

浙大三色

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## ROLED

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灯具名称: 投光灯

灯具描述: F1012A-12-UN (20-OL-12WN-AJ, CT)

报告编号:

电压(V): 220.4000

测试编号: 20210416005

电流(A): 0.1220

光源规格型号: OL

功率(W): 14.1000

每个光源光通量(lm)

功率因数: 0.5210

光源数量: 12

镇流器型号:

发光面长度(mm): 131

发光面宽度(mm): 131

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): 1329.61

灯具效能(lm/w): 94.30

中心光强(cd): 5964.046

最大光强(cd): 5981.696

最大光强角度: C=90.0  $\gamma=0.0$

半峰边角(50%Imax): [C0/180]Total=21.4

[C90/270]Total=21.1

光束扩散角(10%Imax): [C0/180]Total=42.3

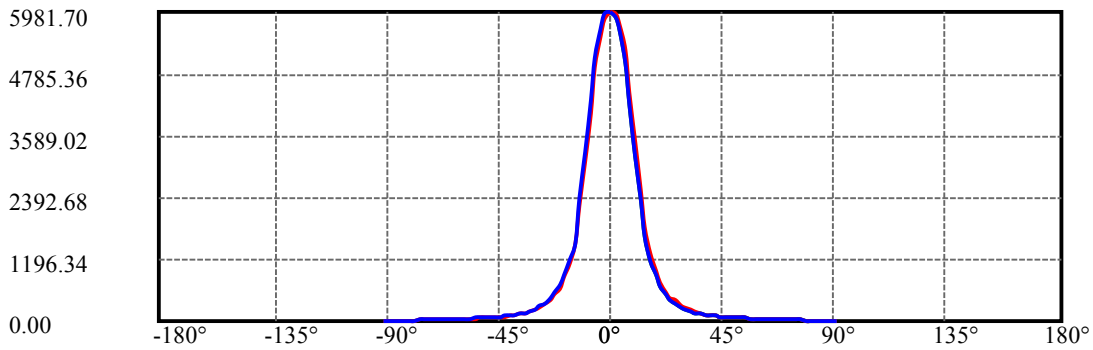
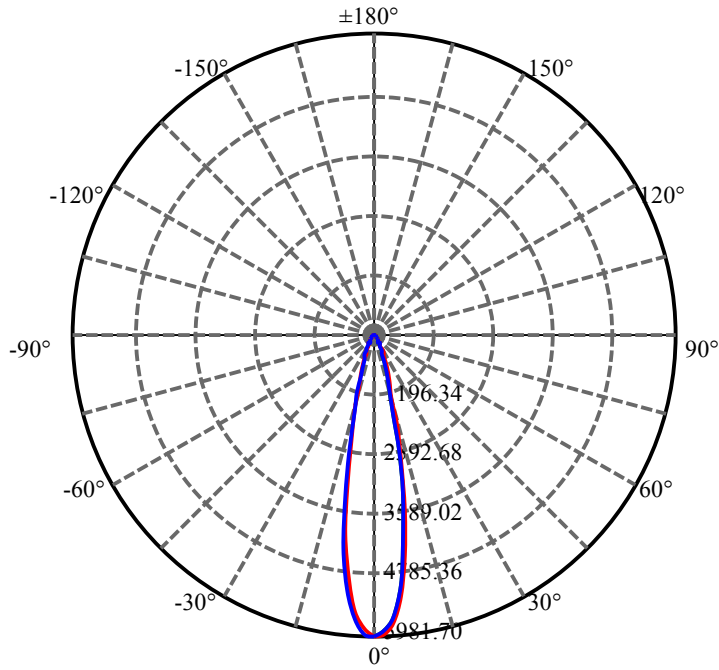
[C90/270]Total=42.2

