

浙大三色

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## ROLED

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灯具名称: 投光灯

灯具描述: F1121A-1-24DC-RC-Y (55-XL-1RGBWN-AJ, P4)

报告编号:

电压(V): 24.1000

测试编号: 20210412009

电流(A): 0.2390

光源规格型号: XL

功率(W): 5.7000

每个光源光通量(lm)

功率因数: 1.0240

光源数量: 1

镇流器型号:

发光面长度(mm): 50

发光面宽度(mm): 50

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): 211.11

灯具效能(lm/w): 37.04

中心光强(cd): 202.511

最大光强(cd): 203.662

最大光强角度:  $C=30.0$   $\gamma=0.0$

半峰边角(50%Imax): [C0/180]Total=55.0

[C90/270]Total=54.9

光束扩散角(10%Imax): [C0/180]Total=103.9

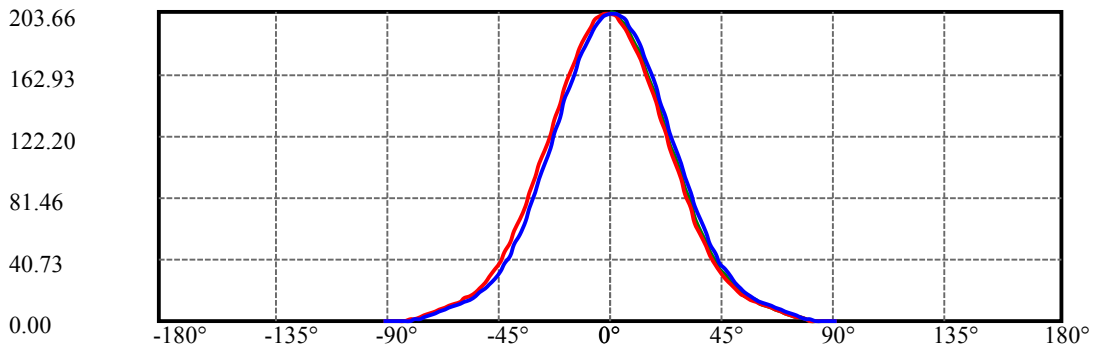
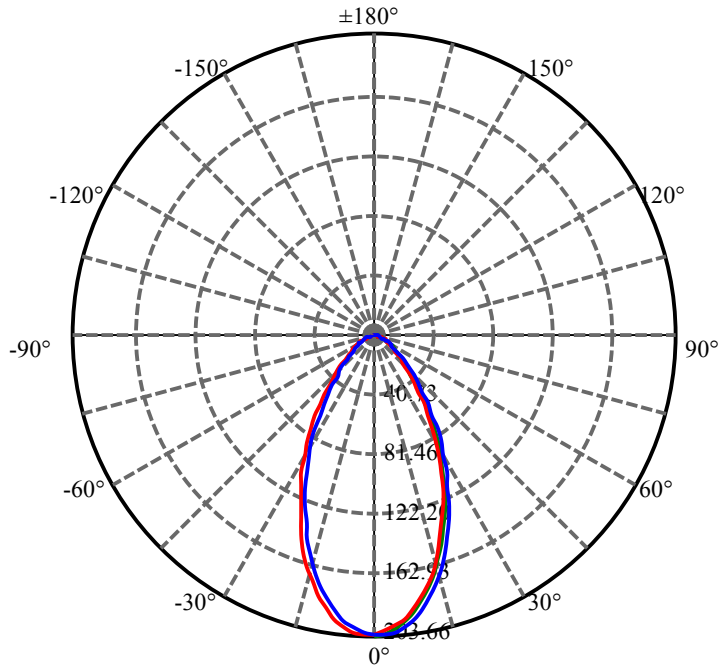
[C90/270]Total=103.8

