

浙大三色

Email:sensing@sensingm.com

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

---

## ROLED

---

灯具名称: 投光灯

灯具描述: F4013A-5-24DC (30-OL-5WN-AA, CT)

报告编号:

电压(V): 23.9000

测试编号: 20210419007

电流(A): 0.2210

光源规格型号: OL

功率(W): 5.2000

每个光源光通量(lm)

功率因数: 1.0230

光源数量: 5

镇流器型号:

发光面长度(mm): 166

发光面宽度(mm): 30

测试模式: C

发光面高度(mm): 0

## 光度结果

---

灯具光通量(lm): 528.45

灯具效能(lm/w): 101.62

中心光强(cd): 1102.950

最大光强(cd): 1111.621

最大光强角度: C=30.0  $\gamma$ =0.0

半峰边角(50%Imax): [C0/180]Total=32.2

[C90/270]Total=32.5

光束扩散角(10%Imax): [C0/180]Total=63.8

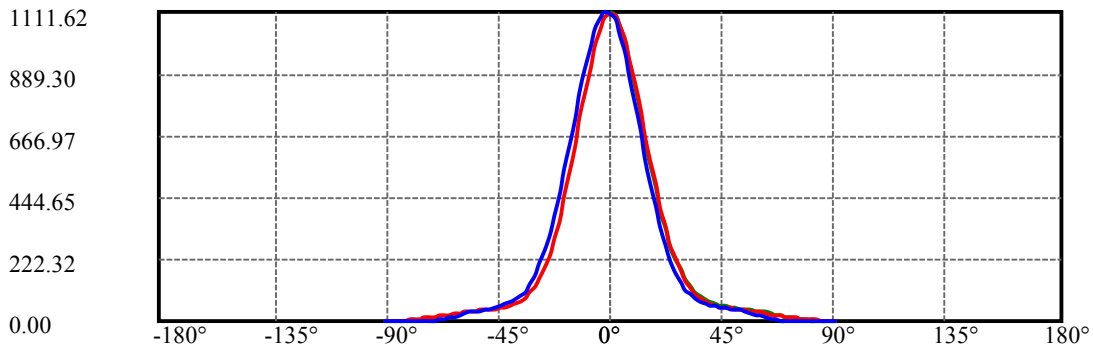
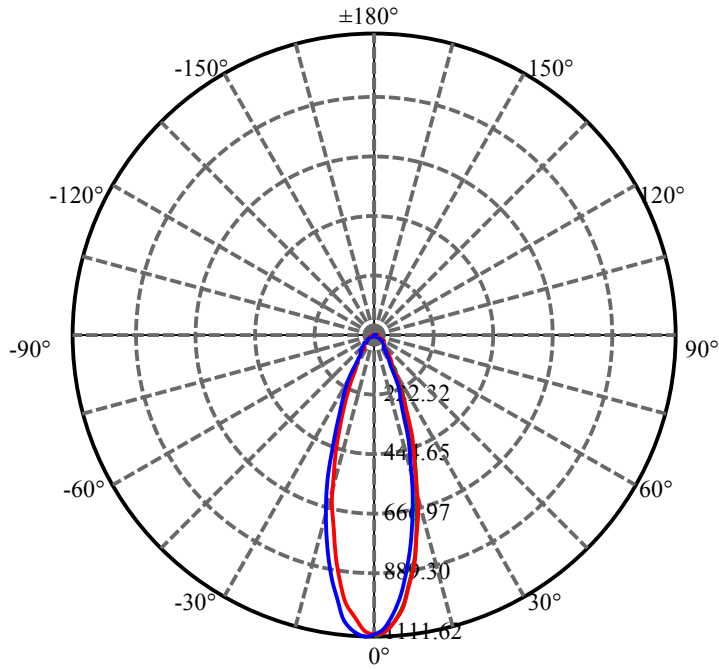
[C90/270]Total=64.0

