

浙大三色

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## ROLED

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灯具名称: 投光灯

灯具描述: F1122A-3-24DC-RC-Y (55-XL-3RGBWN-AJ, CT)

报告编号:

电压(V): 24.3000

测试编号: 20210414005

电流(A): 0.5680

光源规格型号: XL

功率(W): 13.8000

每个光源光通量(lm)

功率因数: 1.0240

光源数量: 3

镇流器型号:

发光面长度(mm): 83

发光面宽度(mm): 83

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): 613.40

灯具效能(lm/w): 44.45

中心光强(cd): 557.959

最大光强(cd): 561.873

最大光强角度:  $C=30.0$   $\gamma=0.0$

半峰边角(50%Imax): [C0/180]Total=55.6

[C90/270]Total=55.6

光束扩散角(10%Imax): [C0/180]Total=105.3

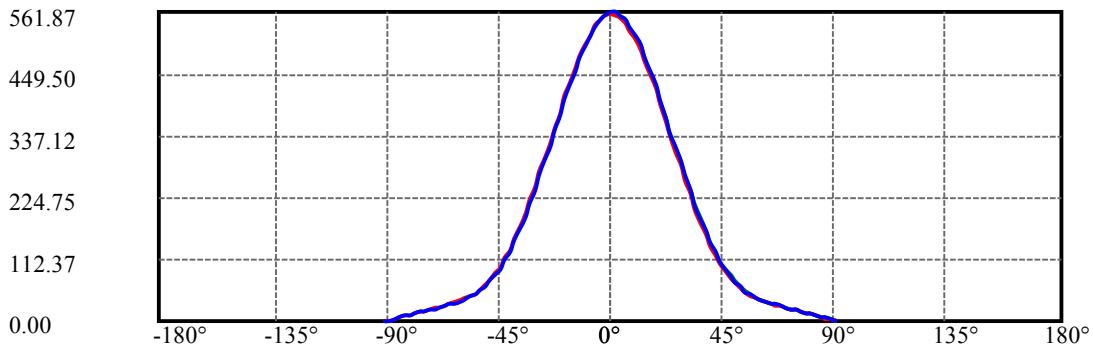
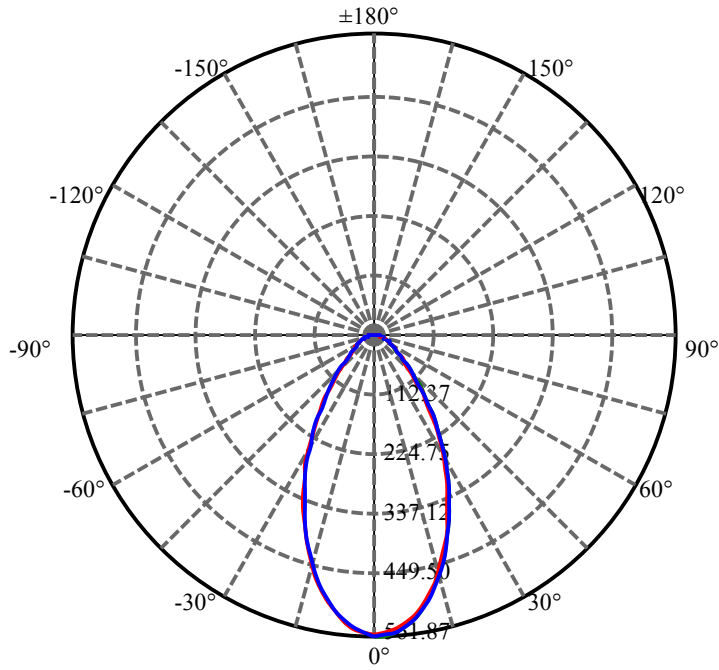
[C90/270]Total=105.2