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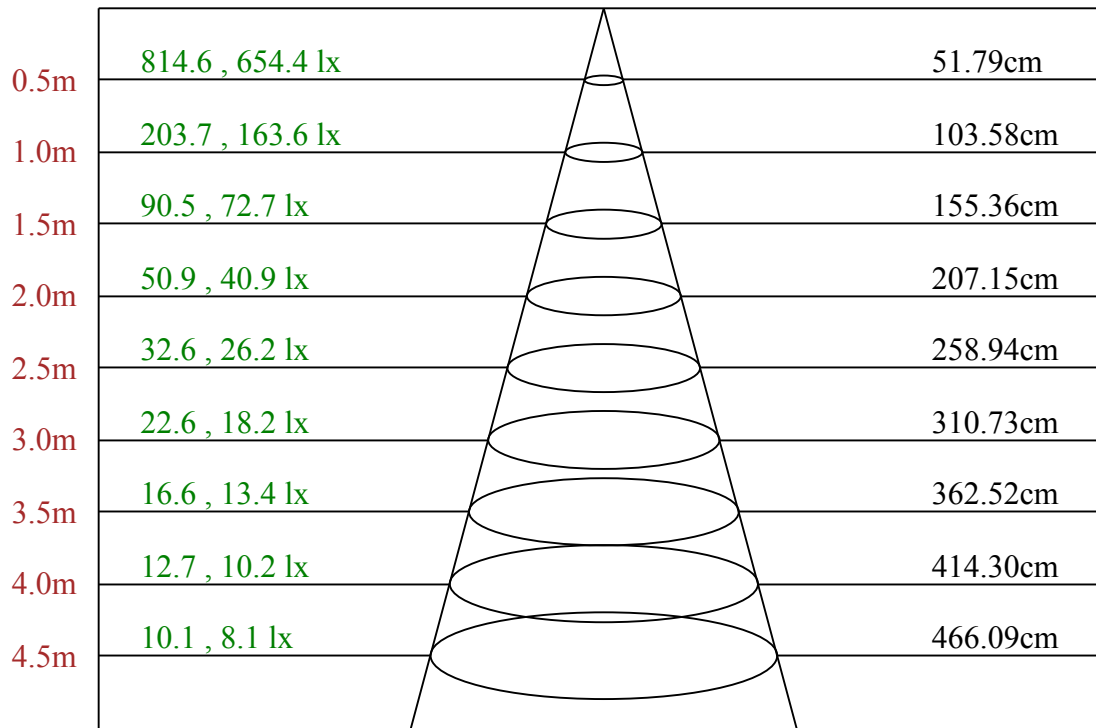
测试设备: GMS1800  
环境温度(°C): 25.0

