

浙大三色

Email:sensing@sensingm.com

Tel:+86 571 85021543 Fax:+86 571 87977635

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## ROLED

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灯具名称: 投光灯

灯具描述: F1014A-18-UN (20-OL-18WN-AJ, CT)

报告编号:

电压(V): 220.4000

测试编号: 20210417008

电流(A): 0.1120

光源规格型号: OL

功率(W): 23.2000

每个光源光通量(lm)

功率因数: 0.9430

光源数量: 18

镇流器型号:

发光面长度(mm): 162

发光面宽度(mm): 162

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): 1907.55

灯具效能(lm/w): 82.22

中心光强(cd): 8355.189

最大光强(cd): 8402.768

最大光强角度:  $C=30.0$   $\gamma=0.0$

半峰边角(50%Imax): [C0/180]Total=21.7

[C90/270]Total=21.5

光束扩散角(10%Imax): [C0/180]Total=43.1

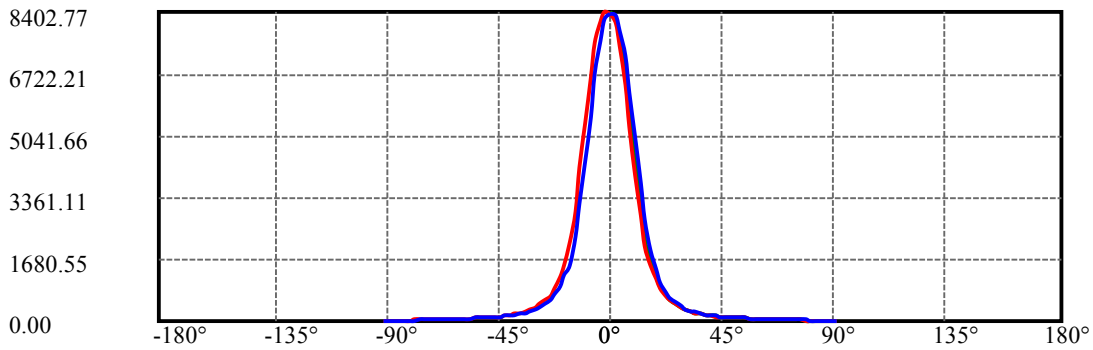
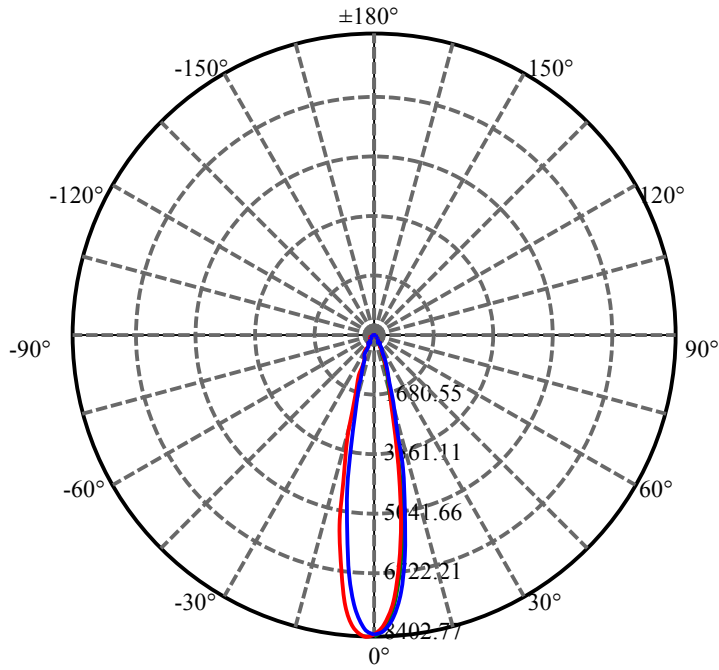
[C90/270]Total=42.9

