

浙大三色

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ROLED

灯具名称: 投光灯

灯具描述: F4013A-5-24DC (20-OL-5WN-AA, CT)

报告编号:

电压(V): 23.9000

测试编号: 20210419006

电流(A): 0.2200

光源规格型号: OL

功率(W): 5.2000

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): 166

发光面宽度(mm): 30

测试模式: C

发光面高度(mm): 0

光度结果

灯具光通量(lm): 535.18

灯具效能(lm/w): 102.92

中心光强(cd): 2648.215

最大光强(cd): 2648.215

最大光强角度: $C=0.0 \gamma=0.0$

半峰边角(50%Imax): [C0/180]Total=19.3

[C90/270]Total=19.2

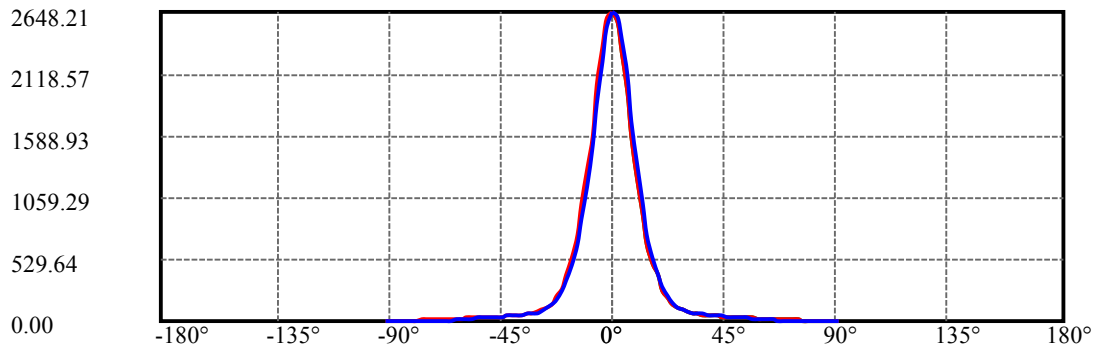
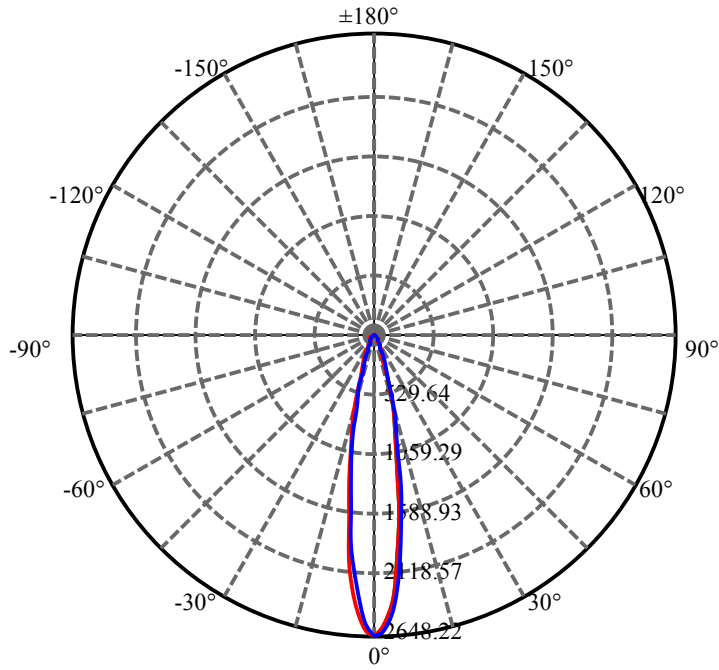
光束扩散角(10%Imax): [C0/180]Total=40.5

