

浙大三色

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## ROLED

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灯具名称: 投光灯

灯具描述: F1212A1-12-36DC-RC-Y (45-CL-12RGBWN-AJ, CT)

报告编号:

电压(V): 35.9000

测试编号: 20210417003

电流(A): 0.6120

光源规格型号: CL

功率(W): 21.9000

每个光源光通量(lm)

功率因数: 1.0350

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): 848.86

灯具效能(lm/w): 38.76

中心光强(cd): 922.770

最大光强(cd): 929.906

最大光强角度:  $C=30.0$   $\gamma=0.0$

半峰边角(50%Imax): [C0/180]Total=47.9

[C90/270]Total=48.3

光束扩散角(10%Imax): [C0/180]Total=97.6

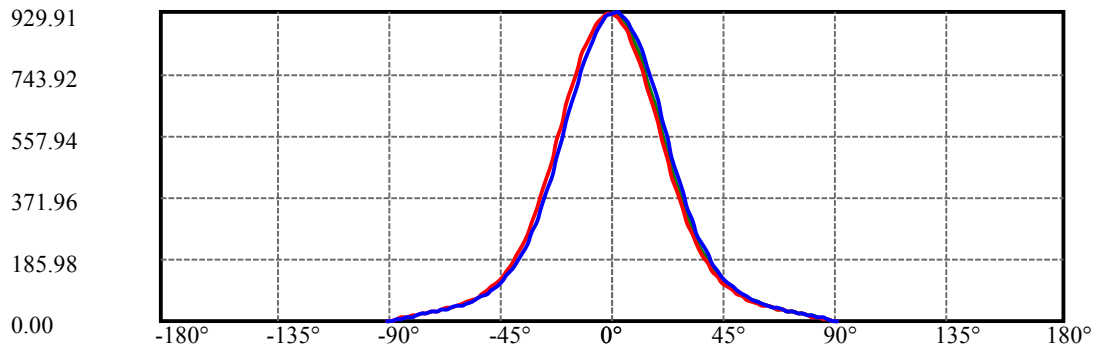
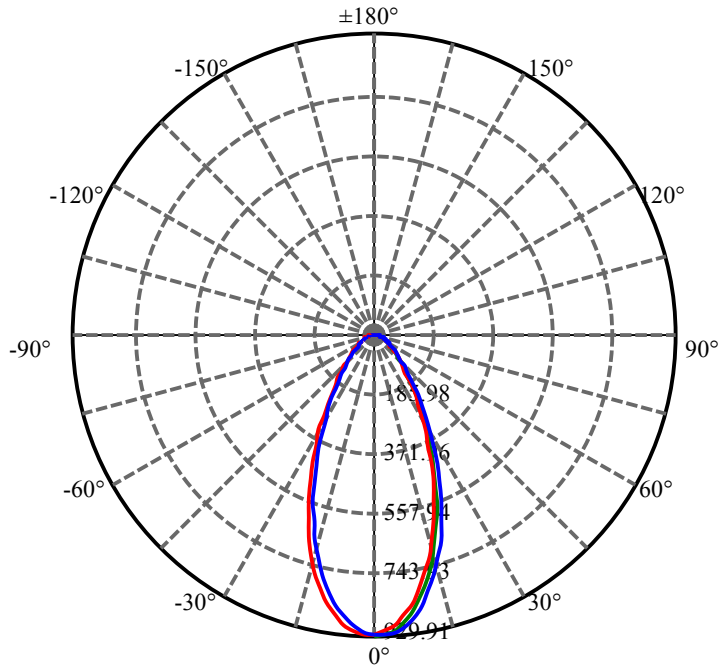
[C90/270]Total=98.2

