

浙大三色

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## ROLED

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灯具名称: 投光灯

灯具描述: F1014A-18-UN (30-OL-18WN-AJ, CT)

报告编号:

电压(V): 220.4000

测试编号: 20210417009

电流(A): 0.1120

光源规格型号: OL

功率(W): 23.4000

每个光源光通量(lm)

功率因数: 0.9450

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): 1916.94

灯具效能(lm/w): 81.92

中心光强(cd): 5314.079

最大光强(cd): 5320.218

最大光强角度: C=30.0  $\gamma$ =0.0

半峰边角(50%Imax): [C0/180]Total=29.1

[C90/270]Total=29.1

光束扩散角(10%Imax): [C0/180]Total=55.1

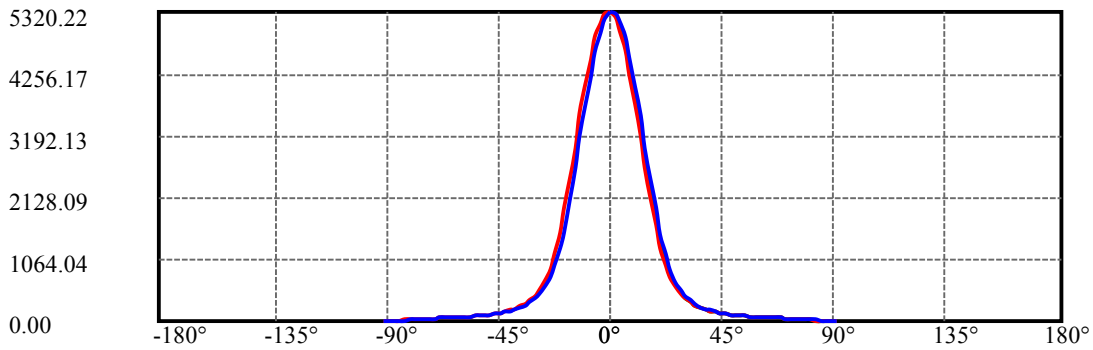
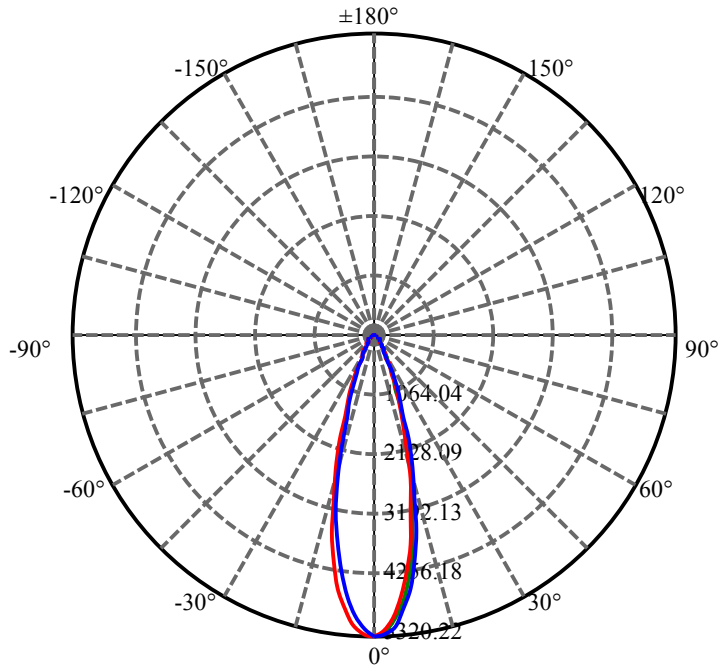
[C90/270]Total=54.9

