

浙大三色

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## ROLED

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灯具名称: 投光灯

灯具描述: F2032A-108-UN(60-OL-108WN-AA, CT)

报告编号:

电压(V): 219.0000

测试编号: 20210423006

电流(A): 0.5460

光源规格型号: OL

功率(W): 118.0000

每个光源光通量(lm)

功率因数: 0.9870

光源数量: 108

镇流器型号:

发光面长度(mm): 390

发光面宽度(mm): 240

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): 10389.33

灯具效能(lm/w): 88.05

中心光强(cd): 9889.942

最大光强(cd): 10098.670

最大光强角度:  $C=30.0$   $\gamma=0.0$

半峰边角(50%Imax): [C0/180]Total=54.2

[C90/270]Total=54.2

光束扩散角(10%Imax): [C0/180]Total=100.7

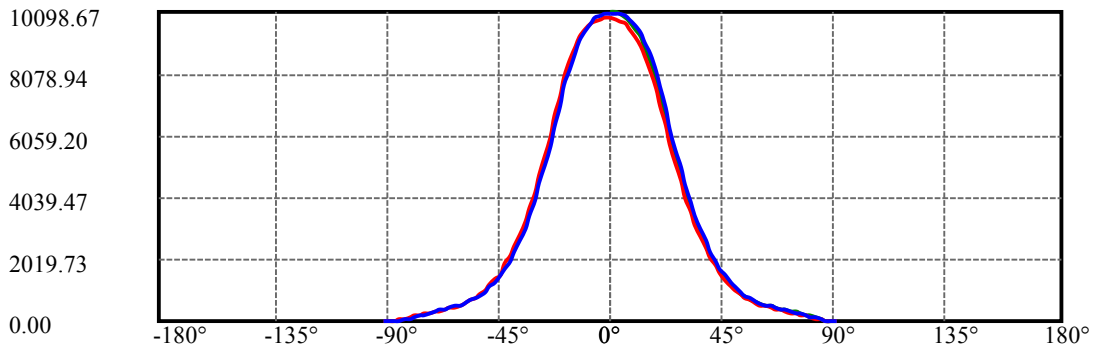
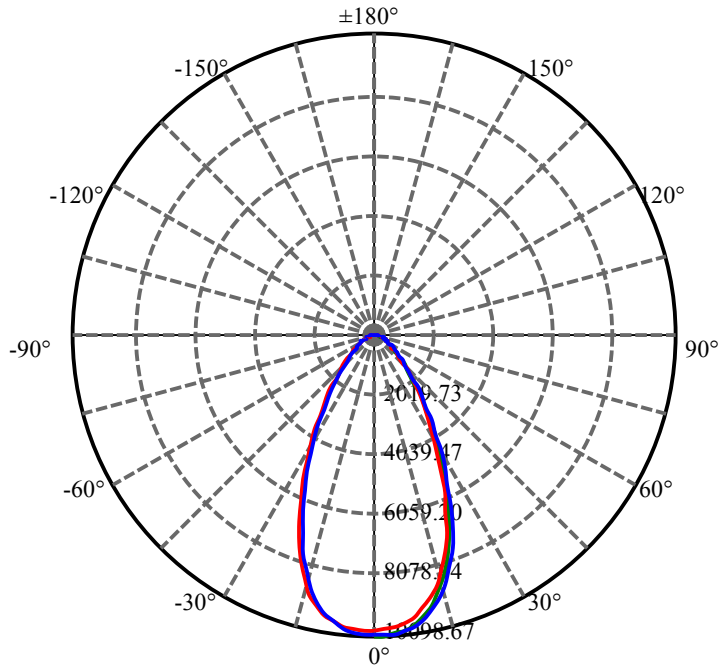
[C90/270]Total=100.8

