

浙大三色

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ROLED

灯具名称: 投光灯

灯具描述: F1123A-5-24DC-RC-Y(20-XL-5RGBWN-AJ, CT)

报告编号:

电压(V): 23.7000

测试编号: 20210413007

电流(A): 0.8890

光源规格型号: XL

功率(W): 21.0000

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

光度结果

灯具光通量(lm): 1102.26

灯具效能(lm/w): 52.49

中心光强(cd): 4832.167

最大光强(cd): 4864.396

最大光强角度: C=90.0 γ =2.0

半峰边角(50%Imax): [C0/180]Total=22.0

[C90/270]Total=22.3

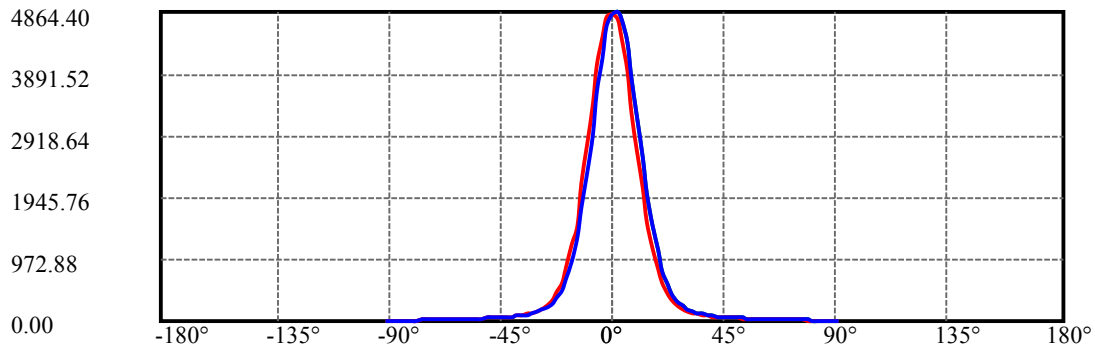
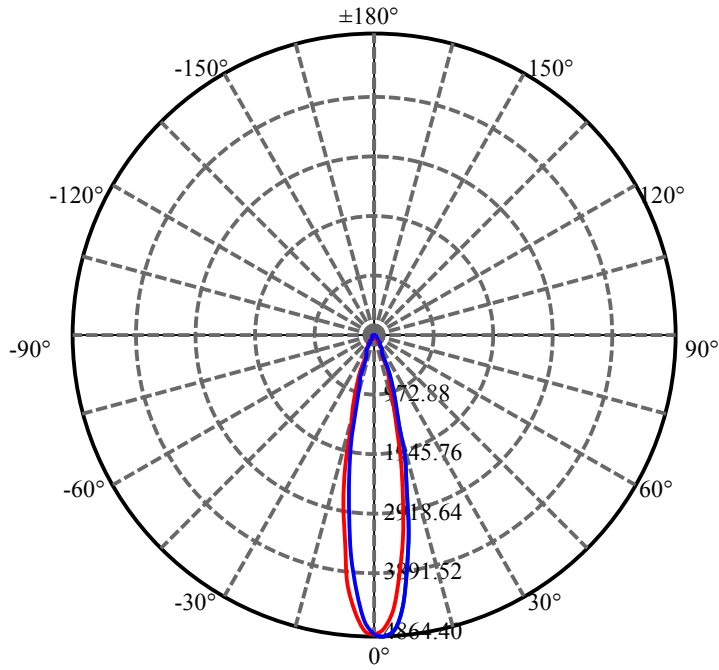
光束扩散角(10%Imax): [C0/180]Total=42.9