[C90/270]Total=40.5

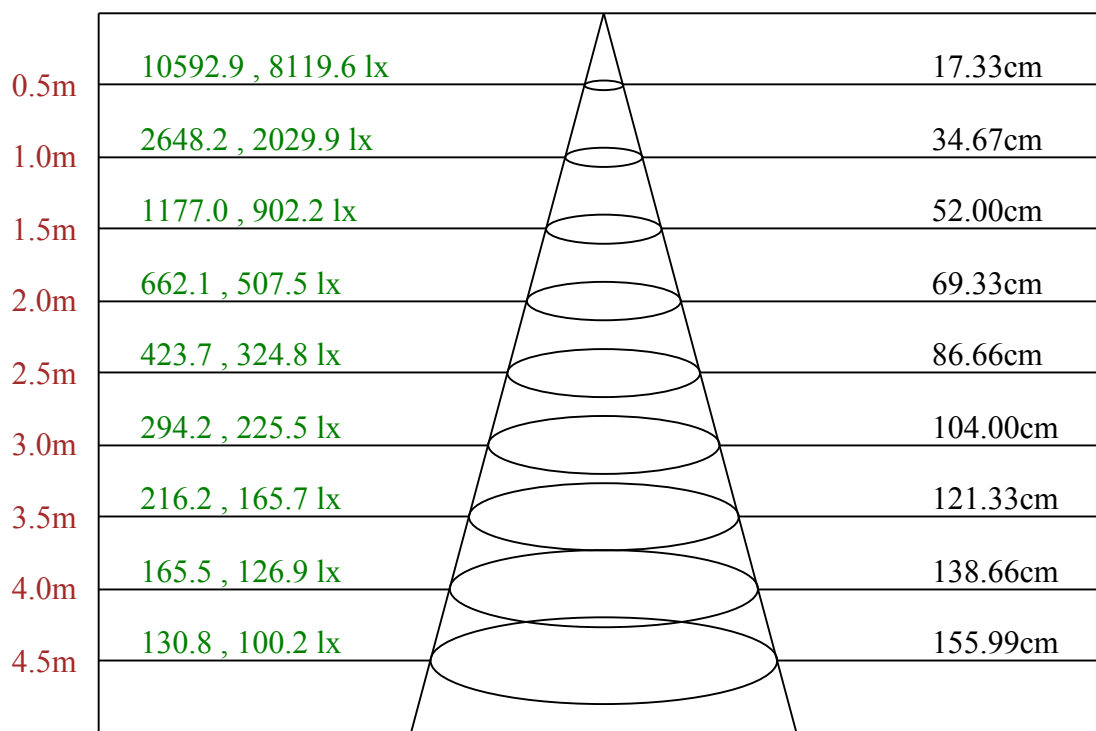
测试设备: GMS1800
环境温度(°C): 25.0

测试日期: 2021/4/19
环境湿度(%): 60.0%

测试人员: anpeilou
测试距离(m): 8.76

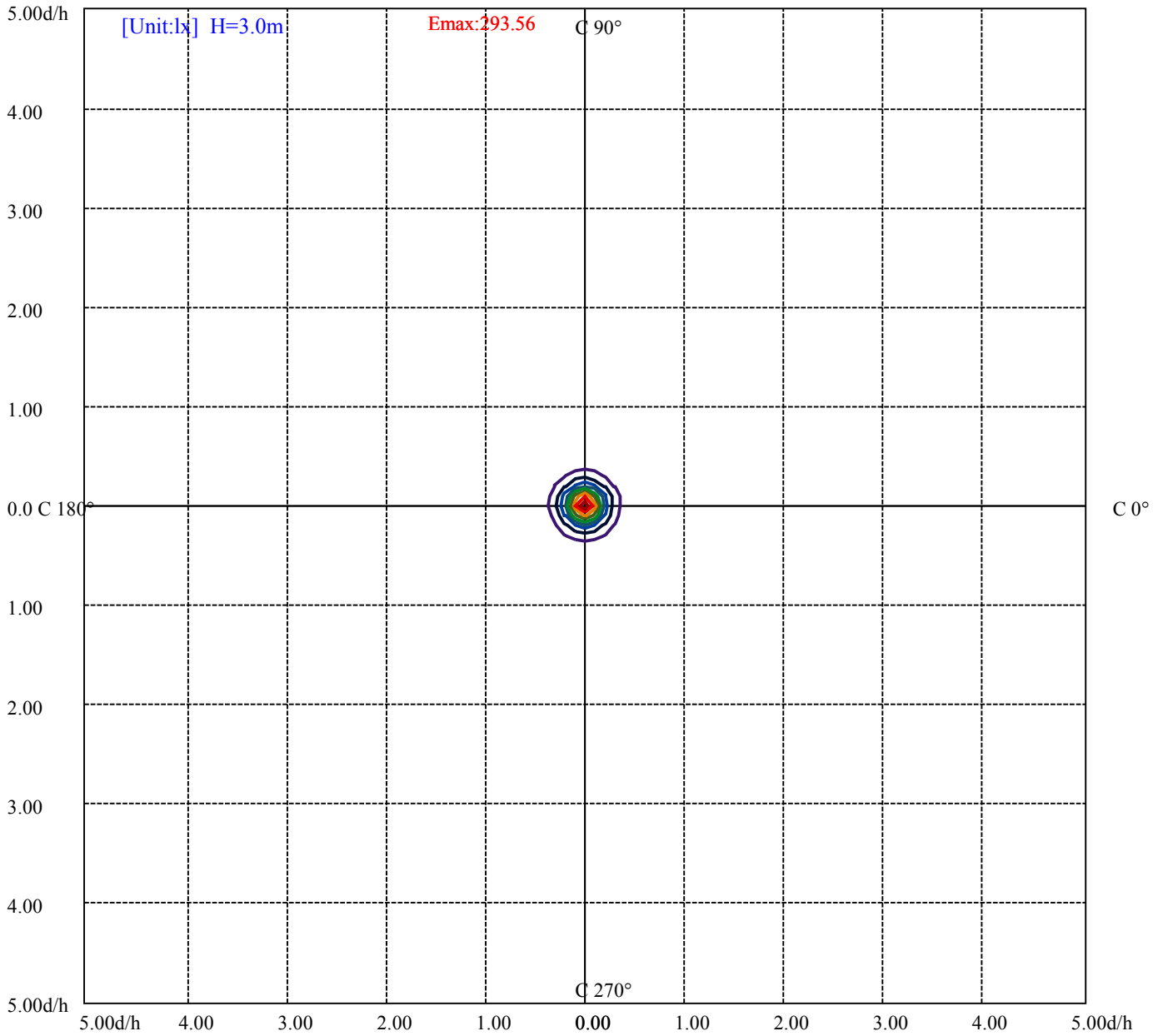


C0(Max): ——
C0/C180: ——
C90/C270: ——



Max , Ave C0面光束角19.67

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平面等照度曲线



- (10%Emax) 29.35633
- (20%Emax) 58.71267
- (30%Emax) 88.06911
- (40%Emax) 117.4256
- (50%Emax) 146.7822
- (60%Emax) 176.1378
- (70%Emax) 205.4944
- (80%Emax) 234.8511
- (90%Emax) 264.2067

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灯具的亮度限制曲线(灯具无发光侧边)