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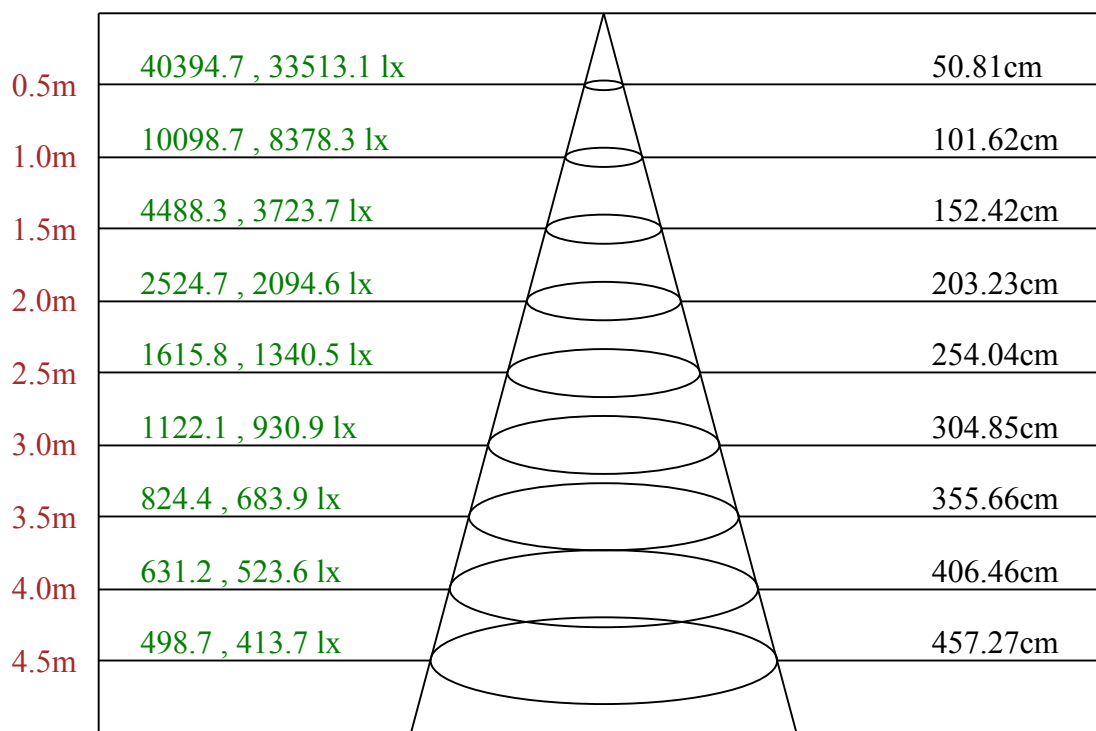
测试设备: GMS1800  
环境温度(°C): 25.0