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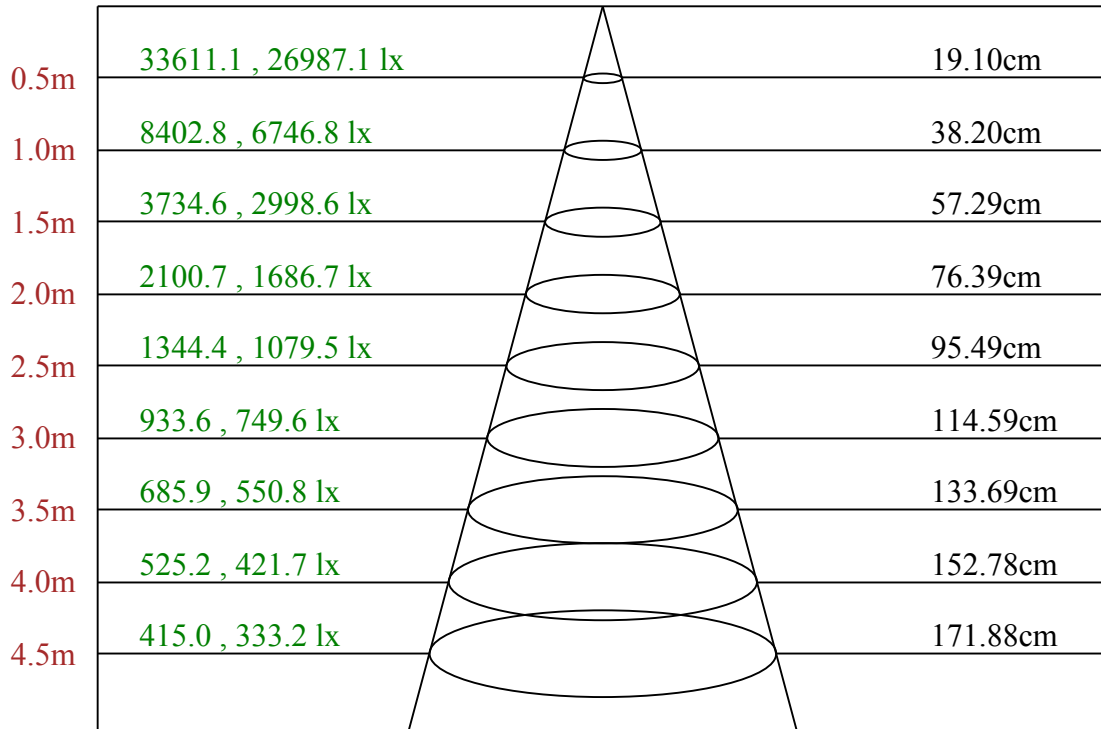
测试设备: GMS1800  
环境温度(°C): 25.0