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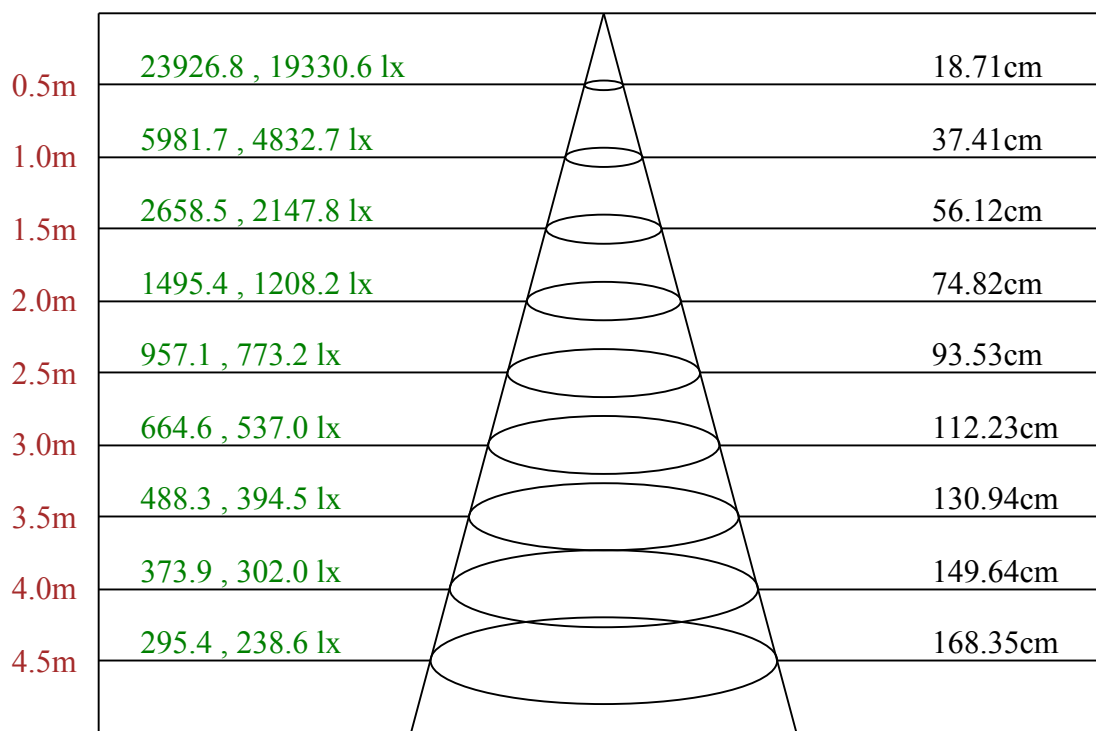
测试设备: GMS1800  
环境温度(°C): 25.0

