

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 (40-XL-3RGBWN-AJ, CT)

报告编号:

电压(V): 24.1000

测试编号: 20210413006

电流(A): 0.5710

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): 612.07

灯具效能(lm/w): 44.35

中心光强(cd): 891.538

最大光强(cd): 896.679

最大光强角度:  $C=30.0$   $\gamma=2.0$

半峰边角(50%Imax): [C0/180]Total=41.6

[C90/270]Total=41.9

光束扩散角(10%Imax): [C0/180]Total=78.4

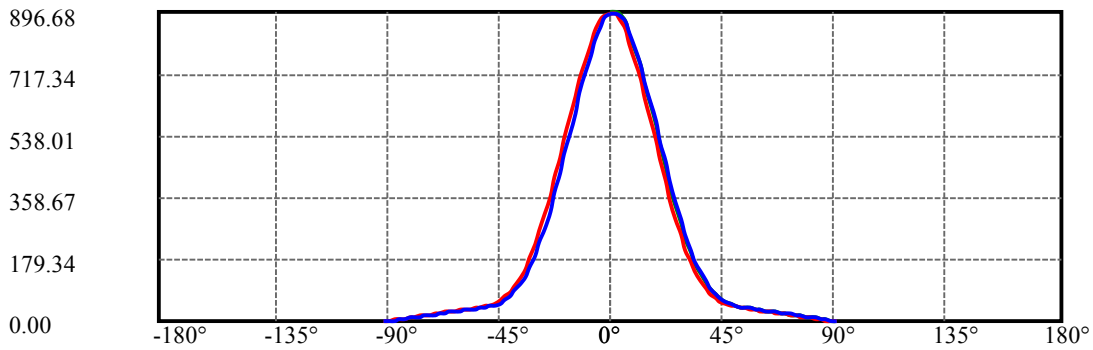
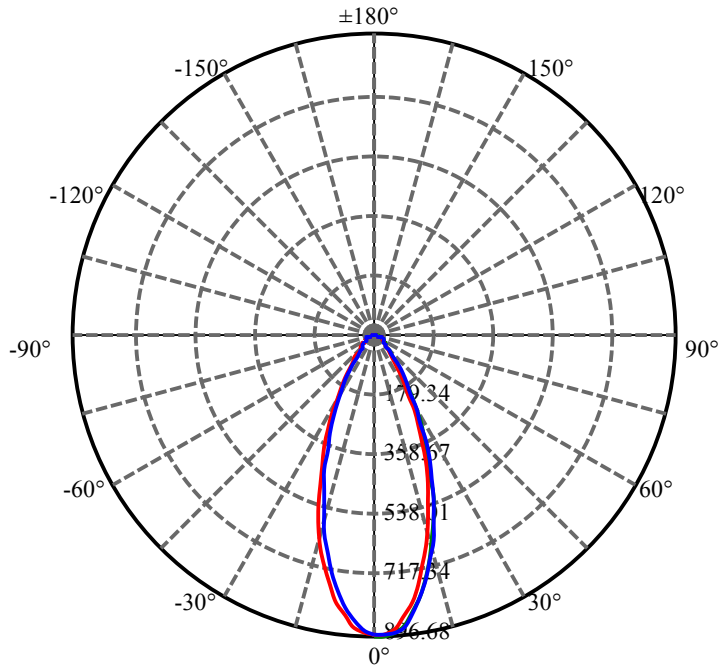
[C90/270]Total=78.6