[C90/270]Total=43.2

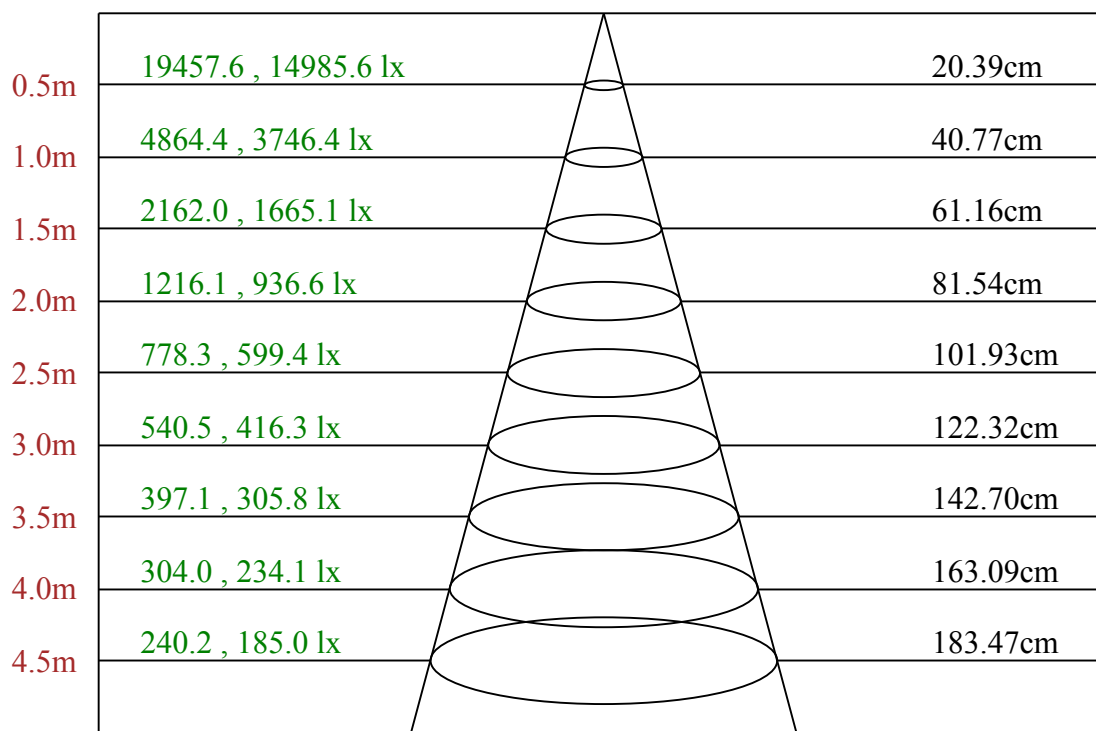
测试设备: GMS1800
环境温度(°C): 25.0

测试日期: 2021/4/13
环境湿度(%): 60.0%

测试人员: anpeilou
测试距离(m): 8.76

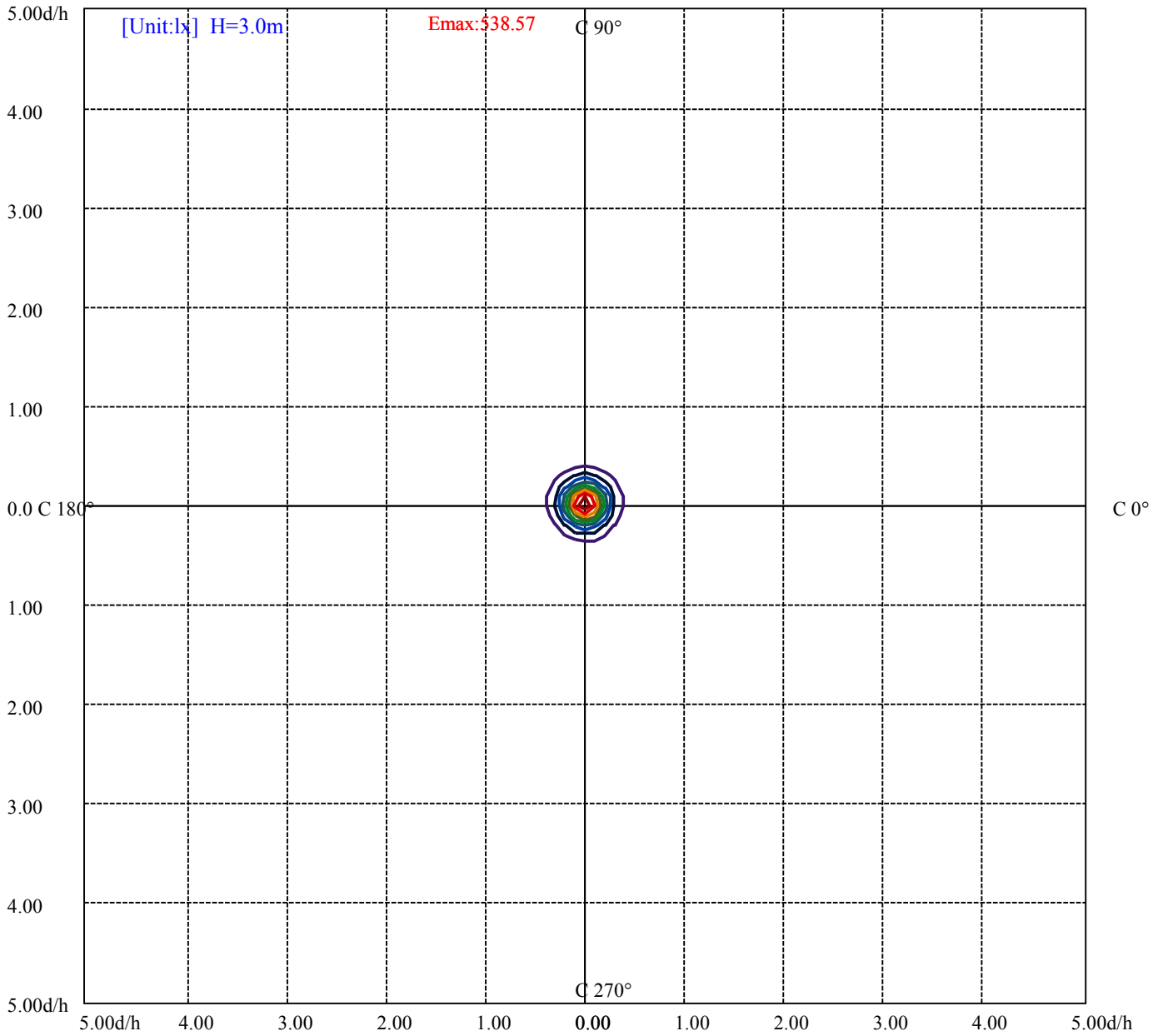


C90(Max): —
C0/C180: —
C90/C270: —



Max , Ave C90面光束角23.03

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平面等照度曲线



(10%Emax) 53.857	——
(20%Emax) 107.714	——
(30%Emax) 161.5711	——
(40%Emax) 215.4278	——
(50%Emax) 269.2856	——
(60%Emax) 323.1422	——