测试日期: 2021/4/12  
环境湿度(%): 60.0%

测试人员: anpeilou  
测试距离(m): 8.76

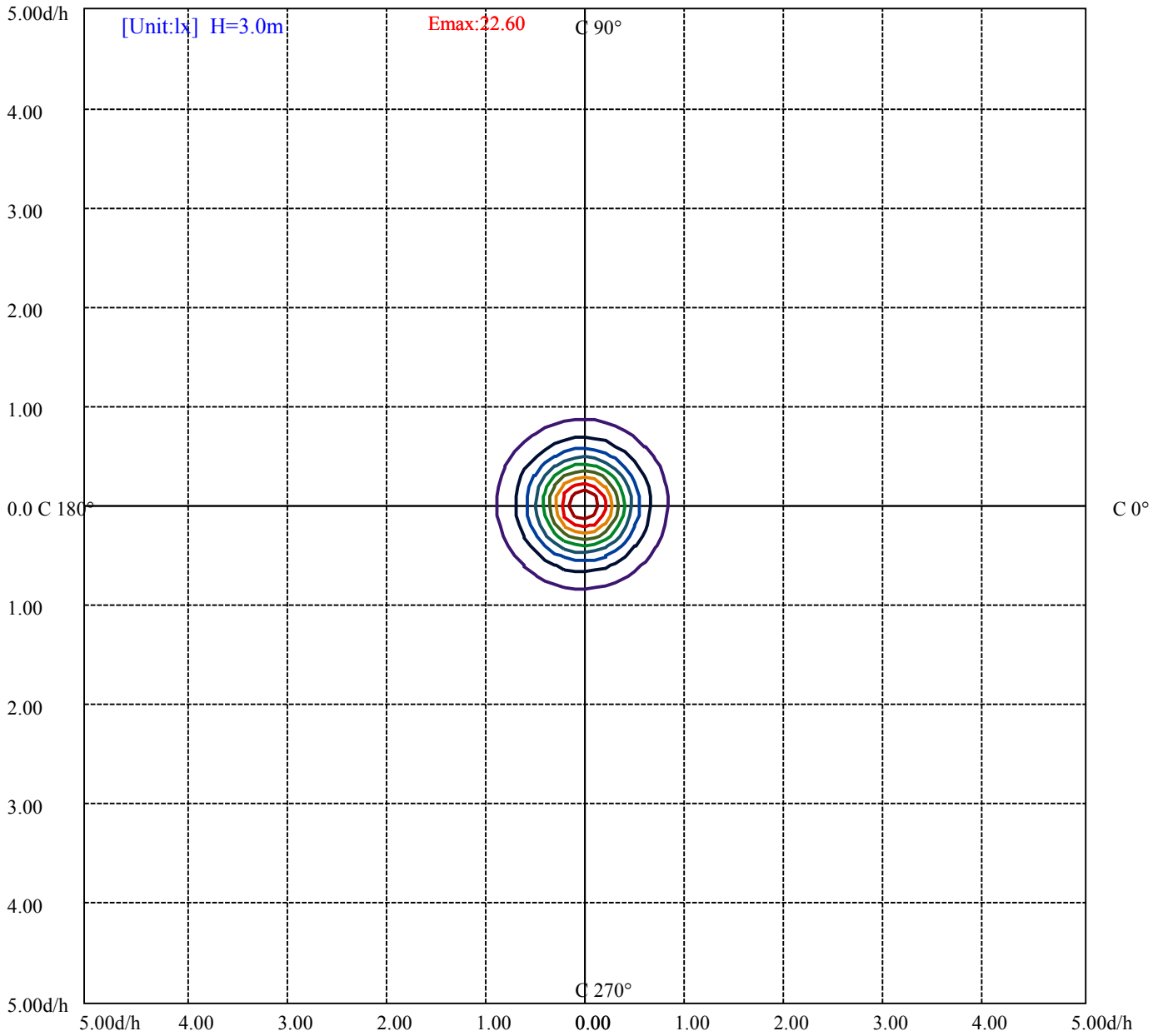


C30(Max): —  
C0/C180: —  
C90/C270: —



Max , Ave    C30面光束角54.76

ROLED 投光灯  
平面等照度曲线



- (10%Emax) 2.259922
- (20%Emax) 4.519845
- (30%Emax) 6.779767
- (40%Emax) 9.039678
- (50%Emax) 11.29956
- (60%Emax) 13.55956
- (70%Emax) 15.81944
- (80%Emax) 18.07933
- (90%Emax) 20.33933