测试日期: 2021/4/23  
环境湿度(%): 60.0%

测试人员: anpeilou  
测试距离(m): 8.76

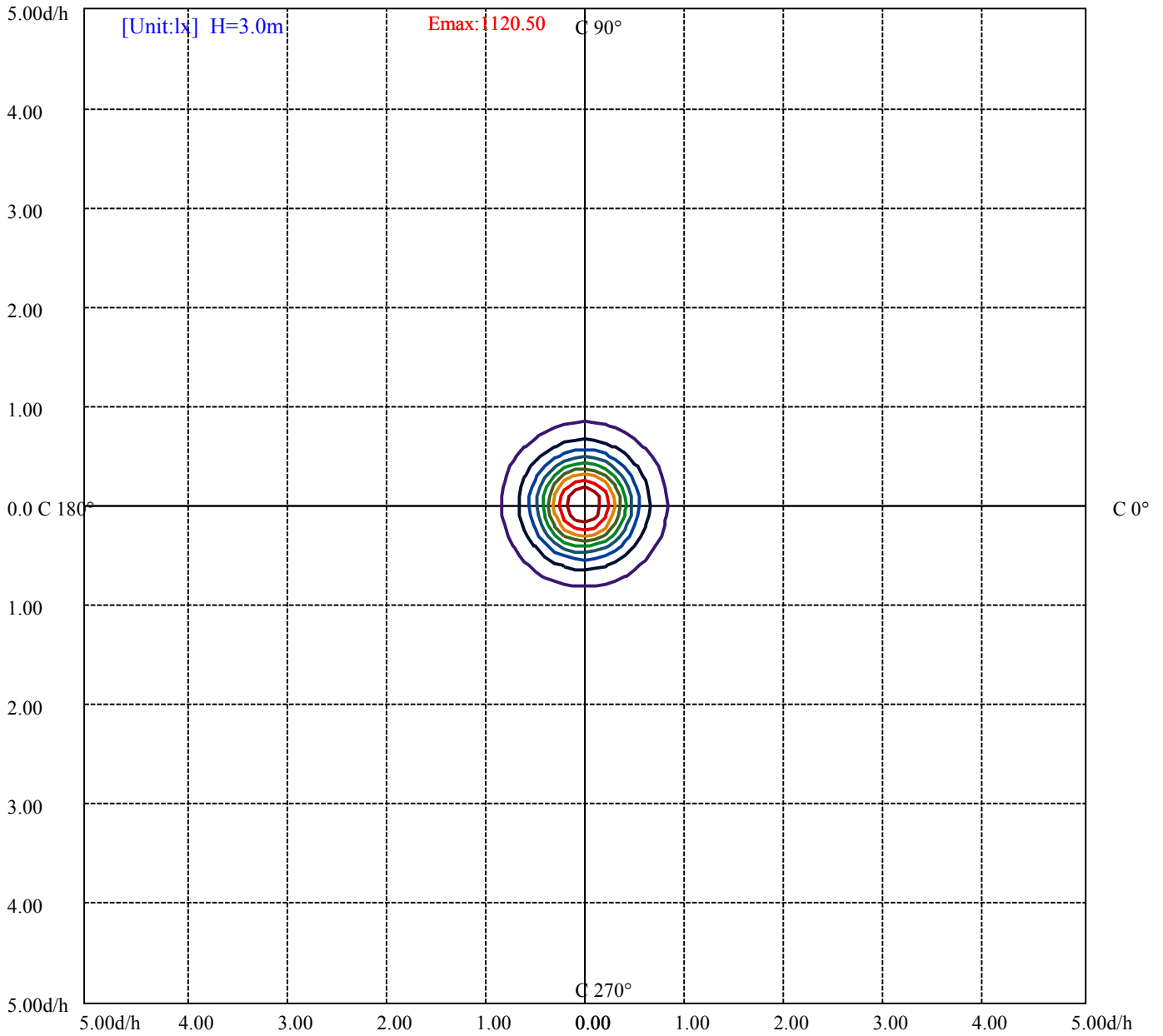


C30(Max): ———  
C0/C180: ———  
C90/C270: ———



Max , Ave    C30面光束角53.87

ROLED 投光灯  
平面等照度曲线



- (10%Emax) 112.05
- (20%Emax) 224.0989
- (30%Emax) 336.1489
- (40%Emax) 448.1989
- (50%Emax) 560.2478
- (60%Emax) 672.2978
- (70%Emax) 784.3478
- (80%Emax) 896.3967
- (90%Emax) 1008.447

测试设备: GMS1800  
环境温度(°C): 25.0

测试日期: 2021/4/23  
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

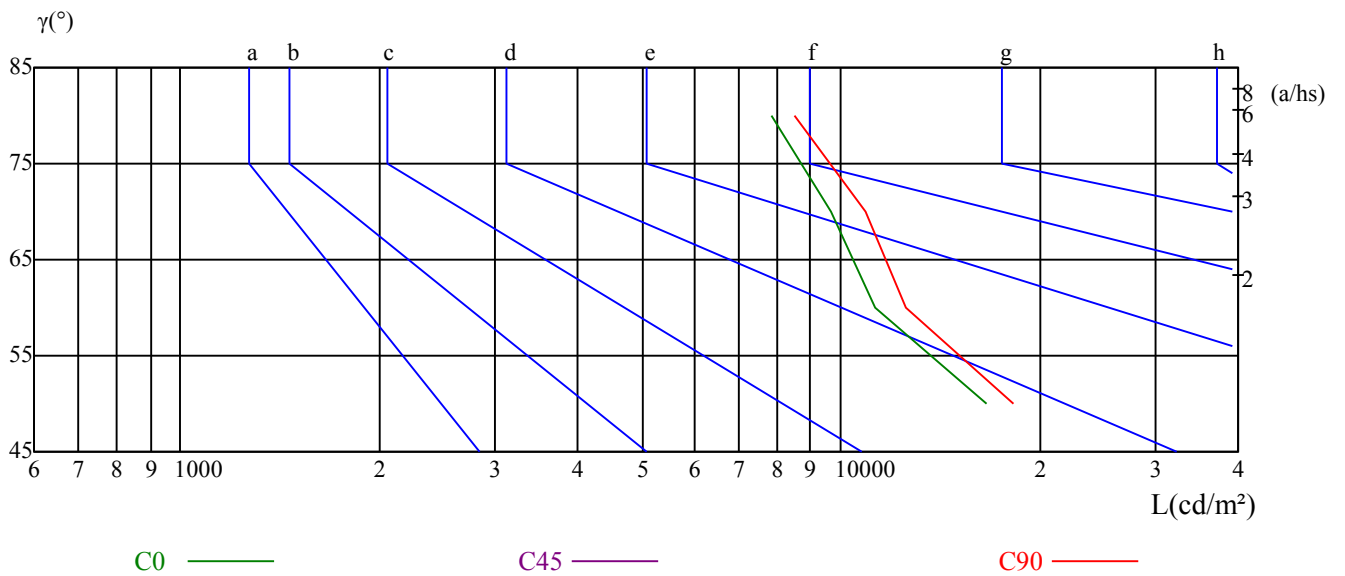
$\gamma$	45	50	55	60	65	70	75	80	85
C0	0	16581	0	11297	0	9682	0	7875	0
C45	0	0	0	0	0	0	0	0	0
C90	0	18316	0	12527	0	10907	0	8503	0

