

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 (10-OL-12WN-AJ, CT)

报告编号:

电压(V): 220.3000

测试编号: 20210416003

电流(A): 0.1220

光源规格型号: OL

功率(W): 14.0000

每个光源光通量(lm)

功率因数: 0.5190

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): 1307.33

灯具效能(lm/w): 93.38

中心光强(cd): 14468.110

最大光强(cd): 14545.610

最大光强角度:  $C=60.0$   $\gamma=0.0$

半峰边角(50%Imax): [C0/180]Total=10.3

[C90/270]Total=10.4

光束扩散角(10%Imax): [C0/180]Total=25.6

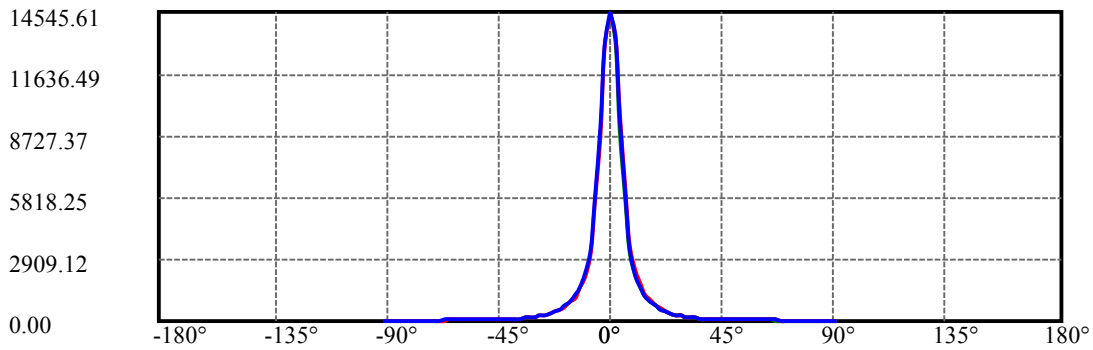
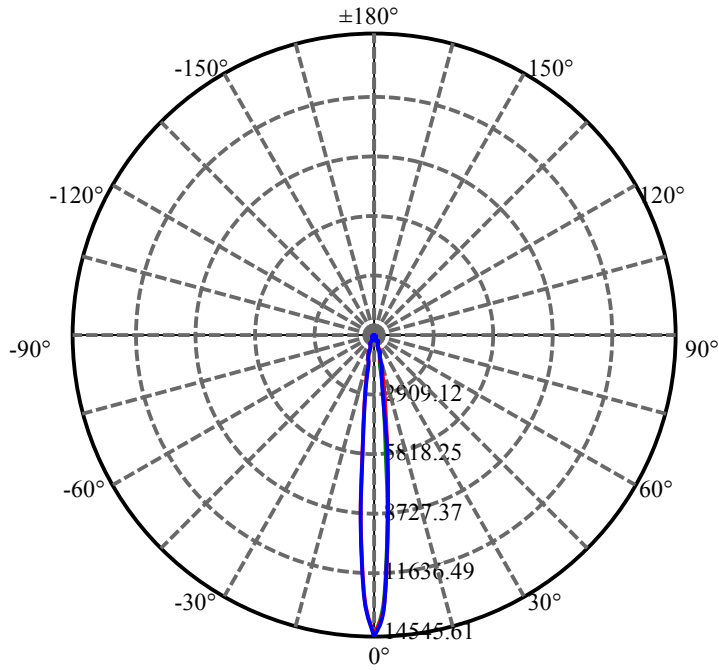
[C90/270]Total=25.0

