

浙大三色

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## ROLED

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灯具名称: 投光灯

灯具描述: F1021A-3-UN (15-OL-3WN-AJ, P1)

报告编号:

电压(V): 220.5000

测试编号: 20210412001

电流(A): 0.0420

光源规格型号: OL

功率(W): 4.4000

每个光源光通量(lm)

功率因数: 0.4700

光源数量: 3

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

## 光度结果

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灯具光通量(lm): 324.86

灯具效能(lm/w): 73.83

中心光强(cd): 2510.854

最大光强(cd): 2532.341

最大光强角度:  $C=30.0$   $\gamma=0.0$

半峰边角(50%Imax): [C0/180]Total=15.0

[C90/270]Total=15.0

光束扩散角(10%Imax): [C0/180]Total=32.5

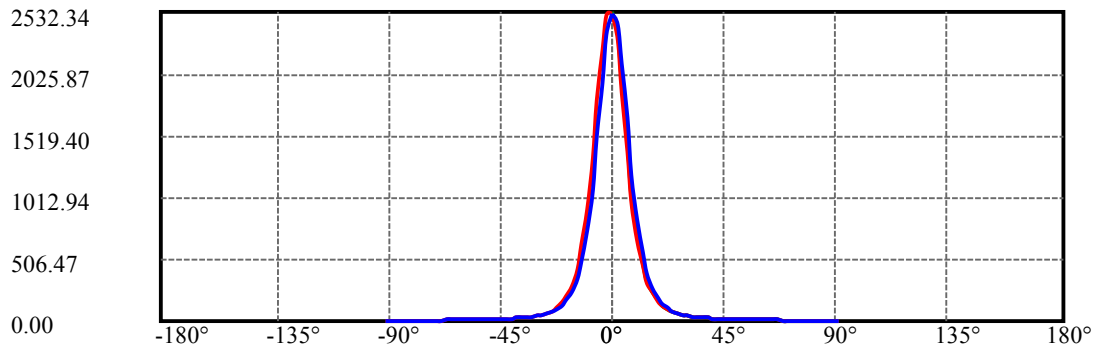
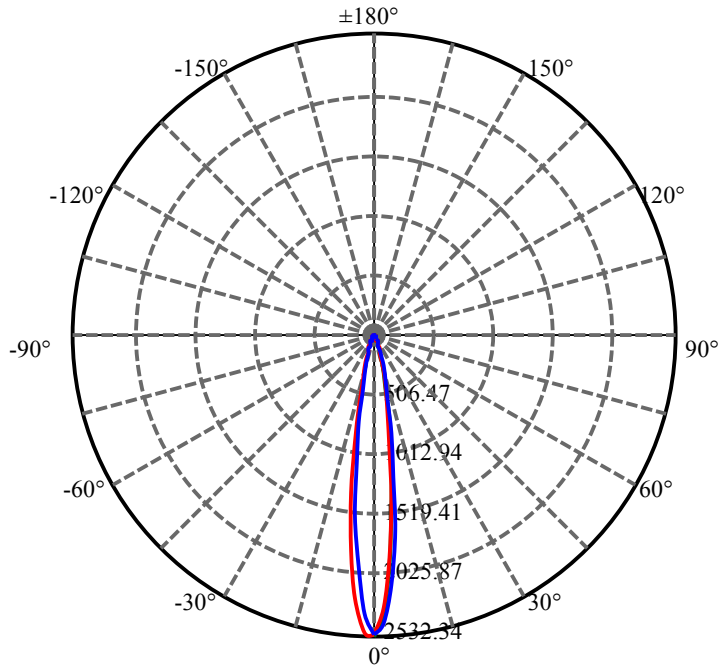
[C90/270]Total=32.4