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

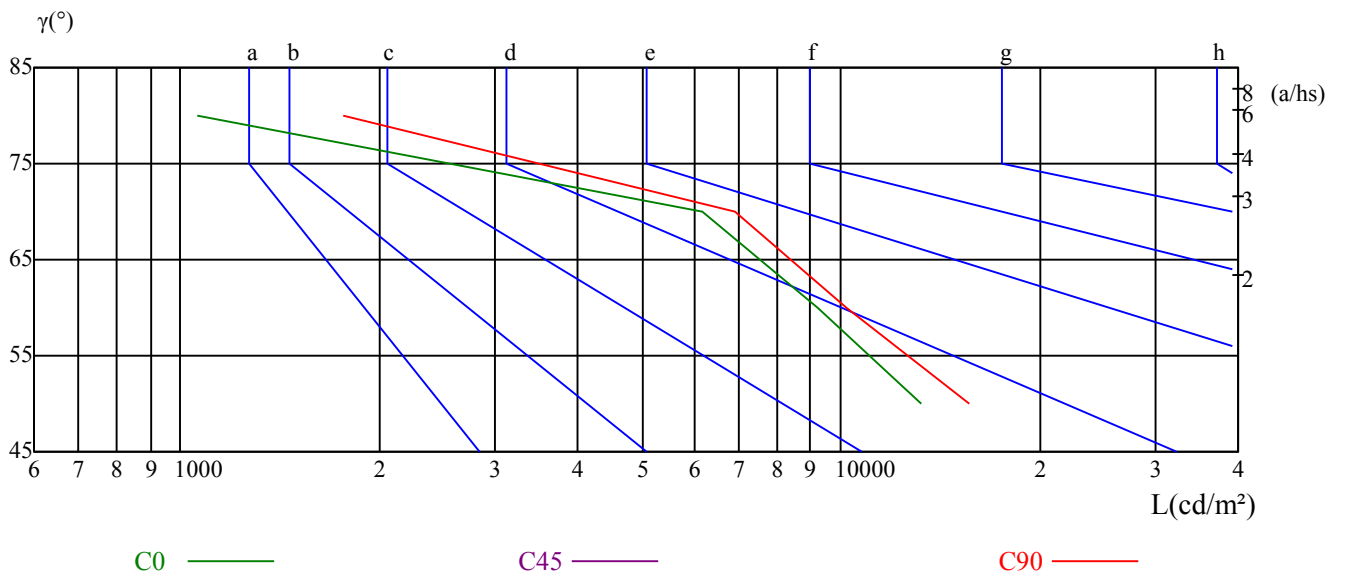
$\gamma$	45	50	55	60	65	70	75	80	85
C0	0	13228	0	9209	0	6192	0	1061	0
C45	0	0	0	0	0	0	0	0	0
C90	0	15615	0	10191	0	6910	0	1768	0