测试日期: 2021/4/16  
环境湿度(%): 60.0%

测试人员: anpeilou  
测试距离(m): 8.76

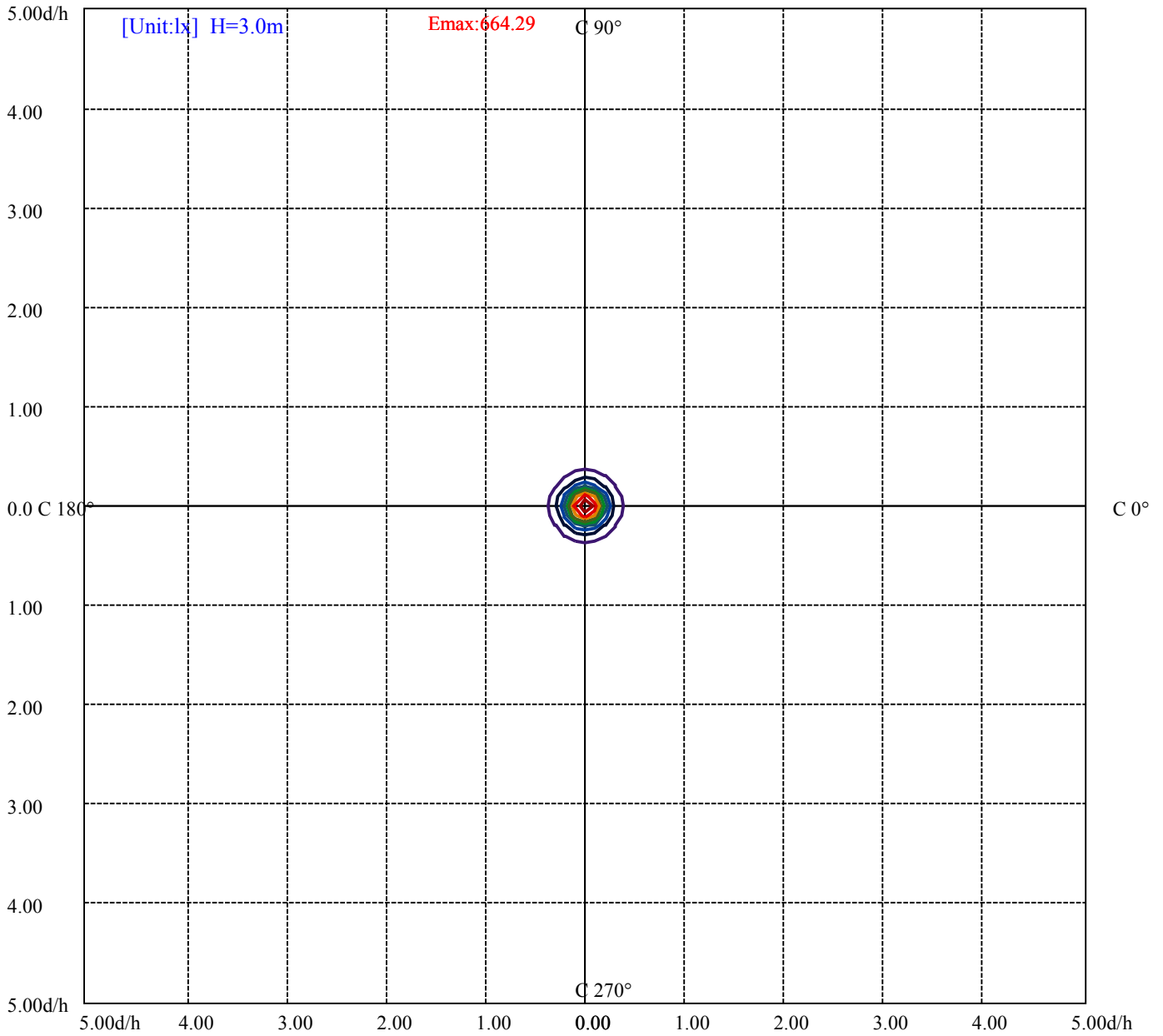


C90(Max): ——  
C0/C180: ——  
C90/C270: ——



Max , Ave    C90面光束角21.19

ROLED 投光灯  
平面等照度曲线



- (10%Emax) 66.42911
- (20%Emax) 132.8578
- (30%Emax) 199.2878
- (40%Emax) 265.7167
- (50%Emax) 332.1456
- (60%Emax) 398.5744
- (70%Emax) 465.0045
- (80%Emax) 531.4333
- (90%Emax) 597.8622