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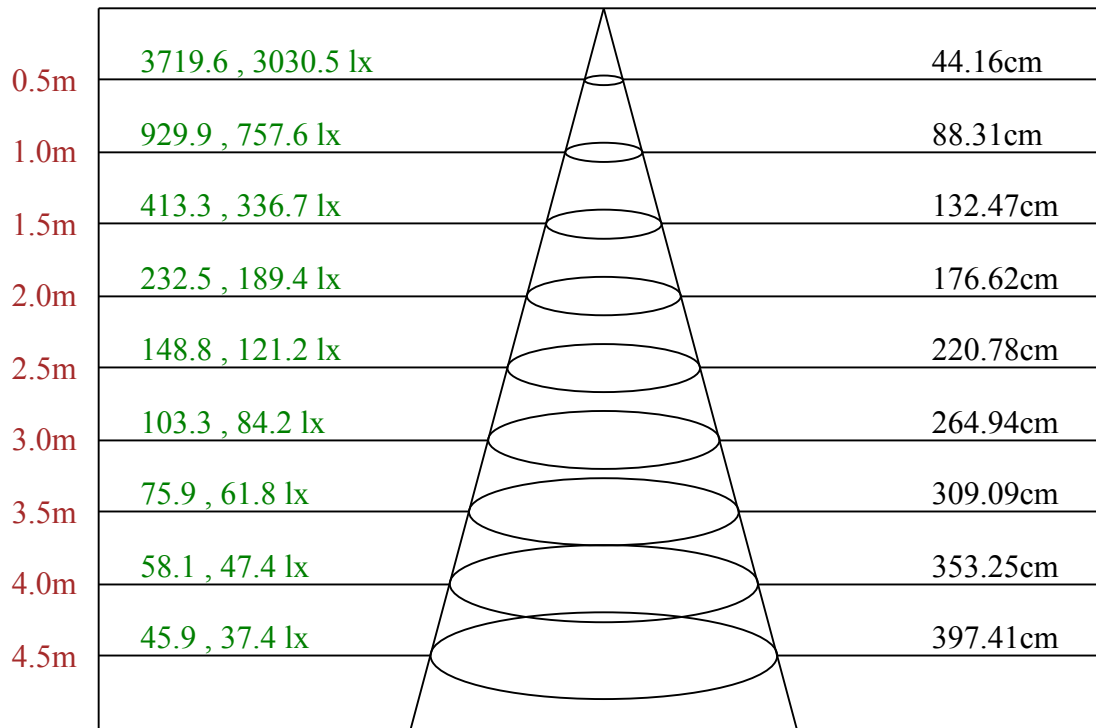
测试设备: GMS1800  
环境温度(°C): 25.0