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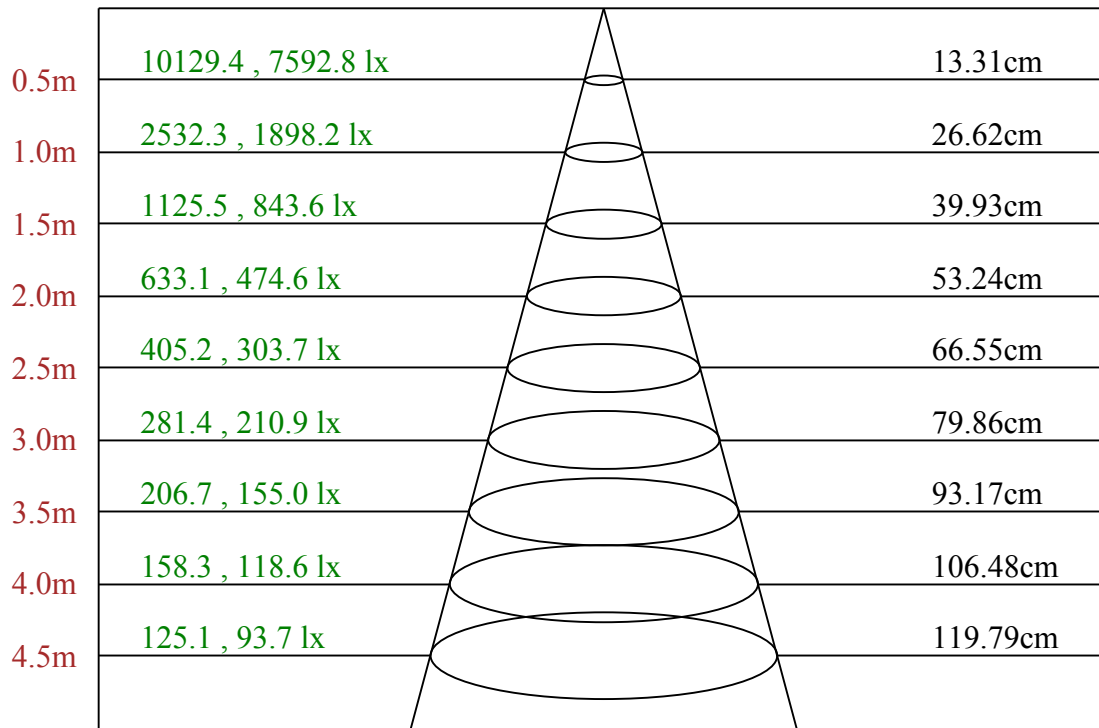
测试设备: GMS1800  
环境温度(°C): 25.0

