

浙大三色

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## ROLED

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灯具名称: 投光灯

灯具描述: F2031A-48-UN(45-OL-48WN-AA, P1)

报告编号:

电压(V): 219.5000

测试编号: 20210421003

电流(A): 0.2560

光源规格型号: OL

功率(W): 54.6000

每个光源光通量(lm)

功率因数: 0.9700

光源数量: 48

镇流器型号:

发光面长度(mm): 300

发光面宽度(mm): 165

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): 4925.57

灯具效能(lm/w): 90.21

中心光强(cd): 6251.045

最大光强(cd): 6360.012

最大光强角度: C=30.0  $\gamma$ =0.0

半峰边角(50%Imax): [C0/180]Total=43.3

[C90/270]Total=43.2

光束扩散角(10%Imax): [C0/180]Total=90.2

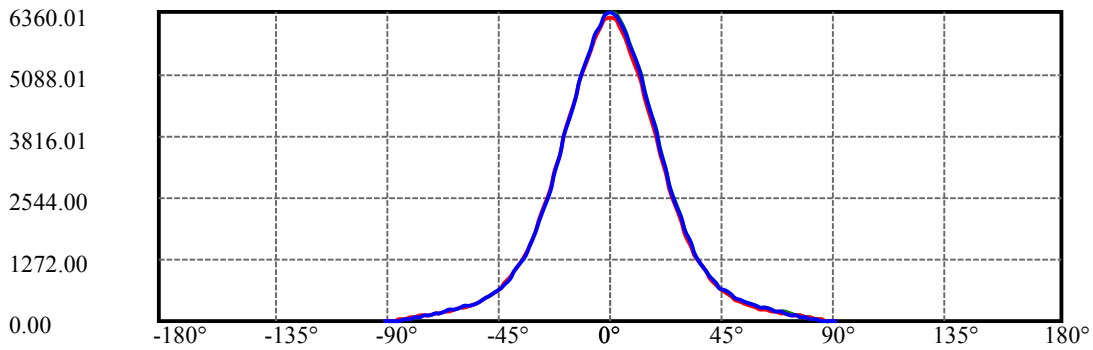
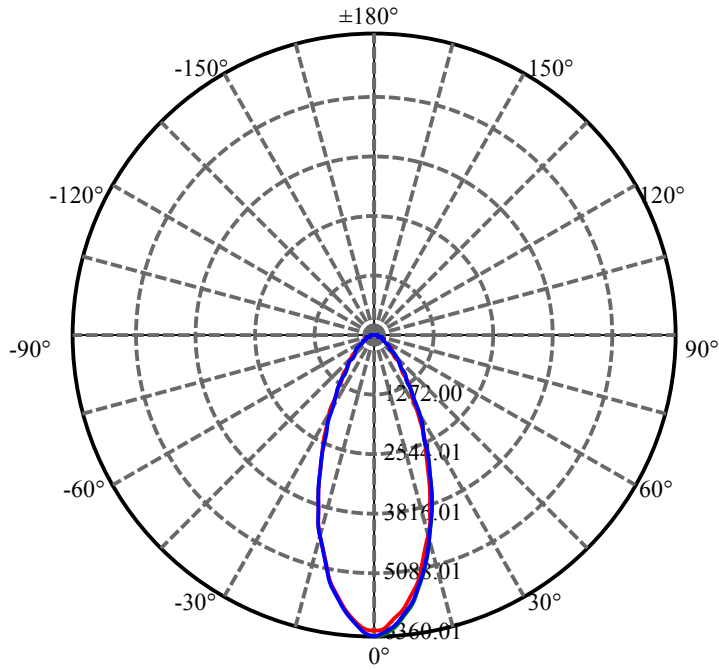
[C90/270]Total=90.3