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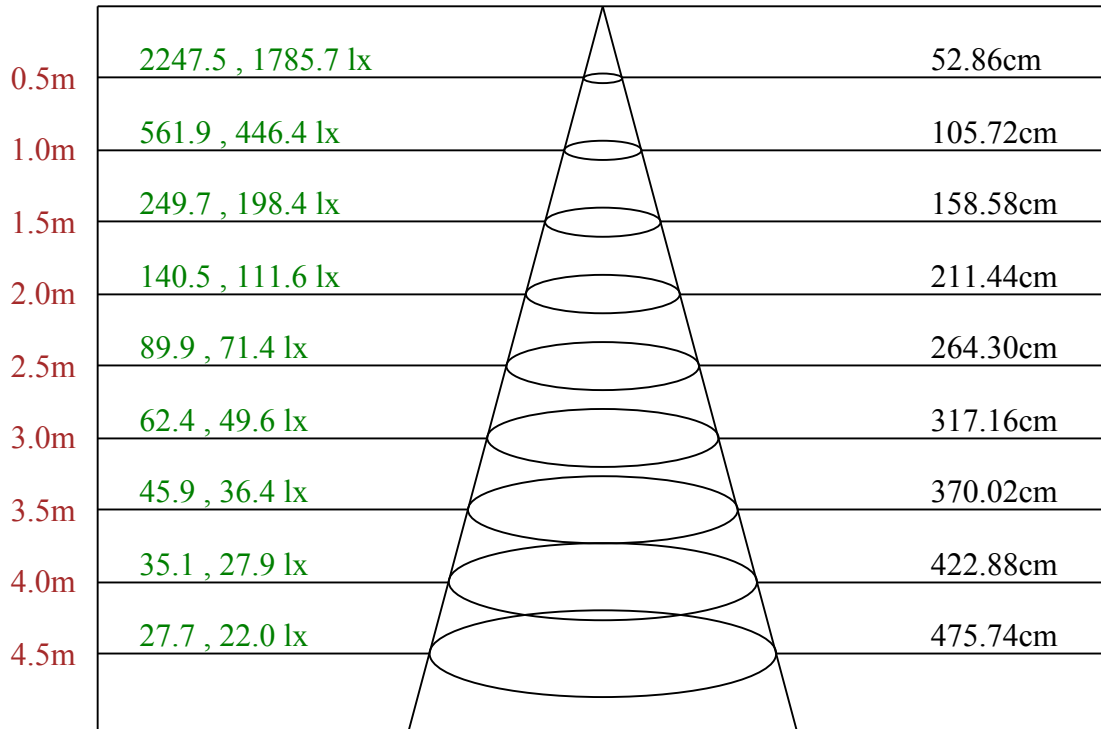
测试设备: GMS1800  
环境温度(°C): 25.0