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

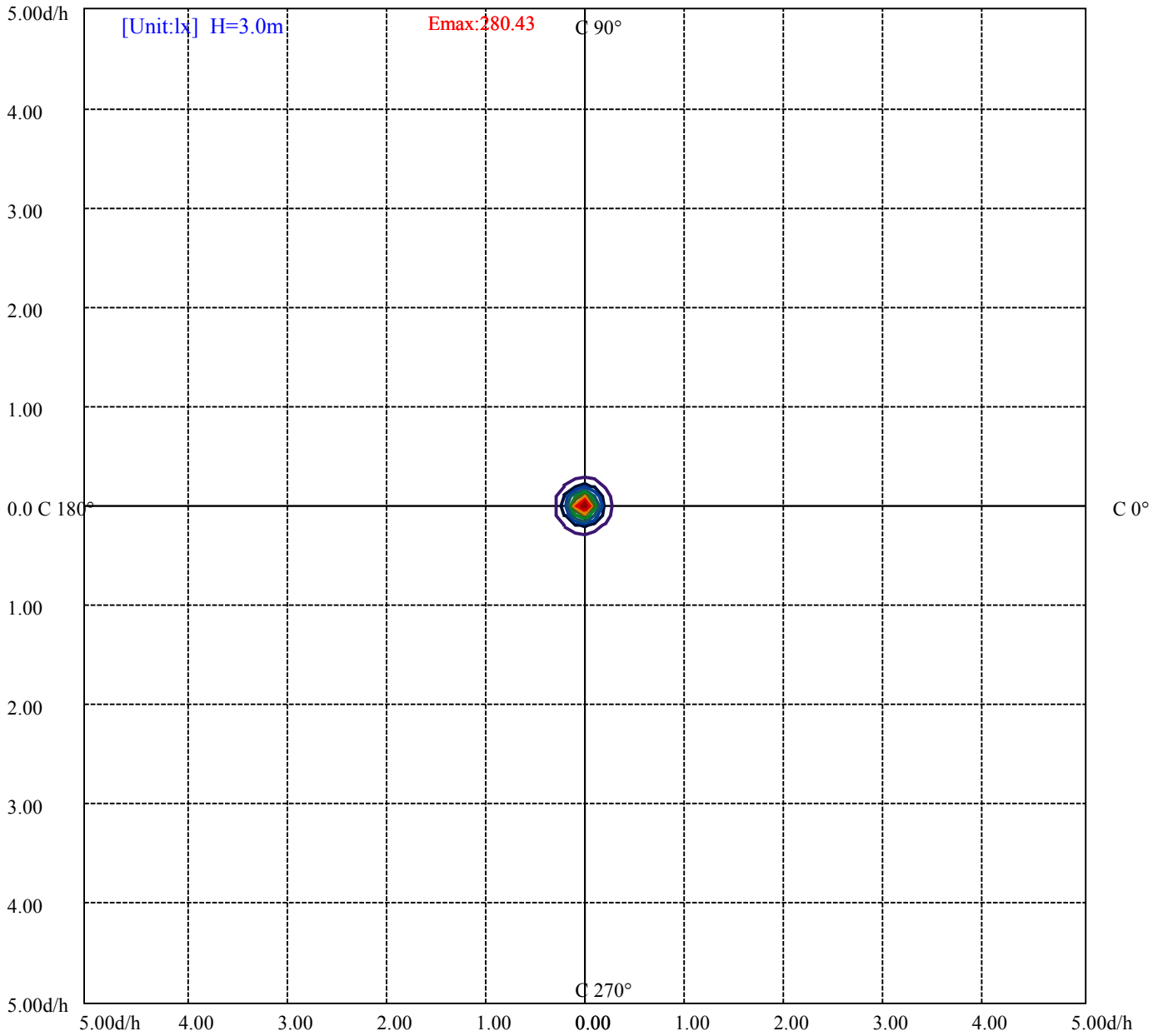


C30(Max): —  
C0/C180: —  
C90/C270: —



Max , Ave    C30面光束角15.16

ROLED 投光灯  
平面等照度曲线



- (10%Emax) 28.04311
- (20%Emax) 56.08633
- (30%Emax) 84.12944
- (40%Emax) 112.1722
- (50%Emax) 140.2155
- (60%Emax) 168.2589
- (70%Emax) 196.3022
- (80%Emax) 224.3456
- (90%Emax) 252.3889

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

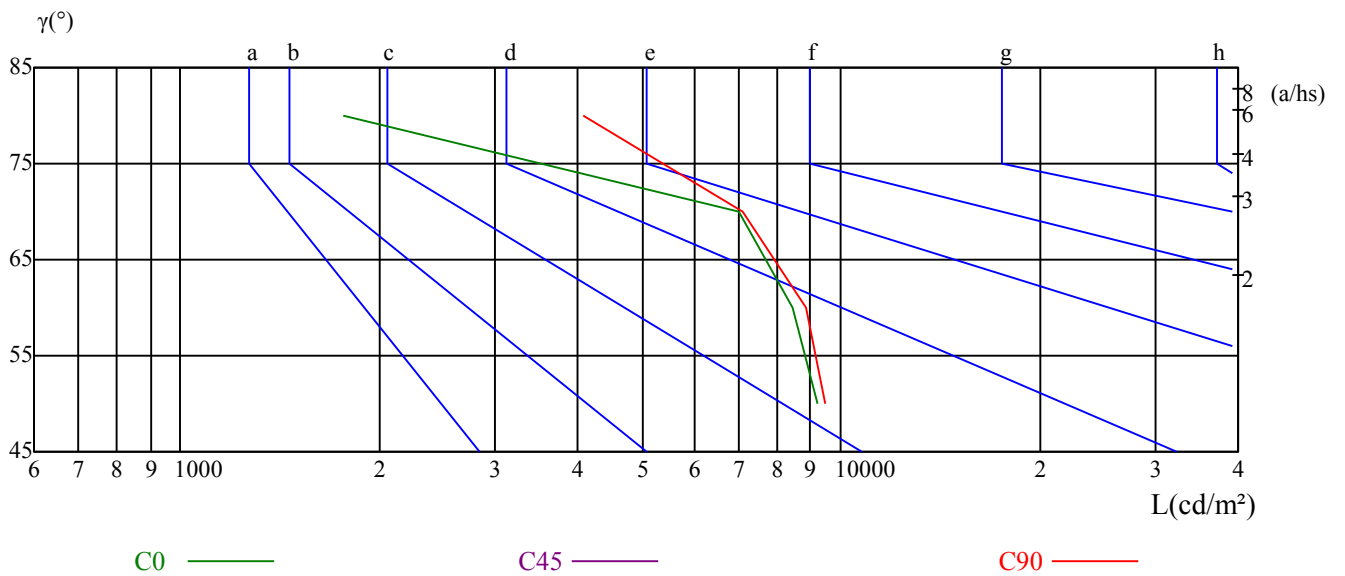
$\gamma$	45	50	55	60	65	70	75	80	85
C0	0	9216	0	8472	0	7000	0	1768	0
C45	0	0	0	0	0	0	0	0	0
C90	0	9503	0	8840	0	7090	0	4066	0