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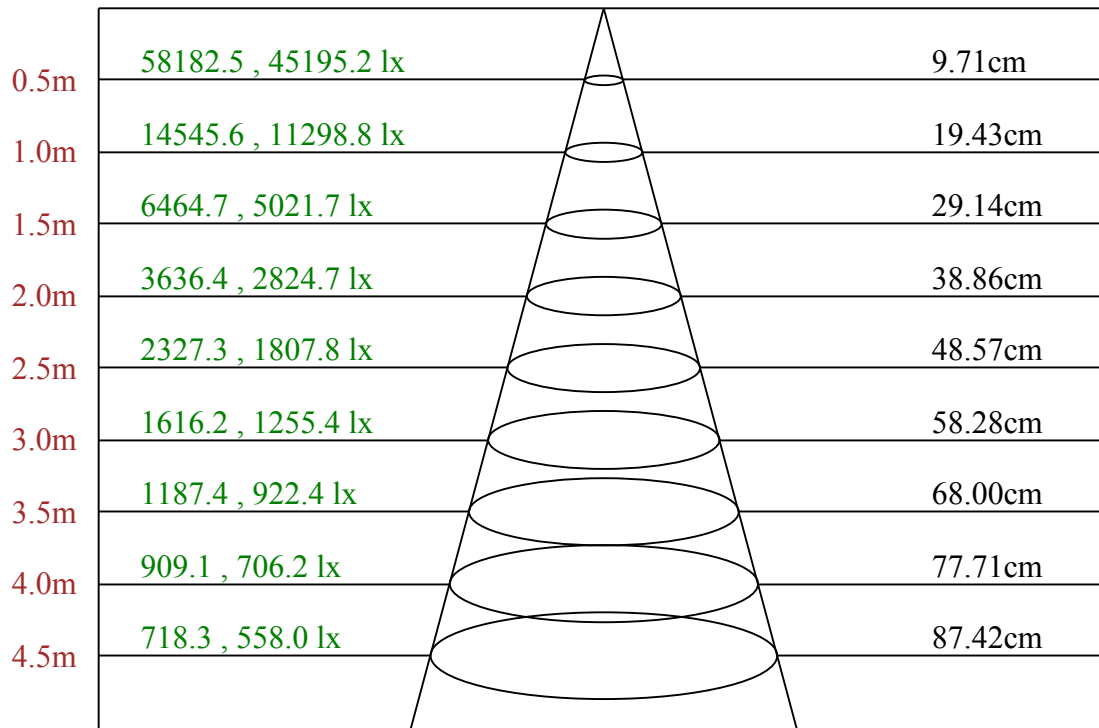
测试设备: GMS1800  
环境温度(°C): 25.0