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

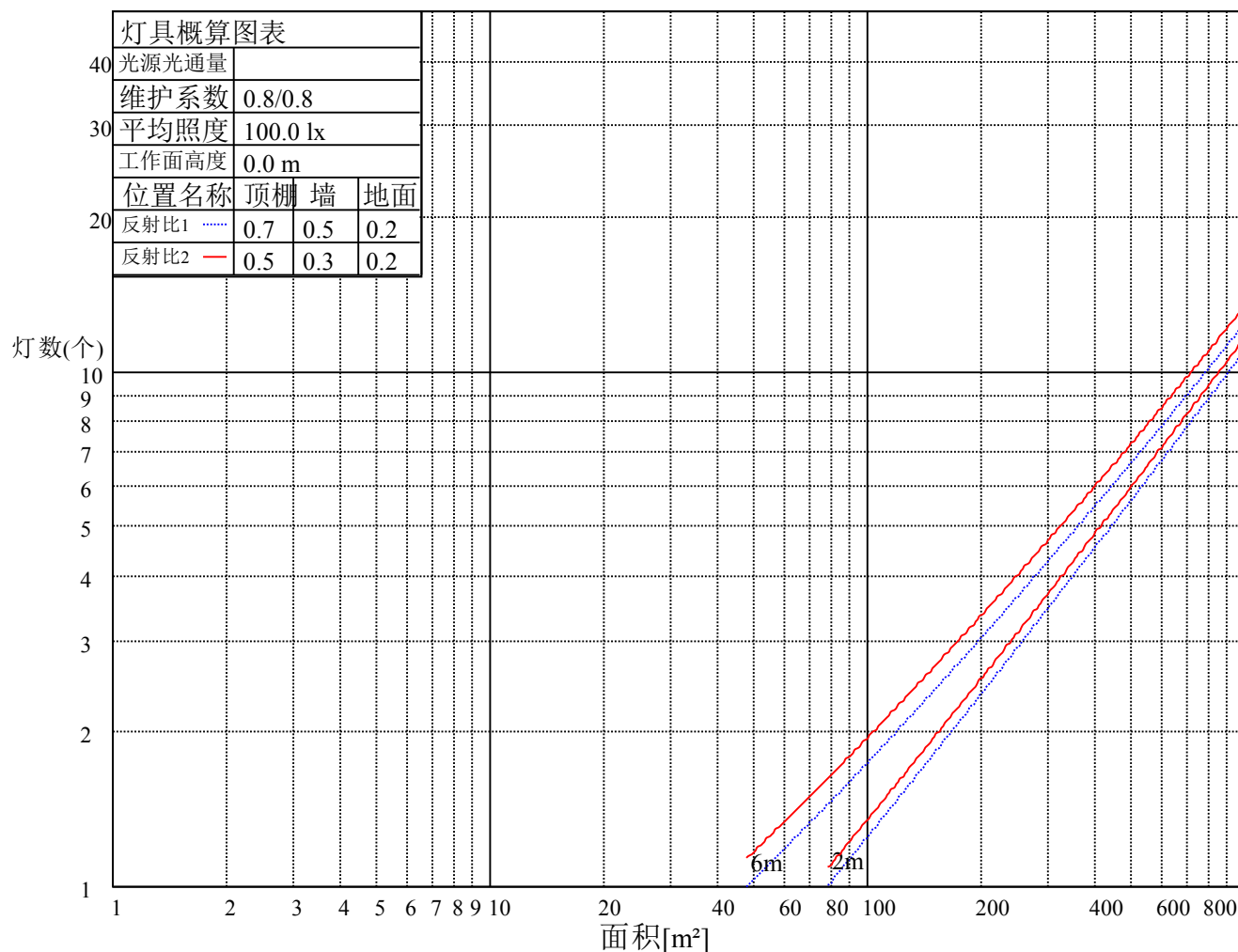
亮度限制曲线



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	10.16	11.39	10.52	11.70	12.02	9.92	11.15	10.29	11.46	11.78
	3H	11.63	12.72	12.01	13.05	13.42	11.37	12.47	11.75	12.80	13.16
	4H	12.16	13.18	12.56	13.53	13.92	11.95	12.97	12.35	13.32	13.70
	6H	12.47	13.41	12.89	13.78	14.18	12.34	13.28	12.76	13.65	14.05
	8H	12.53	13.41	12.96	13.80	14.21	12.44	13.33	12.88	13.72	14.13
	12H	12.55	13.39	12.98	13.78	14.21	12.53	13.37	12.96	13.76	14.19
4H	2H	10.63	11.65	11.03	12.00	12.38	10.44	11.46	10.84	11.81	12.19
	3H	12.36	13.20	12.78	13.61	14.01	12.18	13.02	12.60	13.42	13.83
	4H	13.02	13.77	13.46	14.19	14.64	12.90	13.65	13.34	14.07	14.51
	6H	13.37	14.01	13.83	14.46	14.93	13.32	13.97	13.79	14.41	14.88
	8H	13.44	14.04	13.91	14.49	14.96	13.45	14.06	13.93	14.50	14.98
	12H	13.47	13.99	13.95	14.48	14.95	13.54	14.07	14.03	14.55	15.03
8H	4H	13.27	13.87	13.74	14.32	14.79	13.17	13.77	13.64	14.22	14.69
	6H	13.72	14.21	14.23	14.71	15.19	13.72	14.21	14.23	14.71	15.19
	8H	13.84	14.27	14.36	14.79	15.28	13.91	14.35	14.44	14.87	15.36
	12H	14.39	14.77	14.91	15.27	15.84	14.50	14.87	15.01	15.37	15.94