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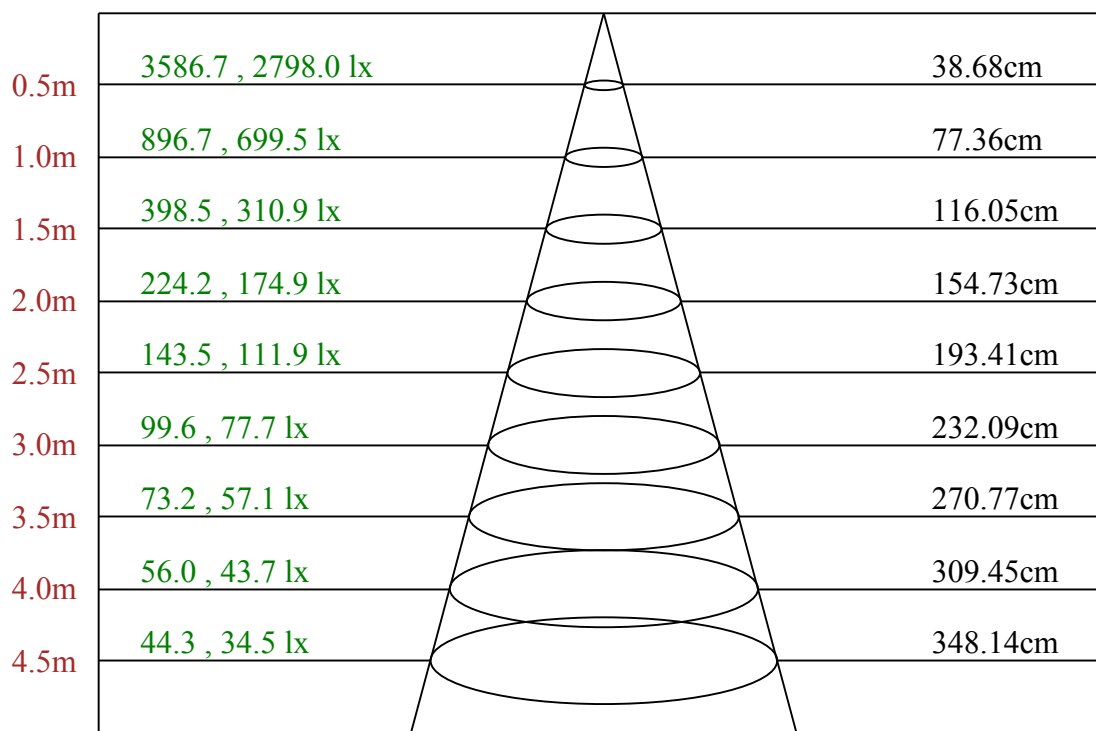
测试设备: GMS1800  
环境温度(°C): 25.0