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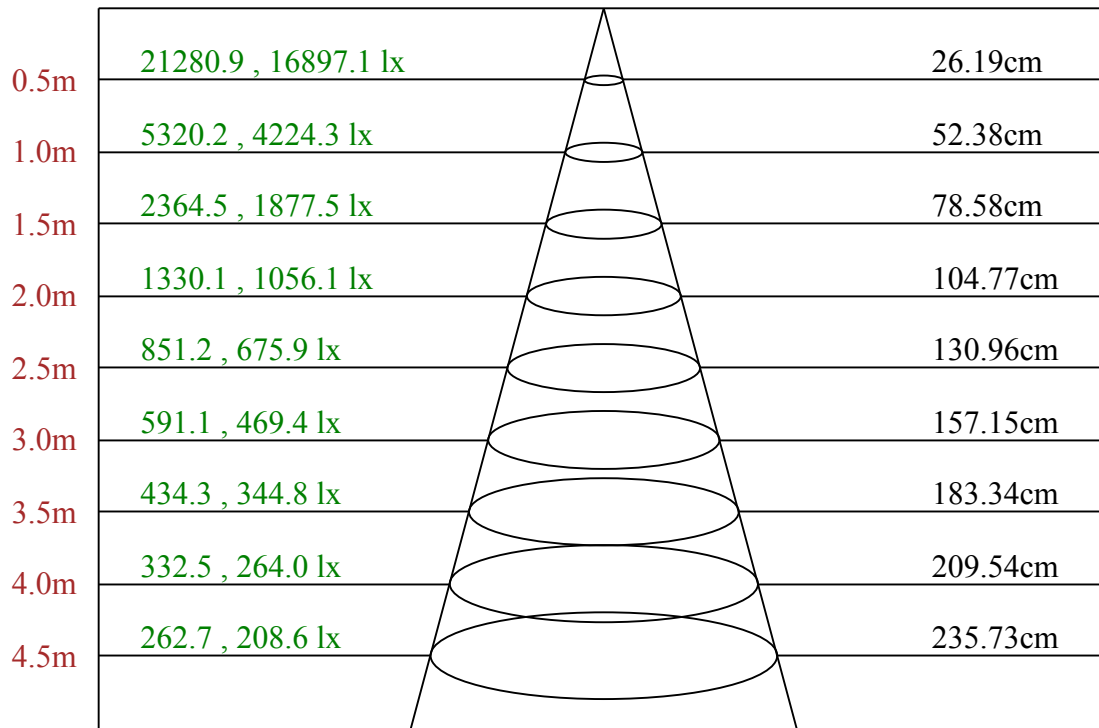
测试设备: GMS1800  
环境温度(°C): 25.0