---

测试设备: GMS1800  
环境温度(°C): 25.0

测试日期: 2021/4/19  
环境湿度(%): 60.0%

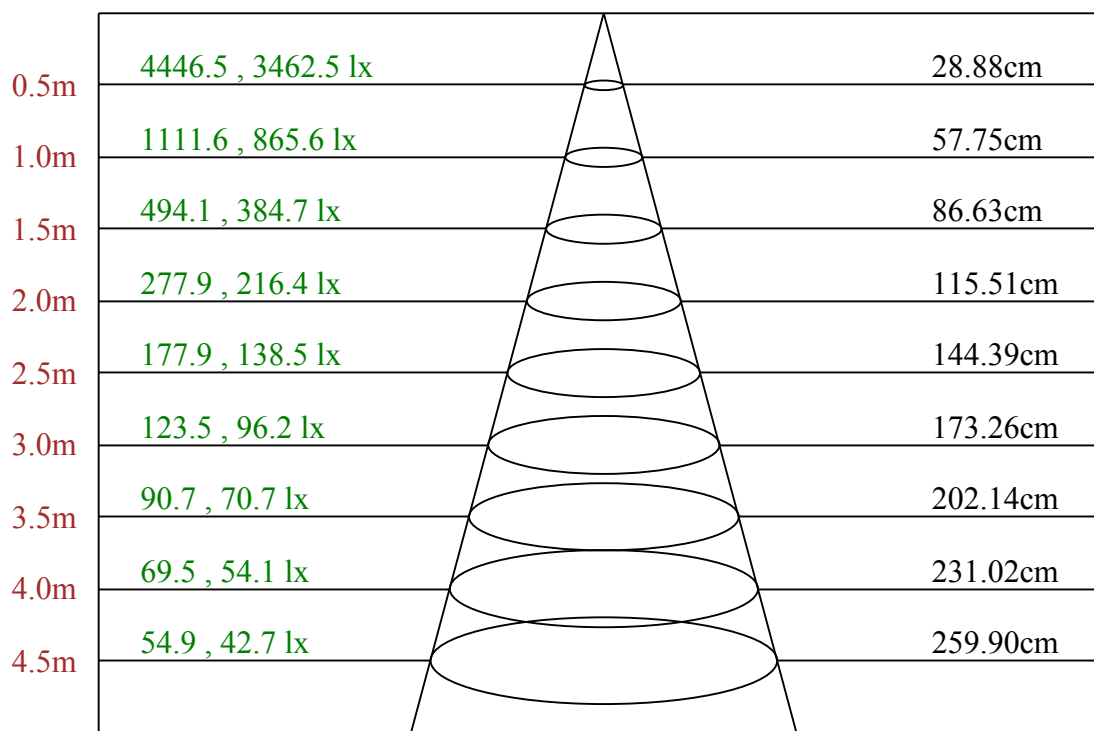
测试人员: anpeilou  
测试距离(m): 8.76



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

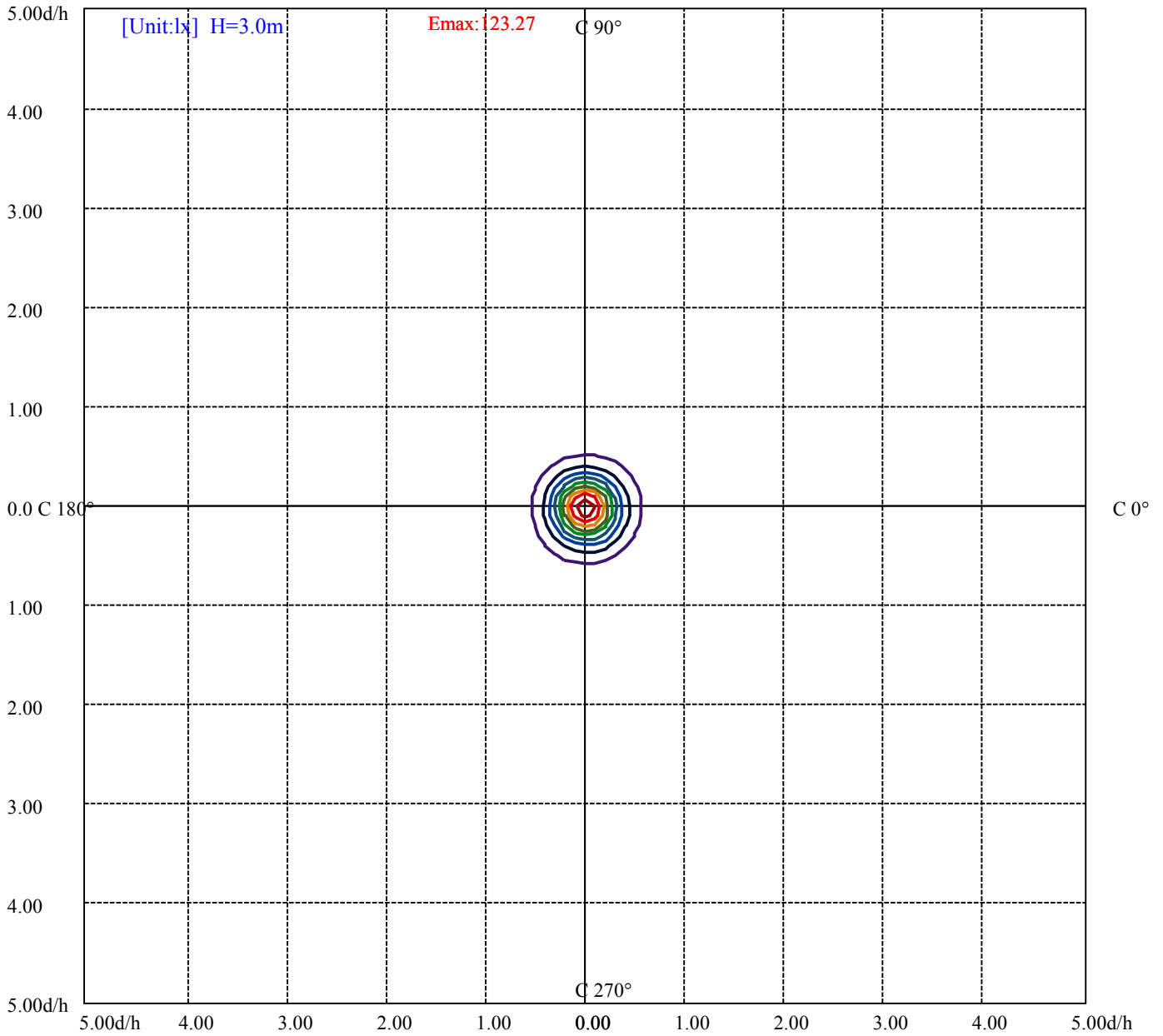
# ROLED 投光灯

## 照度距离图表



Max , Ave    C30面光束角32.21

ROLED 投光灯  
平面等照度曲线



(10%Emax) 12.32744	——
(20%Emax) 24.65489	——
(30%Emax) 36.98233	——
(40%Emax) 49.30978	——
(50%Emax) 61.63722	——
(60%Emax) 73.96467	——
(70%Emax) 86.29211	——
(80%Emax) 98.61955	——
(90%Emax) 110.947	——