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

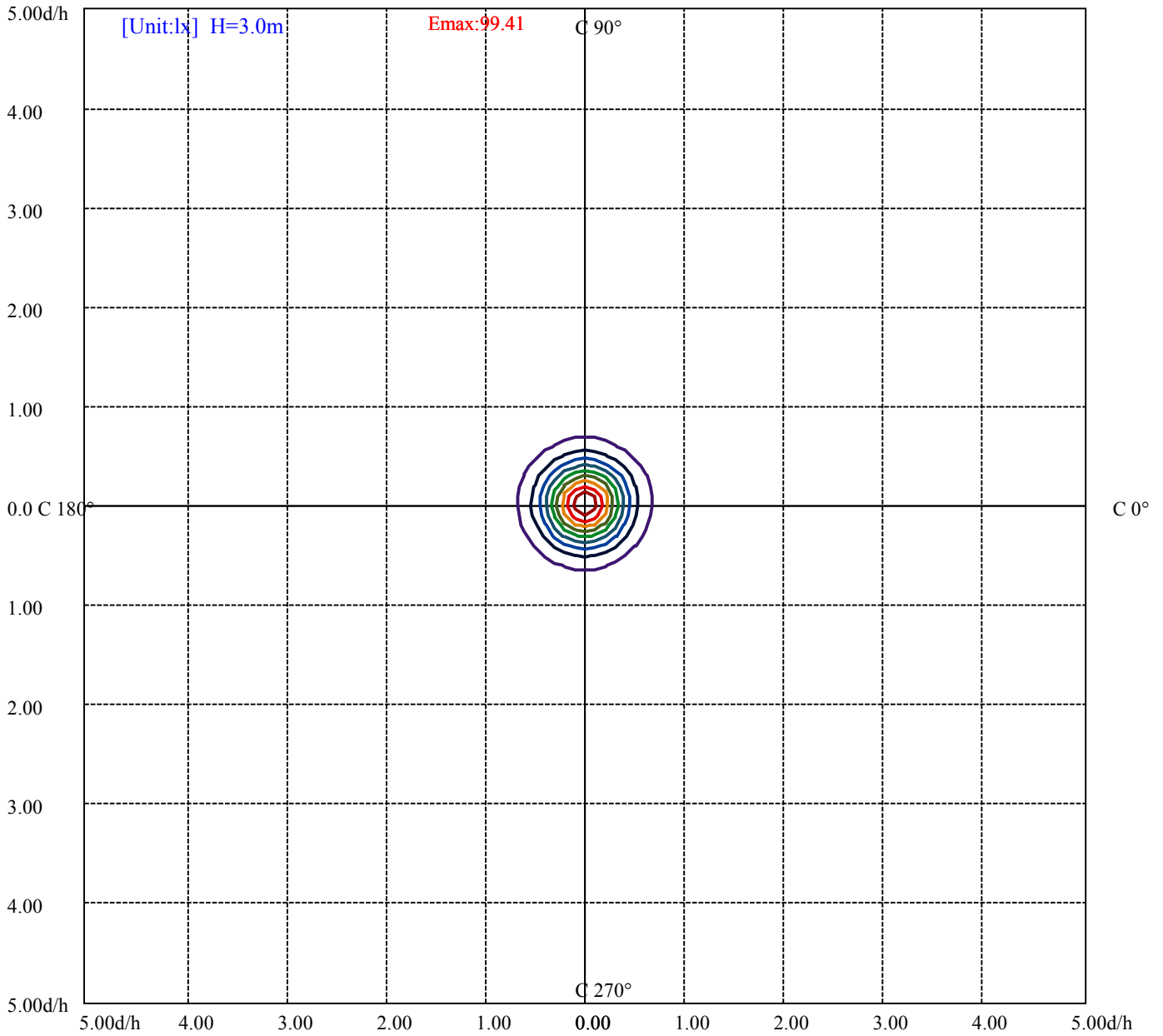


C30(Max): ————  
C0/C180: ————  
C90/C270: ————



Max , Ave    C30面光束角42.28

ROLED 投光灯  
平面等照度曲线



- |                    |   |
|--------------------|---|
| (10%Emax) 9.9405   | — |
| (20%Emax) 19.881   | — |
| (30%Emax) 29.82156 | — |
| (40%Emax) 39.762   | — |
| (50%Emax) 49.70256 | — |