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

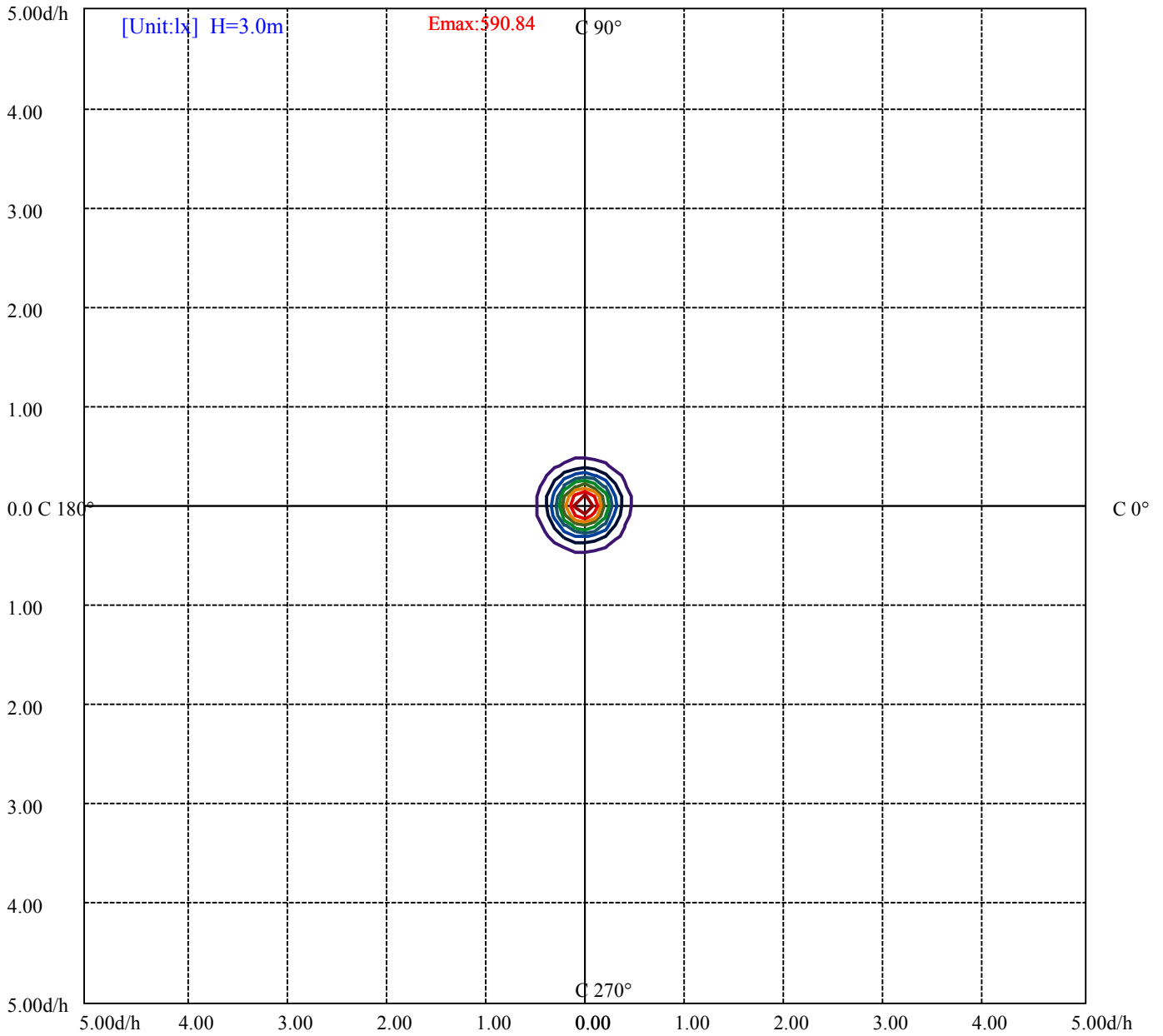


C30(Max): ——  
C0/C180: ——  
C90/C270: ——



Max , Ave    C30面光束角29.35

ROLED 投光灯  
平面等照度曲线



- (10%Emax) 59.08366
- (20%Emax) 118.1678
- (30%Emax) 177.2511
- (40%Emax) 236.3344
- (50%Emax) 295.4178
- (60%Emax) 354.5022
- (70%Emax) 413.5856
- (80%Emax) 472.6689
- (90%Emax) 531.7522

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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

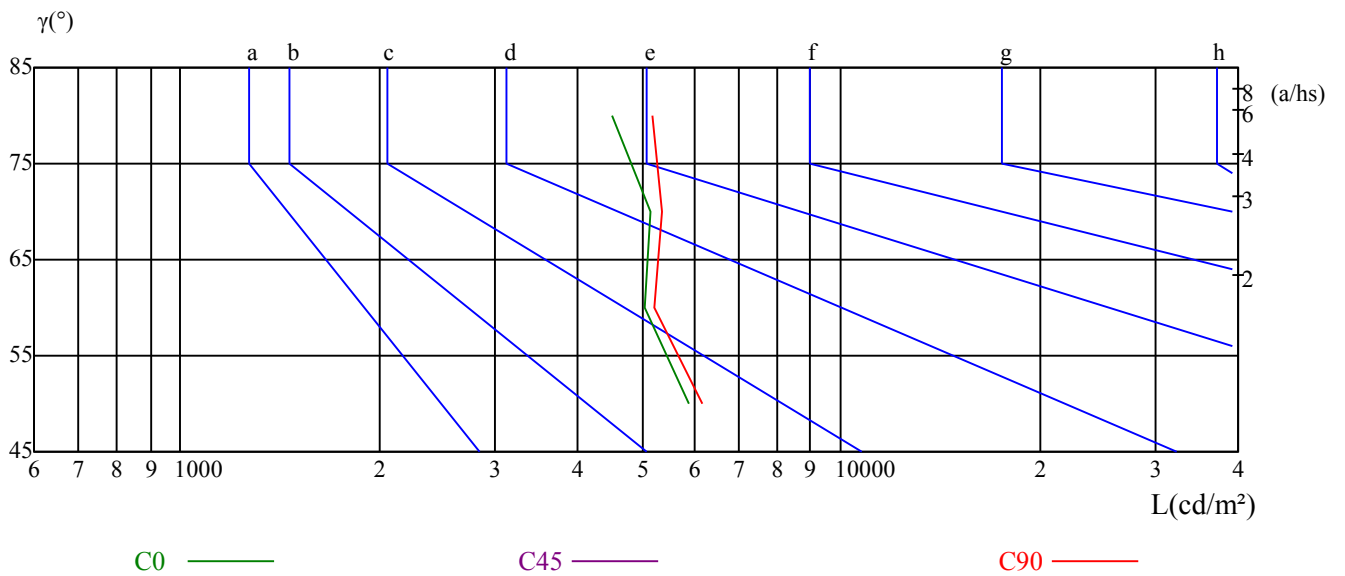
$\gamma$	45	50	55	60	65	70	75	80	85
C0	0	5891	0	5053	0	5155	0	4513	0
C45	0	0	0	0	0	0	0	0	0
C90	0	6155	0	5222	0	5360	0	5203	0