测试设备: GMS1800  
环境温度(°C): 25.0

测试日期: 2021/4/16  
环境湿度(%): 60.0%

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

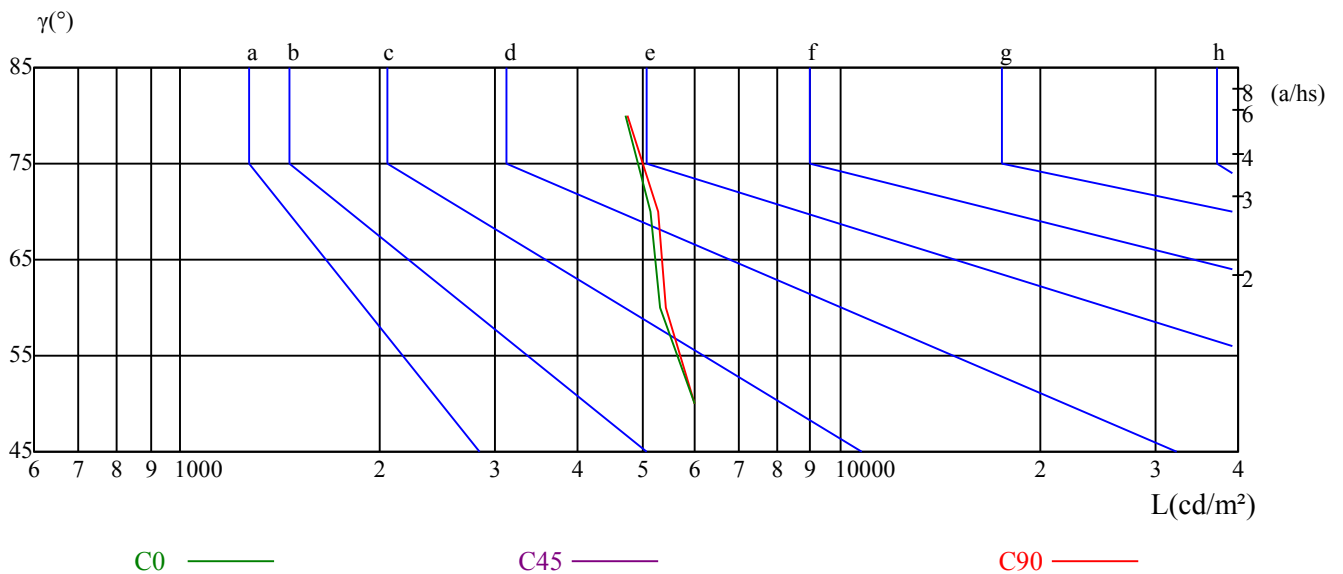
$\gamma$	45	50	55	60	65	70	75	80	85
C0	0	6017	0	5339	0	5151	0	4712	0
C45	0	0	0	0	0	0	0	0	0
C90	0	6017	0	5446	0	5308	0	4764	0