| (60%Emax) 59.643   | — |
| (70%Emax) 69.58356 | — |
| (80%Emax) 79.524   | — |
| (90%Emax) 89.46456 | — |

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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

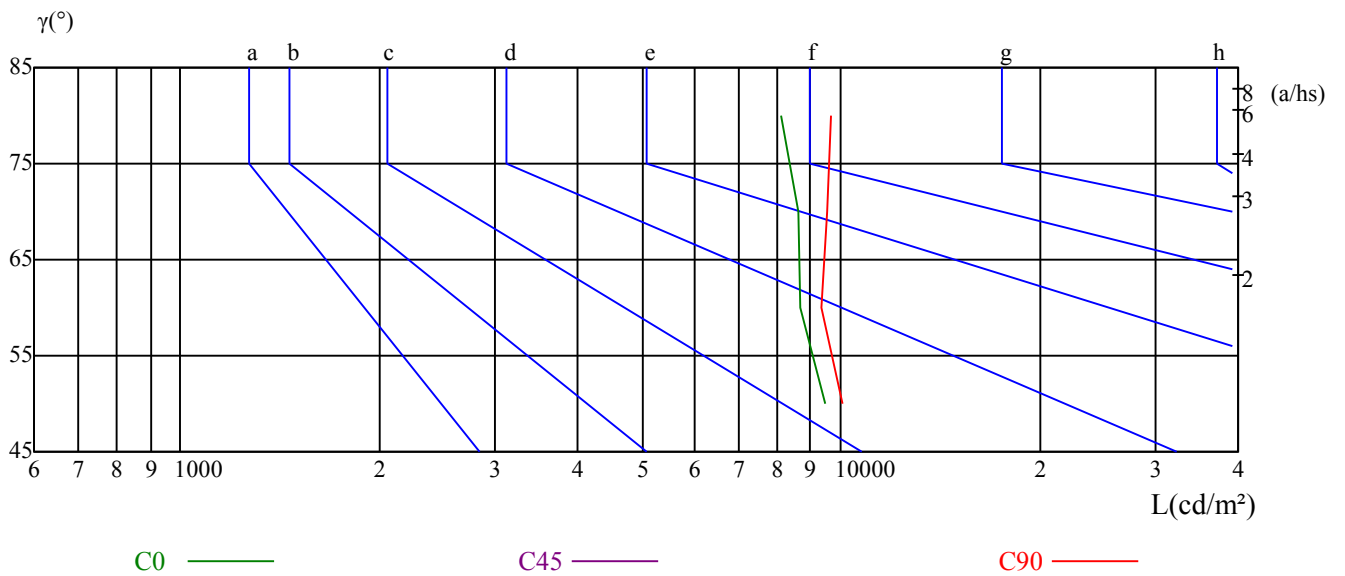
$\gamma$	45	50	55	60	65	70	75	80	85
C0	0	9462	0	8711	0	8631	0	8147	0
C45	0	0	0	0	0	0	0	0	0
C90	0	10068	0	9357	0	9510	0	9686	0

