

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(30-OL-48WN-AA, P1)

报告编号:

电压(V): 219.3000

测试编号: 20210421002

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: 0.9710

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): 5184.93

灯具效能(lm/w): 94.96

中心光强(cd): 14126.630

最大光强(cd): 14214.870

最大光强角度: C=30.0  $\gamma=0.0$

半峰边角(50%Imax): [C0/180]Total=29.3

[C90/270]Total=29.2

光束扩散角(10%Imax): [C0/180]Total=55.4

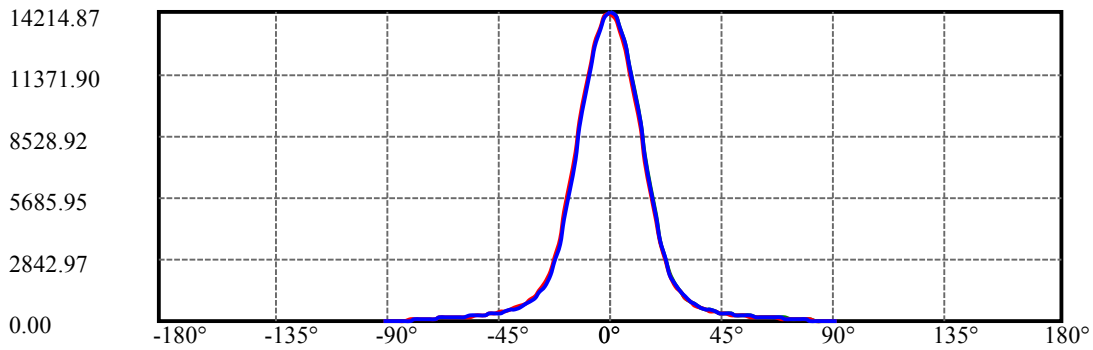
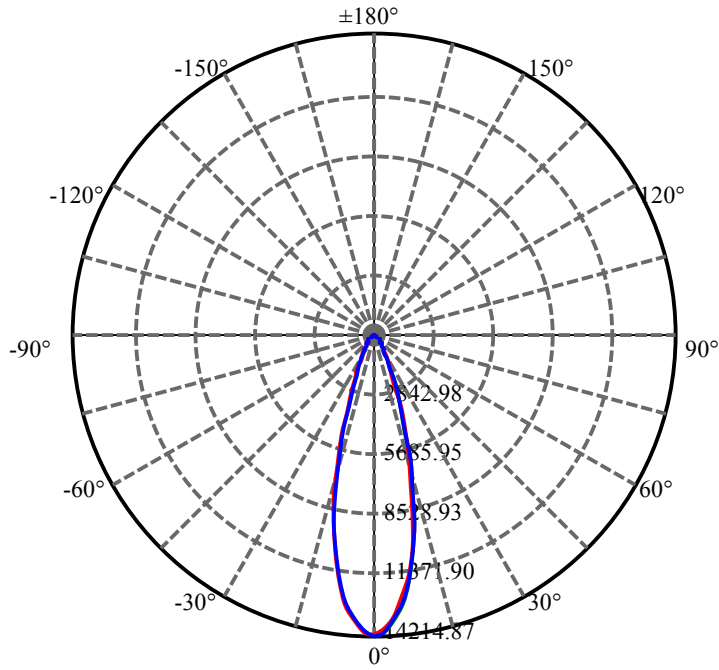
[C90/270]Total=54.9