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

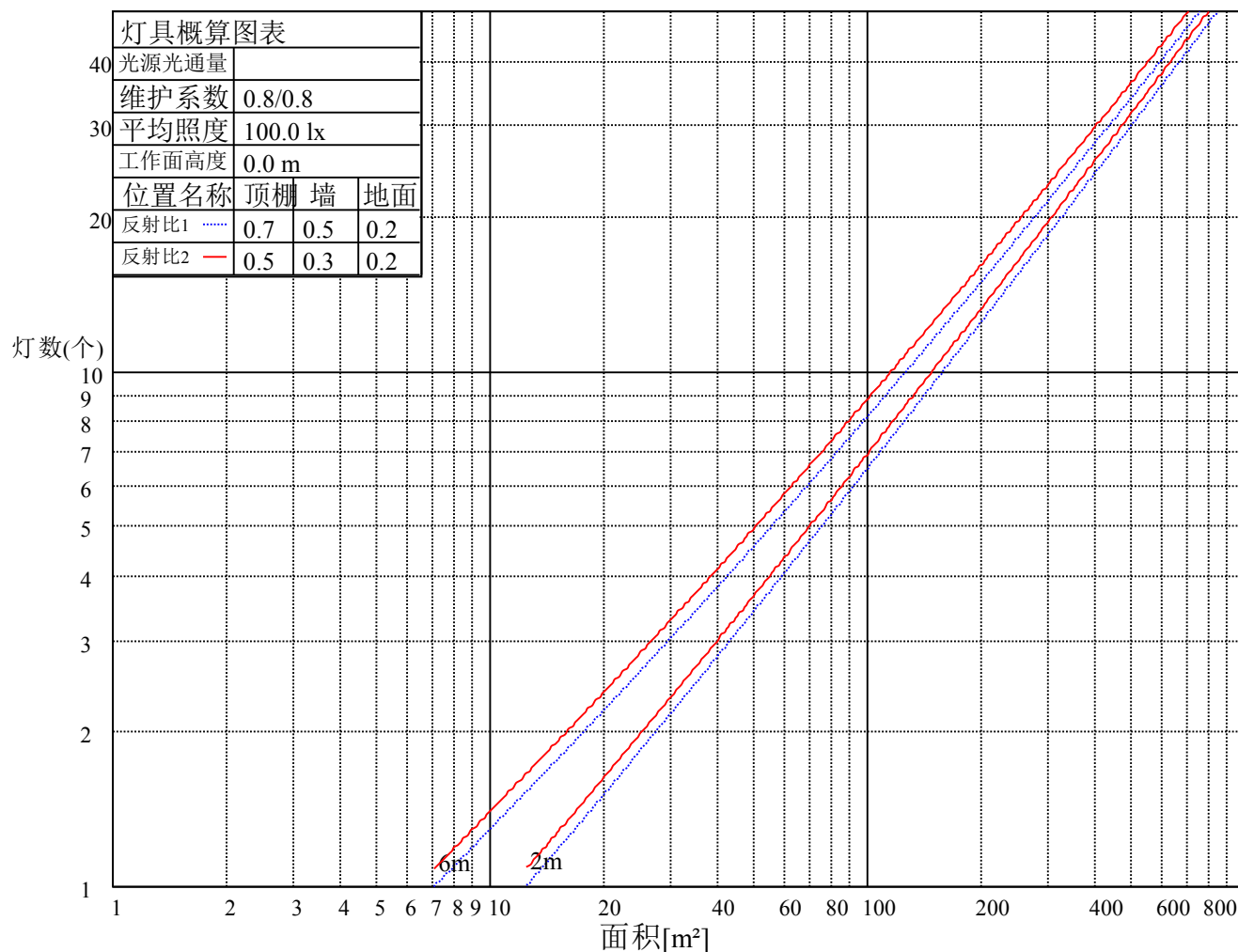
眩光等级	质量等级	使用照度(lx)							
1.15	A	2000	1000	500	$\leq 300$				
1.5	B		2000	1000	500	$\leq 300$			
1.85	C			2000	1000	500	$\leq 300$		
2.2	D				2000	1000	500	$\leq 300$	
2.55	E					2000	1000	500	$\leq 300$
		a	b	c	d	e	f	g	h

