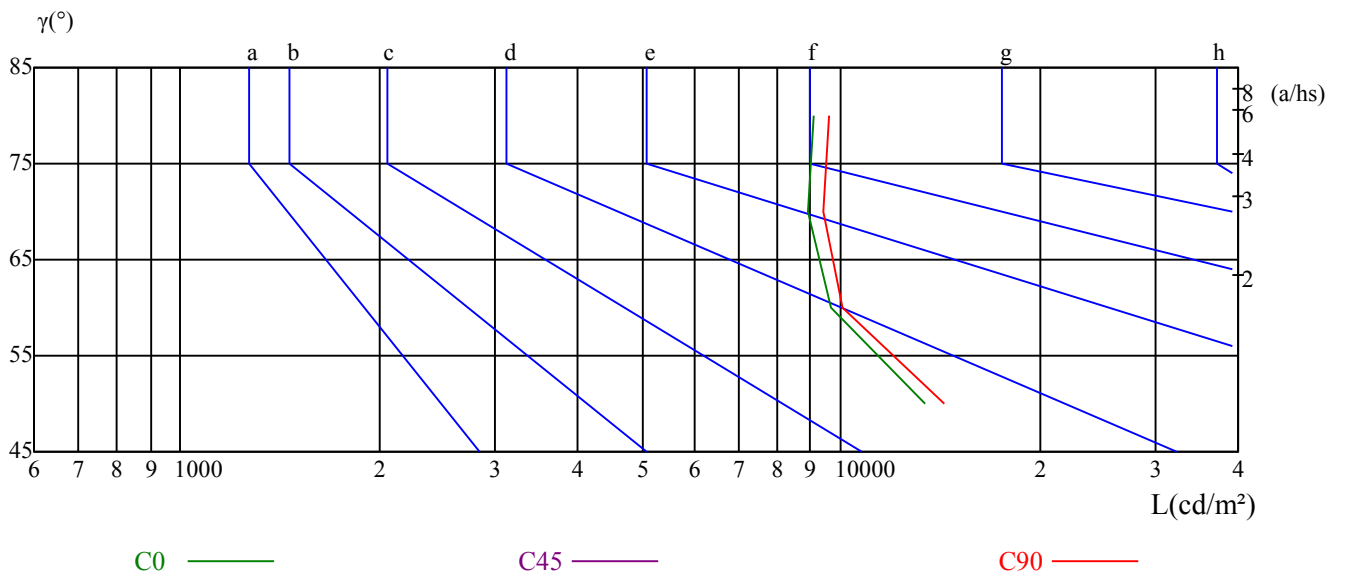
$\gamma$	45	50	55	60	65	70	75	80	85
C0	0	13438	0	9690	0	8925	0	9089	0
C45	0	0	0	0	0	0	0	0	0
C90	0	14333	0	10082	0	9444	0	9582	0

L横(65)	L纵(65)	L45(65)	L横(75)	L纵(75)	L45(75)	L横(85)	L纵(85)	L45(85)
0	0	0	0	0	0	0	0	0