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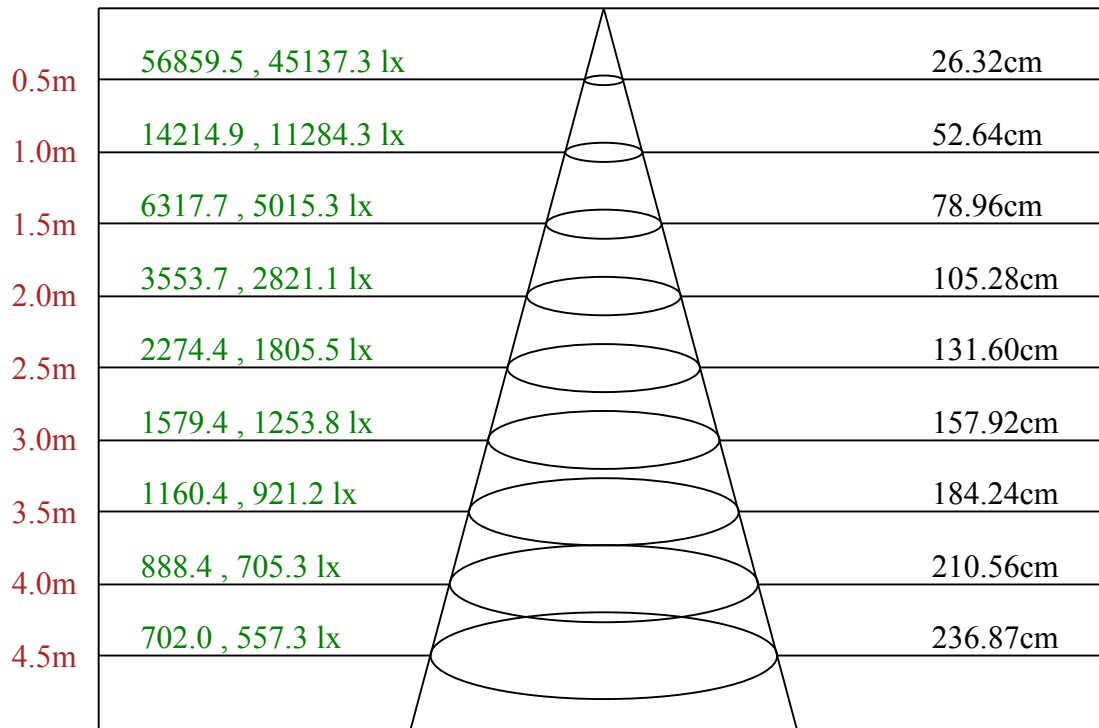
测试设备: GMS1800  
环境温度(°C): 25.0