12H	4H	13.28	13.80	13.76	14.29	14.76	13.16	13.69	13.65	14.18	14.65
	6H	14.26	14.19	14.28	14.65	15.20	14.26	14.18	14.28	14.65	15.20
	8H	13.90	14.28	14.42	14.78	15.35	13.98	14.36	14.49	14.85	15.43
对应照射距离，改变观察者位置S											
S = 1.0H	0.7/-1.0					0.7/-1.0					
S = 1.5H	1.4/-1.3					1.3/-1.4					
S = 2.0H	3.0/-1.5					2.7/-1.5					
标准表格	BK3					BK3					
更正系数	4.8					4.5					

# 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	1.09	1.06	1.03	1.06	1.04	1.01	1.02	1.00	0.98	0.99	0.97	0.95	0.95	0.94	0.92	0.90
2	0.99	0.94	0.90	0.97	0.93	0.89	0.94	0.90	0.87	0.91	0.88	0.85	0.88	0.85	0.83	0.81
3	0.91	0.85	0.80	0.89	0.84	0.79	0.87	0.82	0.78	0.84	0.80	0.77	0.82	0.78	0.75	0.74
4	0.84	0.77	0.72	0.82	0.76	0.71	0.80	0.75	0.71	0.78	0.73	0.70	0.76	0.72	0.69	0.67
5	0.77	0.70	0.65	0.76	0.70	0.65	0.74	0.69	0.64	0.73	0.68	0.64	0.71	0.67	0.63	0.62
6	0.72	0.65	0.60	0.71	0.64	0.60	0.69	0.63	0.59	0.68	0.63	0.59	0.66	0.62	0.58	0.57
7	0.67	0.60	0.55	0.66	0.60	0.55	0.65	0.59	0.55	0.64	0.58	0.54	0.62	0.58	0.54	0.52
8	0.63	0.56	0.51	0.62	0.56	0.51	0.61	0.55	0.51	0.60	0.54	0.51	0.59	0.54	0.50	0.49
9	0.59	0.52	0.48	0.58	0.52	0.48	0.57	0.51	0.47	0.56	0.51	0.47	0.55	0.51	0.47	0.46
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)