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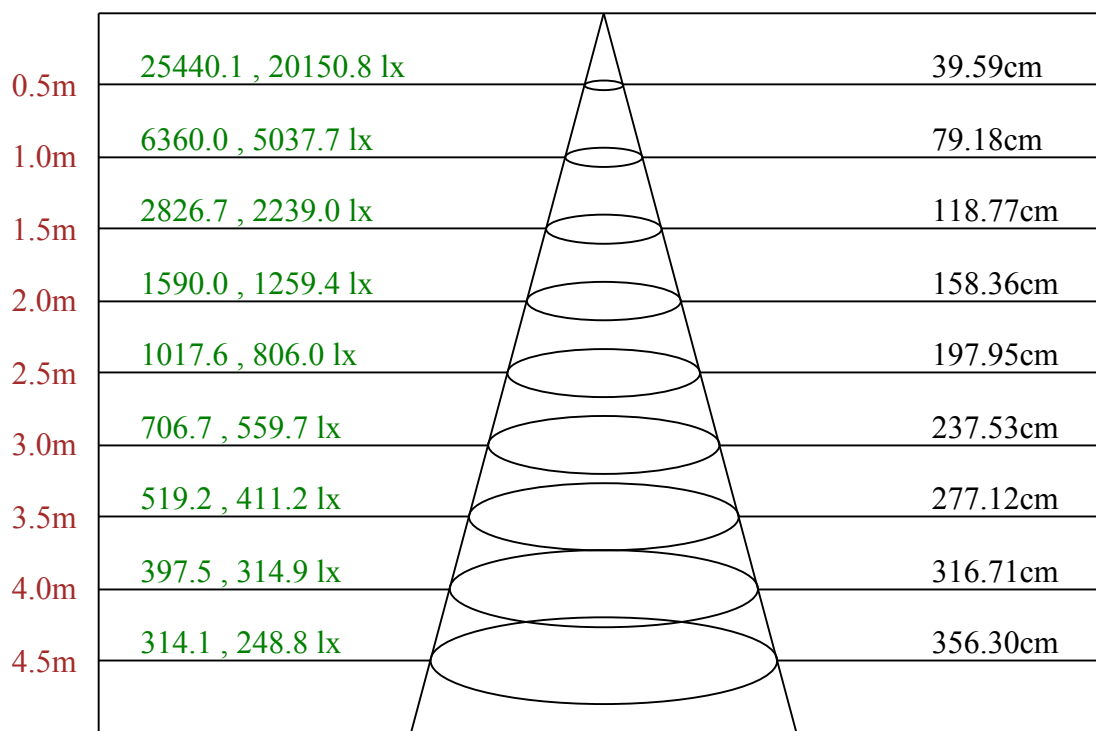
测试设备: GMS1800  
环境温度(°C): 25.0