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

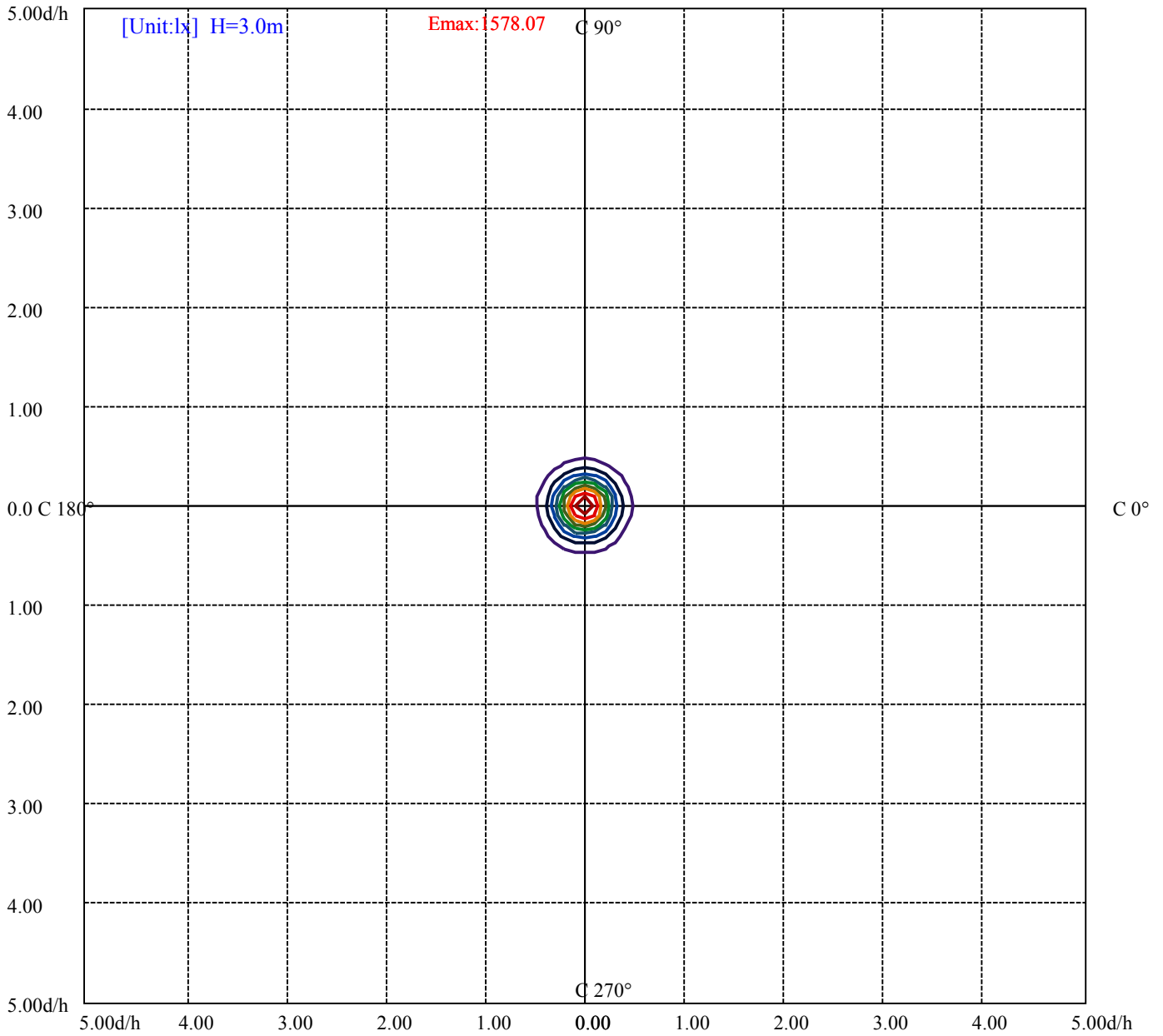


C30(Max): —  
C0/C180: —  
C90/C270: —



Max , Ave    C30面光束角29.49

ROLED 投光灯  
平面等照度曲线



- (10%Emax) 157.8067
- (20%Emax) 315.6133
- (30%Emax) 473.4189
- (40%Emax) 631.2255
- (50%Emax) 789.0322
- (60%Emax) 946.8389
- (70%Emax) 1104.644
- (80%Emax) 1262.456
- (90%Emax) 1420.255

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

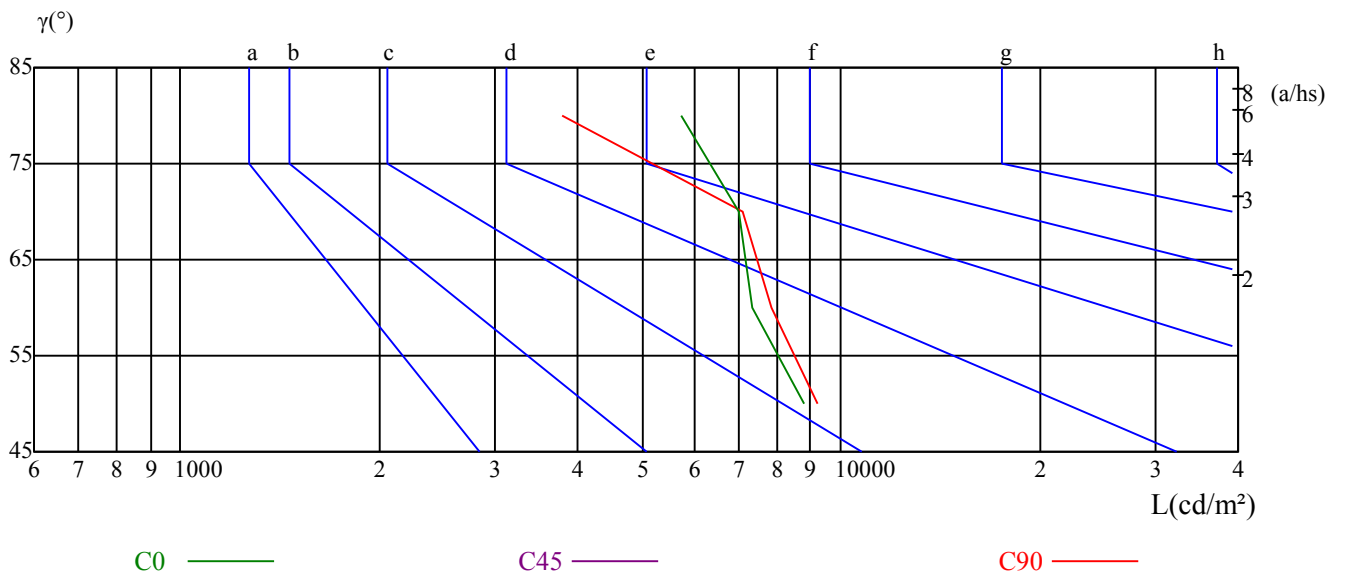
$\gamma$	45	50	55	60	65	70	75	80	85
C0	0	8788	0	7336	0	6994	0	5740	0
C45	0	0	0	0	0	0	0	0	0
C90	0	9230	0	7860	0	7085	0	3794	0