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

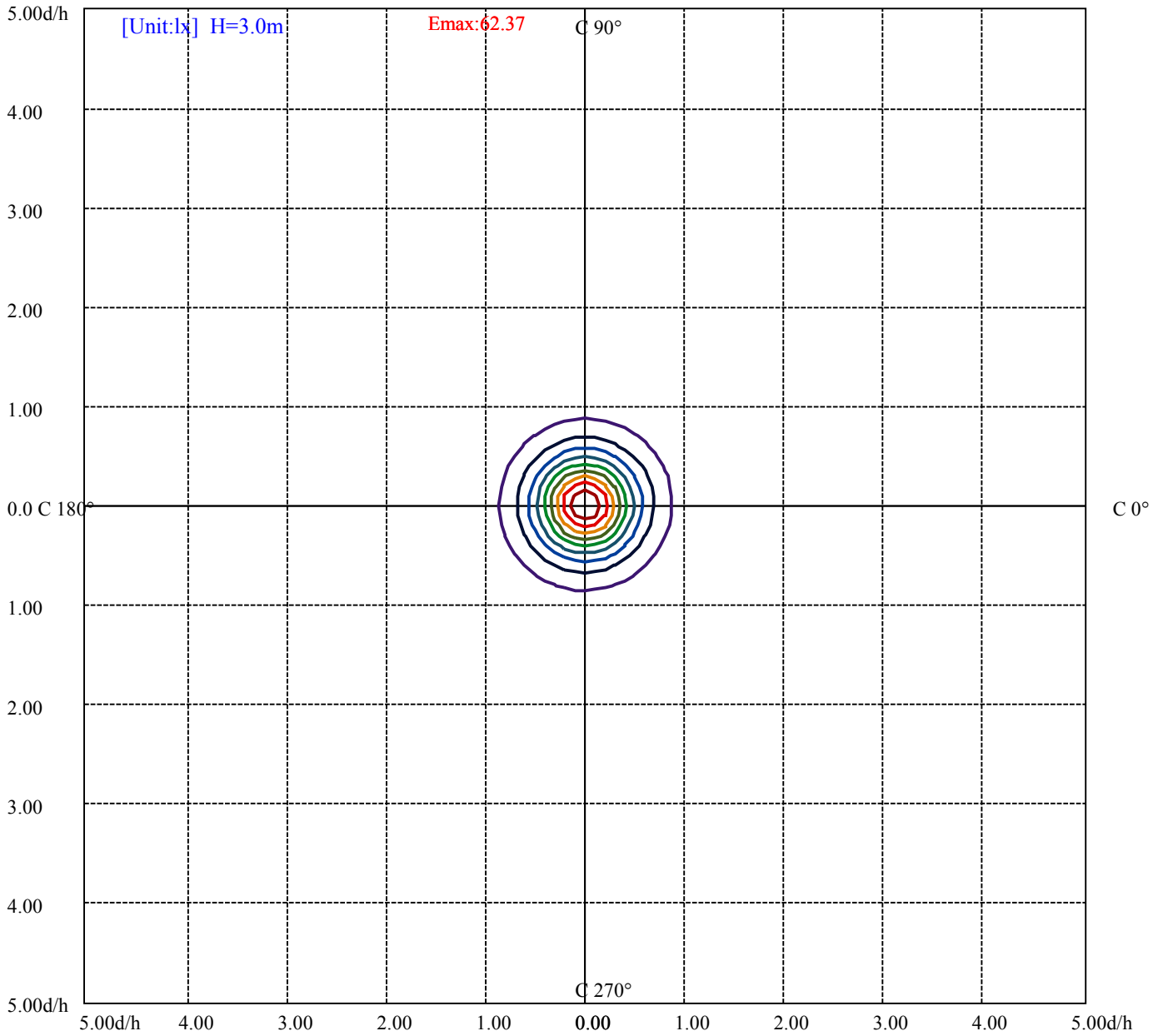


C30(Max): ——  
C0/C180: ——  
C90/C270: ——



Max , Ave    C30面光束角55.71

ROLED 投光灯  
平面等照度曲线



- (10%Emax) 6.237055
- (20%Emax) 12.47411
- (30%Emax) 18.71122
- (40%Emax) 24.94822
- (50%Emax) 31.18533
- (60%Emax) 37.42233
- (70%Emax) 43.65944
- (80%Emax) 49.89644
- (90%Emax) 56.13356

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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