(70%Emax) 376.9989	——
(80%Emax) 430.8556	——
(90%Emax) 484.7133	——

测试设备: GMS1800
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测试日期: 2021/4/13
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测试人员: anpeilou
测试距离(m): 8.76

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灯具的亮度限制曲线(灯具无发光侧边)

亮度值表

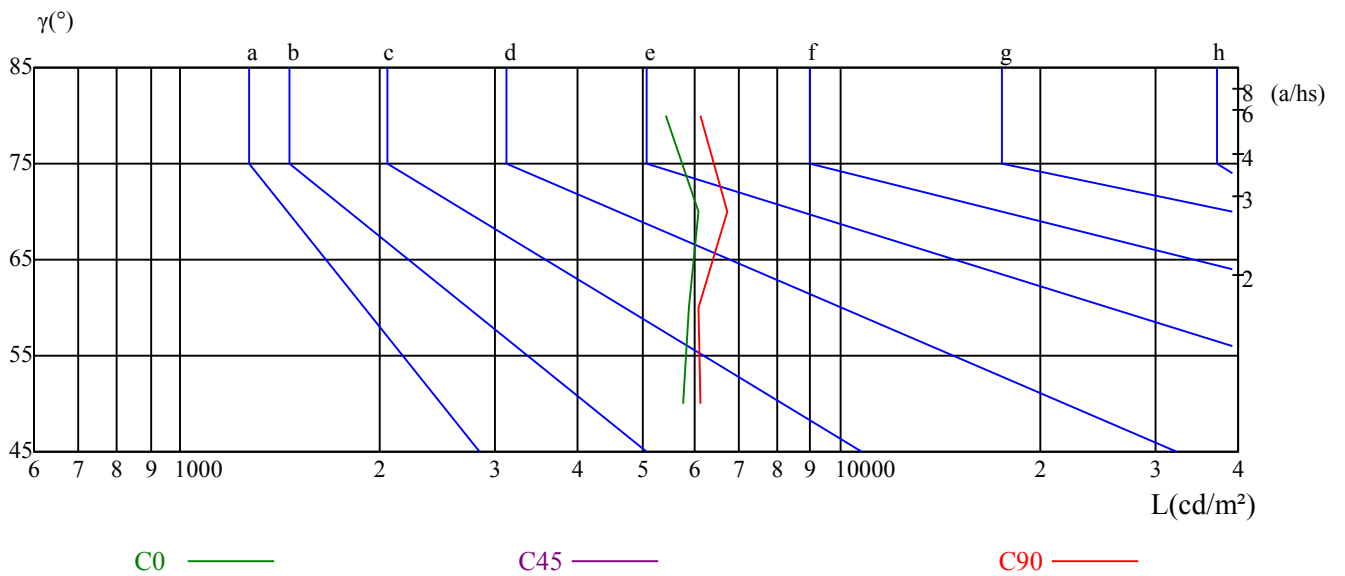
γ	45	50	55	60	65	70	75	80	85
C0	0	5758	0	5885	0	6099	0	5425	0
C45	0	0	0	0	0	0	0	0	0
C90	0	6119	0	6105	0	6725	0	6130	0