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

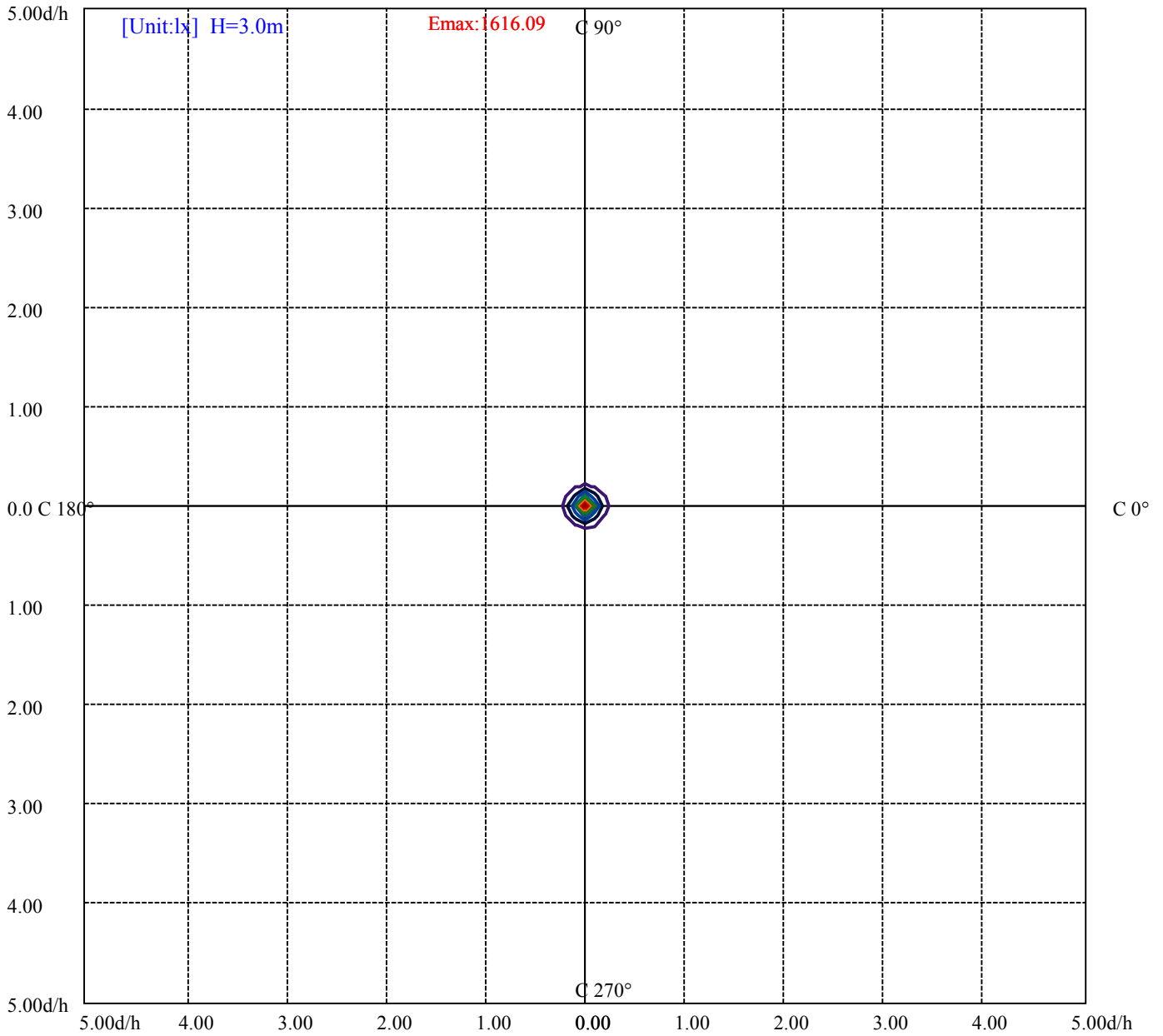


C60(Max): ————  
C0/C180: ————  
C90/C270: ————



Max , Ave    C60面光束角11.10

ROLED 投光灯  
平面等照度曲线



- (10%Emax) 161.6078
- (20%Emax) 323.2167
- (30%Emax) 484.8244
- (40%Emax) 646.4333
- (50%Emax) 808.0411
- (60%Emax) 969.6489
- (70%Emax) 1131.255
- (80%Emax) 1292.867
- (90%Emax) 1454.478