测试日期: 2021/4/17  
环境湿度(%): 60.0%

测试人员: anpeilou  
测试距离(m): 8.76

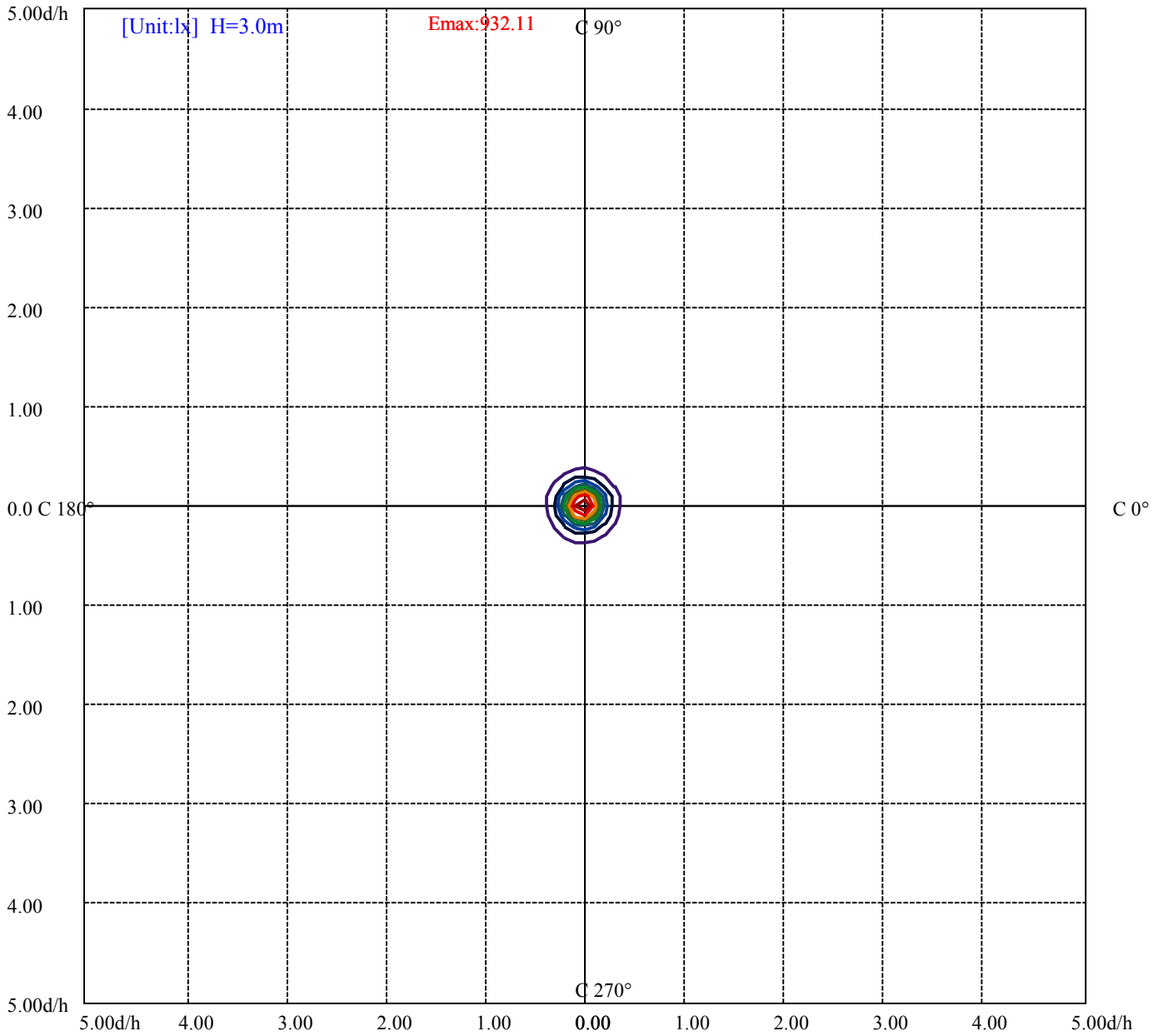


C30(Max): —  
C0/C180: —  
C90/C270: —



Max , Ave    C30面光束角21.62

ROLED 投光灯  
平面等照度曲线



- (10%Emax) 93.21033
- (20%Emax) 186.4211
- (30%Emax) 279.6311
- (40%Emax) 372.8411
- (50%Emax) 466.0522
- (60%Emax) 559.2622
- (70%Emax) 652.4722
- (80%Emax) 745.6833
- (90%Emax) 838.8933

测试设备: GMS1800  
环境温度(°C): 25.0

测试日期: 2021/4/17  
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测试人员: anpeilou  
测试距离(m): 8.76