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

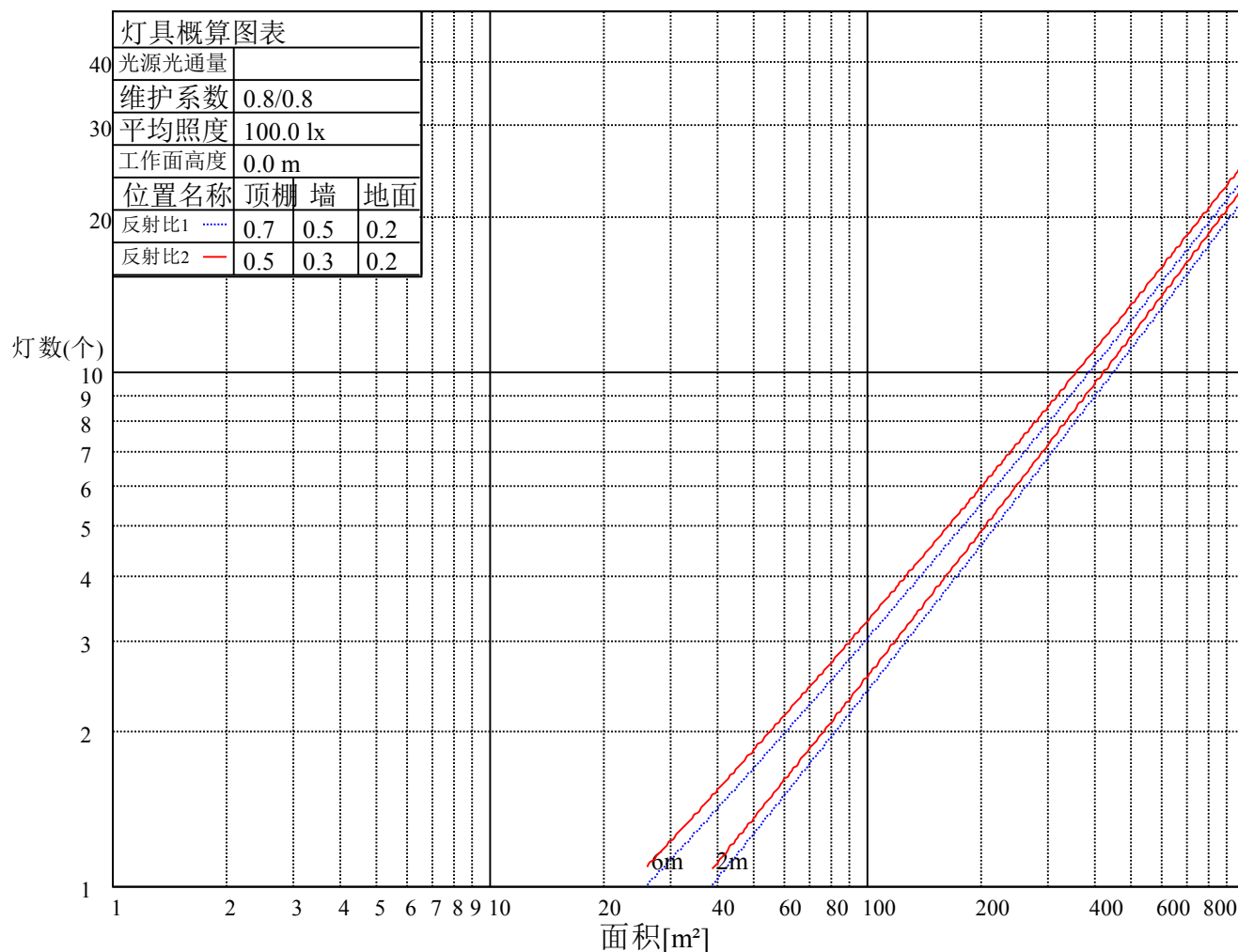
亮度限制曲线



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	9.74	10.84	10.10	11.15	11.46	9.48	10.58	9.85	10.89	11.21
	3H	11.46	12.43	11.84	12.76	13.13	11.30	12.27	11.68	12.60	12.97
	4H	12.04	12.94	12.45	13.30	13.68	12.01	12.92	12.42	13.27	13.66
	6H	12.30	13.13	12.72	13.50	13.90	12.48	13.31	12.90	13.68	14.08
	8H	12.31	13.09	12.75	13.49	13.89	12.59	13.37	13.02	13.76	14.17
	12H	12.29	13.04	12.72	13.42	13.85	12.66	13.41	13.09	13.79	14.22
4H	2H	10.29	11.20	10.70	11.55	11.94	10.09	11.00	10.50	11.35	11.74
	3H	12.25	13.00	12.67	13.40	13.81	12.19	12.93	12.60	13.34	13.74
	4H	12.95	13.61	13.39	14.04	14.48	13.04	13.71	13.48	14.13	14.58
	6H	13.24	13.81	13.70	14.26	14.73	13.51	14.08	13.98	14.53	15.00
	8H	13.26	13.79	13.73	14.24	14.71	13.64	14.17	14.12	14.62	15.10
	12H	13.24	13.70	13.72	14.18	14.66	13.71	14.17	14.20	14.66	15.14
8H	4H	13.22	13.75	13.69	14.20	14.67	13.30	13.83	13.78	14.28	14.76
	6H	13.59	14.01	14.10	14.52	15.00	13.89	14.32	14.40	14.82	15.30
	8H	13.64	14.02	14.17	14.54	15.04	14.07	14.45	14.60	14.97	15.47
	12H	14.18	14.51	14.70	15.01	15.58	14.62	14.95	15.14	15.45	16.02
12H	4H	13.22	13.68	13.71	14.16	14.64	13.28	13.74	13.77	14.23	14.71