# ROLED 投光灯

## 灯具的亮度限制曲线(灯具无发光侧边)

亮度值表

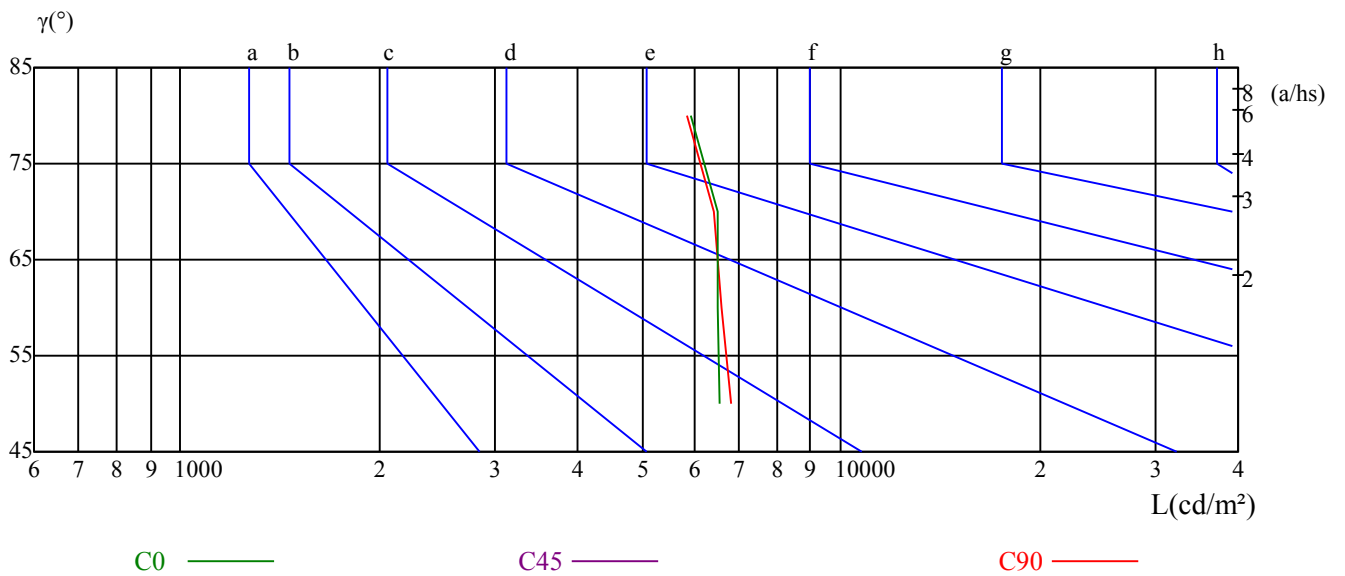
$\gamma$	45	50	55	60	65	70	75	80	85
C0	0	6567	0	6529	0	6498	0	5948	0
C45	0	0	0	0	0	0	0	0	0
C90	0	6817	0	6618	0	6446	0	5845	0