测试设备: GMS1800  
环境温度(°C): 25.0

测试日期: 2021/4/19  
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

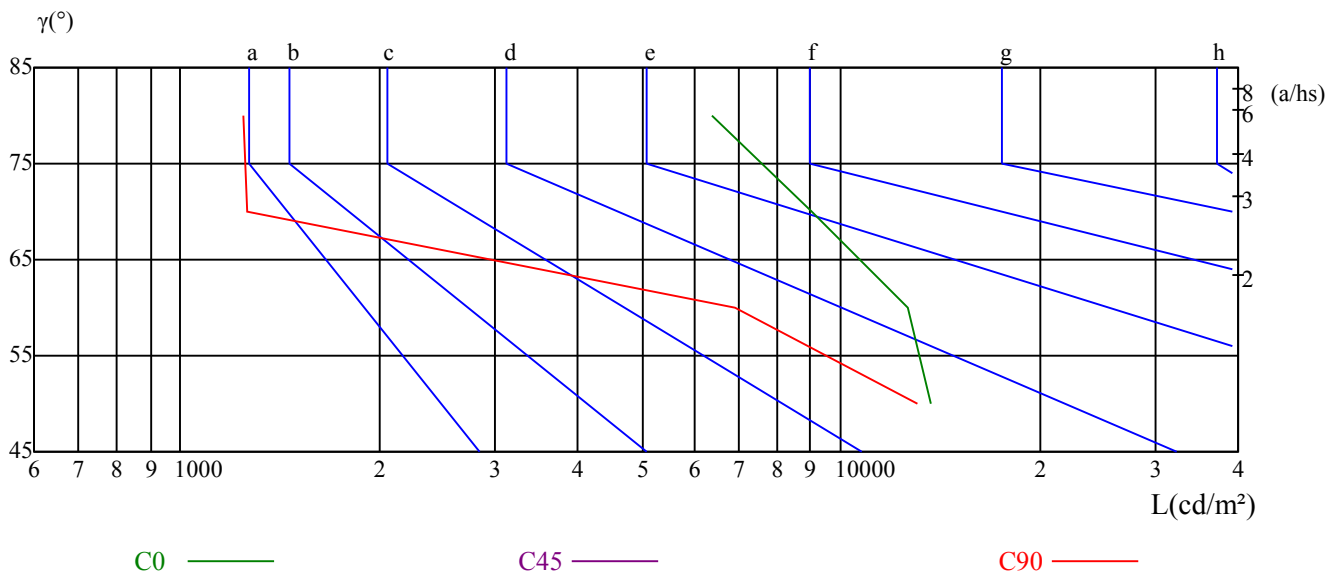
$\gamma$	45	50	55	60	65	70	75	80	85
C0	0	13664	0	12636	0	9056	0	6389	0
C45	0	0	0	0	0	0	0	0	0
C90	0	13065	0	6934	0	1261	0	1242	0