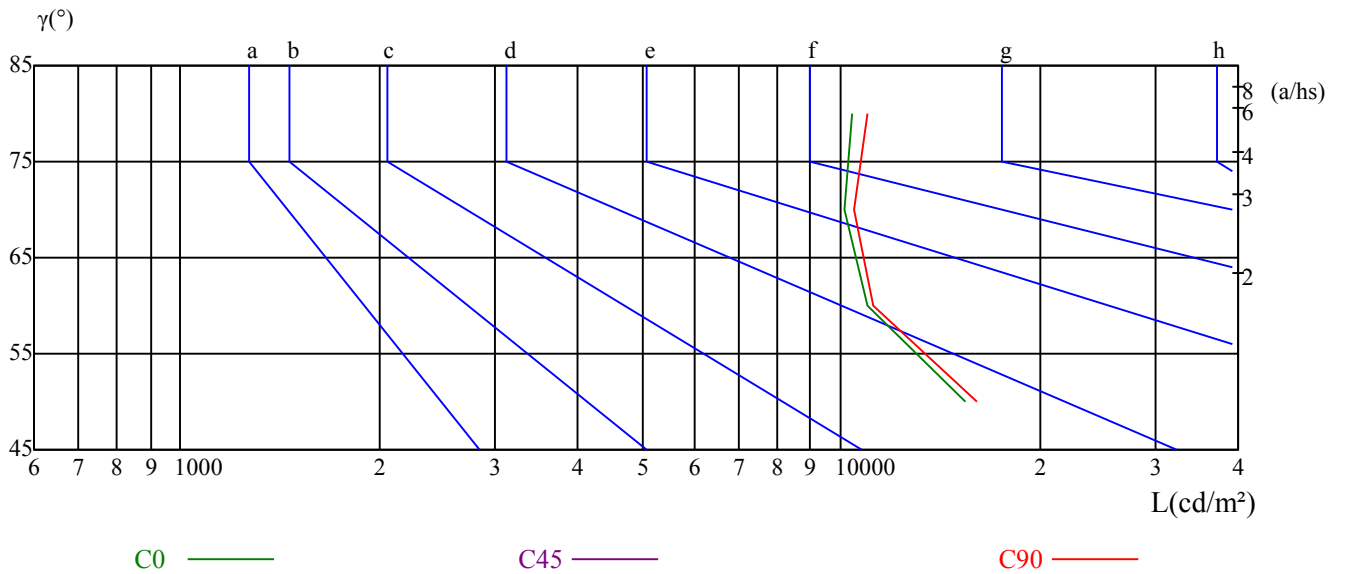
$\gamma$	45	50	55	60	65	70	75	80	85
C0	0	15458	0	10961	0	10129	0	10392	0
C45	0	0	0	0	0	0	0	0	0
C90	0	16064	0	11228	0	10487	0	10969	0

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

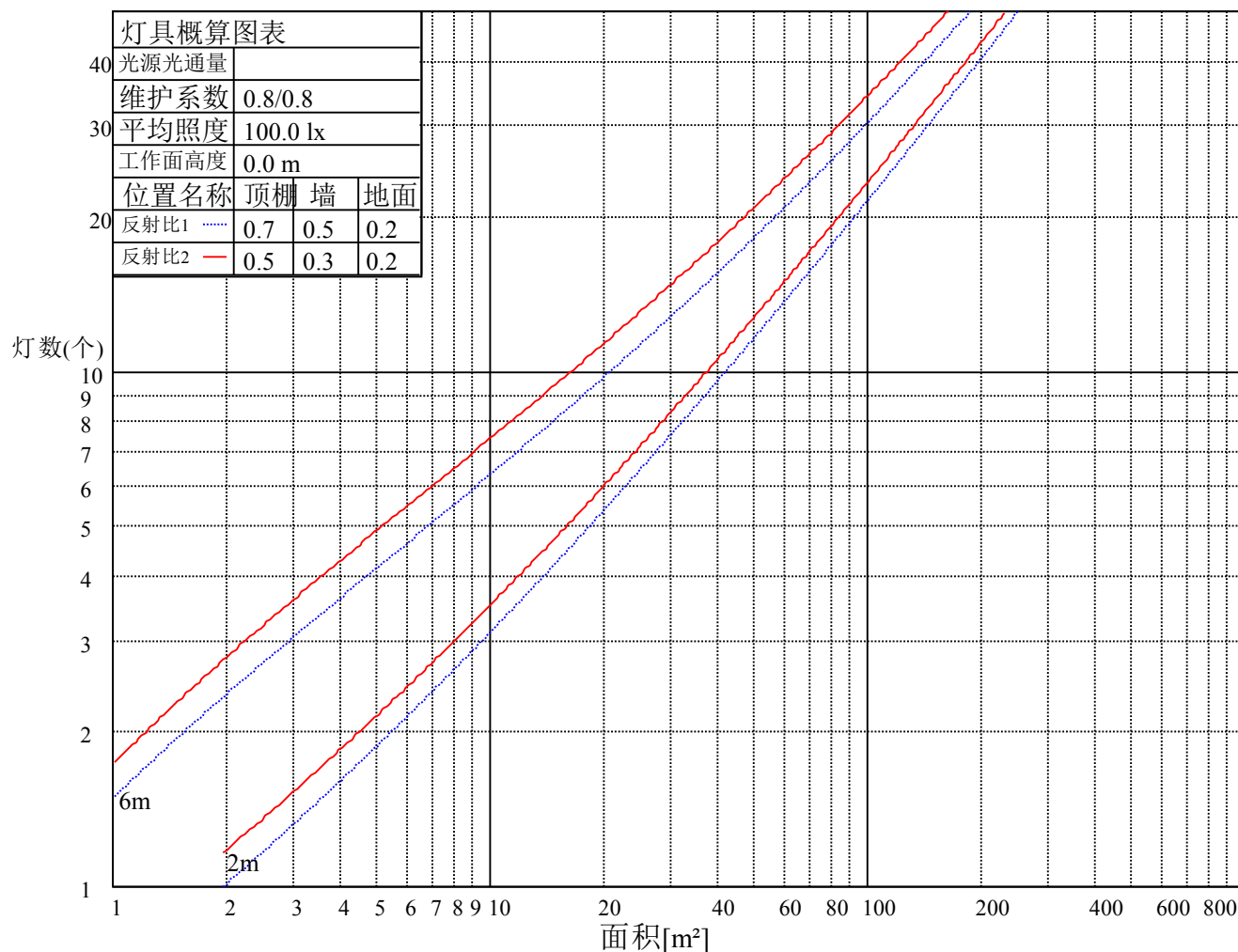
眩光等级	质量等级	使用照度(lx)							
1.15	A	2000	1000	500	$\leq 300$				
1.5	B		2000	1000	500	$\leq 300$			
1.85	C			2000	1000	500	$\leq 300$		
2.2	D				2000	1000	500	$\leq 300$	
2.55	E					2000	1000	500	$\leq 300$
		a	b	c	d	e	f	g	h