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

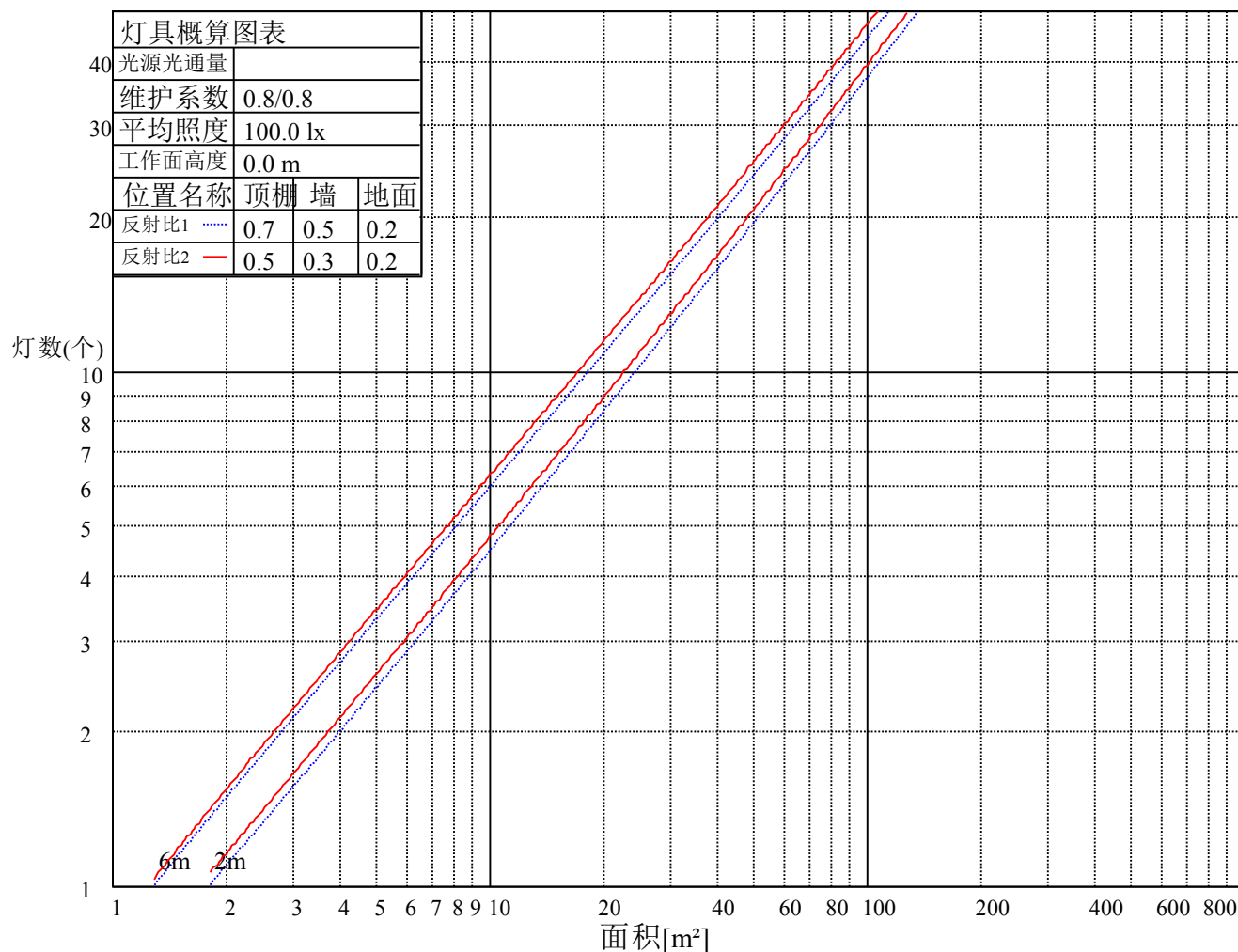
亮度限制曲线



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	19.13	20.17	19.49	20.48	20.79	19.21	20.26	19.58	20.57	20.88
	3H	20.64	21.56	21.02	21.90	22.26	20.71	21.64	21.10	21.97	22.34
	4H	21.05	21.91	21.46	22.26	22.65	21.12	21.97	21.52	22.33	22.71
	6H	21.19	21.97	21.60	22.34	22.74	21.25	22.03	21.67	22.41	22.81
	8H	21.18	21.91	21.61	22.30	22.71	21.24	21.98	21.68	22.37	22.78
	12H	21.15	21.85	21.59	22.24	22.67	21.22	21.92	21.66	22.31	22.74
4H	2H	19.61	20.46	20.02	20.82	21.21	19.68	20.54	20.09	20.89	21.28
	3H	21.27	21.97	21.68	22.38	22.78	21.33	22.03	21.74	22.44	22.84
	4H	21.75	22.37	22.18	22.79	23.24	21.80	22.43	22.24	22.85	23.30
	6H	21.90	22.44	22.37	22.89	23.36	21.96	22.50	22.43	22.95	23.42
	8H	21.89	22.39	22.37	22.84	23.32	21.96	22.45	22.43	22.90	23.38
	12H	21.87	22.30	22.36	22.79	23.26	21.93	22.36	22.42	22.85	23.33
8H	4H	21.84	22.33	22.31	22.78	23.26	21.89	22.39	22.36	22.84	23.31
	6H	22.03	22.43	22.54	22.93	23.41	22.09	22.48	22.60	22.98	23.47
	8H	22.04	22.39	22.58	22.92	23.41	22.10	22.45	22.63	22.97	23.47
	12H	22.70	23.00	23.22	23.50	24.08	22.77	23.07	23.29	23.57	24.15
12H	4H	21.79	22.22	22.28	22.71	23.19	21.85	22.28	22.34	22.77	23.24
	6H	22.30	22.35	22.53	22.82	23.37	22.36	22.40	22.59	22.87	23.42
	8H	22.03	22.33	22.55	22.83	23.41	22.09	22.39	22.61	22.89	23.47
对应照射距离，改变观察者位置S											
S = 1.0H	0.3/-0.5					0.3/-0.4					
S = 1.5H	0.9/-0.8					1.0/-0.8					
S = 2.0H	1.9/-1.1					1.8/-1.2					
标准表格	BK3					BK3					
更正系数	0.2					0.0					