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

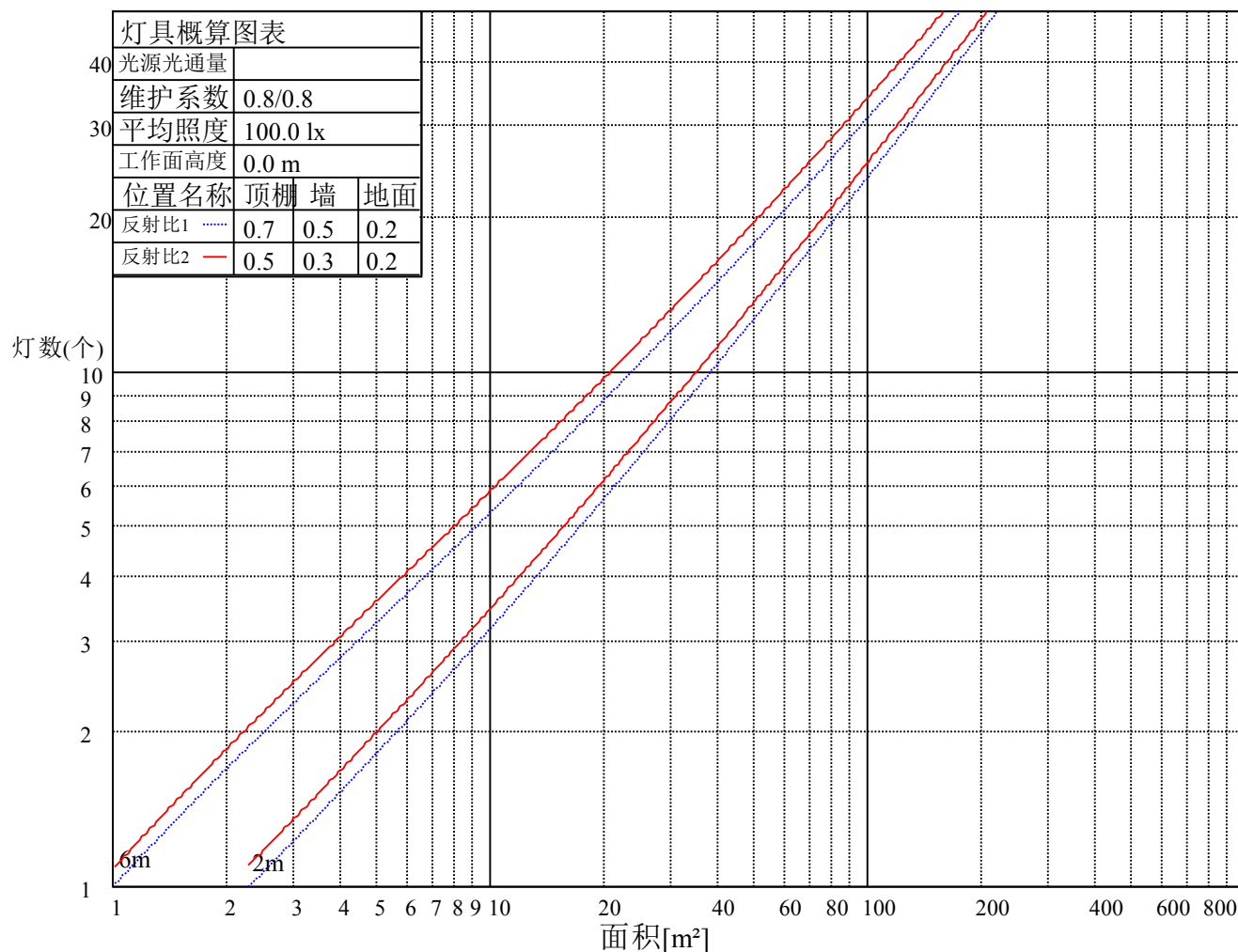
亮度限制曲线



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	19.45	20.60	19.82	20.91	21.22	20.86	22.01	21.23	22.32	22.64
	3H	19.52	20.53	19.90	20.87	21.23	22.00	23.01	22.38	23.35	23.71
	4H	19.45	20.40	19.86	20.75	21.14	22.32	23.26	22.73	23.62	24.00
	6H	19.38	20.24	19.80	20.61	21.01	22.50	23.36	22.92	23.74	24.13
	8H	19.34	20.15	19.77	20.54	20.95	22.52	23.34	22.96	23.73	24.14
	12H	19.29	20.07	19.73	20.45	20.88	22.52	23.29	22.95	23.68	24.11
4H	2H	19.87	20.81	20.28	21.16	21.55	21.07	22.01	21.47	22.36	22.75
	3H	19.98	20.74	20.39	21.15	21.56	22.37	23.14	22.79	23.55	23.95
	4H	19.90	20.59	20.34	21.01	21.46	22.73	23.42	23.17	23.84	24.29
	6H	19.83	20.42	20.30	20.87	21.34	22.92	23.51	23.39	23.96	24.43
	8H	19.78	20.33	20.25	20.77	21.25	22.95	23.49	23.42	23.94	24.42
	12H	19.74	20.21	20.22	20.70	21.17	22.94	23.42	23.43	23.90	24.38
8H	4H	19.94	20.49	20.42	20.94	21.41	22.63	23.17	23.10	23.62	24.10
	6H	19.87	20.31	20.38	20.81	21.29	22.82	23.26	23.33	23.76	24.24
	8H	19.82	20.21	20.35	20.73	21.22	22.86	23.25	23.39	23.77	24.26
	12H	20.40	20.74	20.92	21.23	21.81	23.63	23.97	24.15	24.47	25.05
12H	4H	19.91	20.38	20.40	20.87	21.35	22.57	23.05	23.06	23.54	24.01
	6H	20.23	20.22	20.36	20.69	21.24	23.17	23.15	23.30	23.62	24.17
	8H	19.80	20.13	20.32	20.63	21.21	22.82	23.15	23.34	23.65	24.23
对应照射距离，改变观察者位置S											
S = 1.0H	0.4/-0.6					0.4/-0.5					
S = 1.5H	1.1/-2.9					1.0/-1.1					
S = 2.0H	3.9/-6.2					2.3/-1.8					
标准表格	BK1					BK2					
更正系数	0.0					2.8					