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	19.82	21.11	20.19	21.42	21.74	19.82	21.10	20.18	21.42	21.73
	3H	21.49	22.63	21.87	22.96	23.33	21.46	22.61	21.84	22.94	23.30
	4H	22.21	23.27	22.61	23.63	24.01	22.17	23.23	22.57	23.59	23.97
	6H	22.83	23.81	23.24	24.18	24.58	22.77	23.75	23.19	24.12	24.52
	8H	23.07	24.00	23.50	24.39	24.79	23.00	23.93	23.43	24.32	24.72
	12H	23.39	24.28	23.82	24.66	25.09	23.29	24.18	23.72	24.56	24.99
4H	2H	20.32	21.39	20.73	21.74	22.13	20.32	21.39	20.72	21.74	22.12
	3H	22.24	23.12	22.65	23.53	23.93	22.22	23.10	22.64	23.51	23.91
	4H	23.11	23.90	23.54	24.32	24.76	23.07	23.87	23.51	24.29	24.73
	6H	23.74	24.43	24.21	24.88	25.34	23.70	24.38	24.16	24.83	25.30
	8H	24.05	24.70	24.52	25.14	25.61	24.00	24.64	24.47	25.08	25.56
	12H	24.40	24.96	24.88	25.45	25.92	24.31	24.88	24.80	25.36	25.84
8H	4H	23.42	24.06	23.89	24.50	24.97	23.39	24.03	23.86	24.48	24.95
	6H	24.23	24.75	24.73	25.25	25.73	24.20	24.72	24.70	25.22	25.70
	8H	24.64	25.11	25.16	25.62	26.11	24.60	25.07	25.12	25.58	26.08
	12H	25.41	25.82	25.92	26.31	26.88	25.35	25.76	25.86	26.26	26.83
12H	4H	23.45	24.01	23.94	24.50	24.97	23.42	23.99	23.91	24.47	24.94
	6H	24.91	24.78	24.84	25.25	25.80	24.88	24.76	24.81	25.22	25.77
	8H	24.78	25.19	25.30	25.69	26.26	24.75	25.16	25.26	25.65	26.23
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/-1.2					2.1/-1.2					
标准表格	BK3					BK4					
更正系数	5.2					5.6					