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

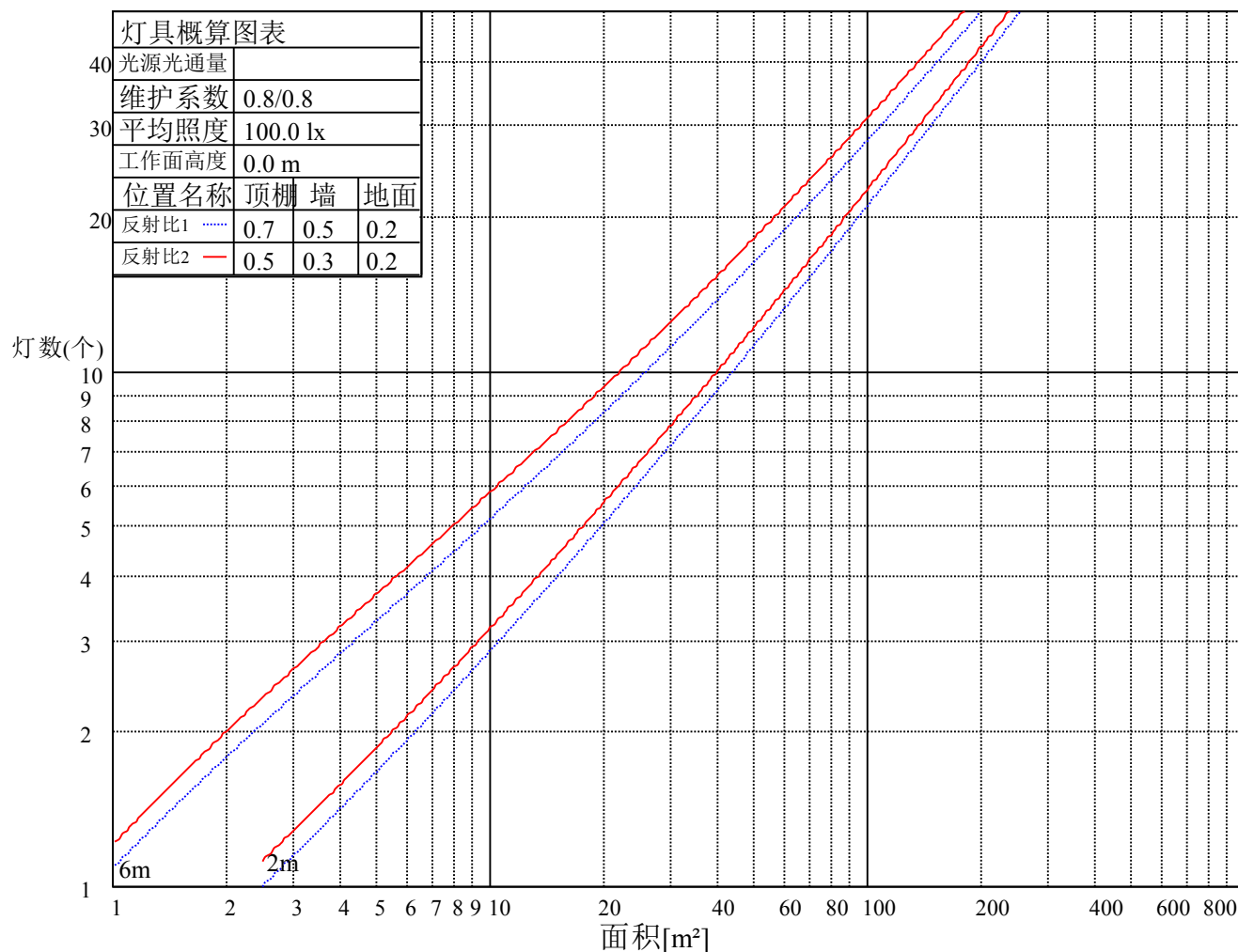
眩光等级	质量等级	使用照度(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	18.29	19.46	18.65	19.78	20.09	18.22	19.40	18.59	19.71	20.03
	3H	20.27	21.32	20.65	21.65	22.02	20.19	21.24	20.58	21.57	21.94
	4H	21.07	22.05	21.48	22.40	22.79	20.99	21.97	21.40	22.32	22.71
	6H	21.71	22.61	22.13	22.98	23.38	21.63	22.53	22.04	22.90	23.29
	8H	21.93	22.78	22.36	23.17	23.58	21.85	22.70	22.28	23.09	23.49
	12H	22.19	23.00	22.62	23.39	23.82	22.10	22.92	22.54	23.30	23.73
4H	2H	18.89	19.87	19.29	20.22	20.61	18.84	19.82	19.24	20.17	20.55
	3H	21.11	21.91	21.52	22.32	22.72	21.02	21.83	21.44	22.24	22.64
	4H	22.04	22.76	22.48	23.19	23.63	21.95	22.68	22.39	23.10	23.54
	6H	22.68	23.31	23.15	23.76	24.22	22.59	23.22	23.06	23.67	24.13
	8H	22.96	23.55	23.44	24.00	24.47	22.87	23.46	23.35	23.91	24.38
	12H	23.24	23.75	23.73	24.23	24.71	23.14	23.66	23.63	24.14	24.62
8H	4H	22.36	22.94	22.83	23.39	23.86	22.28	22.87	22.75	23.31	23.79
	6H	23.18	23.65	23.68	24.15	24.63	23.10	23.57	23.60	24.07	24.55
	8H	23.55	23.97	24.08	24.49	24.99	23.47	23.89	24.00	24.41	24.90
	12H	24.26	24.63	24.78	25.13	25.70	24.18	24.54	24.70	25.04	25.61
12H	4H	22.38	22.89	22.87	23.38	23.85	22.31	22.82	22.80	23.31	23.78
	6H	23.73	23.68	23.78	24.14	24.69	23.65	23.60	23.71	24.07	24.61
	8H	23.69	24.05	24.20	24.55	25.12	23.61	23.97	24.13	24.47	25.04
对应照射距离，改变观察者位置S											
S = 1.0H	0.8/-0.8					0.7/-0.8					
S = 1.5H	1.2/-0.8					1.2/-0.9					
S = 2.0H	2.1/-0.8					2.0/-0.9					
标准表格	BKBF					BK4					
更正系数	7.0					3.6					