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

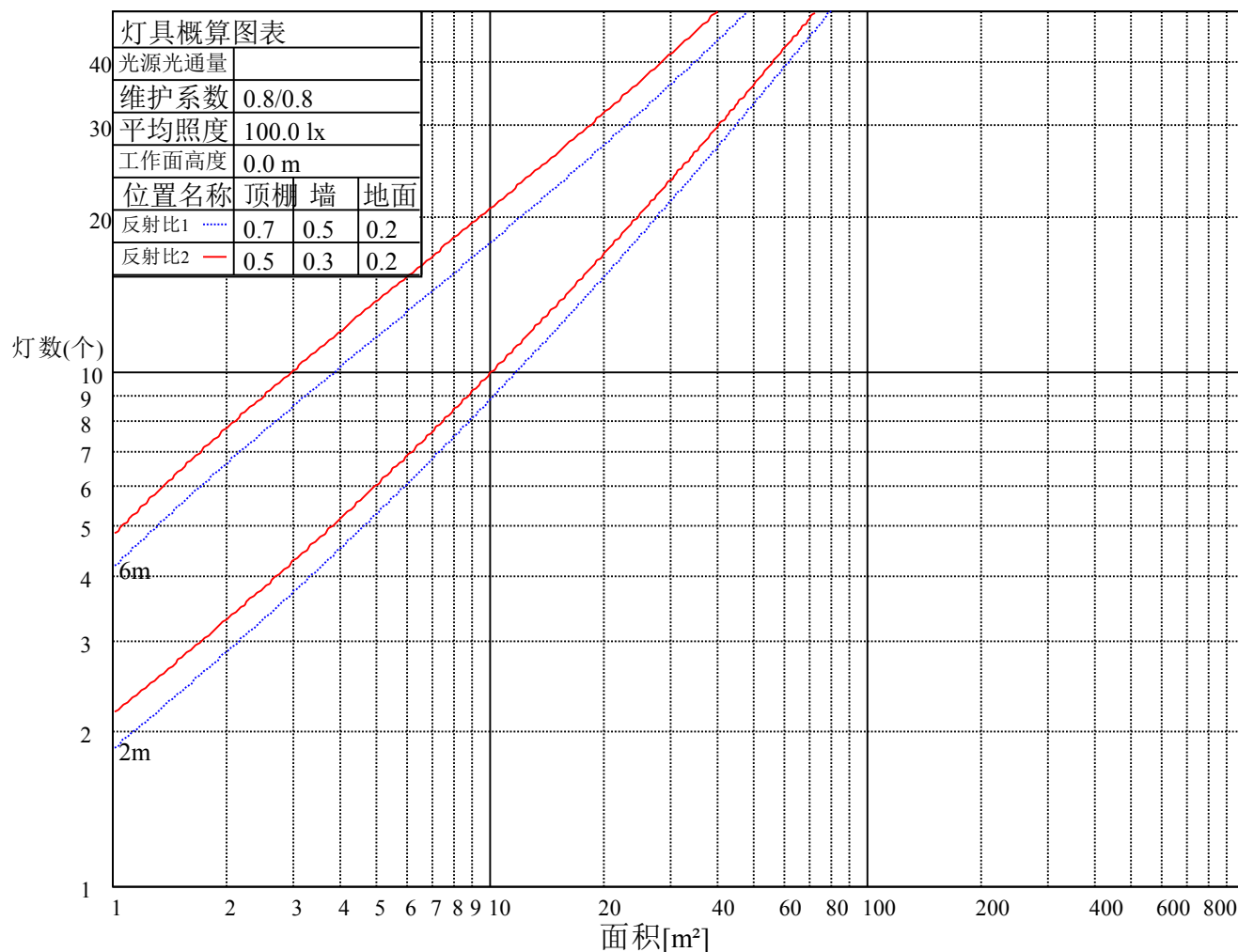
亮度限制曲线



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	23.20	24.43	23.56	24.75	25.06	23.24	24.47	23.60	24.78	25.10
	3H	24.22	25.32	24.60	25.65	26.01	24.27	25.36	24.65	25.69	26.06
	4H	24.41	25.42	24.81	25.77	26.16	24.47	25.48	24.87	25.83	26.22
	6H	24.40	25.33	24.82	25.71	26.10	24.47	25.40	24.88	25.77	26.17
	8H	24.37	25.25	24.80	25.64	26.04	24.43	25.31	24.86	25.70	26.11
	12H	24.34	25.18	24.77	25.56	25.99	24.40	25.24	24.83	25.63	26.06
4H	2H	23.56	24.58	23.97	24.93	25.31	23.59	24.61	24.00	24.96	25.35
	3H	24.73	25.56	25.15	25.97	26.37	24.77	25.59	25.18	26.00	26.40
	4H	24.96	25.70	25.39	26.12	26.56	25.00	25.74	25.44	26.16	26.61
	6H	24.97	25.61	25.44	26.05	26.52	25.02	25.66	25.49	26.11	26.57
	8H	24.93	25.52	25.40	25.97	26.44	24.98	25.57	25.45	26.02	26.49
	12H	24.90	25.42	25.39	25.90	26.38	24.95	25.47	25.44	25.95	26.43
8H	4H	24.97	25.56	25.44	26.01	26.48	25.01	25.61	25.48	26.05	26.53
	6H	24.98	25.46	25.49	25.96	26.44	25.03	25.51	25.54	26.01	26.49
	8H	24.95	25.37	25.47	25.89	26.38	25.00	25.42	25.52	25.94	26.44
	12H	25.68	26.05	26.19	26.54	27.12	25.72	26.10	26.24	26.59	27.17
12H	4H	24.92	25.44	25.41	25.93	26.40	24.97	25.49	25.46	25.97	26.45
	6H	25.43	25.36	25.47	25.83	26.38	25.48	25.41	25.52	25.88	26.43
	8H	24.92	25.29	25.43	25.79	26.36	24.97	25.34	25.48	25.84	26.41
对应照射距离，改变观察者位置S											
S = 1.0H	0.8/-1.2					0.8/-1.3					
S = 1.5H	2.0/-2.0					1.9/-2.1					
S = 2.0H	4.2/-2.6					4.0/-2.7					
标准表格	BK2					BK2					
更正系数	3.0					2.6					