测试日期: 2021/4/21  
环境湿度(%): 60.0%

测试人员: anpeilou  
测试距离(m): 8.76

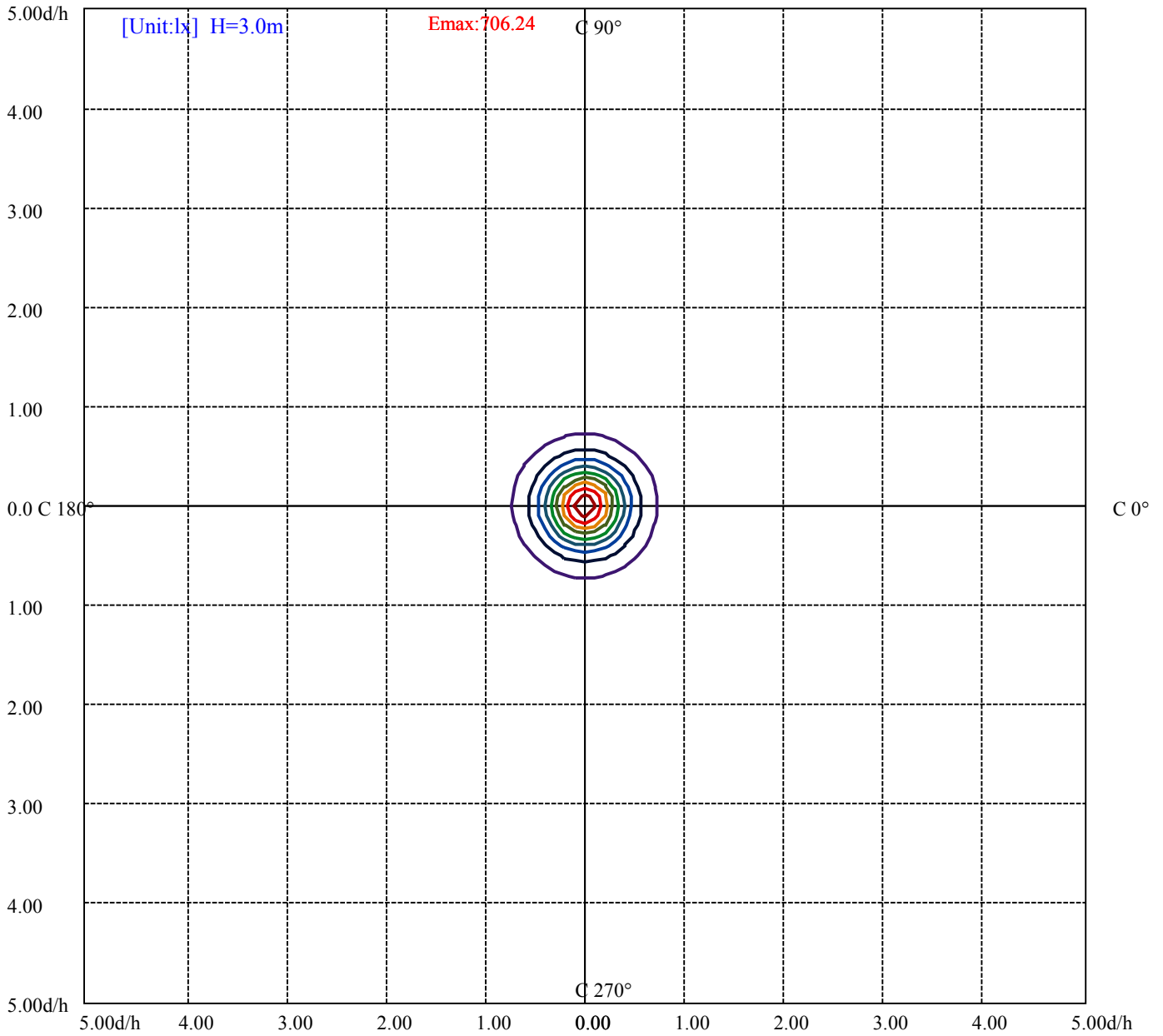


C30(Max): —  
C0/C180: —  
C90/C270: —



Max , Ave    C30面光束角43.19

ROLED 投光灯  
平面等照度曲线



(10%Emax) 70.62411	——
(20%Emax) 141.2478	——
(30%Emax) 211.8722	——
(40%Emax) 282.4967	——
(50%Emax) 353.1211	——
(60%Emax) 423.7444	——
(70%Emax) 494.3689	——
(80%Emax) 564.9933	——
(90%Emax) 635.6166	——

测试设备: GMS1800  
环境温度(°C): 25.0

测试日期: 2021/4/21  
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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

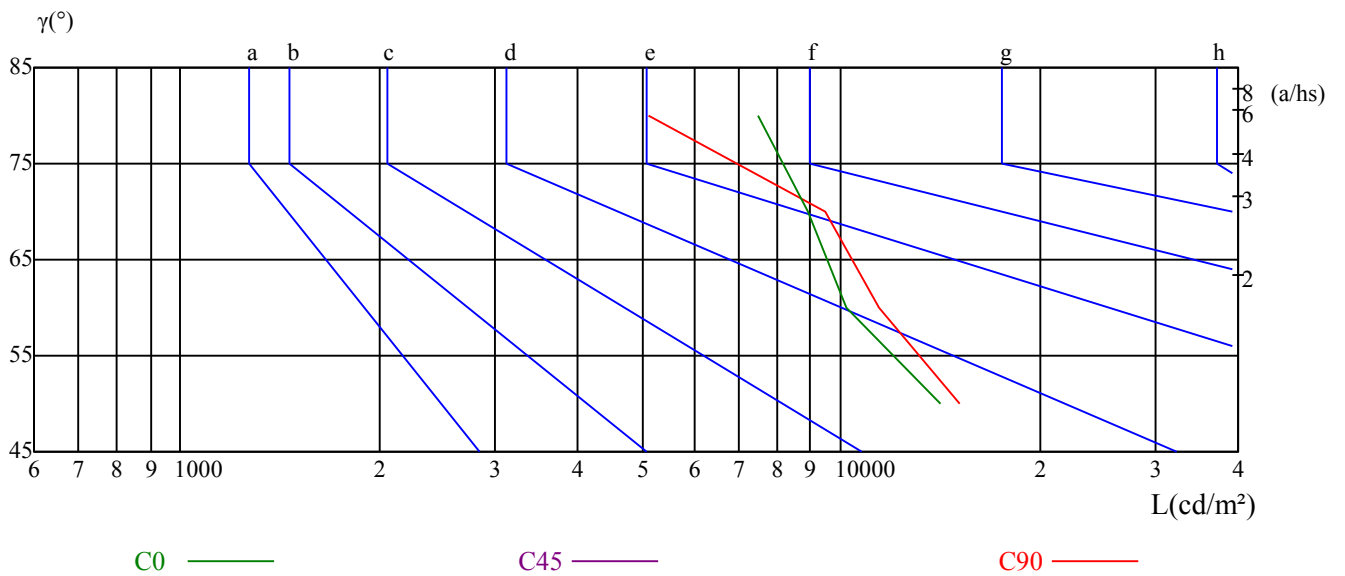
$\gamma$	45	50	55	60	65	70	75	80	85
C0	0	14157	0	10213	0	8893	0	7481	0
C45	0	0	0	0	0	0	0	0	0
C90	0	15098	0	11438	0	9500	0	5133	0