眩光等级表

眩光等级	质量等级	使用照度(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

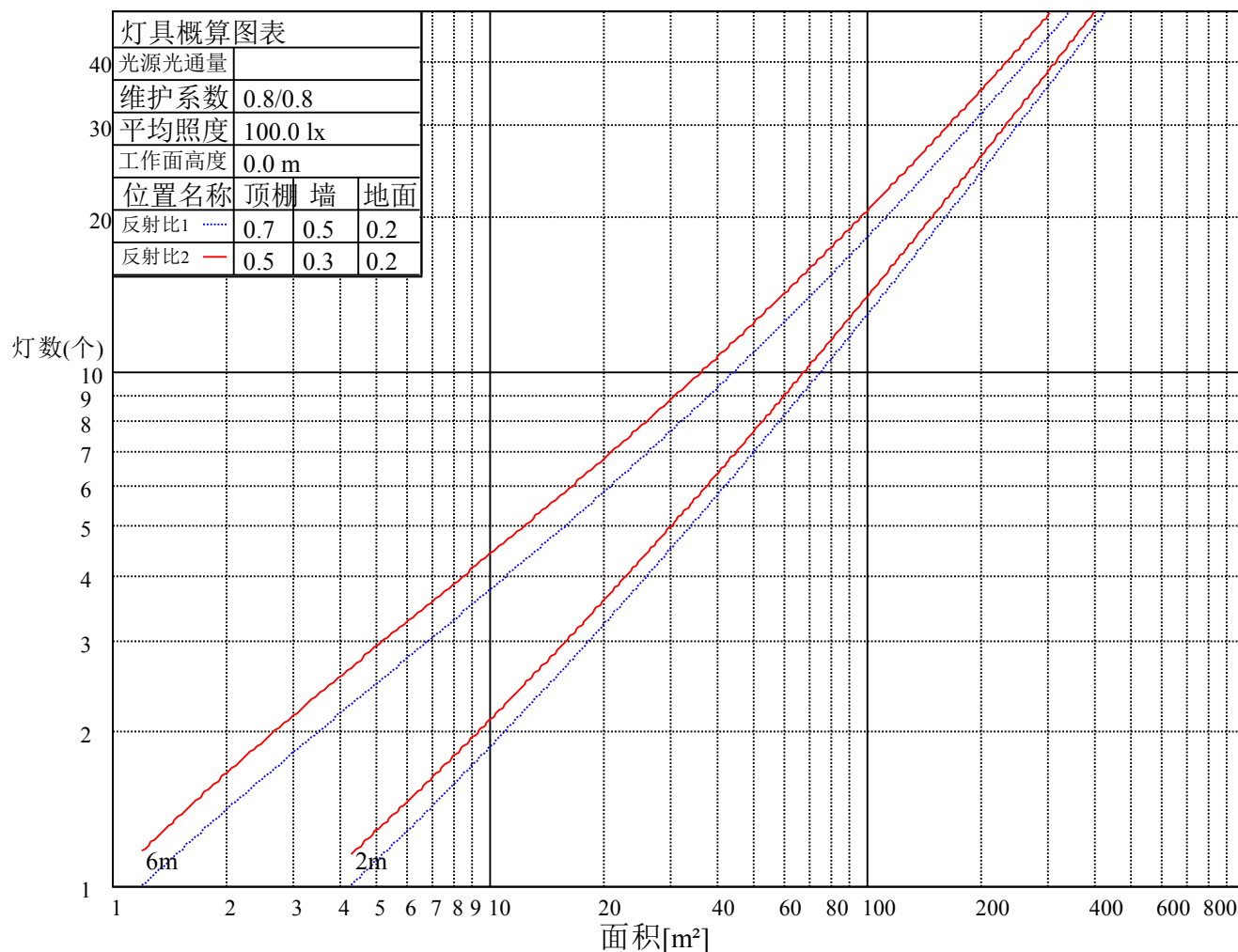
亮度限制曲线



参照UGR的照射评估											
天花板反射率	70	70	50	50	30	70	70	50	50	30	
墙壁反射率	50	30	50	30	30	50	30	50	30	30	
地板反射率	20	20	20	20	20	20	20	20	20	20	
空间尺寸	Viewed crosswise					Viewed endwise					
X	Y										
2H	2H	17.64	18.91	18.00	19.23	19.54	17.54	18.82	17.91	19.13	19.44
	3H	19.30	20.44	19.68	20.77	21.13	19.10	20.23	19.48	20.56	20.93
	4H	20.01	21.07	20.42	21.43	21.81	19.72	20.78	20.12	21.13	21.51
	6H	20.61	21.59	21.03	21.96	22.35	20.24	21.21	20.65	21.58	21.98
	8H	20.83	21.75	21.26	22.15	22.55	20.43	21.35	20.86	21.74	22.15
	12H	21.10	21.99	21.54	22.37	22.80	20.68	21.56	21.11	21.94	22.37
4H	2H	18.14	19.20	18.55	19.56	19.94	18.07	19.13	18.47	19.48	19.86
	3H	20.06	20.93	20.47	21.34	21.74	19.91	20.79	20.33	21.19	21.59
	4H	20.91	21.70	21.35	22.12	22.56	20.70	21.48	21.13	21.90	22.34
	6H	21.53	22.21	22.00	22.66	23.12	21.24	21.92	21.71	22.37	22.83
	8H	21.82	22.45	22.29	22.90	23.37	21.50	22.13	21.97	22.58	23.05
	12H	22.12	22.67	22.60	23.16	23.63	21.77	22.33	22.26	22.81	23.29
8H	4H	21.22	21.86	21.69	22.30	22.78	21.03	21.67	21.50	22.11	22.59
	6H	22.02	22.54	22.52	23.03	23.52	21.78	22.30	22.29	22.80	23.28
	8H	22.40	22.87	22.93	23.38	23.87	22.14	22.61	22.67	23.12	23.62
	12H	23.13	23.54	23.65	24.04	24.61	22.87	23.27	23.38	23.77	24.34
12H	4H	21.25	21.81	21.74	22.30	22.77	21.07	21.63	21.55	22.11	22.59
	6H	22.69	22.57	22.63	23.03	23.58	22.46	22.34	22.40	22.81	23.35
	8H	22.55	22.95	23.06	23.45	24.02	22.30	22.71	22.82	23.20	23.78
对应照射距离，改变观察者位置S											
S = 1.0H	0.6/-0.9					0.6/-1.0					
S = 1.5H	1.1/-1.2					1.2/-1.2					
S = 2.0H	2.2/-1.1					2.2/-1.2					
标准表格	BK3					BK4					
更正系数	4.7					5.1					