# ROLED 投光灯

## 灯具的亮度限制曲线(灯具无发光侧边)

亮度值表

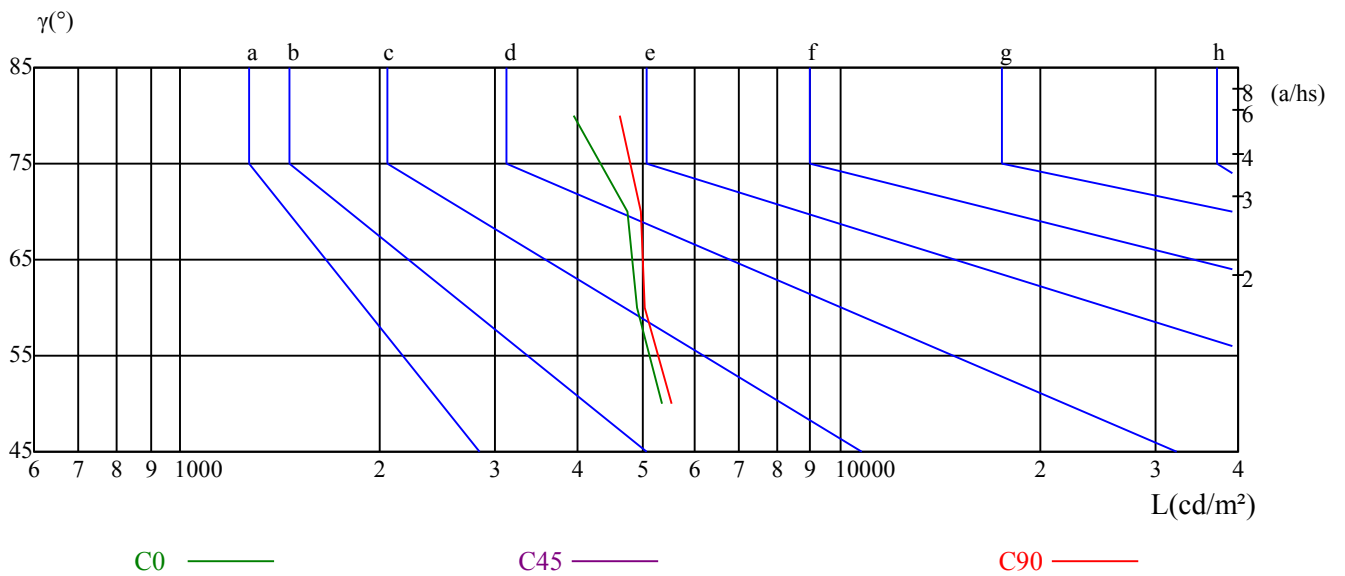
$\gamma$	45	50	55	60	65	70	75	80	85
C0	0	5359	0	4906	0	4745	0	3940	0
C45	0	0	0	0	0	0	0	0	0
C90	0	5532	0	5041	0	4984	0	4614	0