	6H	13.98	13.99	14.14	14.46	15.01	14.27	14.27	14.43	14.74	15.29
	8H	13.69	14.02	14.21	14.52	15.09	14.11	14.43	14.63	14.93	15.51
对应照射距离，改变观察者位置S											
S = 1.0H	0.4/-0.6					0.4/-0.6					
S = 1.5H	1.0/-0.8					0.9/-0.9					
S = 2.0H	2.1/-1.1					1.7/-1.0					
标准表格	BK3					BK3					
更正系数	0.9					1.1					

# 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	1.10	1.08	1.06	1.08	1.06	1.04	1.04	1.02	1.01	1.01	0.99	0.98	0.97	0.96	0.95	0.93
2	1.03	0.99	0.95	1.01	0.97	0.94	0.98	0.95	0.92	0.95	0.92	0.90	0.92	0.90	0.88	0.87
3	0.96	0.91	0.88	0.95	0.90	0.87	0.92	0.89	0.85	0.90	0.87	0.84	0.88	0.85	0.83	0.81
4	0.91	0.85	0.81	0.90	0.85	0.81	0.88	0.83	0.80	0.86	0.82	0.79	0.84	0.81	0.78	0.77
5	0.86	0.80	0.76	0.85	0.80	0.76	0.83	0.79	0.75	0.82	0.78	0.75	0.80	0.77	0.74	0.73
6	0.82	0.76	0.72	0.81	0.76	0.72	0.79	0.75	0.71	0.78	0.74	0.71	0.77	0.73	0.70	0.69
7	0.78	0.72	0.68	0.77	0.72	0.68	0.76	0.71	0.68	0.75	0.71	0.67	0.74	0.70	0.67	0.66
8	0.74	0.69	0.65	0.74	0.69	0.65	0.73	0.68	0.65	0.72	0.68	0.65	0.71	0.67	0.64	0.63
9	0.71	0.66	0.62	0.71	0.66	0.62	0.70	0.65	0.62	0.69	0.65	0.62	0.68	0.64	0.62	0.60
10	0.69	0.63	0.60	0.68	0.63	0.60	0.67	0.63	0.60	0.67	0.62	0.59	0.66	0.62	0.59	0.58