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	11.31	12.40	11.68	12.71	13.03	11.29	12.39	11.66	12.70	13.01
	3H	13.29	14.26	13.67	14.59	14.96	13.28	14.25	13.66	14.58	14.95
	4H	14.14	15.04	14.55	15.39	15.78	14.14	15.04	14.55	15.40	15.78
	6H	14.76	15.59	15.18	15.96	16.35	14.76	15.59	15.18	15.97	16.36
	8H	14.94	15.72	15.37	16.11	16.52	14.95	15.73	15.38	16.12	16.53
	12H	15.12	15.87	15.56	16.25	16.68	15.13	15.87	15.56	16.26	16.69
4H	2H	11.85	12.76	12.26	13.11	13.50	11.84	12.74	12.25	13.10	13.48
	3H	14.09	14.83	14.51	15.24	15.65	14.07	14.81	14.48	15.22	15.62
	4H	15.08	15.75	15.52	16.17	16.62	15.06	15.72	15.50	16.15	16.59
	6H	15.70	16.28	16.17	16.72	17.20	15.69	16.26	16.15	16.71	17.18
	8H	15.93	16.47	16.41	16.92	17.39	15.92	16.45	16.39	16.90	17.37
	12H	16.12	16.58	16.61	17.07	17.55	16.11	16.57	16.60	17.06	17.53
8H	4H	15.39	15.92	15.87	16.37	16.85	15.37	15.90	15.85	16.35	16.83
	6H	16.17	16.59	16.67	17.09	17.58	16.14	16.57	16.65	17.07	17.56
	8H	16.47	16.85	17.00	17.37	17.87	16.45	16.83	16.98	17.35	17.85
	12H	17.08	17.41	17.60	17.91	18.48	17.06	17.39	17.58	17.88	18.46
12H	4H	15.40	15.87	15.89	16.35	16.83	15.39	15.85	15.88	16.34	16.81
	6H	16.60	16.60	16.75	17.07	17.61	16.58	16.58	16.73	17.05	17.60
	8H	16.57	16.90	17.09	17.40	17.98	16.55	16.88	17.07	17.38	17.96
对应照射距离，改变观察者位置S											
S = 1.0H	0.5/-0.6					0.4/-0.6					
S = 1.5H	0.8/-0.8					0.9/-0.8					
S = 2.0H	1.6/-0.8					1.5/-0.8					
标准表格	BKBF					BK4					
更正系数	3.3					0.3					