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

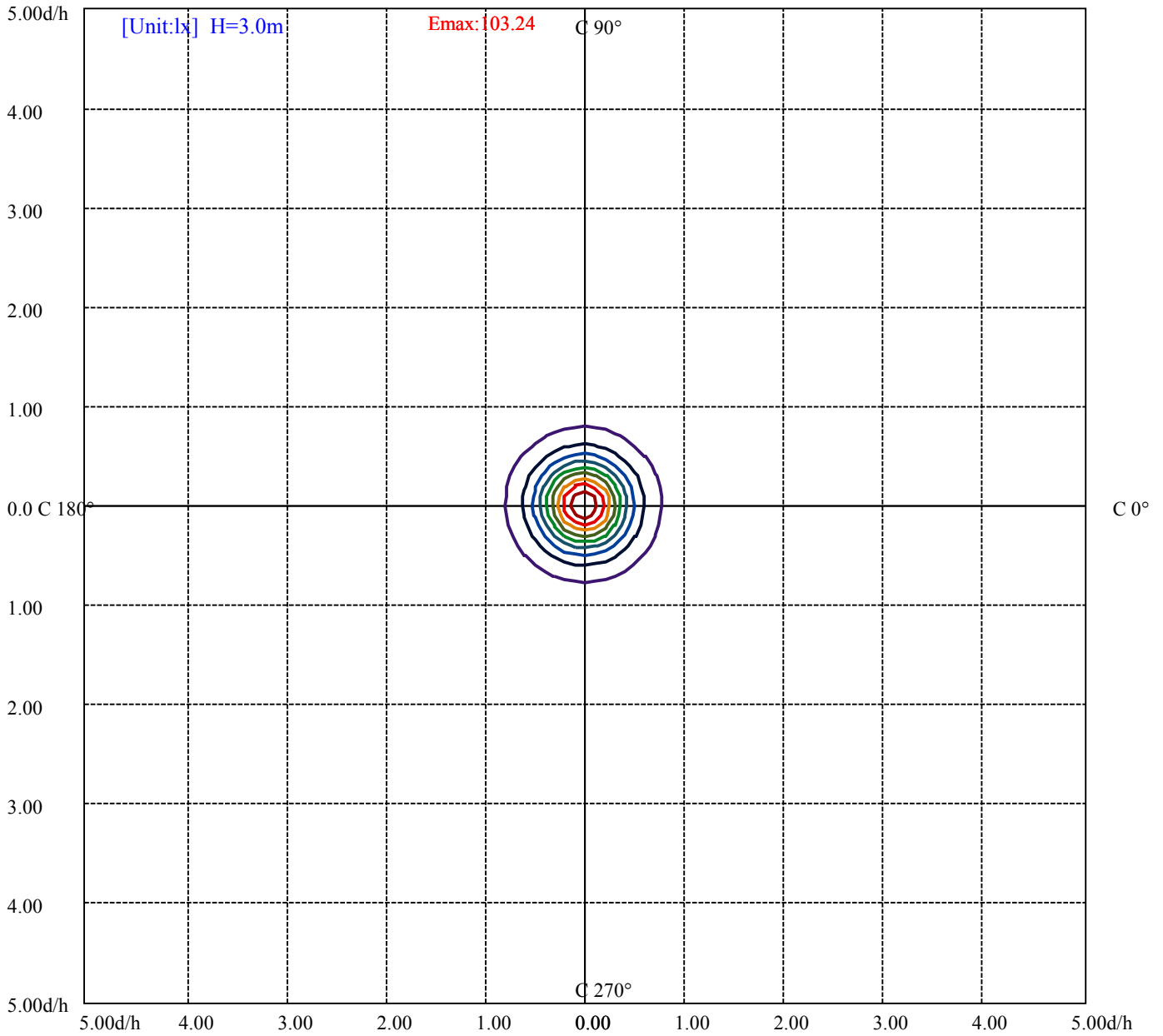


C30(Max): —  
C0/C180: —  
C90/C270: —



Max , Ave    C30面光束角47.65

ROLED 投光灯  
平面等照度曲线



(10%Emax) 10.32419	——
(20%Emax) 20.64833	——
(30%Emax) 30.97256	——
(40%Emax) 41.29678	——
(50%Emax) 51.62089	——
(60%Emax) 61.94511	——