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

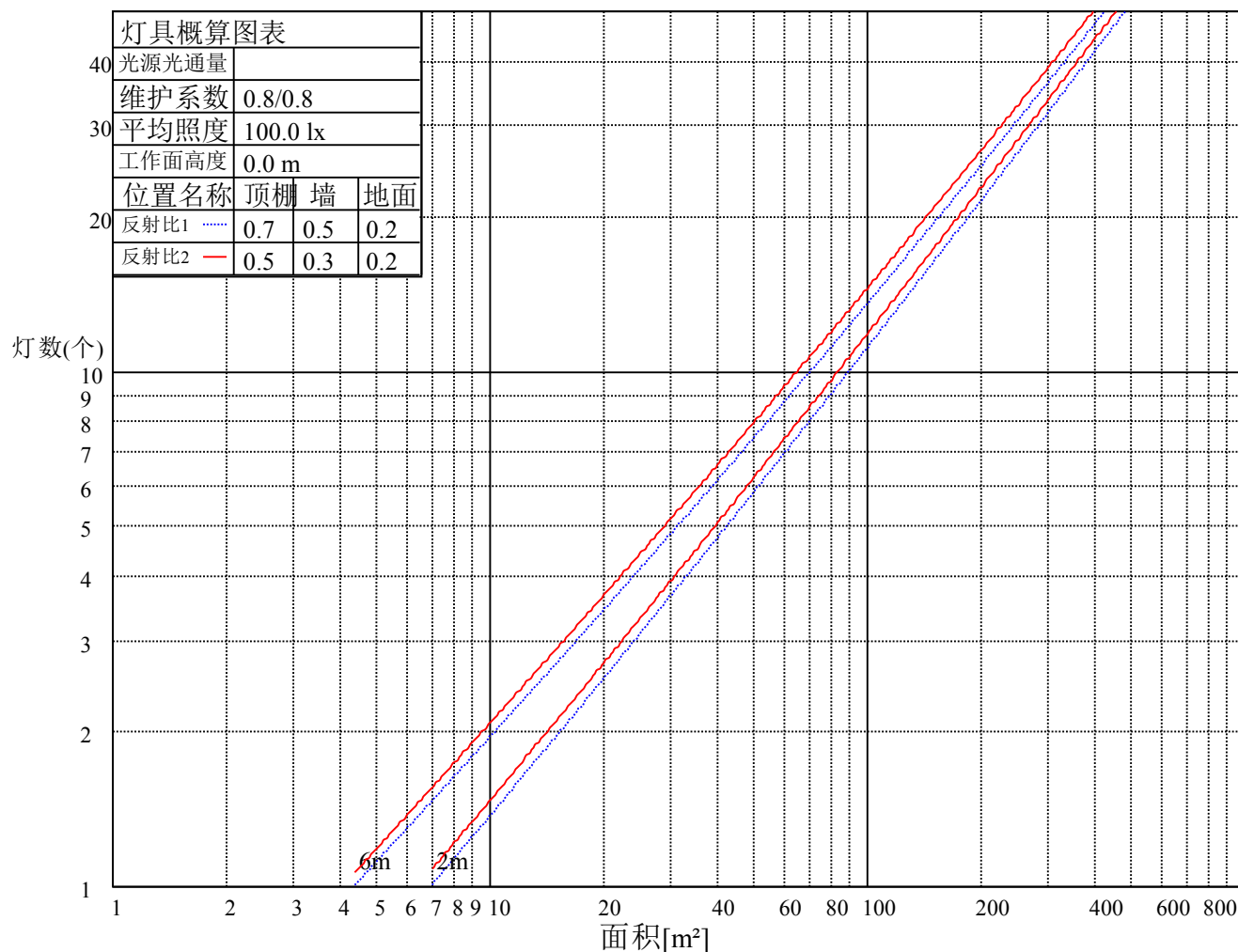
亮度限制曲线



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	13.37	14.44	13.74	14.75	15.07	13.33	14.39	13.69	14.70	15.02
	3H	15.62	16.57	16.01	16.90	17.27	15.59	16.54	15.97	16.87	17.24
	4H	16.43	17.31	16.83	17.66	18.05	16.39	17.27	16.80	17.62	18.01
	6H	16.99	17.80	17.41	18.17	18.57	16.96	17.77	17.38	18.14	18.54
	8H	17.16	17.92	17.59	18.31	18.72	17.13	17.89	17.57	18.29	18.70
	12H	17.35	18.07	17.78	18.46	18.89	17.32	18.04	17.75	18.43	18.86
4H	2H	14.10	14.98	14.51	15.34	15.72	14.07	14.95	14.47	15.30	15.69
	3H	16.51	17.23	16.92	17.64	18.04	16.49	17.21	16.90	17.62	18.02
	4H	17.42	18.07	17.86	18.49	18.94	17.39	18.04	17.83	18.46	18.91
	6H	17.97	18.53	18.44	18.98	19.45	17.95	18.51	18.42	18.96	19.43
	8H	18.19	18.71	18.66	19.16	19.63	18.17	18.69	18.65	19.14	19.61
	12H	18.38	18.84	18.87	19.32	19.80	18.36	18.81	18.85	19.30	19.78
8H	4H	17.71	18.23	18.18	18.68	19.15	17.68	18.20	18.16	18.65	19.13
	6H	18.42	18.83	18.93	19.33	19.82	18.40	18.81	18.91	19.32	19.80
	8H	18.71	19.08	19.24	19.60	20.10	18.70	19.07	19.23	19.59	20.08
	12H	19.39	19.71	19.91	20.21	20.78	19.37	19.69	19.89	20.18	20.76
12H	4H	17.72	18.17	18.21	18.66	19.13	17.69	18.15	18.18	18.63	19.11
	6H	18.82	18.84	19.00	19.31	19.86	18.80	18.82	18.99	19.29	19.84
	8H	18.82	19.13	19.34	19.63	20.21	18.80	19.12	19.32	19.62	20.20
对应照射距离，改变观察者位置S											
S = 1.0H	0.3/-0.7					0.3/-0.7					
S = 1.5H	0.8/-0.6					0.8/-0.6					
S = 2.0H	0.8/-0.5					0.7/-0.6					
标准表格	BKBF					BKBF					
更正系数	3.9					3.5					