亮度值表

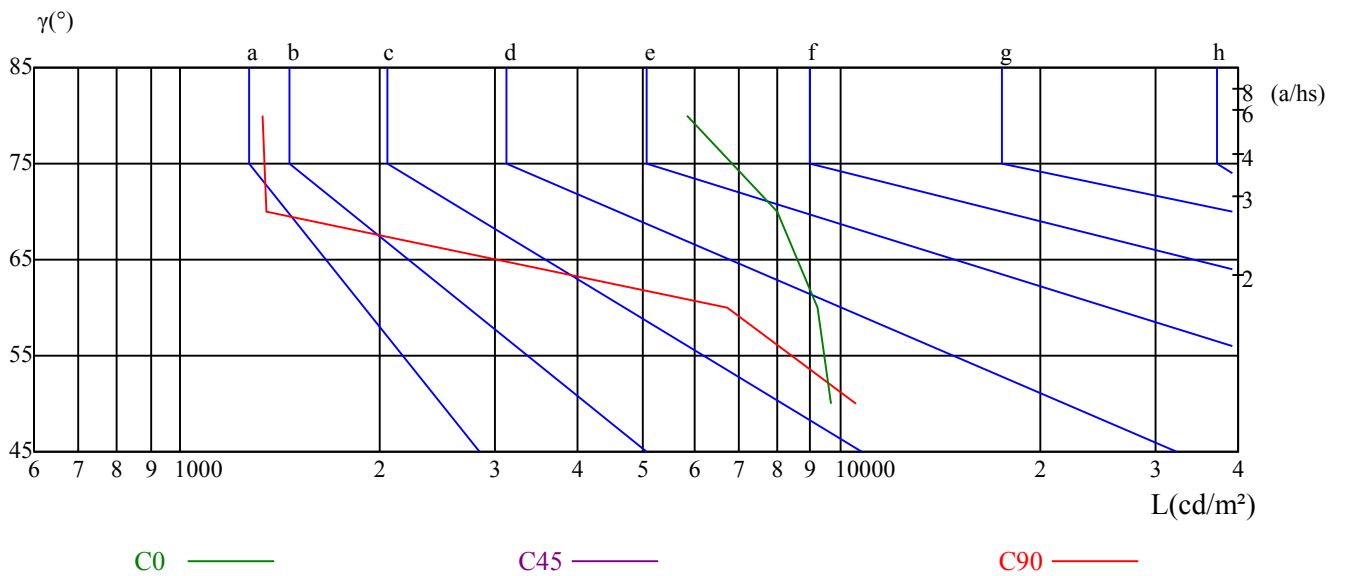
γ	45	50	55	60	65	70	75	80	85
C0	0	9685	0	9215	0	8019	0	5857	0
C45	0	0	0	0	0	0	0	0	0
C90	0	10524	0	6749	0	1352	0	1331	0