(70%Emax) 72.26933	——
(80%Emax) 82.59344	——
(90%Emax) 92.91766	——

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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

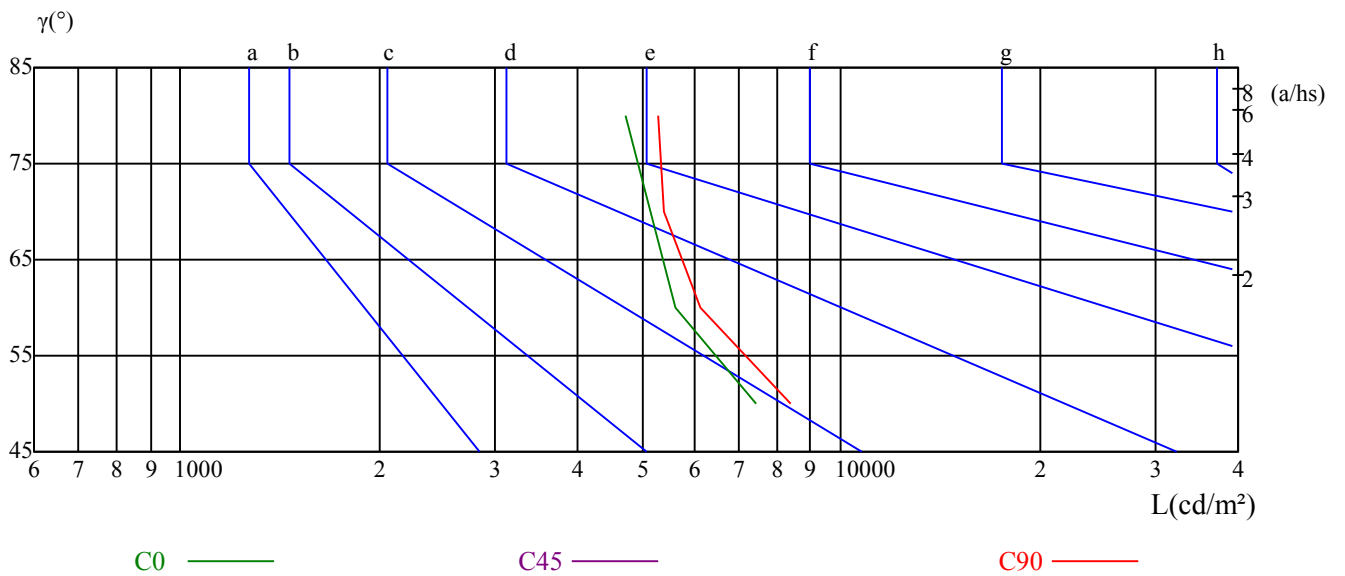
$\gamma$	45	50	55	60	65	70	75	80	85
C0	0	7444	0	5634	0	5151	0	4712	0
C45	0	0	0	0	0	0	0	0	0
C90	0	8397	0	6135	0	5387	0	5279	0