# ROLED 投光灯 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	1.01	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	0.83	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	0.82	0.78	0.75	0.80	0.76	0.73	0.72
4	0.82	0.75	0.70	0.81	0.74	0.69	0.78	0.73	0.68	0.76	0.71	0.67	0.74	0.70	0.67	0.65
5	0.75	0.68	0.63	0.74	0.68	0.63	0.72	0.67	0.62	0.71	0.65	0.61	0.69	0.64	0.61	0.59
6	0.70	0.63	0.57	0.69	0.62	0.57	0.67	0.61	0.57	0.66	0.60	0.56	0.64	0.60	0.56	0.54
7	0.65	0.58	0.53	0.64	0.57	0.52	0.63	0.57	0.52	0.61	0.56	0.52	0.60	0.55	0.52	0.50
8	0.60	0.53	0.49	0.60	0.53	0.48	0.59	0.53	0.48	0.58	0.52	0.48	0.56	0.51	0.48	0.46
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	0.44	0.43
10	0.53	0.46	0.42	0.53	0.46	0.42	0.52	0.46	0.42	0.51	0.46	0.42	0.50	0.45	0.42	0.40



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	557.96	556.12	550.06	540.62	527.88	512.45	491.81	471.09	446.54
30.0	561.87	561.41	555.50	547.14	534.09	518.13	498.87	476.69	451.45
60.0	560.80	560.18	554.35	545.22	531.87	515.52	496.49	472.86	447.46
90.0	560.34	560.34	556.42	547.14	535.24	518.98	500.87	478.69	453.90
120.0	559.72	559.19	554.43	545.91	532.94	516.75	498.26	475.24	450.76
150.0	558.50	557.50	552.51	543.53	530.49	513.99	495.65	472.78	446.84
180.0	557.96	555.43	547.60	536.63	521.43	504.01	482.99	460.12	434.03
210.0	561.87	557.50	548.37	535.63	518.82	499.41	477.00	453.37	425.82
240.0	560.80	556.88	547.75	535.32	519.51	500.94	478.38	454.13	426.97
270.0	560.34	555.73	546.76	533.94	518.82	499.79	478.61	454.90	429.65
300.0	559.72	556.04	548.83	537.85	524.12	507.08	488.13	465.72	439.94
330.0	558.50	554.97	548.21	538.31	524.35	507.54	488.90	466.18	441.70
360.0	557.96	556.12	550.06	540.62	527.88	512.45	491.81	471.09	446.54
C/γ(°)	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0
0.0	420.75	393.51	364.58	337.26	308.56	281.86	254.62	229.98	203.35
30.0	424.67	397.81	369.03	342.33	314.85	288.23	262.44	237.58	211.95
60.0	421.98	393.36	366.81	339.41	312.63	285.85	261.37	235.74	209.88
90.0	428.50	400.34	371.33	343.09	316.31	288.84	263.59	236.81	210.95
120.0	423.90	394.66	365.27	337.88	309.18	280.94	255.46	228.75	203.89
150.0	420.75	391.52	362.89	332.20	305.19	277.18	251.70	225.22	199.67
180.0	406.94	378.62	350.23	323.83	296.28	270.65	244.87	219.01	193.99
210.0	397.81	369.65	342.40	316.16	290.76	266.05	241.49	216.71	191.77
240.0	400.42	373.64	346.16	320.23	294.29	268.43	242.80	219.01	194.22
270.0	402.11	373.17	345.17	317.69	292.14	263.98	239.04	213.33	188.93
300.0	413.46	385.07	355.91	326.60	299.51	270.81	244.56	217.93	192.07
330.0	414.38	384.92	355.45	326.37	298.05	269.81	244.26	217.40	191.84
360.0	420.75	393.51	364.58	337.26	308.56	281.86	254.62	229.98	203.35
C/γ(°)	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0
0.0	179.03	158.08	137.36	119.25	103.60	90.24	78.04	68.45	59.39
30.0	187.32	165.29	143.96	126.00	109.35	94.77	82.11	71.67	62.16
60.0	185.55	163.60	142.42	124.70	108.05	93.62	81.19	70.75	61.31
90.0	186.63	163.60	143.65	124.85	109.04	94.31	81.65	71.14	61.62
120.0	178.65	157.47	137.21	119.33	104.21	90.32	78.73	67.76	59.32
150.0	177.19	155.24	135.44	117.95	103.14	89.40	77.97	67.61	58.78
180.0	171.89	150.18	130.61	114.19	99.14	85.79	74.36	65.00	56.71
210.0	170.20	148.95	129.23	113.11	98.07	85.33	74.05	64.23	55.86
240.0	171.97	150.71	130.84	113.49	98.61	85.72	74.05	64.61	56.17
270.0	165.98	145.19	126.69	110.35	95.69	82.57	72.21	62.77	54.87
300.0	168.75	147.87	129.38	112.34	98.61	85.26	73.82	64.84	56.33
330.0	169.74	148.56	130.07	113.42	98.61	85.18	74.51	64.61	56.10
360.0	179.03	158.08	137.36	119.25	103.60	90.24	78.04	68.45	59.39
C/γ(°)	54.0	56.0	58.0	60.0	62.0	64.0	66.0	68.0	70.0
0.0	52.03	46.20	41.67	37.75	34.69	31.85	29.01	26.40	23.87
30.0	54.18	48.19	42.97	38.83	35.38	32.54	29.85	27.17	24.63
60.0	53.64	47.73	42.67	38.60	35.15	32.31	29.62	27.09	24.56
90.0	53.95	47.65	42.74	38.68	35.30	32.38	29.77	27.24	24.71
120.0	52.03	46.43	41.75	37.75	34.61	31.62	28.93	26.17	23.87
150.0	51.95	45.89	41.44	37.52	34.38	31.46	28.62	26.01	23.56
180.0	50.34	44.89	40.36	36.76	33.46	30.77	28.01	25.48	22.94
210.0	49.73	44.28	39.83	36.53	33.38	30.39	27.86	25.32	22.87
240.0	49.50	44.20	39.98	36.37	33.30	30.62	28.01	25.40	22.94
270.0	48.88	43.74	39.44	35.99	32.92	30.16	27.70	25.09	22.64
300.0	49.73	44.35	40.13	36.53	33.61	30.85	28.16	25.63	23.33
330.0	49.80	44.43	40.06	36.53	33.69	30.93	28.39	25.86	23.40
360.0	52.03	46.20	41.67	37.75	34.69	31.85	29.01	26.40	23.87