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

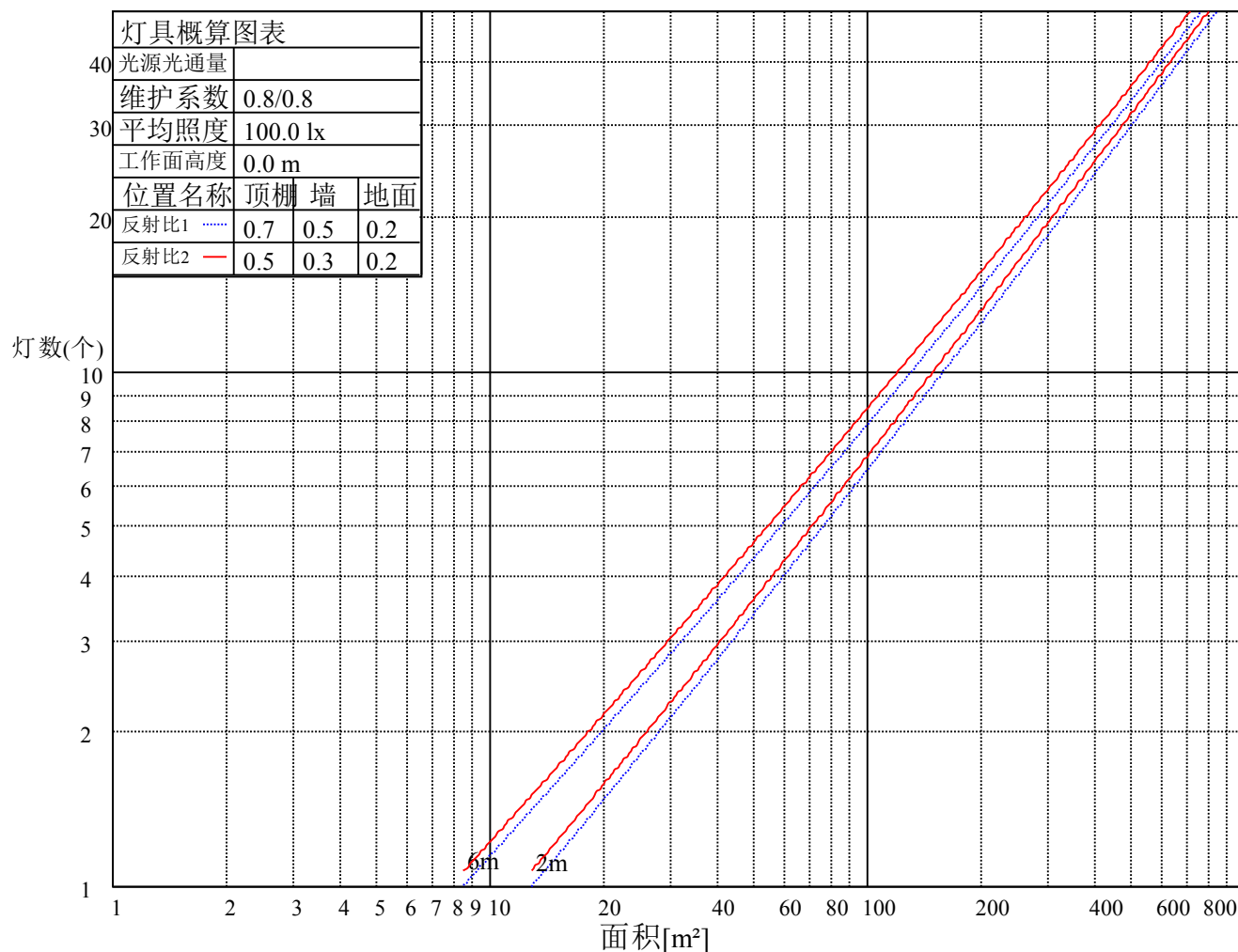
亮度限制曲线



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	11.11	12.19	11.48	12.50	12.82	11.08	12.16	11.45	12.47	12.79
	3H	13.05	14.00	13.43	14.34	14.70	13.03	13.99	13.42	14.32	14.69
	4H	13.82	14.71	14.23	15.06	15.45	13.82	14.70	14.22	15.06	15.45
	6H	14.38	15.19	14.79	15.56	15.96	14.38	15.19	14.80	15.57	15.96
	8H	14.54	15.30	14.97	15.69	16.10	14.54	15.31	14.98	15.70	16.11
	12H	14.70	15.43	15.13	15.81	16.25	14.71	15.44	15.14	15.82	16.26
4H	2H	11.68	12.56	12.08	12.92	13.30	11.65	12.54	12.06	12.89	13.28
	3H	13.84	14.57	14.26	14.98	15.38	13.80	14.53	14.22	14.94	15.35
	4H	14.74	15.40	15.18	15.82	16.27	14.71	15.36	15.15	15.79	16.23
	6H	15.31	15.87	15.77	16.32	16.79	15.28	15.84	15.75	16.29	16.76
	8H	15.51	16.03	15.99	16.48	16.96	15.49	16.01	15.96	16.46	16.94
	12H	15.68	16.13	16.17	16.62	17.10	15.66	16.12	16.15	16.60	17.08
8H	4H	15.02	15.54	15.49	15.99	16.47	14.99	15.52	15.47	15.97	16.44
	6H	15.73	16.15	16.24	16.65	17.14	15.71	16.12	16.21	16.62	17.11
	8H	16.02	16.39	16.55	16.91	17.40	15.99	16.36	16.52	16.88	17.38
	12H	16.65	16.97	17.17	17.47	18.04	16.62	16.94	17.14	17.43	18.01
12H	4H	15.03	15.48	15.52	15.97	16.45	15.00	15.46	15.49	15.94	16.42
	6H	16.14	16.15	16.31	16.62	17.17	16.11	16.13	16.29	16.60	17.14
	8H	16.11	16.43	16.63	16.93	17.51	16.09	16.41	16.61	16.90	17.48
对应照射距离，改变观察者位置S											
S = 1.0H		0.3/-0.6					0.3/-0.6				
S = 1.5H		0.8/-0.7					0.8/-0.7				
S = 2.0H		1.3/-0.8					1.3/-0.8				
标准表格		BK3					BK3				
更正系数		-0.6					-0.9				