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

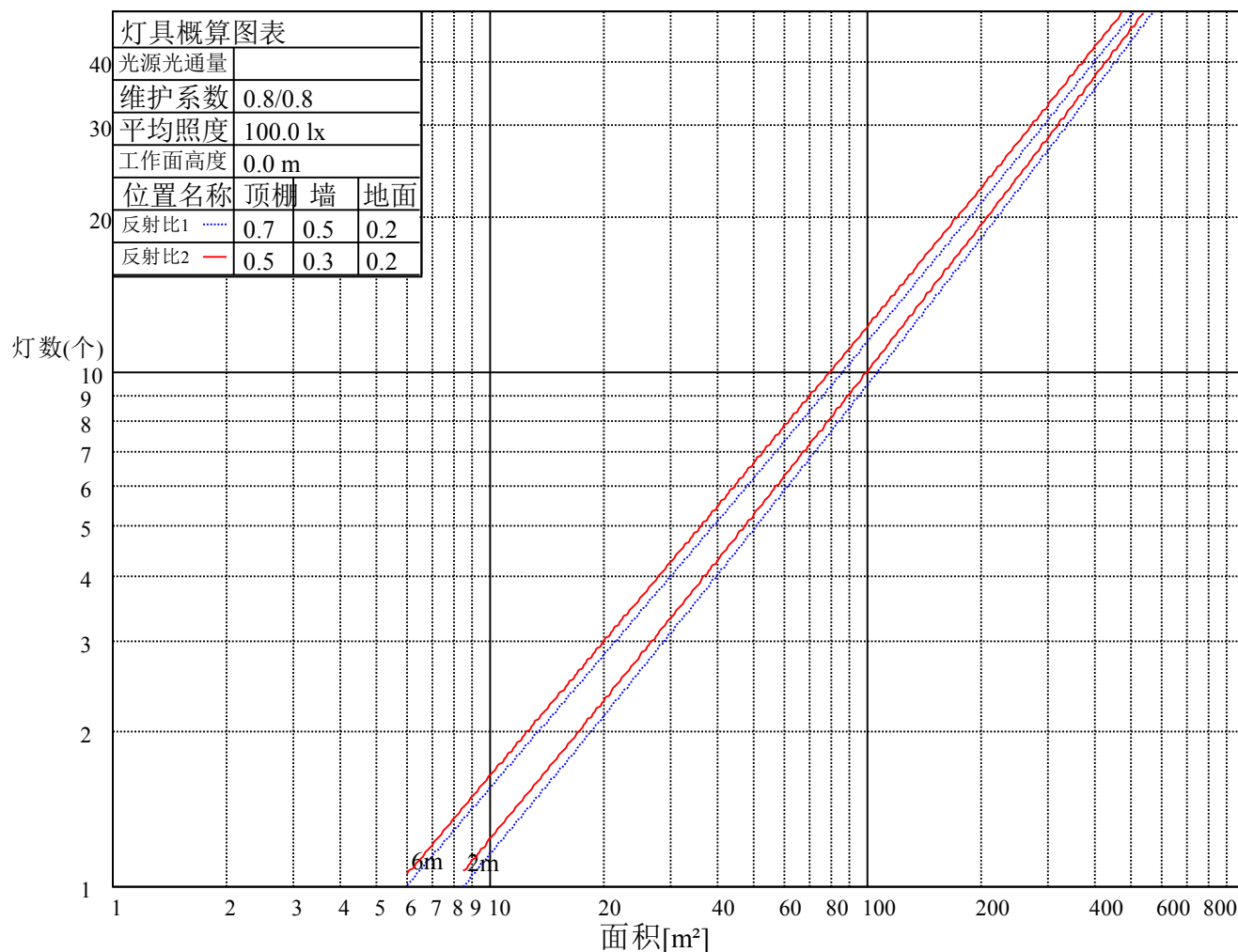
亮度限制曲线



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	14.05	15.14	14.41	15.46	15.77	13.92	15.01	14.28	15.32	15.64
	3H	16.07	17.04	16.45	17.37	17.74	15.94	16.91	16.32	17.25	17.61
	4H	16.85	17.75	17.25	18.11	18.49	16.73	17.63	17.13	17.98	18.37
	6H	17.43	18.26	17.84	18.63	19.03	17.31	18.14	17.72	18.51	18.91
	8H	17.61	18.39	18.04	18.78	19.19	17.48	18.27	17.92	18.66	19.07
	12H	17.80	18.55	18.23	18.93	19.36	17.67	18.42	18.11	18.81	19.24
4H	2H	14.64	15.55	15.05	15.90	16.29	14.54	15.45	14.95	15.80	16.19
	3H	16.87	17.62	17.29	18.03	18.43	16.77	17.52	17.19	17.93	18.33
	4H	17.79	18.45	18.22	18.88	19.32	17.69	18.36	18.12	18.78	19.23
	6H	18.37	18.94	18.84	19.39	19.87	18.27	18.85	18.74	19.30	19.77
	8H	18.60	19.14	19.07	19.59	20.06	18.50	19.04	18.97	19.49	19.96
	12H	18.80	19.27	19.29	19.76	20.23	18.70	19.16	19.19	19.65	20.13
8H	4H	18.08	18.62	18.56	19.07	19.54	18.00	18.53	18.47	18.98	19.46
	6H	18.83	19.26	19.33	19.76	20.24	18.75	19.17	19.25	19.68	20.16
	8H	19.14	19.52	19.67	20.04	20.54	19.06	19.44	19.58	19.96	20.45
	12H	19.80	20.13	20.32	20.63	21.20	19.71	20.04	20.23	20.54	21.11
12H	4H	18.10	18.56	18.59	19.05	19.53	18.01	18.48	18.50	18.97	19.44
	6H	19.27	19.27	19.42	19.74	20.28	19.19	19.19	19.34	19.66	20.21
	8H	19.25	19.58	19.77	20.08	20.65	19.17	19.50	19.69	20.00	20.57
对应照射距离，改变观察者位置S											
S = 1.0H	0.2/-0.7					0.2/-0.7					
S = 1.5H	0.7/-0.6					0.7/-0.6					
S = 2.0H	0.7/-0.6					0.6/-0.7					
标准表格	BKBF					BKBF					
更正系数	4.3					4.4					