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## 灯具的概算曲线



# ROLED 投光灯

## 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	1.12	1.10	1.08	1.10	1.08	1.06	1.06	1.04	1.03	1.02	1.01	1.00	0.99	0.98	0.97	0.95
2	1.05	1.02	0.99	1.04	1.01	0.98	1.01	0.98	0.96	0.98	0.96	0.94	0.95	0.93	0.92	0.90
3	1.00	0.96	0.93	0.99	0.95	0.92	0.96	0.93	0.90	0.94	0.91	0.89	0.92	0.90	0.88	0.86
4	0.96	0.91	0.88	0.95	0.90	0.87	0.92	0.89	0.86	0.91	0.88	0.85	0.89	0.86	0.84	0.83
5	0.92	0.87	0.84	0.91	0.86	0.83	0.89	0.85	0.83	0.88	0.84	0.82	0.86	0.83	0.81	0.80
6	0.88	0.84	0.80	0.88	0.83	0.80	0.86	0.82	0.79	0.85	0.82	0.79	0.84	0.81	0.78	0.77
7	0.85	0.81	0.77	0.85	0.80	0.77	0.84	0.80	0.77	0.83	0.79	0.77	0.82	0.78	0.76	0.75
8	0.83	0.78	0.75	0.82	0.78	0.75	0.81	0.77	0.75	0.80	0.77	0.74	0.79	0.76	0.74	0.73
9	0.80	0.76	0.73	0.80	0.76	0.73	0.79	0.75	0.73	0.78	0.75	0.72	0.78	0.74	0.72	0.71
10	0.78	0.74	0.71	0.78	0.74	0.71	0.77	0.73	0.71	0.77	0.73	0.71	0.76	0.73	0.70	0.70



ROLED 投光灯

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	2510.85	2290.62	1870.10	1386.65	971.50	666.08	451.22	317.69	229.29
30.0	2532.34	2346.64	1943.00	1464.92	1027.52	705.99	479.61	335.04	242.18
60.0	2515.46	2325.15	1929.95	1497.46	1051.69	711.36	493.58	341.41	242.03
90.0	2509.32	2428.75	2109.52	1660.60	1200.94	834.14	561.72	391.36	274.03
120.0	2513.92	2447.93	2145.58	1624.53	1263.48	862.53	590.19	397.12	276.18
150.0	2490.14	2512.39	2274.50	1859.35	1406.60	972.27	649.20	442.01	303.80
180.0	2510.85	2493.97	2222.32	1816.38	1339.69	916.71	625.41	418.60	290.68
210.0	2532.34	2469.42	2171.67	1719.69	1255.89	867.37	578.91	393.28	274.03
240.0	2515.46	2435.65	2132.54	1670.58	1233.94	841.04	557.11	389.06	271.96
270.0	2509.32	2338.19	1950.67	1516.95	1074.02	736.14	486.52	342.71	240.42
300.0	2513.92	2317.48	1943.00	1466.46	1057.44	712.12	476.54	359.06	239.65
330.0	2490.14	2240.74	1805.64	1368.23	952.77	636.62	434.18	309.10	218.16
360.0	2510.85	2290.62	1870.10	1386.65	971.50	666.08	451.22	317.69	229.29
C/γ(°)	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0
0.0	162.84	122.93	93.93	73.44	58.93	48.81	40.98	34.92	30.54
30.0	172.89	128.77	96.61	76.43	60.70	50.42	42.13	35.91	31.46
60.0	173.66	128.77	97.92	77.20	61.16	50.11	42.05	35.99	31.46