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	14126.62	13891.81	13307.07	12476.00	11468.43	10174.64	8817.92	7289.30	5898.82
30.0	14214.87	14042.98	13521.93	12749.18	11773.85	10513.05	9082.66	7663.78	6166.63
60.0	14190.32	13955.50	13388.41	12584.97	11497.59	10266.72	8857.05	7353.76	5963.28
90.0	14174.20	13997.71	13473.59	12697.77	11716.30	10442.45	9084.96	7601.63	6118.29
120.0	14151.18	13942.45	13399.92	12617.96	11602.73	10322.74	8926.12	7511.08	6049.99
150.0	14130.46	14024.56	13560.30	12836.67	11896.63	10657.32	9265.30	7869.44	6382.27
180.0	14126.62	14009.98	13529.61	12794.46	11819.89	10573.67	9198.54	7789.63	6318.57
210.0	14214.87	14027.63	13482.80	12725.40	11649.54	10335.02	8911.54	7476.54	5990.14
240.0	14190.32	14070.61	13579.49	12854.32	11837.54	10562.16	9220.02	7758.94	6265.63
270.0	14174.20	13990.80	13443.66	12645.59	11616.54	10307.39	8955.28	7456.59	5971.72
300.0	14151.18	13998.47	13488.94	12713.89	11741.62	10474.68	9066.55	7608.53	6211.14
330.0	14130.46	13881.83	13287.88	12510.53	11430.83	10126.29	8714.32	7211.03	5820.55
360.0	14126.62	13891.81	13307.07	12476.00	11468.43	10174.64	8817.92	7289.30	5898.82
C/γ(°)	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0
0.0	4608.86	3579.81	2705.77	2076.52	1627.60	1309.91	1067.42	884.02	748.19
30.0	4819.89	3744.03	2840.83	2173.21	1691.30	1359.02	1098.88	913.18	767.38
60.0	4667.18	3608.20	2734.16	2100.31	1523.47	1334.16	1088.14	901.67	761.54
90.0	4783.82	3710.26	2813.97	2153.26	1699.74	1352.12	1106.56	913.18	768.14
120.0	4750.82	3628.92	2792.48	2146.35	1697.44	1363.70	1112.23	920.85	783.34
150.0	5083.10	3917.45	2978.19	2277.57	1791.06	1419.65	1146.46	951.55	796.54
180.0	4990.25	3822.30	2940.58	2253.02	1771.10	1415.12	1148.45	945.71	799.84
210.0	4688.67	3624.32	2747.21	2138.68	1594.61	1333.47	1086.14	903.89	758.78
240.0	4981.80	3838.41	2902.22	2248.41	1756.52	1392.02	1132.65	945.41	792.70
270.0	4672.55	3556.79	2736.46	2105.68	1586.93	1328.79	1092.59	892.54	757.63
300.0	4888.19	3817.70	2893.01	2217.72	1733.50	1390.49	1128.81	933.90	788.86
330.0	4545.17	3514.58	2666.63	2081.12	1519.79	1299.86	1058.90	882.25	740.98
360.0	4608.86	3579.81	2705.77	2076.52	1627.60	1309.91	1067.42	884.02	748.19
C/γ(°)	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0
0.0	641.53	560.18	484.21	429.73	389.06	342.63	308.56	279.63	255.00
30.0	653.80	566.32	499.56	439.71	391.36	354.76	320.99	293.67	267.97
60.0	659.71	573.46	506.62	447.69	398.42	357.60	325.37	296.59	272.96
90.0	656.11	569.39	501.86	443.54	395.97	356.98	322.53	293.67	269.96
120.0	672.61	584.20	515.06	454.13	405.79	361.20	327.98	298.28	273.80
150.0	678.36	589.34	515.68	452.75	401.34	362.66	327.06	298.51	272.88
180.0	682.20	588.81	516.52	453.14	399.80	355.37	320.23	288.84	263.13
210.0	650.50	566.63	495.88	440.55	388.60	350.61	317.92	290.84	266.36
240.0	678.36	588.58	517.98	457.36	409.01	365.12	332.27	302.88	278.02
270.0	650.58	563.64	497.72	440.40	393.66	351.61	320.61	292.06	268.89
300.0	675.29	590.11	511.84	454.29	402.87	364.35	329.74	300.58	275.95
330.0	636.08	554.97	485.90	430.04	381.85	344.78	312.94	286.54	262.52
360.0	641.53	560.18	484.21	429.73	389.06	342.63	308.56	279.63	255.00
C/γ(°)	54.0	56.0	58.0	60.0	62.0	64.0	66.0	68.0	70.0
0.0	233.21	213.87	196.22	181.56	167.52	155.32	143.73	130.84	118.41
30.0	247.40	228.14	211.72	196.37	182.25	170.05	158.31	147.26	135.75
60.0	250.93	231.29	213.71	198.44	183.63	169.59	156.70	143.81	126.92
90.0	247.71	227.68	210.72	194.53	179.72	164.14	150.25	134.52	119.94
120.0	251.32	231.29	214.17	197.98	183.02	169.05	156.08	143.27	126.92
150.0	250.16	231.06	213.25	197.45	183.02	170.74	158.62	147.72	136.36
180.0	239.65	219.24	201.90	185.55	170.89	157.77	146.19	132.91	120.78
210.0	245.33	226.91	209.11	194.99	180.79	168.90	157.47	146.95	133.83
240.0	255.92	236.12	218.09	203.05	188.24	174.81	161.46	148.49	133.75
270.0	247.63	227.83	211.34	195.99	180.87	166.21	152.63	135.52	120.86
300.0	253.92	234.28	216.17	201.21	186.63	172.81	160.46	147.80	133.22
330.0	241.95	223.84	206.50	192.53	178.57	166.75	155.39	144.34	132.83
360.0	233.21	213.87	196.22	181.56	167.52	155.32	143.73	130.84	118.41