# 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	1.09	1.06	1.03	1.07	1.04	1.02	1.03	1.00	0.99	0.99	0.97	0.96	0.95	0.94	0.93	0.91
2	1.00	0.95	0.91	0.98	0.94	0.90	0.95	0.91	0.88	0.92	0.89	0.86	0.89	0.87	0.85	0.83
3	0.92	0.87	0.82	0.91	0.86	0.82	0.88	0.84	0.80	0.86	0.82	0.79	0.83	0.80	0.78	0.76
4	0.86	0.80	0.75	0.85	0.79	0.74	0.82	0.77	0.74	0.80	0.76	0.73	0.78	0.75	0.72	0.70
5	0.80	0.74	0.69	0.79	0.73	0.69	0.77	0.72	0.68	0.76	0.71	0.67	0.74	0.70	0.67	0.65
6	0.75	0.69	0.64	0.74	0.68	0.64	0.73	0.67	0.63	0.71	0.66	0.63	0.70	0.66	0.62	0.61
7	0.71	0.64	0.60	0.70	0.64	0.60	0.69	0.63	0.59	0.67	0.63	0.59	0.66	0.62	0.59	0.57
8	0.67	0.60	0.56	0.66	0.60	0.56	0.65	0.60	0.56	0.64	0.59	0.55	0.63	0.58	0.55	0.54
9	0.63	0.57	0.53	0.63	0.57	0.53	0.62	0.56	0.53	0.61	0.56	0.52	0.60	0.55	0.52	0.51
10	0.60	0.54	0.50	0.59	0.54	0.50	0.59	0.53	0.50	0.58	0.53	0.50	0.57	0.53	0.49	0.48



ROLED 投光灯

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	891.54	888.77	875.04	844.73	801.75	752.72	699.00	645.13	584.74
30.0	895.14	896.68	890.00	869.74	831.84	787.94	738.14	684.27	629.48
60.0	894.15	895.45	889.62	868.75	830.84	786.33	740.13	686.19	631.55
90.0	892.69	893.61	888.31	871.05	834.60	789.17	742.59	689.72	636.92
120.0	892.69	891.84	884.94	860.15	819.86	774.51	723.33	669.69	615.44
150.0	891.46	889.24	882.02	854.47	816.87	769.91	719.72	667.46	610.45
180.0	891.54	887.39	872.12	839.51	801.29	753.87	701.54	650.50	591.19
210.0	895.14	888.62	860.92	825.77	780.50	732.61	677.52	624.18	565.10
240.0	894.15	887.16	860.69	823.55	777.97	728.09	675.75	618.89	557.73
270.0	892.69	881.79	853.78	814.42	768.37	719.03	663.47	603.62	542.84
300.0	892.69	884.40	861.07	824.93	779.81	729.54	672.22	615.28	553.20
330.0	891.46	884.63	863.07	826.69	783.95	732.61	677.59	619.96	563.33
360.0	891.54	888.77	875.04	844.73	801.75	752.72	699.00	645.13	584.74
C/γ(°)	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0
0.0	525.12	468.71	407.25	349.69	297.05	250.01	208.11	171.97	142.12
30.0	568.86	512.15	447.99	391.59	335.73	286.69	240.42	200.21	166.90
60.0	570.70	509.15	447.61	390.36	333.27	280.86	236.89	196.29	162.07
90.0	578.06	519.59	459.89	404.48	347.70	294.67	249.63	207.96	173.43
120.0	557.19	497.41	439.02	385.07	331.05	282.47	236.66	195.91	161.15
150.0	553.66	494.80	436.25	378.16	326.44	276.41	232.13	195.14	161.23
180.0	531.87	472.63	415.84	359.82	310.10	262.37	220.01	182.25	149.87
210.0	508.31	448.68	390.67	338.72	286.92	240.80	201.21	167.44	138.13
240.0	500.79	441.39	384.15	329.13	279.32	233.36	196.22	162.53	133.83
270.0	487.21	426.97	371.72	318.61	269.27	226.22	190.54	156.70	128.84
300.0	495.80	436.71	378.01	327.06	276.87	230.29	191.46	159.46	131.07
330.0	505.47	445.92	390.75	336.49	284.77	238.65	200.13	163.91	136.21
360.0	525.12	468.71	407.25	349.69	297.05	250.01	208.11	171.97	142.12
C/γ(°)	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0
0.0	117.72	96.77	79.73	67.68	57.63	50.19	45.28	41.90	39.14
30.0	138.05	113.49	93.16	77.66	64.84	55.71	48.88	44.58	41.44
60.0	134.29	111.88	92.32	76.43	65.00	55.71	49.42	45.28	42.36
90.0	142.81	117.49	96.54	79.12	66.30	56.33	49.50	44.58	41.59
120.0	134.14	110.35	90.63	75.51	63.39	54.33	48.11	43.97	41.21
150.0	134.60	109.73	90.78	74.82	63.00	53.87	47.65	43.89	40.52
180.0	124.55	102.29	84.72	70.52	59.78	51.64	46.20	43.20	39.90
210.0	114.03	94.16	77.43	64.69	55.10	48.96	45.12	41.98	39.37
240.0	111.50	91.85	75.59	63.85	55.40	48.81	44.81	42.28	39.37
270.0	107.20	87.25	72.44	60.47	52.26	46.43	42.67	39.67	37.22
300.0	108.12	89.86	73.74	62.16	53.33	47.42	43.13	40.52	37.75
330.0	112.27	91.24	75.82	63.39	53.79	47.35	43.20	39.90	37.29
360.0	117.72	96.77	79.73	67.68	57.63	50.19	45.28	41.90	39.14
C/γ(°)	54.0	56.0	58.0	60.0	62.0	64.0	66.0	68.0	70.0
0.0	36.22	33.99	31.77	30.00	28.16	26.24	24.48	22.48	20.34
30.0	38.45	36.30	33.69	31.62	29.47	27.32	25.40	23.40	21.33
60.0	39.37	36.76	34.30	32.08	29.93	28.16	26.09	24.10	22.10
90.0	38.91	36.45	34.30	32.23	30.39	28.32	26.32	24.25	22.41
120.0	38.37	36.07	33.69	31.46	29.24	27.47	25.48	23.48	21.56
150.0	37.83	35.53	33.30	31.16	29.08	26.93	24.79	22.71	20.87
180.0	37.29	35.07	32.92	30.85	29.01	27.17	25.25	23.25	21.18
210.0	37.14	34.84	32.69	30.54	28.55	26.70	24.56	22.48	20.49
240.0	36.83	34.38	32.38	30.46	28.70	26.70	24.86	22.71	20.72
270.0	35.30	33.38	31.54	29.62	27.63	25.55	23.56	21.56	19.41
300.0	35.61	33.23	31.31	29.31	27.55	25.71	23.79	21.87	19.64
330.0	35.22	33.15	31.16	29.16	27.17	25.17	23.33	21.41	19.34
360.0	36.22	33.99	31.77	30.00	28.16	26.24	24.48	22.48	20.34