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

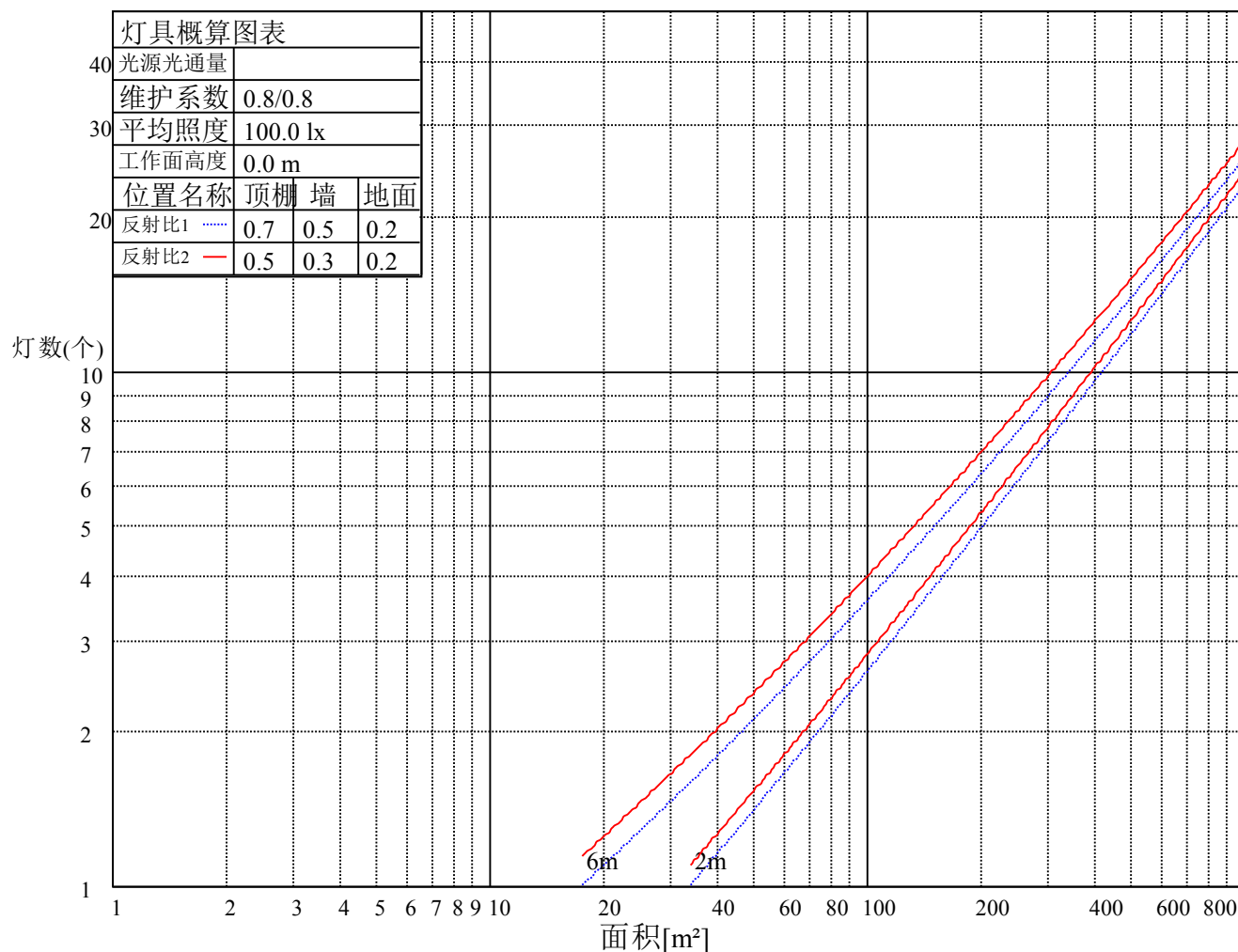
亮度限制曲线



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	12.60	13.82	12.96	14.13	14.45	12.39	13.62	12.76	13.93	14.24
	3H	14.10	15.18	14.48	15.52	15.88	13.91	14.99	14.29	15.33	15.69
	4H	14.58	15.59	14.98	15.94	16.33	14.48	15.50	14.89	15.85	16.23
	6H	14.80	15.72	15.21	16.10	16.49	14.88	15.81	15.29	16.18	16.57
	8H	14.81	15.68	15.24	16.07	16.48	14.97	15.85	15.40	16.24	16.65
	12H	14.79	15.62	15.22	16.01	16.44	15.05	15.89	15.48	16.27	16.70
4H	2H	13.11	14.12	13.52	14.47	14.86	12.95	13.96	13.35	14.31	14.70
	3H	14.87	15.71	15.29	16.11	16.52	14.77	15.61	15.19	16.01	16.41
	4H	15.46	16.21	15.90	16.63	17.07	15.48	16.22	15.91	16.64	17.09
	6H	15.71	16.35	16.18	16.80	17.27	15.88	16.52	16.35	16.97	17.44
	8H	15.73	16.33	16.20	16.78	17.25	16.01	16.60	16.48	17.05	17.52
	12H	15.71	16.23	16.20	16.72	17.19	16.08	16.60	16.57	17.09	17.56
8H	4H	15.70	16.30	16.17	16.75	17.22	15.72	16.31	16.19	16.76	17.23
	6H	16.03	16.51	16.53	17.01	17.49	16.24	16.72	16.74	17.22	17.70
	8H	16.08	16.51	16.60	17.02	17.52	16.41	16.84	16.93	17.35	17.85
	12H	16.65	17.02	17.16	17.52	18.09	16.99	17.37	17.51	17.86	18.44
12H	4H	15.70	16.22	16.19	16.71	17.18	15.70	16.23	16.19	16.71	17.19