# 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	1.10	1.08	1.06	1.08	1.06	1.04	1.04	1.02	1.01	1.00	0.99	0.98	0.97	0.96	0.95	0.93
2	1.03	0.99	0.95	1.01	0.97	0.94	0.98	0.95	0.92	0.95	0.92	0.90	0.92	0.90	0.88	0.87
3	0.96	0.92	0.88	0.95	0.91	0.87	0.92	0.89	0.86	0.90	0.87	0.84	0.88	0.85	0.83	0.81
4	0.91	0.86	0.82	0.90	0.85	0.81	0.88	0.83	0.80	0.86	0.82	0.79	0.84	0.81	0.78	0.77
5	0.86	0.81	0.77	0.85	0.80	0.76	0.83	0.79	0.76	0.82	0.78	0.75	0.80	0.77	0.74	0.73
6	0.82	0.76	0.72	0.81	0.76	0.72	0.80	0.75	0.72	0.78	0.74	0.71	0.77	0.73	0.71	0.69
7	0.78	0.73	0.69	0.77	0.72	0.69	0.76	0.72	0.68	0.75	0.71	0.68	0.74	0.70	0.67	0.66
8	0.75	0.69	0.66	0.74	0.69	0.65	0.73	0.68	0.65	0.72	0.68	0.65	0.71	0.67	0.65	0.63
9	0.72	0.66	0.63	0.71	0.66	0.63	0.70	0.66	0.62	0.69	0.65	0.62	0.69	0.65	0.62	0.61
10	0.69	0.64	0.60	0.68	0.64	0.60	0.68	0.63	0.60	0.67	0.63	0.60	0.66	0.62	0.60	0.59



# 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	5314.08	5206.65	4984.87	4644.16	4218.27	3736.35	3177.70	2633.63	2100.31
30.0	5320.22	5249.62	5057.01	4752.36	4343.35	3846.09	3333.48	2773.30	2227.69
60.0	5314.85	5258.83	5053.94	4768.47	4354.86	3882.16	3342.69	2769.46	2246.88
90.0	5307.94	5294.13	5148.33	4885.88	4516.78	4043.30	3538.37	2978.19	2447.16
120.0	5316.38	5294.89	5146.02	4886.65	4508.33	4062.49	3535.30	2962.84	2401.12
150.0	5307.94	5313.31	5186.69	4943.44	4598.88	4143.83	3648.87	3090.22	2554.59
180.0	5314.08	5290.29	5126.07	4882.05	4509.10	4070.16	3555.25	2986.63	2455.60
210.0	5320.22	5255.76	5073.12	4783.82	4414.71	3932.80	3410.99	2856.94	2299.06
240.0	5314.85	5243.48	5055.47	4752.36	4362.53	3906.71	3336.55	2817.04	2268.36
270.0	5307.94	5188.23	4960.32	4629.58	4199.85	3715.63	3178.47	2630.56	2094.17
300.0	5316.38	5198.97	4959.55	4633.42	4206.76	3729.45	3176.94	2635.94	2101.84
330.0	5307.94	5162.91	4916.58	4558.21	4132.32	3609.74	3069.50	2521.60	1995.18
360.0	5314.08	5206.65	4984.87	4644.16	4218.27	3736.35	3177.70	2633.63	2100.31
C/γ(°)	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0
0.0	1647.56	1264.64	959.99	743.59	583.97	462.73	389.83	313.93	262.52
30.0	1768.80	1357.49	1028.28	797.30	620.04	490.35	401.34	330.43	278.56
60.0	1762.66	1355.19	1029.36	799.07	618.66	494.11	398.27	325.67	271.34
90.0	1940.69	1500.99	1140.32	880.18	676.83	531.02	430.50	351.23	293.21
120.0	1919.21	1483.11	1125.51	870.59	669.23	525.04	420.22	345.09	285.39
150.0	2035.85	1580.79	1201.71	926.99	712.89	557.11	450.45	389.83	304.57
180.0	1948.37	1507.51	1145.54	885.55	680.28	540.39	433.03	352.23	291.99
210.0	1831.73	1414.04	1081.62	829.15	651.73	507.08	414.23	340.02	283.32
240.0	1791.06	1378.97	1043.63	804.21	627.71	494.19	398.27	332.73	277.33
270.0	1515.57	1271.54	973.80	750.03	586.89	465.26	381.85	315.55	264.59
300.0	1646.79	1263.10	956.92	742.05	582.44	467.33	388.29	312.78	261.60
330.0	1517.72	1200.18	919.16	710.28	565.17	444.92	366.35	303.57	254.85
360.0	1647.56	1264.64	959.99	743.59	583.97	462.73	389.83	313.93	262.52
C/γ(°)	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0
0.0	225.38	195.22	169.90	149.56	133.83	119.71	108.43	99.38	90.93
30.0	236.97	204.51	178.11	157.31	139.13	124.24	112.42	102.14	93.16
60.0	232.28	199.90	174.19	153.86	136.29	121.78	110.04	100.68	91.93
90.0	245.64	212.18	184.02	161.99	142.89	127.08	114.80	103.83	94.69
120.0	242.64	207.34	179.49	157.85	139.05	123.62	111.04	101.06	92.01
150.0	253.92	218.70	188.93	164.53	145.19	128.15	114.88	103.06	93.24
180.0	248.78	213.10	184.86	162.76	143.42	127.61	114.95	104.67	95.54
210.0	243.57	210.03	183.63	161.30	142.50	126.85	114.95	104.13	94.92
240.0	237.50	205.50	178.65	156.77	139.89	124.85	112.57	102.83	93.85
270.0	228.68	198.29	173.73	152.94	135.67	121.17	109.96	99.99	91.16
300.0	224.69	194.53	169.05	149.18	132.53	118.10	106.51	97.30	88.71
330.0	220.16	190.62	166.75	146.72	129.84	115.64	104.67	94.62	85.95
360.0	225.38	195.22	169.90	149.56	133.83	119.71	108.43	99.38	90.93
C/γ(°)	54.0	56.0	58.0	60.0	62.0	64.0	66.0	68.0	70.0
0.0	83.49	77.12	71.60	66.30	61.85	57.48	53.64	50.03	46.27
30.0	85.33	78.96	72.75	67.38	62.69	58.17	54.41	50.57	46.81
60.0	84.64	78.43	72.52	67.61	62.77	58.70	54.71	51.26	47.27
90.0	86.87	80.19	74.05	68.53	64.00	59.39	55.56	51.72	48.11
120.0	84.64	77.50	71.75	66.38	61.47	57.32	53.33	49.96	46.58
150.0	84.72	77.74	71.37	65.61	60.85	56.33	52.57	48.88	45.74
180.0	87.71	81.11	74.97	69.52	64.54	60.16	55.94	52.41	48.65
210.0	87.33	80.27	73.98	68.37	63.54	58.86	55.10	51.11	47.27
240.0	86.10	79.35	73.51	68.07	63.54	59.01	54.94	51.18	47.19
270.0	84.03	77.43	71.37	66.07	61.54	57.32	53.33	49.73	45.89
300.0	81.27	75.13	69.14	63.85	59.24	55.25	51.57	48.34	44.66
330.0	78.89	72.29	66.38	61.39	56.94	53.03	49.80	46.43	42.90
360.0	83.49	77.12	71.60	66.30	61.85	57.48	53.64	50.03	46.27