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灯具的概算曲线



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灯具的利用系数表

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	1.11	1.09	1.06	1.09	1.07	1.05	1.05	1.03	1.02	1.01	1.00	0.99	0.98	0.97	0.96	0.94
2	1.04	1.00	0.97	1.02	0.99	0.96	0.99	0.96	0.94	0.96	0.94	0.92	0.94	0.92	0.90	0.89
3	0.98	0.94	0.90	0.97	0.93	0.90	0.94	0.91	0.88	0.92	0.89	0.87	0.90	0.87	0.85	0.84
4	0.93	0.89	0.85	0.92	0.88	0.84	0.90	0.86	0.83	0.88	0.85	0.82	0.87	0.84	0.81	0.80
5	0.89	0.84	0.80	0.88	0.84	0.80	0.87	0.83	0.79	0.85	0.81	0.79	0.84	0.81	0.78	0.77
6	0.85	0.80	0.77	0.85	0.80	0.77	0.83	0.79	0.76	0.82	0.78	0.76	0.81	0.78	0.75	0.74
7	0.82	0.77	0.74	0.82	0.77	0.73	0.80	0.76	0.73	0.79	0.76	0.73	0.78	0.75	0.72	0.71
8	0.79	0.74	0.71	0.79	0.74	0.71	0.78	0.74	0.71	0.77	0.73	0.70	0.76	0.73	0.70	0.69
9	0.77	0.72	0.69	0.76	0.72	0.68	0.75	0.71	0.68	0.75	0.71	0.68	0.74	0.70	0.68	0.67
10	0.74	0.70	0.66	0.74	0.69	0.66	0.73	0.69	0.66	0.72	0.69	0.66	0.72	0.68	0.66	0.65

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光强数据表(cd)

附页 第9页 共10页

C/γ(°)	0.0	2.0	4.0	6.0	8.0	10.0	12.0	14.0	16.0
0.0	4832.17	4743.15	4433.13	3932.80	3306.62	2658.96	2074.98	1585.40	1149.53
30.0	4845.98	4847.51	4665.65	4252.80	3699.52	3044.95	2411.10	1870.86	1384.35
60.0	4848.28	4849.82	4681.76	4270.45	3714.10	3068.74	2451.00	1903.86	1417.04
90.0	4825.26	4864.40	4743.92	4387.86	3843.79	3209.17	2573.78	2020.50	1504.82
120.0	4836.77	4850.58	4665.65	4255.87	3712.57	3061.06	2437.19	1896.95	1414.73
150.0	4824.49	4834.47	4640.32	4222.10	3685.71	3038.81	2408.79	1873.16	1386.65
180.0	4832.17	4773.85	4484.55	4008.77	3427.87	2771.76	2164.00	1515.80	1208.54
210.0	4845.98	4664.11	4251.26	3714.10	3055.69	2408.03	1841.70	1385.50	989.99
240.0	4848.28	4665.65	4247.43	3670.36	3058.76	2411.86	1844.00	1362.09	983.78
270.0	4825.26	4608.09	4152.27	3588.25	2942.12	2319.01	1771.87	1327.56	945.41
300.0	4836.77	4672.55	4268.91	3721.77	3096.36	2455.60	1886.21	1398.16	1013.70
330.0	4824.49	4671.79	4267.38	3720.24	3079.48	2451.77	1891.58	1431.16	1027.29
360.0	4832.17	4743.15	4433.13	3932.80	3306.62	2658.96	2074.98	1585.40	1149.53
C/γ(°)	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0
0.0	825.70	600.86	432.03	327.21	250.39	195.22	157.77	130.45	111.19
30.0	1016.77	726.71	519.51	390.59	290.38	224.38	178.41	146.49	122.93
60.0	1024.83	729.39	530.72	390.21	296.97	228.83	181.79	148.10	124.39