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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	1.09	1.06	1.03	1.07	1.04	1.02	1.03	1.00	0.98	0.99	0.97	0.95	0.95	0.94	0.93	0.91
2	0.99	0.94	0.90	0.98	0.93	0.89	0.94	0.91	0.87	0.91	0.88	0.85	0.88	0.86	0.84	0.82
3	0.91	0.85	0.80	0.89	0.84	0.79	0.87	0.82	0.78	0.84	0.80	0.77	0.82	0.79	0.76	0.74
4	0.84	0.77	0.72	0.82	0.76	0.71	0.80	0.75	0.71	0.78	0.73	0.70	0.76	0.72	0.69	0.67
5	0.77	0.70	0.65	0.76	0.70	0.65	0.74	0.69	0.64	0.72	0.67	0.64	0.71	0.66	0.63	0.61
6	0.71	0.64	0.59	0.71	0.64	0.59	0.69	0.63	0.59	0.67	0.62	0.58	0.66	0.62	0.58	0.56
7	0.66	0.60	0.55	0.66	0.59	0.54	0.64	0.58	0.54	0.63	0.58	0.54	0.62	0.57	0.54	0.52
8	0.62	0.55	0.51	0.61	0.55	0.50	0.60	0.54	0.50	0.59	0.54	0.50	0.58	0.53	0.50	0.48
9	0.58	0.51	0.47	0.58	0.51	0.47	0.57	0.51	0.47	0.56	0.50	0.46	0.55	0.50	0.46	0.45
10	0.55	0.48	0.44	0.54	0.48	0.44	0.53	0.48	0.44	0.52	0.47	0.43	0.52	0.47	0.43	0.42



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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	202.51	200.52	196.91	192.61	186.86	180.03	172.12	163.99	154.32
30.0	203.66	202.05	199.06	194.76	189.54	182.79	175.58	166.90	157.47
60.0	203.12	201.97	199.52	195.68	190.92	184.55	177.34	169.28	160.00
90.0	202.97	202.59	200.98	198.21	193.53	187.93	180.95	173.20	164.30
120.0	202.74	202.97	201.59	198.83	194.22	188.31	181.94	174.04	165.06
150.0	202.51	203.12	202.13	199.52	194.99	189.16	182.71	174.96	166.67
180.0	202.51	202.89	201.44	198.21	193.38	187.39	180.18	171.66	163.07
210.0	203.66	203.28	201.13	197.68	193.00	186.47	178.95	170.05	160.69
240.0	203.12	202.36	200.05	196.37	191.23	184.78	177.11	168.06	158.77
270.0	202.97	201.21	198.14	193.76	188.31	181.41	173.58	164.99	154.86
300.0	202.74	200.82	197.75	193.30	188.39	182.10	174.58	165.75	156.39
330.0	202.51	199.98	196.68	192.15	186.47	180.26	172.51	163.60	153.32
360.0	202.51	200.52	196.91	192.61	186.86	180.03	172.12	163.99	154.32
C/γ(°)	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0
0.0	144.57	134.37	123.78	113.26	103.60	93.39	83.11	74.05	65.07
30.0	148.03	137.44	126.85	116.49	106.90	96.77	87.02	77.81	68.53
60.0	150.10	139.59	129.69	119.10	108.43	98.61	88.71	79.04	69.98
90.0	154.63	144.65	133.75	123.39	113.34	103.98	94.31	84.72	75.51
120.0	155.55	145.80	135.37	124.78	114.72	104.44	95.15	85.10	76.12
150.0	157.01	146.88	136.52	126.54	116.41	106.59	97.53	88.17	79.27
180.0	153.48	143.12	132.60	122.78	112.88	103.67	94.54	85.18	75.97
210.0	150.48	139.97	129.76	119.71	110.27	100.22	90.93	81.65	72.67
240.0	148.41	138.36	127.54	117.02	107.89	97.99	88.25	78.81	70.06
270.0	145.03	134.60	123.85	113.73	103.52	93.93	84.33	75.05	65.76
300.0	145.49	134.60	124.01	113.11	102.91	92.62	82.95	73.51	64.46
330.0	143.19	132.30	121.63	111.04	100.76	90.63	81.27	71.60	62.69
360.0	144.57	134.37	123.78	113.26	103.60	93.39	83.11	74.05	65.07
C/γ(°)	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0
0.0	56.79	49.50	42.97	37.14	32.31	27.93	24.17	21.26	18.34
30.0	60.09	52.41	45.81	39.60	34.15	29.85	25.86	22.41	19.41
60.0	62.00	54.25	47.42	41.21	35.68	30.93	26.93	23.17	20.03
90.0	66.61	58.24	51.18	44.43	38.52	33.61	29.08	25.09	21.79
120.0	67.38	59.63	52.10	45.28	39.75	34.46	29.85	25.71	22.33
150.0	70.21	61.77	54.02	47.12	41.21	35.76	31.23	26.86	23.02
180.0	67.61	59.39	51.72	45.43	39.37	34.30	29.47	25.48	21.95
210.0	64.31	56.48	49.57	43.05	37.52	32.54	28.39	24.48	21.26
240.0	61.47	54.10	46.58	40.75	35.53	30.93	26.63	23.10	20.03
270.0	57.48	50.26	43.43	37.68	32.69	28.39	24.56	21.41	18.57
300.0	56.63	49.34	42.74	37.06	32.46	28.09	24.33	21.41	18.57
330.0	55.02	47.81	41.28	35.99	31.39	27.09	23.48	20.57	17.88
360.0	56.79	49.50	42.97	37.14	32.31	27.93	24.17	21.26	18.34
C/γ(°)	54.0	56.0	58.0	60.0	62.0	64.0	66.0	68.0	70.0
0.0	16.27	14.35	12.82	11.51	10.13	8.98	7.83	6.68	5.29
30.0	16.96	15.04	13.35	11.89	10.59	9.29	8.06	6.75	5.53
60.0	17.57	15.58	13.66	12.05	10.67	9.36	8.21	6.91	5.60
90.0	18.80	16.42	14.43	12.74	11.20	9.82	8.67	7.37	5.91
120.0	19.26	16.88	14.81	12.97	11.28	9.90	8.75	7.37	6.14
150.0	19.88	17.27	15.12	13.20	11.59	10.28	8.98	7.75	6.29
180.0	19.11	16.65	14.66	12.89	11.36	9.90	8.67	7.37	6.14
210.0	18.49	16.27	14.35	12.66	11.20	9.82	8.75	7.44	5.91
240.0	17.34	15.35	13.66	12.12	10.74	9.44	8.29	7.06	5.76
270.0	16.27	14.35	12.82	11.43	10.21	8.98	7.75	6.52	5.22
300.0	16.42	14.50	13.05	11.66	10.36	9.06	7.98	6.75	5.37
330.0	15.73	13.97	12.51	11.13	9.98	8.75	7.60	6.29	4.91
360.0	16.27	14.35	12.82	11.51	10.13	8.98	7.83	6.68	5.29