# ROLED 投光灯

## 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	21.64	19.34	16.88	14.66	12.43	10.13	7.60	4.91	1.84
30.0	22.18	19.88	17.42	15.19	13.05	10.74	8.29	5.99	2.92
60.0	22.18	19.80	17.27	15.04	12.82	10.44	7.98	5.45	2.38
90.0	22.25	20.03	17.73	15.35	13.12	10.82	8.52	5.76	2.30
120.0	21.56	19.26	16.73	14.43	12.20	9.98	7.52	4.76	1.76
150.0	21.18	18.72	16.58	14.35	12.20	9.90	7.37	4.30	1.00
180.0	20.49	18.11	15.81	13.58	11.36	9.06	6.60	3.76	0.46
210.0	20.49	18.19	15.88	13.58	11.43	8.98	6.52	3.07	0.08
240.0	20.64	18.26	15.88	13.43	10.74	7.98	6.06	3.07	0.08
270.0	20.41	18.11	15.73	13.51	11.43	9.13	6.83	3.68	0.00
300.0	20.95	18.65	16.35	14.04	11.89	9.52	6.91	3.76	0.31
330.0	21.18	18.57	16.50	14.12	12.05	9.59	7.14	4.22	1.00
360.0	21.64	19.34	16.88	14.66	12.43	10.13	7.60	4.91	1.84
C/γ(°)	90.0								
0.0	0.00								
30.0	0.00								
60.0	0.00								
90.0	0.08								
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								