# 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	1.08	1.06	1.09	1.06	1.05	1.05	1.03	1.01	1.01	1.00	0.98	0.98	0.96	0.95	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	0.90	0.87	0.85	0.84
4	0.93	0.88	0.84	0.92	0.88	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	0.80	0.86	0.82	0.79	0.85	0.81	0.79	0.83	0.80	0.78	0.77
6	0.86	0.80	0.77	0.85	0.80	0.77	0.83	0.79	0.76	0.82	0.78	0.76	0.81	0.78	0.75	0.74
7	0.82	0.77	0.74	0.82	0.77	0.74	0.81	0.76	0.73	0.80	0.76	0.73	0.78	0.75	0.73	0.71
8	0.80	0.75	0.72	0.79	0.75	0.71	0.78	0.74	0.71	0.77	0.74	0.71	0.76	0.73	0.71	0.69
9	0.77	0.73	0.69	0.77	0.72	0.69	0.76	0.72	0.69	0.75	0.72	0.69	0.74	0.71	0.69	0.68
10	0.75	0.71	0.68	0.75	0.70	0.67	0.74	0.70	0.67	0.73	0.70	0.67	0.73	0.69	0.67	0.66



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	14468.11	13191.96	9836.99	6121.36	3711.03	2425.68	1691.30	1266.94	965.36
30.0	14544.08	13372.29	9981.26	6271.00	3754.77	2397.28	1720.46	1279.98	985.31
60.0	14545.61	12876.57	8929.19	5621.03	3327.34	2193.16	1517.26	1179.30	886.47
90.0	14532.57	13224.19	9581.46	5917.24	3491.56	2200.07	1560.08	1146.46	877.88
120.0	14502.64	12674.75	8689.77	5416.14	3177.70	2042.75	1474.90	1085.07	834.44
150.0	14498.03	13132.87	9467.12	5824.38	3432.47	2209.28	1536.29	1132.65	869.44
180.0	14468.11	12716.96	8758.83	5499.78	3246.00	2094.17	1520.79	1126.58	869.82
210.0	14544.08	12525.11	8841.71	5405.40	3336.55	2162.47	1515.57	1170.02	901.44
240.0	14545.61	13153.59	9511.63	6005.48	3641.20	2385.77	1664.44	1246.99	949.24
270.0	14532.57	12793.69	9219.26	5716.18	3461.63	2286.78	1520.10	1223.50	929.68
300.0	14502.64	13308.60	9976.66	6230.33	3795.44	2490.14	1743.48	1309.14	999.12
330.0	14498.03	12861.99	9328.22	5805.20	3509.21	2318.24	1524.93	1252.82	956.00
360.0	14468.11	13191.96	9836.99	6121.36	3711.03	2425.68	1691.30	1266.94	965.36
C/γ(°)	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0
0.0	752.80	588.58	466.56	390.59	300.04	245.10	205.89	174.96	150.18
30.0	759.70	589.34	459.66	389.83	297.82	243.41	205.04	174.27	151.86
60.0	694.63	540.08	431.19	346.55	281.93	235.35	198.75	169.59	147.41
90.0	678.36	531.02	421.29	344.01	281.78	234.20	199.75	171.51	150.10
120.0	647.51	506.93	403.64	330.28	271.27	224.92	191.08	163.83	142.35
150.0	672.22	524.89	415.92	338.87	277.10	231.75	195.53	167.36	146.34
180.0	674.52	525.88	416.30	338.87	276.18	228.98	194.84	166.44	144.42
210.0	698.24	543.76	430.42	344.01	281.55	228.91	194.45	166.60	144.42
240.0	738.22	577.07	453.52	390.59	296.44	243.49	205.50	175.50	151.63
270.0	729.93	570.16	452.06	361.97	293.67	241.03	204.43	174.58	151.10
300.0	777.35	607.76	481.14	391.36	306.64	250.09	207.04	176.73	152.17
330.0	750.95	584.82	462.04	367.73	296.82	241.80	203.51	172.43	148.41
360.0	752.80	588.58	466.56	390.59	300.04	245.10	205.89	174.96	150.18
C/γ(°)	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0
0.0	132.22	117.72	105.90	96.38	88.79	81.96	76.97	72.44	68.45
30.0	132.76	118.79	107.51	98.61	90.55	83.80	78.73	73.98	69.75
60.0	131.07	117.56	106.51	97.84	90.01	83.64	78.43	74.05	69.75
90.0	131.91	119.02	108.12	99.45	91.55	85.03	79.88	75.20	70.98
120.0	126.23	114.19	103.75	95.92	87.71	81.57	76.43	72.06	68.07
150.0	128.84	115.34	104.59	95.92	88.02	81.65	76.97	72.59	68.83
180.0	126.85	113.88	102.83	94.23	86.25	80.04	75.20	71.21	67.38
210.0	128.61	115.57	105.28	96.31	88.71	82.34	77.50	72.90	68.76
240.0	134.29	120.25	108.51	99.07	91.55	84.72	79.27	74.90	70.60
270.0	134.21	120.40	109.27	100.22	92.16	85.41	80.65	76.12	71.90
300.0	133.83	119.94	108.12	99.14	90.78	83.80	78.27	73.98	69.83
330.0	131.14	117.02	105.44	96.69	88.71	81.96	76.89	72.75	68.76
360.0	132.22	117.72	105.90	96.38	88.79	81.96	76.97	72.44	68.45
C/γ(°)	54.0	56.0	58.0	60.0	62.0	64.0	66.0	68.0	70.0
0.0	65.23	62.16	59.09	56.02	53.03	49.34	45.74	41.82	38.14
30.0	65.99	62.62	59.01	55.33	52.41	48.96	45.89	42.36	38.91
60.0	65.99	62.46	58.70	55.02	51.49	48.04	44.51	41.05	37.29
90.0	67.07	63.77	60.24	56.79	53.41	49.65	45.89	41.67	37.83
120.0	64.31	61.01	57.40	53.87	50.65	47.58	44.28	40.90	37.29
150.0	65.07	61.77	58.24	54.94	51.57	47.88	44.43	40.67	36.76
180.0	64.15	61.16	58.09	54.94	51.64	48.19	44.35	40.52	36.83
210.0	65.23	61.62	57.86	54.41	51.26	47.88	44.66	41.28	37.60
240.0	66.68	63.23	59.63	55.79	52.64	48.96	45.43	41.82	37.83
270.0	68.53	65.15	61.70	58.09	54.79	50.95	47.27	42.97	38.75
300.0	66.45	63.16	59.63	56.17	53.03	49.73	46.50	43.28	39.60
330.0	65.61	62.23	58.78	55.40	52.18	48.73	45.04	41.44	37.60
360.0	65.23	62.16	59.09	56.02	53.03	49.34	45.74	41.82	38.14