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

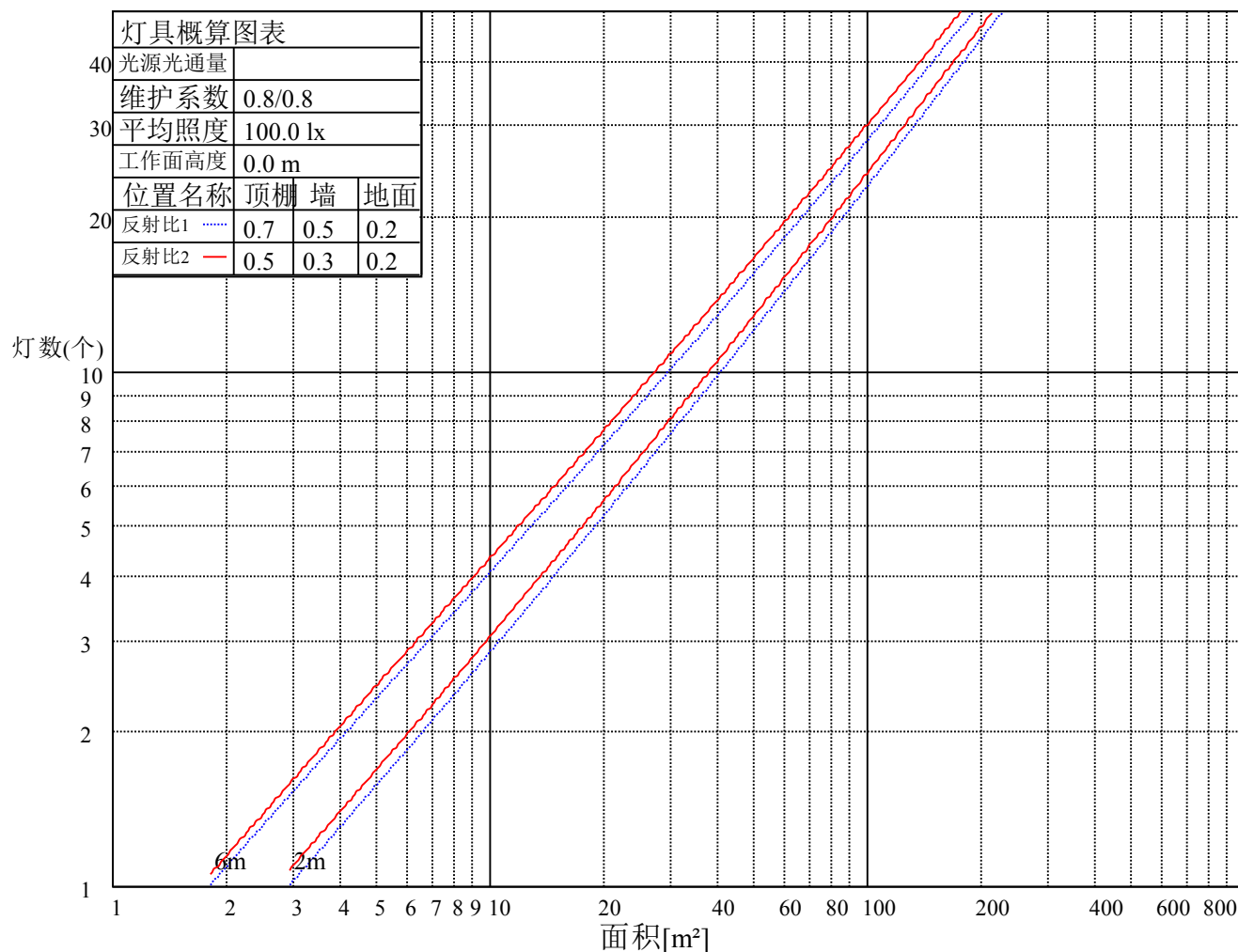
亮度限制曲线



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	17.80	18.89	18.17	19.20	19.51	18.73	19.82	19.10	20.13	20.45
	3H	17.86	18.82	18.25	19.16	19.52	20.32	21.28	20.70	21.61	21.98
	4H	17.80	18.69	18.20	19.04	19.43	20.81	21.70	21.21	22.05	22.44
	6H	17.72	18.53	18.14	18.91	19.30	21.09	21.91	21.51	22.28	22.68
	8H	17.67	18.44	18.11	18.83	19.24	21.14	21.90	21.57	22.30	22.71
	12H	17.63	18.36	18.06	18.74	19.18	21.14	21.87	21.58	22.26	22.69
4H	2H	18.30	19.19	18.70	19.54	19.93	19.06	19.95	19.47	20.30	20.69
	3H	18.39	19.11	18.80	19.52	19.93	20.78	21.51	21.20	21.92	22.32
	4H	18.31	18.96	18.75	19.38	19.83	21.31	21.96	21.75	22.39	22.83
	6H	18.23	18.79	18.70	19.24	19.71	21.61	22.16	22.07	22.61	23.08
	8H	18.18	18.70	18.66	19.15	19.62	21.66	22.18	22.13	22.63	23.10
	12H	18.13	18.58	18.62	19.07	19.55	21.66	22.11	22.15	22.60	23.08
8H	4H	18.39	18.91	18.87	19.36	19.83	21.21	21.73	21.69	22.18	22.66
	6H	18.32	18.73	18.83	19.23	19.72	21.53	21.94	22.04	22.44	22.93
	8H	18.27	18.63	18.80	19.15	19.65	21.60	21.96	22.13	22.49	22.98
	12H	18.94	19.25	19.46	19.75	20.33	22.35	22.67	22.87	23.16	23.74
12H	4H	18.36	18.81	18.85	19.30	19.78	21.16	21.61	21.65	22.09	22.57
	6H	18.64	18.66	18.82	19.13	19.67	21.81	21.84	22.00	22.31	22.85
	8H	18.26	18.57	18.78	19.07	19.65	21.56	21.87	22.08	22.37	22.95
对应照射距离，改变观察者位置S											
S = 1.0H		0.4/-0.7					0.3/-0.6				
S = 1.5H		0.8/-2.0					1.0/-0.9				
S = 2.0H		3.2/-4.6					1.3/-1.3				
标准表格		BK2					BK3				
更正系数		-0.5					1.8				