# 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	105.97	94.31	79.04	63.69	49.34	34.38	18.80	4.45	0.92
30.0	121.86	107.43	92.32	75.20	52.49	35.22	17.27	4.53	1.07
60.0	110.50	94.39	77.97	58.32	38.68	21.72	4.99	1.69	1.07
90.0	104.21	89.17	69.45	51.72	32.61	15.73	2.00	1.61	1.15
120.0	111.27	94.39	77.66	56.86	38.75	20.57	4.60	1.53	1.00
150.0	121.94	107.74	93.08	75.13	53.26	35.38	17.34	4.45	1.00
180.0	108.97	96.92	81.96	65.30	51.87	36.68	20.41	6.83	0.92
210.0	120.25	105.36	90.24	71.29	49.42	32.61	15.73	2.99	1.07
240.0	115.95	98.91	82.11	64.00	43.28	25.02	8.44	1.76	1.30
270.0	105.21	89.94	72.06	52.57	34.46	17.42	2.69	1.69	1.38
300.0	115.34	99.14	82.34	65.69	44.05	26.17	9.13	1.84	1.30
330.0	118.71	103.98	89.71	72.06	50.42	33.15	16.58	3.61	1.07
360.0	105.97	94.31	79.04	63.69	49.34	34.38	18.80	4.45	0.92

C/γ(°)	90.0
0.0	0.23
30.0	0.31
60.0	0.31
90.0	0.23
120.0	0.23
150.0	0.31
180.0	0.38
210.0	0.31
240.0	0.38
270.0	0.38
300.0	0.46
330.0	0.38
360.0	0.23