# 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	18.19	16.04	13.81	11.82	9.75	7.37	5.06	2.53	0.15
30.0	19.11	17.19	15.04	12.97	10.82	8.75	6.52	4.22	1.30
60.0	19.88	17.65	15.58	13.43	11.20	8.90	6.45	3.99	1.38
90.0	20.18	18.03	15.88	13.74	11.59	9.21	6.75	4.30	1.84
120.0	19.41	17.42	15.35	13.28	11.05	8.98	6.52	4.14	1.76
150.0	18.95	16.81	14.89	12.82	10.74	8.75	6.68	4.68	2.00
180.0	18.95	16.96	14.66	12.51	10.51	8.29	5.99	3.76	1.38
210.0	18.26	16.11	13.97	11.89	9.67	7.44	5.14	2.46	0.31
240.0	18.34	16.19	14.04	11.89	9.82	7.37	4.99	2.38	0.15
270.0	17.34	15.12	13.05	10.97	8.90	6.83	4.68	2.15	0.08
300.0	17.73	15.50	13.35	11.43	9.21	6.98	4.53	2.00	0.08
330.0	17.42	15.27	13.28	11.13	8.98	6.60	4.30	1.84	0.08
360.0	18.19	16.04	13.81	11.82	9.75	7.37	5.06	2.53	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	0.08
210.0	0.00
240.0	0.00
270.0	0.00
300.0	0.00
330.0	0.00
360.0	0.00