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

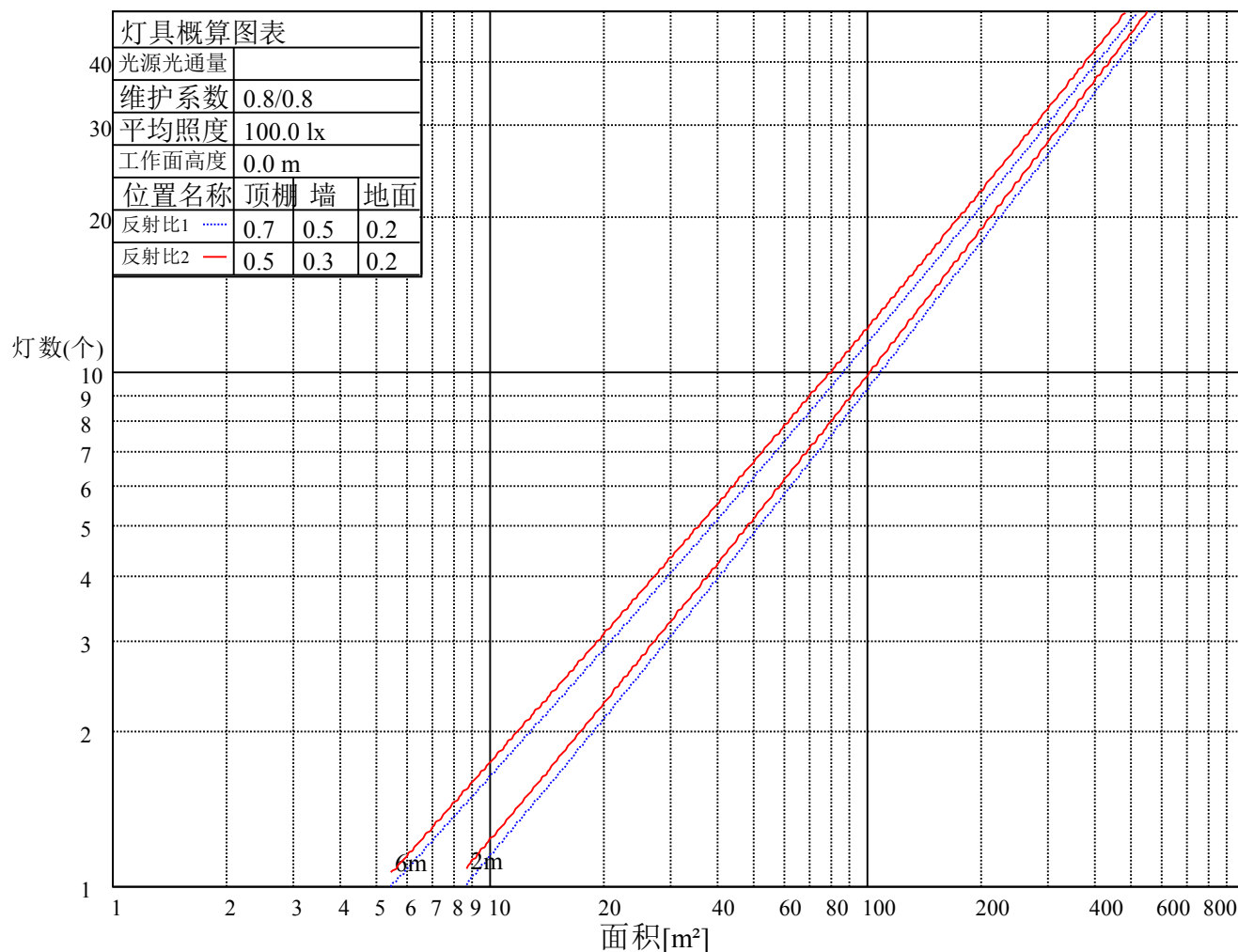
亮度限制曲线



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	12.80	13.88	13.16	14.19	14.51	12.66	13.74	13.02	14.05	14.37
	3H	14.71	15.66	15.09	16.00	16.36	14.51	15.47	14.89	15.80	16.17
	4H	15.47	16.36	15.87	16.71	17.10	15.24	16.14	15.65	16.49	16.88
	6H	16.03	16.84	16.44	17.22	17.61	15.78	16.60	16.20	16.97	17.37
	8H	16.20	16.97	16.63	17.36	17.77	15.94	16.71	16.38	17.11	17.51
	12H	16.38	17.11	16.81	17.50	17.93	16.11	16.85	16.55	17.23	17.66
4H	2H	13.37	14.26	13.77	14.61	15.00	13.26	14.15	13.66	14.50	14.89
	3H	15.49	16.23	15.91	16.63	17.04	15.34	16.07	15.76	16.48	16.89
	4H	16.38	17.04	16.82	17.46	17.91	16.20	16.86	16.64	17.28	17.73
	6H	16.95	17.52	17.42	17.97	18.44	16.75	17.31	17.22	17.76	18.24
	8H	17.17	17.70	17.65	18.15	18.62	16.96	17.48	17.43	17.93	18.41
	12H	17.36	17.82	17.85	18.31	18.78	17.13	17.59	17.62	18.08	18.55
8H	4H	16.66	17.19	17.14	17.64	18.11	16.51	17.03	16.98	17.48	17.96
	6H	17.39	17.81	17.90	18.31	18.80	17.21	17.63	17.72	18.14	18.62
	8H	17.69	18.07	18.22	18.59	19.08	17.50	17.87	18.03	18.39	18.89
	12H	18.35	18.67	18.87	19.17	19.74	18.14	18.46	18.66	18.96	19.54
12H	4H	16.67	17.13	17.16	17.62	18.09	16.52	16.98	17.01	17.47	17.94
	6H	17.81	17.82	17.98	18.29	18.83	17.64	17.65	17.81	18.12	18.66
	8H	17.79	18.12	18.32	18.61	19.19	17.61	17.93	18.13	18.43	19.01
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/-0.8					
S = 2.0H	1.3/-0.8					1.3/-0.9					
标准表格	BK4					BK4					
更正系数	0.3					0.4					