# 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	1.05	1.08	1.06	1.03	1.04	1.02	1.00	1.00	0.99	0.97	0.97	0.96	0.94	0.93
2	1.02	0.98	0.94	1.00	0.96	0.93	0.97	0.94	0.91	0.94	0.91	0.89	0.91	0.89	0.87	0.86
3	0.95	0.90	0.86	0.93	0.89	0.85	0.91	0.87	0.83	0.88	0.85	0.82	0.86	0.83	0.81	0.79
4	0.89	0.83	0.79	0.88	0.82	0.78	0.85	0.81	0.77	0.83	0.79	0.76	0.81	0.78	0.75	0.74
5	0.83	0.77	0.73	0.82	0.77	0.73	0.80	0.76	0.72	0.79	0.75	0.71	0.77	0.74	0.71	0.69
6	0.78	0.72	0.68	0.78	0.72	0.68	0.76	0.71	0.67	0.75	0.70	0.67	0.73	0.70	0.67	0.65
7	0.74	0.68	0.64	0.74	0.68	0.64	0.72	0.67	0.64	0.71	0.67	0.63	0.70	0.66	0.63	0.61
8	0.71	0.65	0.61	0.70	0.64	0.60	0.69	0.64	0.60	0.68	0.63	0.60	0.67	0.63	0.60	0.58
9	0.67	0.61	0.57	0.67	0.61	0.57	0.66	0.61	0.57	0.65	0.60	0.57	0.64	0.60	0.57	0.55
10	0.64	0.58	0.55	0.64	0.58	0.55	0.63	0.58	0.55	0.62	0.58	0.54	0.61	0.57	0.54	0.53



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	1102.95	1094.89	1063.89	1010.02	936.97	853.86	761.77	667.62	573.15
30.0	1111.62	1100.34	1063.05	1003.96	930.83	839.82	744.66	652.04	557.04
60.0	1107.32	1081.46	1034.73	963.13	881.25	785.56	691.79	593.41	499.10
90.0	1107.40	1080.77	1029.13	959.60	874.81	782.65	681.89	583.44	493.19
120.0	1104.18	1073.56	1020.84	955.31	869.82	774.44	679.74	580.52	492.19
150.0	1105.10	1084.30	1040.25	980.55	902.43	810.73	717.80	620.27	528.95
180.0	1102.95	1087.68	1046.24	987.69	910.41	824.32	730.85	632.16	535.63
210.0	1111.62	1098.50	1059.59	1004.57	929.29	838.28	742.05	647.59	550.52
240.0	1107.32	1107.02	1083.00	1036.42	975.80	893.99	802.29	704.68	609.68
270.0	1107.40	1110.70	1089.67	1050.92	989.30	911.41	823.47	732.08	634.70
300.0	1104.18	1111.39	1095.51	1059.52	1006.41	932.13	847.95	761.39	659.56
330.0	1105.10	1103.03	1077.70	1031.05	966.82	892.00	805.36	710.90	616.28
360.0	1102.95	1094.89	1063.89	1010.02	936.97	853.86	761.77	667.62	573.15
C/γ(°)	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0
0.0	490.66	410.39	336.80	277.87	225.53	179.72	144.34	117.87	96.31
30.0	473.24	396.04	328.05	270.65	222.69	183.71	150.64	126.08	105.36
60.0	418.76	345.55	283.24	232.59	191.08	155.78	130.22	109.20	92.47
90.0	407.94	337.57	269.27	218.01	173.66	139.97	113.34	93.62	80.04
120.0	404.71	334.88	271.42	221.00	176.27	140.81	115.72	95.85	81.11
150.0	436.87	362.89	294.14	240.04	193.07	154.63	125.70	102.60	85.49
180.0	451.37	369.34	297.59	241.80	192.23	154.24	123.47	100.45	83.11
210.0	462.65	387.83	319.15	264.28	213.18	175.04	143.88	118.87	99.99
240.0	516.90	434.10	363.20	300.12	246.79	200.21	165.75	136.67	114.11
270.0	546.91	459.89	380.77	314.93	255.23	204.35	163.07	131.45	106.51
300.0	573.08	487.21	409.32	338.03	276.26	222.08	179.57	146.49	118.87
330.0	531.56	446.31	373.79	309.18	252.39	206.27	166.83	134.98	110.81
360.0	490.66	410.39	336.80	277.87	225.53	179.72	144.34	117.87	96.31
C/γ(°)	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0
0.0	81.65	70.45	61.93	56.02	51.49	48.19	45.66	43.74	41.67
30.0	89.25	76.81	68.07	61.39	56.25	52.41	49.34	46.96	44.74
60.0	79.50	69.52	62.54	57.02	53.03	49.50	46.89	43.66	41.28
90.0	69.52	61.85	56.10	51.87	48.50	46.12	43.82	41.82	39.67
120.0	70.83	63.46	57.63	52.95	49.57	46.58	44.51	42.28	40.36
150.0	73.13	64.46	57.63	52.95	49.11	46.35	44.20	42.36	40.44
180.0	71.37	62.23	55.48	50.80	46.96	44.51	42.59	41.05	39.14
210.0	84.03	72.21	63.46	57.25	52.49	49.34	47.04	45.12	43.28
240.0	95.23	80.19	68.99	61.24	55.63	51.11	48.27	46.35	44.28
270.0	88.56	75.82	65.84	58.86	53.33	48.11	43.51	40.67	37.83
300.0	99.68	84.33	72.29	64.00	57.78	52.72	49.65	47.12	44.66
330.0	93.47	79.35	68.99	61.77	55.94	51.72	48.34	45.81	43.66
360.0	81.65	70.45	61.93	56.02	51.49	48.19	45.66	43.74	41.67
C/γ(°)	54.0	56.0	58.0	60.0	62.0	64.0	66.0	68.0	70.0
0.0	39.83	37.60	35.22	31.46	27.32	23.87	20.87	17.96	15.42
30.0	42.74	40.36	37.52	34.76	31.69	27.55	23.33	19.57	15.65
60.0	37.83	33.61	29.16	24.56	20.64	15.81	12.12	8.21	5.37
90.0	34.38	27.47	22.41	17.27	13.43	9.98	6.68	2.92	2.15
120.0	37.60	33.38	27.78	23.10	18.80	15.12	11.36	6.98	4.14
150.0	38.37	36.07	33.38	30.46	27.55	23.64	19.64	16.35	13.28
180.0	37.06	34.84	32.31	29.47	26.78	24.10	20.34	17.57	14.96
210.0	41.36	38.91	36.07	33.38	29.70	26.17	22.48	18.11	14.20
240.0	42.05	38.83	32.92	25.55	19.88	15.12	11.51	7.90	4.37
270.0	35.22	32.31	27.32	19.64	14.50	11.20	8.36	5.68	2.76
300.0	42.36	38.68	33.46	28.24	23.48	18.88	14.43	10.82	6.91
330.0	41.90	39.37	36.83	33.99	30.54	26.63	22.71	19.26	15.73
360.0	39.83	37.60	35.22	31.46	27.32	23.87	20.87	17.96	15.42