	6H	16.55	16.48	16.58	16.95	17.49	16.74	16.67	16.77	17.14	17.68
	8H	16.12	16.49	16.64	16.99	17.56	16.44	16.82	16.96	17.31	17.89
对应照射距离，改变观察者位置S											
S = 1.0H	0.6/-0.8					0.6/-0.8					
S = 1.5H	1.3/-1.2					1.2/-1.2					
S = 2.0H	2.9/-1.3					2.5/-1.4					
标准表格	BK3					BK3					
更正系数	3.8					3.9					

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## 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	1.09	1.06	1.03	1.07	1.04	1.01	1.03	1.00	0.98	0.99	0.97	0.95	0.95	0.94	0.93	0.91
2	0.99	0.95	0.91	0.98	0.93	0.90	0.94	0.91	0.88	0.91	0.88	0.86	0.88	0.86	0.84	0.82
3	0.91	0.85	0.81	0.90	0.84	0.80	0.87	0.83	0.79	0.85	0.81	0.78	0.82	0.79	0.76	0.75
4	0.84	0.78	0.73	0.83	0.77	0.73	0.81	0.76	0.72	0.79	0.74	0.71	0.77	0.73	0.70	0.68
5	0.78	0.72	0.67	0.77	0.71	0.66	0.75	0.70	0.66	0.74	0.69	0.65	0.72	0.68	0.65	0.63
6	0.73	0.66	0.61	0.72	0.66	0.61	0.71	0.65	0.61	0.69	0.64	0.60	0.68	0.63	0.60	0.58
7	0.68	0.62	0.57	0.68	0.61	0.57	0.66	0.61	0.56	0.65	0.60	0.56	0.64	0.59	0.56	0.54
8	0.64	0.58	0.53	0.64	0.57	0.53	0.62	0.57	0.53	0.61	0.56	0.52	0.60	0.56	0.52	0.51
9	0.60	0.54	0.50	0.60	0.54	0.50	0.59	0.53	0.49	0.58	0.53	0.49	0.57	0.52	0.49	0.48
10	0.57	0.51	0.47	0.57	0.51	0.47	0.56	0.50	0.46	0.55	0.50	0.46	0.54	0.50	0.46	0.45