# 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	0.91	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	0.89	0.87	0.85	0.83
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	0.79
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	0.78	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	0.68	0.75	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)

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	5964.05	5953.30	5722.32	5221.23	4433.13	3509.98	2523.90	1830.19	1300.70
30.0	5976.32	5957.91	5725.39	5209.72	4435.43	3441.68	2514.69	1779.54	1291.49
60.0	5980.93	5897.28	5588.80	5009.43	4132.32	3204.56	2328.22	1511.81	1195.11
90.0	5981.70	5885.77	5598.01	4995.62	4186.04	3189.21	2331.29	1633.74	1162.57
120.0	5971.72	5828.99	5466.79	4852.12	3963.50	3038.04	2184.72	1531.61	1108.32
150.0	5976.32	5852.78	5540.45	4954.95	4105.46	3114.78	2271.43	1591.54	1131.88
180.0	5964.05	5835.89	5492.11	4894.32	4018.75	3097.90	2233.06	1509.04	1129.50
210.0	5976.32	5861.99	5518.20	4893.56	4050.98	3048.02	2223.09	1524.01	1130.34
240.0	5980.16	5924.91	5657.86	5129.14	4325.70	3349.60	2422.61	1744.25	1232.41
270.0	5981.70	5931.82	5650.96	5085.40	4279.66	3268.25	2364.29	1522.17	1205.55
300.0	5971.72	5964.05	5746.11	5258.06	4477.64	3549.88	2547.69	1840.17	1297.63
330.0	5976.32	5947.93	5699.30	5145.26	4351.79	3346.53	2434.88	1523.70	1245.99
360.0	5964.05	5953.30	5722.32	5221.23	4433.13	3509.98	2523.90	1830.19	1300.70
C/γ(°)	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0
0.0	964.59	735.15	570.16	452.75	391.36	297.51	244.26	205.50	172.58
30.0	958.45	742.82	576.30	455.82	389.83	301.96	248.32	206.27	175.12
60.0	888.24	677.75	535.86	425.74	343.02	282.55	233.67	194.68	164.83
90.0	877.11	672.22	522.58	415.15	339.56	277.02	230.90	192.76	163.07
120.0	824.47	630.17	499.10	397.73	321.45	265.36	219.39	183.48	156.01
150.0	853.32	651.50	508.00	402.87	329.74	268.81	224.23	187.16	158.23
180.0	837.21	638.38	504.70	401.57	324.29	268.12	221.85	185.24	156.93
210.0	860.08	661.63	514.53	410.39	335.50	273.34	226.53	191.23	161.61
240.0	900.90	699.85	544.07	433.57	348.31	287.00	236.35	199.75	168.52
270.0	896.45	695.40	539.54	429.12	350.23	284.47	235.28	196.37	167.06
300.0	956.15	727.47	564.79	450.45	389.83	297.36	243.57	205.20	172.51
330.0	923.15	705.45	553.82	439.71	358.06	287.84	239.73	199.75	169.13
360.0	964.59	735.15	570.16	452.75	391.36	297.51	244.26	205.50	172.58
C/γ(°)	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0
0.0	148.18	128.15	111.35	98.15	88.09	79.12	72.06	66.38	61.24
30.0	149.64	129.38	113.80	100.60	90.17	81.19	74.59	68.68	64.00
60.0	142.66	123.78	109.27	96.84	86.94	78.66	72.36	66.68	61.77
90.0	140.28	122.70	107.82	95.62	86.33	78.27	71.67	66.38	61.54
120.0	135.52	118.02	104.36	92.85	83.41	75.97	69.83	64.77	60.24
150.0	136.13	119.10	104.52	92.70	83.57	75.66	69.45	64.00	59.24
180.0	135.75	117.79	103.98	92.01	82.34	74.44	68.07	62.85	58.17
210.0	140.12	121.09	106.82	95.00	85.72	77.58	71.21	66.15	61.39
240.0	144.34	126.31	110.58	97.76	87.48	79.50	72.59	67.22	62.16
270.0	143.81	125.08	110.20	97.84	87.48	79.04	72.67	66.92	62.23
300.0	147.57	129.00	112.42	99.14	88.56	80.19	73.13	67.76	62.69
330.0	144.96	125.54	110.04	97.30	86.79	78.20	71.75	65.99	60.93
360.0	148.18	128.15	111.35	98.15	88.09	79.12	72.06	66.38	61.24
C/γ(°)	54.0	56.0	58.0	60.0	62.0	64.0	66.0	68.0	70.0
0.0	56.71	52.80	49.19	45.81	42.59	39.52	36.37	33.30	30.23
30.0	59.55	55.79	52.34	48.81	45.58	42.21	39.06	35.84	32.69
60.0	57.78	53.79	50.26	46.89	43.82	40.59	37.45	34.30	30.93
90.0	57.25	53.49	50.11	46.73	43.82	40.67	37.52	34.38	31.16
120.0	56.48	52.80	49.42	46.04	43.13	40.06	36.99	33.99	30.77
150.0	55.10	51.49	47.96	44.66	41.67	38.60	35.53	32.61	29.70
180.0	54.18	50.57	47.12	43.82	40.90	37.83	34.76	31.92	28.85
210.0	57.40	53.72	50.42	47.04	43.82	40.75	37.52	34.46	30.93
240.0	57.86	53.95	50.42	47.19	43.97	40.98	37.68	34.61	31.16
270.0	57.94	54.02	50.49	47.35	44.20	41.05	38.06	34.76	31.39
300.0	58.32	54.41	50.95	47.58	44.35	41.36	38.14	35.22	31.92
330.0	56.71	52.80	49.19	45.89	42.74	39.52	36.68	33.61	30.39
360.0	56.71	52.80	49.19	45.81	42.59	39.52	36.37	33.30	30.23