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

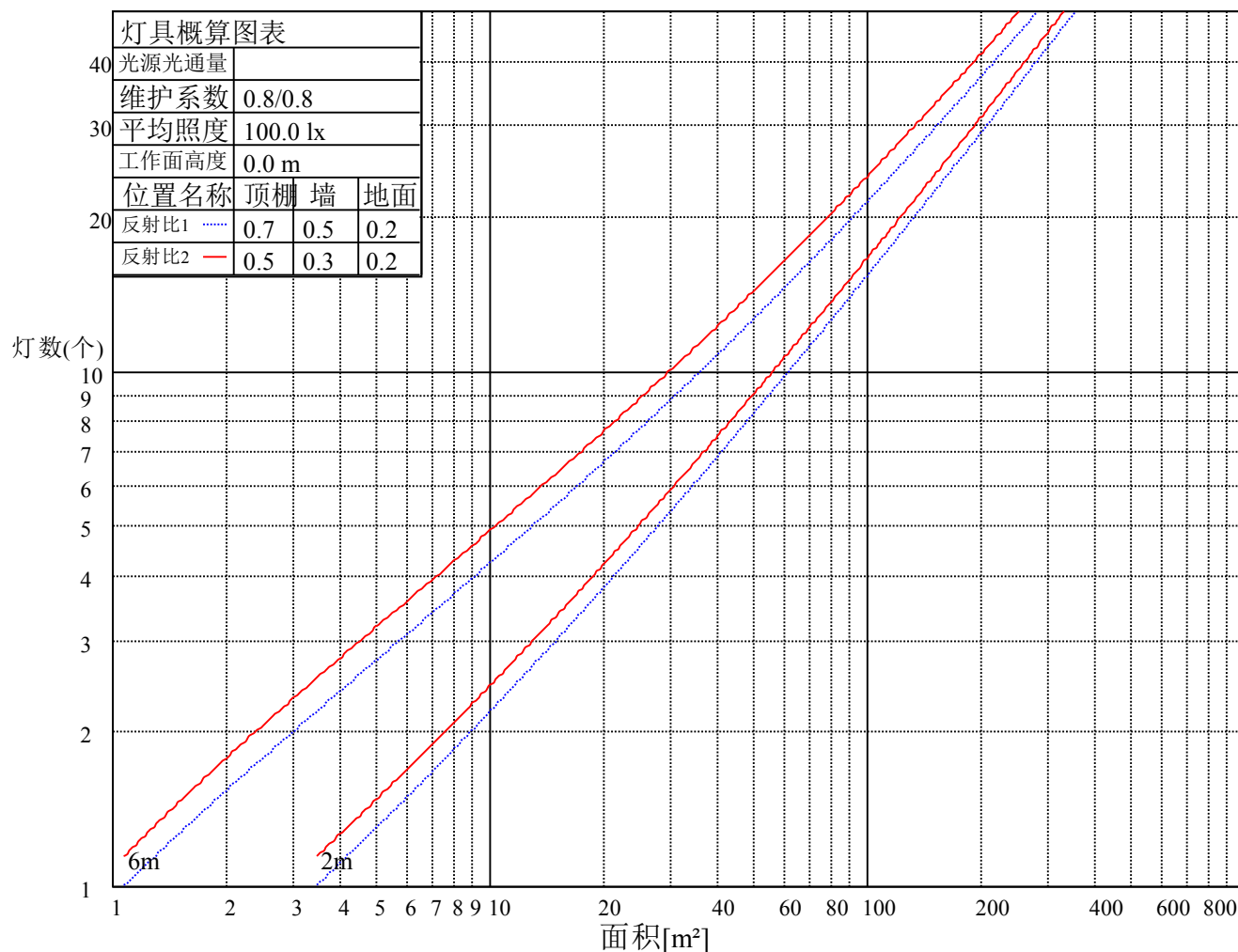
亮度限制曲线



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	16.58	17.83	16.94	18.15	18.46	16.52	17.78	16.89	18.09	18.40
	3H	18.11	19.23	18.49	19.56	19.93	18.08	19.19	18.46	19.52	19.89
	4H	18.76	19.81	19.17	20.16	20.54	18.73	19.78	19.13	20.13	20.51
	6H	19.30	20.26	19.71	20.63	21.02	19.27	20.23	19.68	20.60	20.99
	8H	19.48	20.39	19.91	20.78	21.19	19.46	20.36	19.89	20.76	21.16
	12H	19.71	20.58	20.14	20.96	21.39	19.69	20.55	20.12	20.94	21.37
4H	2H	17.03	18.07	17.43	18.42	18.80	16.98	18.02	17.38	18.37	18.76
	3H	18.81	19.67	19.22	20.07	20.48	18.77	19.63	19.18	20.03	20.44
	4H	19.60	20.38	20.04	20.80	21.24	19.56	20.33	20.00	20.75	21.20
	6H	20.16	20.83	20.63	21.28	21.74	20.12	20.79	20.59	21.24	21.71
	8H	20.41	21.03	20.88	21.48	21.95	20.37	21.00	20.84	21.44	21.92
8H	12H	20.66	21.21	21.14	21.69	22.16	20.63	21.17	21.11	21.66	22.13
	4H	19.87	20.49	20.34	20.94	21.41	19.83	20.45	20.30	20.90	21.37
	6H	20.59	21.10	21.10	21.60	22.08	20.56	21.06	21.06	21.56	22.04
	8H	20.93	21.38	21.45	21.90	22.39	20.89	21.35	21.42	21.86	22.35
12H	12H	21.63	22.03	22.15	22.52	23.10	21.60	21.99	22.11	22.49	23.06
	4H	19.89	20.44	20.38	20.92	21.40	19.85	20.40	20.34	20.89	21.36
	6H	21.22	21.11	21.19	21.58	22.12	21.18	21.08	21.15	21.54	22.09
	8H	21.05	21.44	21.56	21.94	22.51	21.01	21.41	21.53	21.90	22.48
对应照射距离，改变观察者位置S											
S = 1.0H	0.6/-0.8					0.5/-0.8					
S = 1.5H	1.0/-1.1					1.1/-1.1					
S = 2.0H	2.4/-1.2					2.1/-1.2					
标准表格	BK3					BK3					
更正系数	2.3					2.0					