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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	1.11	1.09	1.07	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	1.01	0.97	1.03	0.99	0.96	0.99	0.97	0.94	0.97	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	0.88	0.85	0.92	0.88	0.84	0.90	0.86	0.83	0.88	0.85	0.82	0.86	0.84	0.81	0.80
5	0.89	0.84	0.80	0.88	0.83	0.80	0.86	0.82	0.79	0.85	0.81	0.78	0.83	0.80	0.78	0.76
6	0.85	0.80	0.76	0.84	0.79	0.76	0.83	0.79	0.75	0.81	0.78	0.75	0.80	0.77	0.74	0.73
7	0.82	0.76	0.73	0.81	0.76	0.73	0.80	0.75	0.72	0.79	0.75	0.72	0.78	0.74	0.72	0.70
8	0.78	0.73	0.70	0.78	0.73	0.70	0.77	0.73	0.70	0.76	0.72	0.69	0.75	0.72	0.69	0.68
9	0.76	0.71	0.68	0.75	0.71	0.67	0.74	0.70	0.67	0.74	0.70	0.67	0.73	0.69	0.67	0.66
10	0.73	0.69	0.65	0.73	0.68	0.65	0.72	0.68	0.65	0.71	0.68	0.65	0.71	0.67	0.65	0.64

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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	2648.21	2556.90	2308.27	1955.27	1586.93	1213.99	904.74	664.55	488.82
30.0	2639.77	2596.03	2390.38	2083.43	1704.34	1318.35	984.54	733.61	534.09
60.0	2644.38	2579.15	2357.38	2028.17	1530.99	1286.28	973.65	712.74	518.98
90.0	2640.54	2606.78	2413.40	2111.05	1712.02	1345.21	1004.50	745.89	540.23
120.0	2643.61	2589.89	2378.10	2052.73	1686.69	1317.05	994.98	743.28	543.00
150.0	2640.54	2609.08	2416.47	2121.03	1751.92	1372.84	1042.86	789.63	580.90
180.0	2648.21	2582.22	2355.08	2024.34	1594.61	1303.23	998.74	739.83	541.77
210.0	2639.77	2520.06	2243.04	1909.23	1518.87	1176.62	882.79	661.71	484.75
240.0	2644.38	2543.85	2279.11	1923.04	1568.52	1204.01	916.25	672.22	500.33
270.0	2640.54	2507.78	2220.02	1861.65	1509.28	1157.28	873.89	658.87	482.45
300.0	2643.61	2537.71	2275.27	1922.28	1567.75	1213.22	919.32	688.34	514.91
330.0	2640.54	2513.92	2239.97	1900.02	1529.00	1174.62	884.17	664.78	489.28
360.0	2648.21	2556.90	2308.27	1955.27	1586.93	1213.99	904.74	664.55	488.82
C/γ(°)	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0
0.0	391.36	265.05	194.61	147.11	115.11	94.08	79.42	69.29	62.16
30.0	395.20	289.61	213.71	164.14	127.00	104.82	90.01	80.50	72.90
60.0	379.70	275.79	206.73	157.24	125.24	103.06	89.40	79.73	73.13
90.0	396.73	289.30	210.87	159.69	122.63	97.53	81.27	71.14	63.92
120.0	398.58	290.22	216.17	161.84	125.85	100.45	83.87	72.75	64.84
150.0	425.89	316.39	230.37	172.97	131.60	103.83	85.56	73.74	65.23
180.0	395.81	285.16	208.96	154.47	118.56	94.00	78.35	67.99	60.85
210.0	355.14	260.68	191.23	147.11	114.42	96.00	83.72	75.89	69.91
240.0	387.52	271.11	197.98	149.79	118.87	97.53	84.26	75.51	69.14
270.0	352.07	258.30	187.55	140.12	107.43	87.40	73.98	65.00	58.70
300.0	389.06	282.16	205.89	154.32	120.25	95.77	80.65	69.91	62.46
330.0	361.05	268.12	198.44	153.01	117.79	96.69	81.73	71.29	63.23
360.0	391.36	265.05	194.61	147.11	115.11	94.08	79.42	69.29	62.16
C/γ(°)	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0
0.0	56.71	51.95	47.27	43.51	39.75	36.60	33.53	31.00	28.70
30.0	66.84	61.85	56.56	51.49	46.73	42.67	39.06	35.99	33.15
60.0	67.61	62.23	56.94	51.80	47.27	42.67	39.14	35.99	33.23
90.0	58.63	54.41	50.34	46.50	42.82	39.60	36.45	33.69	31.31
120.0	59.16	54.48	50.34	46.35	42.97	39.44	36.53	33.84	31.62
150.0	58.93	54.10	49.57	45.74	42.13	38.91	35.99	33.46	31.16
180.0	55.63	51.26	47.50	43.82	40.59	37.14	34.46	31.77	29.47
210.0	64.61	59.47	54.33	49.50	44.89	41.13	37.83	34.92	32.38
240.0	63.85	59.16	54.10	49.34	44.97	41.21	37.83	34.92	32.31
270.0	53.95	50.19	46.43	42.90	39.52	36.53	33.84	31.23	29.16
300.0	57.02	52.49	48.11	44.20	40.52	37.14	34.30	31.69	29.54
330.0	57.32	52.41	47.96	43.74	39.75	36.68	33.76	31.23	29.16
360.0	56.71	51.95	47.27	43.51	39.75	36.60	33.53	31.00	28.70
C/γ(°)	54.0	56.0	58.0	60.0	62.0	64.0	66.0	68.0	70.0
0.0	26.70	25.17	23.87	22.94	20.64	18.80	17.34	15.58	13.66
30.0	30.77	28.62	27.17	25.86	24.86	23.64	21.26	18.19	15.12
60.0	30.39	27.55	24.63	21.95	19.03	16.58	13.97	10.13	5.91
90.0	28.70	24.48	20.72	16.81	13.35	10.05	7.14	4.60	2.30
120.0	29.39	26.63	23.64	20.64	17.88	14.43	11.20	7.67	4.22
150.0	29.08	27.40	26.17	25.09	24.17	21.64	9.75	5.06	10.05
180.0	27.70	26.09	24.86	24.17	23.64	21.95	19.41	17.19	14.81
210.0	30.16	28.55	27.17	26.01	24.33	22.25	19.88	16.27	13.35
240.0	29.85	27.09	24.02	21.49	17.96	13.66	10.28	6.37	2.69
270.0	26.40	22.79	18.42	14.12	10.51	7.29	4.53	2.30	0.92
300.0	27.63	25.71	22.94	20.72	17.65	13.58	10.05	6.75	3.61
330.0	27.32	25.78	24.71	23.71	22.56	20.57	17.88	14.89	12.12
360.0	26.70	25.17	23.87	22.94	20.64	18.80	17.34	15.58	13.66