# 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	27.24	24.02	20.80	17.34	14.04	10.51	7.14	3.61	0.77
30.0	29.24	25.86	22.25	18.49	14.96	11.28	7.83	3.99	0.77
60.0	27.78	24.40	20.64	17.27	13.97	10.36	6.98	3.38	0.46
90.0	27.78	24.48	21.26	17.73	14.20	10.82	7.21	3.53	0.54
120.0	27.78	24.25	21.10	17.50	13.74	10.36	6.83	2.92	0.38
150.0	26.47	23.25	20.03	16.65	13.66	9.98	6.52	3.15	0.54
180.0	25.86	22.64	19.41	16.04	12.82	9.52	6.29	2.76	0.38
210.0	27.86	24.17	20.80	17.19	13.51	10.13	6.83	2.99	0.38
240.0	28.01	24.79	21.18	17.80	14.35	10.67	7.29	3.61	0.69
270.0	28.24	24.86	21.33	17.88	14.27	10.67	7.29	3.68	0.61
300.0	28.85	25.71	22.18	18.80	15.04	11.51	8.06	4.22	0.84
330.0	27.47	24.25	20.64	17.19	13.89	10.28	6.98	3.61	0.61
360.0	27.24	24.02	20.80	17.34	14.04	10.51	7.14	3.61	0.77
C/γ(°)	90.0								
0.0	0.00								
30.0	0.08								
60.0	0.00								
90.0	0.00								
120.0	0.08								
150.0	0.00								
180.0	0.00								
210.0	0.00								
240.0	0.00								
270.0	0.08								
300.0	0.08								
330.0	0.00								
360.0	0.00								