# 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	34.22	30.31	26.01	21.79	17.73	13.28	9.06	4.68	0.92
30.0	35.07	31.31	27.09	22.79	18.49	14.12	9.67	5.22	1.00
60.0	33.30	29.31	25.17	21.03	16.88	12.58	8.52	4.30	0.61
90.0	33.76	29.85	25.71	21.41	17.42	13.05	8.82	4.45	0.61
120.0	33.61	29.93	25.55	21.49	17.11	12.89	8.67	3.84	0.38
150.0	32.92	29.16	25.02	21.03	17.19	12.51	8.36	4.22	0.61
180.0	32.92	28.93	24.71	20.72	16.42	12.35	8.21	3.91	0.46
210.0	33.92	29.54	25.63	21.26	17.11	12.74	8.52	3.76	0.46
240.0	34.15	30.08	25.71	21.56	17.27	12.97	8.82	4.53	0.84
270.0	34.53	30.16	26.01	21.64	17.42	13.12	8.98	4.53	0.84
300.0	35.61	31.46	27.32	23.02	18.72	14.27	9.82	5.29	1.15
330.0	33.69	29.47	25.48	21.41	17.11	12.89	8.75	4.53	0.84
360.0	34.22	30.31	26.01	21.79	17.73	13.28	9.06	4.68	0.92

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