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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	12.20	10.74	7.83	6.22	5.06	3.07	1.00	0.23	0.15
30.0	12.58	9.52	7.29	5.68	4.14	1.69	0.92	0.38	0.23
60.0	3.68	2.23	1.30	1.23	1.00	0.84	0.54	0.23	0.08
90.0	1.76	1.76	1.61	1.38	1.15	0.84	0.46	0.08	0.15
120.0	2.53	1.69	1.38	1.23	1.07	0.77	0.38	0.08	0.08
150.0	9.06	6.98	5.06	3.68	1.76	0.77	0.54	0.31	0.00
180.0	12.58	10.82	9.36	6.68	5.29	3.15	1.00	0.23	0.00
210.0	9.75	6.83	4.07	2.07	0.77	0.38	0.23	0.08	0.00
240.0	1.61	1.07	0.77	0.77	0.38	0.31	0.23	0.15	0.08
270.0	0.84	0.84	0.69	0.61	0.46	0.31	0.23	0.15	0.00
300.0	2.15	1.07	0.84	0.77	0.61	0.38	0.23	0.15	0.08
330.0	9.52	6.60	4.37	2.76	1.46	0.46	0.38	0.23	0.08
360.0	12.20	10.74	7.83	6.22	5.06	3.07	1.00	0.23	0.15

C/γ(°)	90.0
0.0	0.00
30.0	0.00
60.0	0.00
90.0	0.00
120.0	0.00
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