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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	3.99	2.92	1.92	1.00	0.46	0.46	0.31	0.23	0.08
30.0	4.22	3.15	2.23	1.15	0.54	0.38	0.31	0.23	0.08
60.0	4.37	3.30	2.38	1.23	0.61	0.46	0.31	0.31	0.15
90.0	4.68	3.45	2.61	1.61	0.77	0.38	0.38	0.23	0.15
120.0	4.76	3.61	2.61	1.61	0.84	0.46	0.38	0.31	0.15
150.0	4.99	3.84	2.84	1.76	1.00	0.46	0.46	0.31	0.23
180.0	4.76	3.68	2.76	1.69	0.84	0.38	0.38	0.23	0.15
210.0	4.68	3.53	2.53	1.53	0.77	0.46	0.38	0.38	0.23
240.0	4.37	3.38	2.30	1.30	0.69	0.46	0.38	0.23	0.15
270.0	3.84	2.84	1.84	1.00	0.46	0.38	0.38	0.23	0.15
300.0	3.99	2.92	2.00	1.07	0.61	0.38	0.38	0.31	0.23
330.0	3.61	2.69	1.76	0.84	0.46	0.38	0.23	0.23	0.00
360.0	3.99	2.92	1.92	1.00	0.46	0.46	0.31	0.23	0.08
C/γ(°)	90.0								
0.0	0.08								
30.0	0.00								
60.0	0.08								
90.0	0.08								
120.0	0.08								
150.0	0.15								
180.0	0.08								
210.0	0.08								
240.0	0.00								
270.0	0.00								
300.0	0.15								
330.0	0.00								
360.0	0.08								