# 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	13.89	11.97	8.75	6.98	5.53	3.53	1.30	0.23	0.15
30.0	12.28	8.90	6.83	4.99	2.92	1.07	0.69	0.46	0.23
60.0	3.30	1.92	1.53	1.30	1.07	0.92	0.46	0.31	0.23
90.0	2.07	2.00	1.84	1.53	1.07	0.77	0.38	0.31	0.23
120.0	2.38	1.76	1.61	1.38	1.07	0.69	0.38	0.31	0.15
150.0	9.75	7.52	5.68	3.91	2.00	0.84	0.69	0.46	0.23
180.0	12.58	10.82	8.98	6.37	5.29	2.76	0.84	0.31	0.15
210.0	9.44	6.14	3.07	1.69	0.84	0.61	0.46	0.31	0.23
240.0	2.53	1.76	1.07	0.84	0.69	0.54	0.46	0.31	0.23
270.0	1.07	1.00	0.92	0.84	0.69	0.54	0.46	0.23	0.23
300.0	3.45	2.23	1.38	1.00	0.92	0.77	0.61	0.38	0.23
330.0	12.58	8.98	5.53	2.69	1.23	0.61	0.46	0.31	0.15
360.0	13.89	11.97	8.75	6.98	5.53	3.53	1.30	0.23	0.15

C/γ(°)	90.0
0.0	0.00
30.0	0.15
60.0	0.08
90.0	0.08
120.0	0.08
150.0	0.08
180.0	0.08
210.0	0.15
240.0	0.08
270.0	0.08
300.0	0.23
330.0	0.15
360.0	0.00