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## 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	1.08	1.05	1.02	1.06	1.03	1.01	1.02	1.00	0.98	0.98	0.96	0.95	0.95	0.93	0.92	0.90
2	0.99	0.94	0.89	0.97	0.92	0.88	0.93	0.90	0.86	0.90	0.87	0.84	0.88	0.85	0.83	0.81
3	0.90	0.84	0.79	0.89	0.83	0.79	0.86	0.81	0.77	0.83	0.79	0.76	0.81	0.78	0.75	0.73
4	0.83	0.76	0.71	0.82	0.76	0.71	0.80	0.74	0.70	0.77	0.73	0.69	0.75	0.72	0.68	0.67
5	0.77	0.70	0.65	0.76	0.69	0.65	0.74	0.68	0.64	0.72	0.67	0.63	0.70	0.66	0.63	0.61
6	0.71	0.64	0.59	0.71	0.64	0.59	0.69	0.63	0.59	0.67	0.62	0.58	0.66	0.61	0.58	0.56
7	0.67	0.60	0.55	0.66	0.59	0.55	0.65	0.59	0.54	0.63	0.58	0.54	0.62	0.57	0.54	0.52
8	0.62	0.56	0.51	0.62	0.55	0.51	0.61	0.55	0.51	0.60	0.54	0.50	0.58	0.54	0.50	0.49
9	0.59	0.52	0.48	0.58	0.52	0.47	0.57	0.51	0.47	0.56	0.51	0.47	0.55	0.50	0.47	0.45
10	0.55	0.49	0.45	0.55	0.49	0.44	0.54	0.48	0.44	0.53	0.48	0.44	0.52	0.48	0.44	0.43



# 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	922.77	914.48	896.45	870.05	838.97	798.68	752.57	703.07	651.89
30.0	929.91	925.53	911.95	889.47	858.77	820.17	778.27	728.93	675.14
60.0	928.45	925.69	913.02	892.46	862.68	827.85	785.03	739.14	686.19
90.0	926.07	927.14	919.70	903.89	879.64	847.18	808.20	765.30	714.89
120.0	925.38	926.68	919.70	905.12	883.17	852.32	815.03	772.75	722.56
150.0	923.61	925.99	919.85	905.35	884.40	854.32	817.33	775.82	726.40
180.0	922.77	923.23	914.41	897.14	872.43	838.82	801.45	755.10	704.30
210.0	929.91	924.61	910.88	888.08	858.92	820.25	776.97	728.24	677.36
240.0	928.45	922.00	906.58	882.94	852.09	813.11	768.30	719.95	669.15
270.0	926.07	917.17	899.06	873.50	840.43	802.06	757.17	707.60	656.03
300.0	925.38	916.48	899.59	875.19	843.96	805.28	760.32	711.89	661.32
330.0	923.61	913.33	894.76	870.05	836.98	796.31	753.64	703.91	649.28
360.0	922.77	914.48	896.45	870.05	838.97	798.68	752.57	703.07	651.89
C/γ(°)	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0
0.0	595.56	540.46	487.51	433.57	384.38	337.42	297.43	260.45	228.37
30.0	622.50	566.02	509.46	455.51	406.17	357.83	316.24	276.72	241.19
60.0	631.47	574.53	520.66	466.10	413.16	366.50	321.76	281.17	245.02
90.0	663.63	607.15	549.21	492.96	440.93	389.14	341.87	300.96	262.37
120.0	669.23	612.14	557.11	500.25	447.76	395.51	348.01	304.65	265.97
150.0	673.22	617.20	562.10	505.85	451.06	401.26	353.30	309.87	270.65
180.0	650.81	597.40	540.85	485.52	434.33	383.00	338.34	293.44	257.61
210.0	622.96	567.01	512.91	459.66	410.85	359.44	318.08	278.63	242.49
240.0	613.36	561.11	505.32	453.37	400.88	355.14	311.02	274.49	239.04
270.0	601.47	548.44	492.04	439.17	391.44	343.40	301.43	263.44	230.60
300.0	605.00	553.05	497.26	442.62	392.97	347.77	304.49	267.05	234.36
330.0	594.41	541.38	484.90	434.95	385.15	337.80	298.28	260.91	227.14
360.0	595.56	540.46	487.51	433.57	384.38	337.42	297.43	260.45	228.37
C/γ(°)	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0
0.0	198.83	174.12	151.86	133.83	117.95	103.67	92.32	82.11	73.13
30.0	210.34	184.78	161.23	141.27	124.85	109.81	97.53	86.33	76.66
60.0	215.17	187.55	163.60	144.19	126.46	111.27	98.15	87.25	77.50
90.0	228.68	200.67	174.88	152.94	134.75	118.33	104.21	92.62	81.57
120.0	233.82	204.05	179.34	156.93	137.59	120.86	107.13	94.62	83.72
150.0	237.96	207.65	182.33	159.54	139.82	123.24	108.43	95.62	84.49
180.0	224.61	195.68	171.82	150.10	132.22	115.26	102.14	90.17	80.34
210.0	213.41	186.40	163.30	143.35	125.77	110.43	98.22	86.94	77.04
240.0	208.19	183.33	158.77	139.89	123.09	108.74	96.08	85.79	76.12
270.0	201.59	176.11	154.55	135.75	119.33	104.98	93.70	82.95	74.28
300.0	204.28	180.10	156.24	137.97	121.71	107.82	95.31	84.72	75.89
330.0	198.67	174.81	152.55	134.06	118.79	104.36	92.55	82.11	73.44
360.0	198.83	174.12	151.86	133.83	117.95	103.67	92.32	82.11	73.13
C/γ(°)	54.0	56.0	58.0	60.0	62.0	64.0	66.0	68.0	70.0
0.0	65.46	59.24	53.33	48.34	44.20	40.36	36.91	33.53	30.23
30.0	68.76	61.16	55.17	49.57	44.97	40.67	36.91	33.38	30.00
60.0	69.45	62.16	55.63	50.11	45.28	40.75	36.68	33.15	29.70
90.0	73.05	65.23	58.70	52.64	47.58	43.13	38.83	35.22	31.62
120.0	74.82	66.68	59.78	53.18	48.04	43.20	39.21	35.45	31.85
150.0	75.43	67.15	60.01	53.95	48.50	43.59	39.14	35.22	31.46
180.0	71.44	63.85	57.55	51.87	46.89	42.44	38.75	35.07	31.69
210.0	69.14	61.93	55.40	50.03	45.35	41.05	37.52	33.99	30.54
240.0	67.99	61.39	54.79	49.65	44.97	40.82	36.68	33.15	30.00
270.0	66.45	59.78	53.79	49.04	44.43	40.36	36.76	33.23	29.77
300.0	67.38	60.85	54.64	49.50	44.89	40.67	37.14	33.69	30.39
330.0	65.84	59.39	53.26	48.19	43.51	39.44	35.61	31.92	28.62
360.0	65.46	59.24	53.33	48.34	44.20	40.36	36.91	33.53	30.23