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	9889.94	9854.64	9793.25	9693.49	9526.97	9293.69	8996.72	8643.72	8171.02
30.0	10098.67	10074.88	10025.77	9935.98	9781.74	9559.97	9270.67	8901.56	8454.18
60.0	10070.28	10053.39	10008.89	9935.22	9782.51	9557.67	9270.67	8919.21	8448.04
90.0	10061.83	10061.07	10030.37	9969.75	9842.36	9659.73	9409.56	9107.99	8689.77
120.0	10054.93	10058.76	10037.28	9982.03	9860.01	9676.61	9425.68	9089.57	8649.86
150.0	9960.54	9976.66	9959.77	9921.40	9822.41	9648.99	9405.73	9098.78	8674.42
180.0	9889.94	9896.08	9875.36	9813.97	9701.17	9523.90	9278.34	8956.81	8516.34
210.0	10098.67	10090.99	10061.07	9983.56	9833.16	9619.83	9314.41	8946.07	8449.58
240.0	10070.28	10062.60	10028.84	9946.73	9797.09	9577.62	9274.51	8909.24	8412.74
270.0	10061.83	10037.28	9982.79	9885.34	9710.38	9477.09	9151.73	8761.90	8243.15
300.0	10054.93	10026.53	9971.28	9866.15	9691.96	9457.14	9140.98	8745.02	8259.27
330.0	9960.54	9923.71	9857.71	9751.81	9552.30	9300.60	8976.76	8634.51	8126.51
360.0	9889.94	9854.64	9793.25	9693.49	9526.97	9293.69	8996.72	8643.72	8171.02
C/γ(°)	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0
0.0	7620.04	7055.25	6399.15	5772.97	5137.58	4582.00	4043.30	3559.86	3131.66
30.0	7903.97	7293.91	6633.97	6004.72	5368.56	4796.87	4232.08	3711.03	3241.40
60.0	7912.41	7337.65	6686.91	6060.74	5384.68	4818.35	4261.24	3767.05	3295.88
90.0	8179.46	7621.58	6963.17	6278.67	5607.22	5018.64	4453.08	3906.71	3430.94
120.0	8158.74	7561.72	6897.94	6256.42	5585.73	4967.99	4384.79	3875.25	3390.27
150.0	8186.37	7636.93	6982.35	6300.92	5629.47	5029.38	4438.50	3922.06	3428.64
180.0	7985.31	7367.58	6723.75	6043.09	5380.84	4797.63	4231.31	3709.50	3241.40
210.0	7910.88	7269.35	6565.67	5919.54	5266.50	4667.18	4080.14	3589.78	3124.76
240.0	7841.05	7213.33	6554.16	5867.36	5261.90	4648.76	4080.91	3582.11	3142.40
270.0	7689.11	7038.37	6336.22	5702.37	5077.73	4488.38	3943.55	3460.87	3008.11
300.0	7678.36	7057.56	6374.59	5744.58	5132.98	4564.35	4013.38	3528.39	3077.95
330.0	7553.28	6960.87	6290.95	5652.49	5073.12	4481.48	3948.15	3455.49	3027.30
360.0	7620.04	7055.25	6399.15	5772.97	5137.58	4582.00	4043.30	3559.86	3131.66
C/γ(°)	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0
0.0	2732.63	2398.82	2058.10	1792.59	1550.10	1342.91	1154.90	997.59	864.83
30.0	2848.50	2477.09	2145.58	1872.40	1618.40	1395.86	1213.22	1049.00	907.81
60.0	2880.73	2525.43	2190.86	1900.02	1642.18	1437.60	1243.76	1085.38	943.03
90.0	2995.84	2606.01	2256.09	1966.78	1698.20	1474.90	1274.61	1101.95	955.38
120.0	2981.26	2590.66	2243.04	1941.46	1689.76	1466.15	1266.71	1103.72	956.76
150.0	2992.00	2620.59	2272.97	1966.78	1698.20	1474.13	1270.77	1104.25	946.94
180.0	2845.43	2471.72	2154.79	1862.42	1530.22	1386.03	1199.49	1029.74	888.01
210.0	2724.18	2379.63	2054.27	1790.29	1528.08	1336.62	1155.44	1004.50	870.05
240.0	2734.16	2380.40	2071.92	1791.06	1551.63	1335.23	1163.34	1009.87	876.34
270.0	2620.59	2287.55	1973.69	1718.92	1492.16	1284.97	1113.69	971.50	844.88
300.0	2683.51	2350.47	2029.71	1766.50	1529.38	1316.05	1138.79	996.05	865.60
330.0	2639.77	2308.27	1993.64	1727.36	1496.61	1297.94	1122.36	969.66	847.57
360.0	2732.63	2398.82	2058.10	1792.59	1550.10	1342.91	1154.90	997.59	864.83
C/γ(°)	54.0	56.0	58.0	60.0	62.0	64.0	66.0	68.0	70.0
0.0	752.80	663.78	586.28	528.72	476.54	430.50	389.06	345.63	309.94
30.0	791.16	719.80	643.83	584.74	532.56	486.52	445.08	406.71	369.65
60.0	826.77	732.31	655.49	596.33	542.53	497.18	453.37	409.47	367.19
90.0	837.97	737.45	654.57	586.28	529.49	477.31	432.03	389.06	349.16
120.0	836.13	737.83	662.40	598.40	546.91	498.18	454.44	410.93	368.95
150.0	828.00	728.24	649.97	583.97	530.26	486.52	443.54	403.64	366.58
180.0	769.75	659.64	582.05	513.14	461.65	415.53	375.71	337.72	303.19
210.0	763.31	679.28	607.69	552.74	500.41	458.12	417.61	379.54	340.48
240.0	775.82	692.17	619.27	559.42	511.84	462.73	418.22	389.06	336.49
270.0	743.28	659.71	587.73	528.03	473.85	427.43	383.92	345.78	305.26
300.0	762.77	684.50	613.90	557.11	505.70	461.19	416.69	388.29	336.42
330.0	745.20	664.55	592.72	540.62	492.58	451.60	411.31	371.49	335.57
360.0	752.80	663.78	586.28	528.72	476.54	430.50	389.06	345.63	309.94