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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	6251.04	6191.19	6027.74	5808.27	5565.01	5261.13	4925.79	4565.89	4199.85
30.0	6360.01	6322.41	6191.96	5977.09	5736.14	5424.58	5095.38	4720.90	4322.63
60.0	6352.34	6294.02	6151.29	5942.56	5677.82	5364.73	5033.22	4648.00	4242.82
90.0	6346.20	6300.16	6144.38	5937.96	5684.72	5393.89	5051.64	4687.13	4297.31
120.0	6264.09	6201.93	6032.34	5839.73	5579.59	5287.22	4950.34	4578.17	4209.06
150.0	6254.11	6205.00	6066.11	5870.43	5622.56	5339.40	4999.45	4652.60	4265.84
180.0	6251.04	6193.49	6033.11	5821.31	5570.38	5263.43	4948.81	4587.37	4209.06
210.0	6360.01	6281.74	6111.38	5885.77	5620.26	5292.59	4935.76	4547.47	4163.78
240.0	6352.34	6292.48	6145.91	5930.28	5666.30	5350.91	5016.34	4640.32	4253.57
270.0	6346.20	6267.93	6094.50	5868.12	5594.17	5293.36	4951.88	4599.65	4205.99
300.0	6264.09	6205.00	6056.90	5852.78	5601.84	5312.54	4973.36	4565.89	4215.20
330.0	6254.11	6176.61	6009.32	5811.34	5551.20	5257.29	4919.65	4549.77	4159.18
360.0	6251.04	6191.19	6027.74	5808.27	5565.01	5261.13	4925.79	4565.89	4199.85
C/γ(°)	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0
0.0	3811.56	3443.22	3053.39	2691.19	2360.45	2049.66	1797.19	1557.77	1352.88
30.0	3938.17	3536.07	3138.57	2765.62	2437.95	2126.40	1843.24	1606.12	1386.65
60.0	3857.60	3450.12	3057.23	2710.37	2369.66	2061.94	1802.57	1521.25	1352.50
90.0	3918.22	3520.72	3125.52	2770.99	2426.44	2115.66	1845.54	1606.89	1382.04
120.0	3818.46	3424.03	3041.11	2701.93	2368.12	2065.01	1808.71	1531.53	1365.47
150.0	3870.64	3478.52	3094.06	2748.74	2412.63	2122.56	1844.77	1599.98	1385.88
180.0	3827.67	3456.26	3072.57	2714.21	2391.91	2085.73	1827.12	1522.47	1375.21
210.0	3766.28	3363.41	2994.30	2639.01	2302.90	2016.66	1750.38	1520.17	1321.81
240.0	3846.09	3447.05	3054.16	2709.60	2375.03	2063.47	1804.10	1563.91	1358.26
270.0	3817.70	3440.91	3050.32	2692.72	2352.01	2065.01	1804.10	1527.15	1357.41
300.0	3843.02	3458.56	3091.76	2730.32	2398.82	2088.80	1830.96	1591.54	1373.60
330.0	3788.54	3391.80	3008.88	2672.77	2341.26	2055.80	1788.75	1530.99	1345.67
360.0	3811.56	3443.22	3053.39	2691.19	2360.45	2049.66	1797.19	1557.77	1352.88
C/γ(°)	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0
0.0	1170.25	1012.94	873.27	765.07	666.08	577.83	511.07	450.45	402.11
30.0	1204.01	1038.26	895.53	775.82	675.29	593.95	521.05	464.26	413.62
60.0	1168.79	1015.78	876.96	761.16	667.85	584.89	516.21	461.50	412.54
90.0	1194.04	1035.96	896.30	780.42	679.13	616.97	543.30	480.38	430.50
120.0	1191.66	1031.74	894.45	785.10	686.65	603.54	534.02	478.00	427.35
150.0	1207.08	1042.86	903.20	790.40	689.87	608.53	532.56	475.01	423.59
180.0	1190.28	1036.96	897.06	779.12	683.19	596.87	523.96	462.27	412.00
210.0	1143.62	985.08	857.62	745.89	649.05	572.69	506.31	449.07	403.95
240.0	1166.41	1016.77	876.34	766.61	670.69	587.04	521.05	461.19	415.15
270.0	1175.93	1014.09	878.03	769.45	669.61	590.42	521.51	461.04	411.24
300.0	1200.18	1040.56	897.83	782.72	689.10	603.16	533.33	477.31	425.89
330.0	1174.39	1014.01	877.34	768.83	669.77	591.03	519.51	462.50	412.77
360.0	1170.25	1012.94	873.27	765.07	666.08	577.83	511.07	450.45	402.11
C/γ(°)	54.0	56.0	58.0	60.0	62.0	64.0	66.0	68.0	70.0
0.0	361.59	326.44	279.79	252.77	227.76	206.65	188.70	169.74	150.56
30.0	387.52	337.72	309.10	282.85	260.52	231.67	212.56	194.91	182.87
60.0	371.56	329.05	297.36	271.50	249.55	229.98	209.42	189.54	169.44
90.0	389.83	342.25	309.10	283.09	258.07	236.04	213.94	191.08	160.84
120.0	384.76	350.31	319.77	293.67	264.59	238.65	217.93	198.67	177.26
150.0	388.29	347.31	316.16	290.99	267.97	247.17	227.60	209.42	189.62
180.0	368.49	333.89	290.68	256.92	229.45	209.26	189.77	170.82	152.71
210.0	364.96	330.51	301.89	278.33	255.77	235.74	217.78	198.14	178.41
240.0	387.52	343.63	312.86	288.46	265.59	243.87	222.69	201.59	179.64
270.0	371.87	335.65	305.11	271.80	245.64	220.85	199.82	176.04	152.86
300.0	387.52	350.38	320.69	294.75	272.80	251.24	230.37	208.73	187.09
330.0	373.94	338.26	308.64	284.47	260.60	241.65	222.62	203.74	183.94
360.0	361.59	326.44	279.79	252.77	227.76	206.65	188.70	169.74	150.56