# 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	42.28	37.60	32.15	26.24	20.57	14.35	8.82	3.30	0.31
30.0	42.67	38.22	32.69	26.86	21.72	15.73	10.36	4.68	0.38
60.0	43.20	38.68	33.46	27.40	21.64	16.04	10.74	5.06	0.54
90.0	44.05	39.83	34.61	29.01	23.71	17.50	12.12	6.60	1.38
120.0	42.90	38.60	33.76	28.16	22.79	17.11	11.89	6.37	1.61
150.0	42.28	38.45	33.69	28.01	23.02	17.04	12.05	6.75	1.84
180.0	44.66	40.21	35.22	29.24	23.64	17.65	12.35	6.68	1.69
210.0	43.28	38.29	33.00	27.24	21.95	16.11	11.05	5.29	0.92
240.0	43.28	38.91	33.53	27.47	21.79	15.88	10.44	4.83	0.54
270.0	41.90	36.76	31.39	25.78	20.41	14.43	8.98	3.45	0.31
300.0	40.98	36.45	31.31	25.55	19.80	13.89	8.52	3.22	0.31
330.0	39.14	34.30	29.16	23.56	18.19	12.66	7.29	2.61	0.23
360.0	42.28	37.60	32.15	26.24	20.57	14.35	8.82	3.30	0.31
C/γ(°)	90.0								
0.0	0.08								
30.0	0.08								
60.0	0.08								
90.0	0.15								
120.0	0.15								
150.0	0.08								
180.0	0.15								
210.0	0.08								
240.0	0.08								
270.0	0.15								
300.0	0.00								
330.0	0.00								
360.0	0.08								