# 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	276.95	240.34	204.51	165.75	128.00	90.17	53.49	19.11	2.99
30.0	329.13	290.76	247.02	202.43	158.85	113.57	64.92	27.70	4.68
60.0	326.44	285.23	236.12	189.77	142.12	97.61	54.71	13.58	5.14
90.0	309.33	265.97	220.85	183.02	138.20	96.46	52.80	9.29	5.60
120.0	327.82	285.77	239.57	190.08	143.04	99.22	56.63	15.88	5.29
150.0	331.81	294.98	255.15	208.34	161.00	116.64	70.75	31.46	5.45
180.0	270.35	234.05	199.59	163.45	129.61	91.85	56.40	23.40	3.38
210.0	302.81	262.75	215.17	172.97	129.15	85.41	43.97	11.97	3.38
240.0	297.97	249.93	202.05	157.08	114.03	67.84	25.71	5.76	3.61
270.0	259.99	216.02	176.96	134.29	91.70	50.95	8.59	5.22	3.15
300.0	295.36	251.39	199.44	154.01	108.58	65.07	23.87	5.45	3.38
330.0	298.97	256.84	210.18	170.43	126.54	82.49	41.21	10.13	3.07
360.0	276.95	240.34	204.51	165.75	128.00	90.17	53.49	19.11	2.99

C/γ(°)	90.0
0.0	1.00
30.0	2.07
60.0	29.93
90.0	3.15
120.0	2.92
150.0	2.30
180.0	1.61
210.0	1.07
240.0	1.07
270.0	0.92
300.0	1.00
330.0	1.00
360.0	1.00