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## 灯具的概算曲线



RHOCC	80			70			50			30			10			0
RHOW	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	COEFFICIENTS OF UTILIZATION RHOFC=20 CU															
0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1	1.08	1.05	1.02	1.06	1.03	1.00	1.02	0.99	0.97	0.98	0.96	0.94	0.94	0.93	0.91	0.89
2	0.98	0.93	0.88	0.96	0.91	0.87	0.93	0.89	0.85	0.90	0.86	0.84	0.87	0.84	0.82	0.80
3	0.89	0.83	0.78	0.88	0.82	0.77	0.85	0.80	0.76	0.83	0.78	0.75	0.80	0.77	0.74	0.72
4	0.82	0.75	0.70	0.81	0.74	0.70	0.78	0.73	0.69	0.76	0.72	0.68	0.74	0.70	0.67	0.65
5	0.76	0.69	0.63	0.75	0.68	0.63	0.73	0.67	0.62	0.71	0.66	0.62	0.69	0.65	0.61	0.59
6	0.70	0.63	0.58	0.69	0.62	0.57	0.68	0.62	0.57	0.66	0.61	0.57	0.65	0.60	0.56	0.55
7	0.65	0.58	0.53	0.64	0.58	0.53	0.63	0.57	0.53	0.62	0.56	0.52	0.60	0.56	0.52	0.50
8	0.61	0.54	0.49	0.60	0.53	0.49	0.59	0.53	0.49	0.58	0.52	0.48	0.57	0.52	0.48	0.47
9	0.57	0.50	0.45	0.56	0.50	0.45	0.55	0.49	0.45	0.54	0.49	0.45	0.53	0.48	0.45	0.43
10	0.53	0.47	0.42	0.53	0.47	0.42	0.52	0.46	0.42	0.51	0.46	0.42	0.50	0.46	0.42	0.40



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光强数据表(cd)