90.0	1107.32	791.16	564.02	409.78	310.10	236.89	186.55	152.94	125.85
120.0	1040.41	729.77	529.72	386.60	292.06	223.46	177.03	144.73	120.09
150.0	1010.63	718.26	511.84	388.29	282.24	217.17	173.50	142.96	118.71
180.0	860.69	608.30	441.62	324.45	248.48	194.38	157.01	129.69	110.20
210.0	702.07	505.09	365.96	278.94	215.33	171.12	140.81	116.79	99.61
240.0	698.31	507.24	392.13	278.48	219.93	174.96	143.42	120.32	102.44
270.0	673.30	488.43	357.21	274.41	209.80	169.13	138.36	114.88	100.37
300.0	721.33	524.89	392.90	290.14	222.92	179.34	146.42	122.01	103.83
330.0	734.69	533.79	389.14	293.60	228.98	181.18	147.72	122.32	104.75
360.0	825.70	600.86	432.03	327.21	250.39	195.22	157.77	130.45	111.19
C/γ(°)	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0
0.0	94.92	83.49	72.82	64.92	58.63	53.64	49.65	46.43	43.97
30.0	104.98	89.63	78.58	68.91	61.08	55.79	51.49	48.19	45.35
60.0	105.21	90.32	79.04	69.75	62.39	56.25	52.10	48.50	45.58
90.0	106.97	91.32	79.96	70.21	62.54	57.09	52.72	49.34	46.27
120.0	101.91	89.02	77.89	68.76	61.62	55.86	51.49	47.96	45.12
150.0	101.52	88.02	77.04	67.68	60.62	55.17	51.03	47.88	44.97
180.0	94.69	83.11	72.52	64.23	57.71	52.95	49.34	46.35	43.82
210.0	86.64	76.20	67.22	60.55	55.10	51.18	48.04	45.20	43.13
240.0	88.17	77.04	67.61	60.62	55.25	51.41	48.19	45.35	43.05
270.0	86.87	76.28	67.30	60.70	55.71	52.03	48.73	45.74	43.28
300.0	89.40	79.50	70.37	62.85	57.09	52.41	48.88	45.89	43.43
330.0	90.93	79.58	70.45	62.92	56.79	52.49	48.88	45.74	43.36
360.0	94.92	83.49	72.82	64.92	58.63	53.64	49.65	46.43	43.97
C/γ(°)	54.0	56.0	58.0	60.0	62.0	64.0	66.0	68.0	70.0
0.0	41.90	39.98	38.22	36.91	35.45	33.61	31.62	29.08	26.17
30.0	43.20	41.28	39.60	38.06	36.76	35.45	33.84	31.69	28.85
60.0	43.36	41.36	39.60	38.06	36.83	35.45	33.69	31.39	28.62
90.0	43.66	41.52	39.75	38.29	36.83	35.76	33.99	31.77	28.85
120.0	42.90	40.98	39.06	37.60	36.45	35.15	33.23	30.85	27.93
150.0	42.67	40.67	39.06	37.45	35.99	34.69	32.77	30.31	27.55
180.0	41.82	39.90	38.22	36.83	35.76	34.15	32.46	30.08	27.01
210.0	41.05	39.29	37.68	36.53	35.07	33.23	30.77	27.86	25.09
240.0	40.98	39.21	37.75	36.68	35.38	33.53	31.31	28.32	25.02
270.0	41.21	39.37	37.83	36.68	34.92	32.77	30.39	27.47	24.56
300.0	41.44	39.52	37.99	36.68	35.07	33.07	30.85	28.09	25.02
330.0	41.28	39.60	37.83	36.60	35.07	33.53	31.23	28.32	25.55
360.0	41.90	39.98	38.22	36.91	35.45	33.61	31.62	29.08	26.17