90.0	195.53	142.81	106.74	82.57	65.23	53.56	44.66	37.99	32.77
120.0	197.22	143.12	106.13	83.18	65.30	52.95	44.05	37.06	32.23
150.0	218.93	156.01	114.65	88.17	70.29	56.40	46.66	39.44	33.84
180.0	211.34	150.94	111.81	86.25	68.45	54.94	45.51	38.91	33.69
210.0	199.52	143.58	108.58	84.10	66.30	53.56	44.89	38.52	33.23
240.0	192.46	138.97	105.82	81.65	64.77	52.64	44.12	37.60	32.84
270.0	174.73	127.46	96.23	76.35	60.78	49.73	41.75	36.07	31.16
300.0	170.13	125.39	96.54	75.05	60.70	49.88	41.75	35.84	31.31
330.0	156.70	118.10	90.24	71.67	57.71	47.27	40.29	34.76	30.16
360.0	162.84	122.93	93.93	73.44	58.93	48.81	40.98	34.92	30.54
C/γ(°)	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0
0.0	26.86	23.87	21.56	19.72	18.26	16.96	15.81	14.81	13.97
30.0	27.55	24.63	22.10	20.18	18.57	17.19	16.04	15.04	14.20
60.0	27.70	24.79	22.33	20.41	18.72	17.34	16.11	15.12	14.20
90.0	28.55	25.32	22.64	20.72	19.11	17.65	16.42	15.27	14.27
120.0	28.09	25.02	22.41	20.34	18.49	17.04	15.73	14.66	13.81
150.0	29.54	26.09	23.25	21.10	19.11	17.65	16.35	15.27	14.20
180.0	29.39	26.01	23.40	21.33	19.64	18.19	16.88	15.81	14.89
210.0	29.39	26.32	23.56	21.41	19.72	18.11	16.88	15.88	14.81
240.0	28.70	25.71	23.02	20.95	19.18	17.65	16.58	15.27	14.35
270.0	27.55	24.56	22.18	20.11	18.42	17.19	16.04	15.04	14.12
300.0	27.70	24.56	22.25	20.26	18.65	17.11	16.04	14.96	14.04
330.0	26.70	23.79	21.41	19.41	18.03	16.73	15.50	14.50	13.74
360.0	26.86	23.87	21.56	19.72	18.26	16.96	15.81	14.81	13.97
C/γ(°)	54.0	56.0	58.0	60.0	62.0	64.0	66.0	68.0	70.0
0.0	13.12	12.28	11.43	10.59	9.75	8.75	7.90	6.91	5.99
30.0	13.28	12.43	11.74	10.82	10.05	8.98	8.13	7.14	6.14
60.0	13.28	12.51	11.66	10.82	9.82	8.82	7.75	6.75	5.76
90.0	13.51	12.66	11.82	11.05	10.13	9.29	8.21	7.14	6.06
120.0	12.97	12.20	11.36	10.59	9.82	8.98	8.13	7.21	6.37
150.0	13.35	12.58	11.82	10.97	10.28	9.36	8.59	7.75	6.68
180.0	13.97	13.05	12.35	11.51	10.59	9.52	8.44	7.44	6.29
210.0	13.81	13.12	12.20	11.28	10.36	9.44	8.29	7.21	6.14
240.0	13.35	12.58	11.74	10.97	10.13	9.21	8.36	7.29	6.29
270.0	13.20	12.28	11.51	10.67	9.67	8.82	7.98	7.06	6.22
300.0	13.12	12.35	11.43	10.59	9.59	8.36	7.37	6.45	5.37
330.0	12.82	12.05	11.13	10.28	9.36	8.44	7.29	6.14	4.99
360.0	13.12	12.28	11.43	10.59	9.75	8.75	7.90	6.91	5.99