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## 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	26.78	23.71	20.80	17.50	14.04	10.74	7.44	3.84	0.31
30.0	26.70	23.56	20.72	17.57	14.73	11.28	7.75	4.22	0.77
60.0	26.32	23.10	19.88	16.96	13.97	10.97	7.98	4.60	1.00
90.0	28.39	25.02	22.10	18.88	15.73	12.28	8.98	5.76	1.84
120.0	28.70	25.32	22.02	18.88	15.81	12.58	8.75	5.45	2.07
150.0	28.01	24.56	21.41	18.19	15.42	12.28	9.13	6.06	2.53
180.0	28.32	25.02	21.79	18.49	15.58	12.12	9.21	5.99	2.07
210.0	27.47	23.94	21.03	18.03	15.19	11.66	8.13	4.76	1.30
240.0	26.63	23.64	20.57	17.27	14.35	11.28	8.13	4.68	1.07
270.0	26.70	23.64	20.57	17.11	13.81	10.67	7.60	3.84	0.46
300.0	27.17	24.33	21.26	18.26	14.81	10.97	7.06	3.53	0.38
330.0	25.32	22.18	18.95	16.19	12.82	9.75	6.60	2.99	0.31
360.0	26.78	23.71	20.80	17.50	14.04	10.74	7.44	3.84	0.31
C/γ(°)	90.0								
0.0	0.00								
30.0	0.08								
60.0	0.00								
90.0	0.15								
120.0	0.23								
150.0	0.23								
180.0	0.23								
210.0	0.08								
240.0	0.00								
270.0	0.08								
300.0	0.00								
330.0	0.00								
360.0	0.00								