# ROLED 投光灯

## 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	1.11	1.09	1.06	1.09	1.07	1.05	1.05	1.03	1.01	1.01	1.00	0.98	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	0.93	0.92	0.90	0.88
3	0.98	0.93	0.90	0.97	0.92	0.89	0.94	0.91	0.88	0.92	0.89	0.86	0.90	0.87	0.85	0.84
4	0.93	0.88	0.84	0.92	0.87	0.84	0.90	0.86	0.83	0.88	0.85	0.82	0.86	0.83	0.81	0.80
5	0.89	0.84	0.80	0.88	0.83	0.79	0.86	0.82	0.79	0.84	0.81	0.78	0.83	0.80	0.77	0.76
6	0.85	0.80	0.76	0.84	0.79	0.76	0.83	0.78	0.75	0.81	0.78	0.75	0.80	0.77	0.74	0.73
7	0.81	0.76	0.73	0.81	0.76	0.73	0.80	0.75	0.72	0.79	0.75	0.72	0.77	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	0.72	0.68	0.65	0.71	0.67	0.65	0.64



# 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	8355.19	8075.10	7441.25	6425.24	5254.99	3961.96	2853.10	2060.40	1528.61
30.0	8402.77	8181.00	7623.88	6786.67	5625.63	4331.84	3176.94	2265.29	1646.79
60.0	8375.14	8157.97	7639.23	6792.81	5657.10	4338.74	3213.77	2272.97	1527.62
90.0	8369.00	8273.08	7904.74	7226.38	6214.98	5020.17	3773.19	2753.35	1938.39
120.0	8355.96	8295.33	7969.97	7328.44	6373.06	5111.49	3905.94	2783.27	1966.78
150.0	8333.70	8369.77	8170.25	7647.67	6772.09	5640.21	4357.16	3175.40	2240.74
180.0	8355.19	8394.33	8156.44	7577.84	6653.92	5396.96	4166.85	2998.91	2131.00
210.0	8402.77	8388.95	8046.70	7326.14	6311.67	5008.66	3832.28	2780.97	1975.23
240.0	8375.14	8324.49	7965.36	7184.17	6150.52	4855.19	3598.99	2612.15	1905.39
270.0	8369.00	8186.37	7612.37	6736.03	5543.52	4326.47	3159.29	2322.08	1519.40
300.0	8355.96	8150.30	7560.19	6579.48	5440.70	4161.48	3028.07	2193.93	1616.86
330.0	8333.70	8028.29	7290.07	6314.74	5083.10	3823.07	2830.08	2032.78	1500.07
360.0	8355.19	8075.10	7441.25	6425.24	5254.99	3961.96	2853.10	2060.40	1528.61
C/γ(°)	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0
0.0	1144.16	885.55	700.61	554.81	449.68	389.83	307.18	257.92	220.31
30.0	1219.36	940.80	729.77	577.83	465.03	391.36	316.85	264.74	226.07
60.0	1224.58	944.64	732.46	579.29	470.40	382.69	318.54	263.13	224.92
90.0	1400.46	1058.21	808.81	633.85	503.40	410.55	338.03	283.32	238.27
120.0	1439.37	1088.06	832.14	659.25	522.66	421.75	345.55	286.00	242.11
150.0	1625.30	1194.04	913.18	709.06	558.65	451.98	388.29	305.65	255.08
180.0	1511.58	1176.39	897.29	699.85	559.95	450.68	372.18	303.88	256.53
210.0	1473.98	1101.49	838.59	657.10	529.34	426.43	350.84	294.06	246.17
240.0	1389.72	1051.31	818.02	639.99	514.14	414.38	344.55	287.23	243.72
270.0	1267.01	961.83	740.59	593.34	476.69	386.07	318.77	268.66	226.84
300.0	1199.41	920.85	723.64	571.70	461.96	387.52	313.17	262.67	223.77
330.0	1124.44	862.45	669.69	540.16	437.02	356.37	298.36	250.16	213.56
360.0	1144.16	885.55	700.61	554.81	449.68	389.83	307.18	257.92	220.31
C/γ(°)	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0
0.0	189.16	165.14	144.80	129.46	116.56	105.82	97.53	90.40	84.26
30.0	194.53	170.28	148.41	132.53	119.02	108.43	99.30	91.70	85.49
60.0	193.46	169.51	149.02	132.53	119.63	108.58	99.61	91.93	85.64
90.0	203.97	176.73	154.55	137.36	122.63	111.19	101.45	93.31	86.41
120.0	206.73	179.49	156.62	138.13	122.86	111.04	101.06	92.78	86.02
150.0	217.86	187.01	163.30	143.12	126.62	113.19	102.83	93.70	86.10
180.0	218.09	187.47	164.22	144.27	128.84	115.03	105.05	96.31	89.48
210.0	210.95	183.86	160.00	141.35	125.93	113.96	104.06	95.92	88.63
240.0	208.04	180.72	157.85	140.43	125.85	113.34	103.98	95.77	88.56
270.0	195.30	170.97	149.56	132.68	119.02	108.20	99.14	91.85	85.10
300.0	191.92	167.13	147.26	130.45	117.26	105.97	97.46	90.01	83.57
330.0	183.02	160.54	140.74	125.77	113.19	102.44	94.08	86.64	79.88
360.0	189.16	165.14	144.80	129.46	116.56	105.82	97.53	90.40	84.26
C/γ(°)	54.0	56.0	58.0	60.0	62.0	64.0	66.0	68.0	70.0
0.0	78.35	73.67	68.83	64.38	60.09	55.63	51.41	47.12	42.59
30.0	79.58	74.28	69.45	65.07	60.62	56.17	51.95	47.50	43.28
60.0	79.81	74.82	69.98	65.53	61.31	57.02	52.95	48.57	44.12
90.0	80.73	75.43	70.52	66.15	61.70	57.55	53.18	49.04	44.74
120.0	79.96	74.59	69.68	65.07	60.70	56.40	52.49	48.27	44.28
150.0	79.81	74.21	68.99	64.23	59.93	55.63	51.49	47.65	43.51
180.0	83.11	77.58	72.98	68.30	63.69	59.47	55.40	51.11	46.89
210.0	82.42	77.12	71.98	67.38	62.85	58.63	54.18	49.73	45.51
240.0	82.34	77.12	71.90	67.22	62.92	58.70	54.48	50.03	45.58
270.0	79.35	74.28	69.45	64.92	60.32	56.10	51.80	47.73	43.28
300.0	77.58	72.75	67.84	63.54	59.09	54.79	50.80	46.43	42.21
330.0	74.36	69.37	64.46	60.24	55.79	51.57	47.42	43.28	39.29
360.0	78.35	73.67	68.83	64.38	60.09	55.63	51.41	47.12	42.59