C/γ(°)	0.0	2.0	4.0	6.0	8.0	10.0	12.0	14.0	16.0
0.0	938.58	934.89	924.38	908.19	885.86	857.08	822.55	785.87	742.44
30.0	945.71	943.41	934.51	919.09	898.75	869.51	838.05	798.99	757.48
60.0	944.18	942.03	931.13	915.48	892.38	865.68	832.37	793.24	752.18
90.0	942.87	941.34	931.67	916.55	894.38	866.44	835.52	798.15	755.48
120.0	941.26	938.35	928.29	910.80	887.70	860.31	827.85	788.48	747.12
150.0	939.81	937.50	927.99	911.41	889.01	860.15	828.92	790.70	747.19
180.0	938.58	934.89	923.31	905.50	883.10	853.63	819.79	781.73	737.91
210.0	945.71	940.57	927.99	909.26	884.40	853.63	819.94	779.88	734.76
240.0	944.18	939.27	926.91	908.11	883.25	854.32	818.02	778.20	733.00
270.0	942.87	936.20	921.85	902.05	877.34	845.42	809.43	770.45	725.48
300.0	941.26	935.89	923.92	904.20	879.64	851.10	814.57	777.97	734.15
330.0	939.81	934.36	921.54	902.74	878.03	849.02	813.80	773.90	731.23
360.0	938.58	934.89	924.38	908.19	885.86	857.08	822.55	785.87	742.44
C/γ(°)	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0
0.0	694.94	649.35	599.47	552.74	504.86	460.81	415.15	373.17	329.20
30.0	711.13	663.01	616.36	568.09	520.43	473.62	430.19	385.30	343.02
60.0	706.14	656.80	607.22	561.57	514.45	470.86	426.28	381.62	337.88
90.0	710.21	664.32	615.21	569.09	521.74	475.08	430.34	388.37	344.40
120.0	701.07	651.66	602.16	556.50	510.07	466.95	423.44	379.70	336.72
150.0	703.99	655.72	608.76	560.95	513.99	468.25	424.36	382.61	339.03
180.0	691.48	642.29	595.48	548.29	501.48	458.51	414.15	369.57	326.67
210.0	690.33	641.99	594.49	546.99	500.02	452.60	410.32	365.50	321.61
240.0	687.03	639.38	590.27	544.76	499.72	454.13	409.40	367.57	323.68
270.0	681.20	631.17	584.66	537.78	493.42	446.46	402.26	359.90	316.54
300.0	688.87	640.76	590.50	544.38	498.95	452.98	407.71	366.12	322.45
330.0	685.11	639.99	590.80	543.84	496.65	449.15	406.48	361.74	320.23
360.0	694.94	649.35	599.47	552.74	504.86	460.81	415.15	373.17	329.20
C/γ(°)	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0
0.0	288.38	254.31	219.39	191.84	166.52	144.73	125.01	108.35	94.62
30.0	302.27	264.67	230.29	199.90	174.50	150.87	131.53	113.73	98.68
60.0	297.13	261.83	228.22	199.82	173.27	150.18	130.07	113.42	98.45
90.0	303.96	268.27	233.82	203.43	176.57	154.24	133.52	115.57	100.83
120.0	298.43	261.21	227.60	199.06	172.51	149.41	129.30	112.65	97.69
150.0	300.81	263.06	228.98	198.83	173.73	150.33	130.15	113.42	98.45
180.0	288.84	252.08	220.93	191.77	165.98	143.35	124.47	106.97	91.78
210.0	284.39	248.32	214.87	186.70	162.84	140.51	121.78	106.28	92.39
240.0	285.31	249.32	216.25	187.24	163.53	140.89	121.63	106.44	92.32
270.0	277.79	242.18	210.87	183.10	158.31	137.67	119.10	102.91	89.55
300.0	284.08	248.55	215.56	188.24	162.07	140.74	121.40	106.20	92.09
330.0	281.40	245.56	212.64	186.09	161.07	138.97	121.25	104.98	91.78
360.0	288.38	254.31	219.39	191.84	166.52	144.73	125.01	108.35	94.62
C/γ(°)	54.0	56.0	58.0	60.0	62.0	64.0	66.0	68.0	70.0
0.0	83.11	74.13	66.45	60.78	55.63	51.11	46.73	42.51	38.29
30.0	86.94	77.12	69.22	62.69	57.63	52.87	48.65	44.12	40.21
60.0	86.33	76.97	68.91	62.46	57.02	52.34	47.96	43.74	39.60
90.0	88.09	78.27	69.91	63.23	57.86	53.18	48.88	44.66	40.52
120.0	85.64	76.20	68.37	61.93	56.63	52.10	47.73	43.59	39.37
150.0	86.64	76.28	68.83	62.39	57.25	52.49	48.19	43.97	39.75
180.0	80.11	69.68	61.16	54.41	48.96	43.66	39.75	35.91	31.85
210.0	81.96	73.05	65.76	59.93	55.17	50.49	46.35	42.13	37.91
240.0	81.11	72.36	65.30	59.39	54.56	50.19	45.81	41.67	37.52
270.0	79.58	70.91	64.23	58.63	53.64	49.11	45.20	40.98	36.83
300.0	81.03	72.67	65.30	59.55	54.56	50.11	45.89	41.67	37.52
330.0	80.50	72.21	65.07	59.55	54.56	50.03	46.12	41.82	37.68
360.0	83.11	74.13	66.45	60.78	55.63	51.11	46.73	42.51	38.29

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## 光强数据表(cd)

附页 第 10页 共10页

C/γ(°)	72.0	74.0	76.0	78.0	80.0	82.0	84.0	86.0	88.0
0.0	34.61	30.85	27.01	23.48	19.80	15.73	11.51	6.75	2.07
30.0	36.14	32.38	28.55	24.63	21.03	16.96	12.66	8.06	2.99
60.0	35.61	31.69	27.78	24.25	20.41	16.65	12.51	7.98	3.07
90.0	36.45	32.54	28.55	24.94	20.87	17.04	12.97	8.67	3.99
120.0	35.38	31.46	27.70	23.87	19.95	16.35	12.35	7.83	3.15
150.0	35.61	31.77	28.16	24.25	20.49	16.65	12.51	7.90	2.00
180.0	26.86	22.10	19.72	17.88	13.97	11.13	9.06	5.29	1.84
210.0	34.22	30.16	26.40	22.71	18.80	14.96	10.90	5.99	1.46
240.0	33.76	30.08	26.47	22.64	18.88	14.89	10.59	5.83	0.92
270.0	33.15	29.24	25.63	21.64	17.88	13.89	9.75	4.60	0.23
300.0	33.69	29.93	26.01	22.41	18.57	14.58	10.36	5.45	0.54
330.0	33.92	30.00	26.24	22.33	18.57	14.58	10.44	5.37	0.46
360.0	34.61	30.85	27.01	23.48	19.80	15.73	11.51	6.75	2.07
C/γ(°)	90.0								
0.0	0.00								
30.0	0.08								
60.0	0.08								
90.0	0.08								
120.0	0.15								
150.0	0.08								
180.0	0.08								
210.0	0.00								
240.0	0.00								
270.0	0.00								
300.0	0.08								
330.0	0.00								
360.0	0.00								