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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	4.91	3.91	2.76	1.76	0.77	0.31	0.23	0.15	0.00
30.0	5.14	4.14	3.15	2.00	0.92	0.38	0.23	0.15	0.00
60.0	4.60	3.68	2.76	2.07	1.30	0.61	0.31	0.15	0.00
90.0	5.06	4.07	3.15	2.38	1.76	1.00	0.31	0.31	0.15
120.0	5.29	4.45	3.38	2.53	1.46	0.61	0.38	0.23	0.08
150.0	5.83	4.68	3.76	2.84	1.76	0.77	0.31	0.23	0.08
180.0	5.37	4.37	3.38	2.69	2.00	1.07	0.38	0.31	0.15
210.0	4.99	3.99	3.15	2.38	1.76	0.84	0.38	0.23	0.08
240.0	5.37	4.53	3.30	2.38	1.38	0.46	0.23	0.15	0.00
270.0	5.22	4.14	3.07	2.00	0.92	0.31	0.31	0.15	0.00
300.0	4.30	3.38	2.61	1.92	1.23	0.46	0.23	0.15	0.00
330.0	4.07	3.22	2.30	1.69	0.92	0.31	0.23	0.08	0.00
360.0	4.91	3.91	2.76	1.76	0.77	0.31	0.23	0.15	0.00
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								