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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	23.10	20.18	17.34	14.66	11.82	8.67	5.53	2.92	0.69
30.0	25.71	22.25	18.88	15.73	12.74	9.98	7.21	4.60	2.07
60.0	25.71	22.71	19.49	16.42	13.58	10.44	7.29	4.45	2.23
90.0	26.01	22.79	19.64	16.42	13.35	10.44	7.75	4.99	2.38
120.0	25.02	22.02	18.80	15.65	12.82	9.82	7.14	4.60	2.07
150.0	24.79	21.72	18.80	15.96	13.05	10.13	7.06	4.07	1.84
180.0	23.87	20.57	17.34	14.20	11.43	8.75	6.06	2.99	0.77
210.0	22.02	18.88	15.96	13.28	10.21	7.29	4.30	2.07	0.15
240.0	21.87	18.72	15.42	12.58	9.67	6.98	4.53	1.69	0.08
270.0	21.33	18.34	15.42	12.58	9.52	6.75	3.91	1.61	0.08
300.0	22.02	19.11	16.11	13.05	10.13	7.44	4.60	2.07	0.08
330.0	22.41	19.03	15.88	13.05	10.05	7.44	4.91	2.30	0.15
360.0	23.10	20.18	17.34	14.66	11.82	8.67	5.53	2.92	0.69
C/γ(°)	90.0								
0.0	0.00								
30.0	0.15								
60.0	0.15								
90.0	0.23								
120.0	0.23								
150.0	0.00								
180.0	0.00								
210.0	0.00								
240.0	0.00								
270.0	0.00								
300.0	0.00								
330.0	0.00								
360.0	0.00								