# 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	131.91	116.79	99.84	79.88	64.31	44.43	25.40	6.83	1.23
30.0	163.22	135.52	116.64	95.77	69.68	48.42	25.09	7.29	1.46
60.0	146.95	123.85	102.14	78.73	53.18	30.16	8.90	2.15	1.53
90.0	137.44	116.87	93.31	66.76	44.12	23.10	2.99	2.23	1.69
120.0	148.41	124.85	101.60	77.58	51.34	28.55	8.13	2.15	1.61
150.0	170.28	139.13	116.72	94.23	69.06	47.50	24.25	6.98	1.38
180.0	133.60	117.72	101.14	81.57	65.38	47.73	28.47	9.98	1.15
210.0	158.85	131.60	110.35	87.17	61.93	40.82	20.03	3.68	1.30
240.0	155.78	129.99	108.51	84.72	55.25	29.93	8.98	2.30	1.69
270.0	129.76	108.51	86.87	63.62	42.67	21.03	3.07	2.15	1.69
300.0	158.92	125.93	103.37	80.88	54.02	31.08	10.13	2.46	1.76
330.0	163.45	138.13	117.95	93.16	63.08	41.44	21.18	4.22	1.30
360.0	131.91	116.79	99.84	79.88	64.31	44.43	25.40	6.83	1.23
C/γ(°)	90.0								
0.0	0.38								
30.0	0.46								
60.0	0.38								
90.0	0.31								
120.0	0.46								
150.0	0.38								
180.0	0.38								
210.0	0.46								
240.0	0.46								
270.0	0.38								
300.0	0.46								
330.0	0.38								
360.0	0.38								