# 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	38.06	33.61	28.32	22.87	17.96	12.35	7.37	2.92	0.31
30.0	38.45	34.07	28.85	23.79	18.80	13.66	8.67	3.68	0.38
60.0	39.67	35.15	29.85	24.48	19.41	14.20	9.36	4.14	0.46
90.0	40.52	35.91	31.08	26.17	21.03	15.65	10.67	5.53	1.00
120.0	39.90	35.30	30.31	25.48	20.49	15.50	10.82	5.83	1.23
150.0	39.60	35.38	30.77	25.78	21.26	15.81	11.36	6.37	2.00
180.0	42.36	37.52	32.31	26.86	21.95	16.35	11.59	6.45	1.69
210.0	40.98	36.07	30.93	25.86	20.57	15.19	10.59	5.14	0.77
240.0	40.90	36.45	31.23	25.63	20.64	14.89	9.82	4.68	0.54
270.0	38.83	33.84	28.55	23.64	18.42	13.28	8.44	3.38	0.38
300.0	37.60	33.23	28.09	22.71	18.03	12.58	7.75	3.22	0.31
330.0	35.15	30.93	26.09	21.10	16.27	11.20	6.60	2.23	0.23
360.0	38.06	33.61	28.32	22.87	17.96	12.35	7.37	2.92	0.31
C/γ(°)	90.0								
0.0	0.08								
30.0	0.00								
60.0	0.08								
90.0	0.08								
120.0	0.15								
150.0	0.15								
180.0	0.08								
210.0	0.08								
240.0	0.08								
270.0	0.08								
300.0	0.08								
330.0	0.08								
360.0	0.08								