

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

报告编号:

电压(V): 219.4000

测试编号: 20210421001

电流(A): 0.2610

光源规格型号: OL

功率(W): 55.8000

每个光源光通量(lm)

功率因数: 0.9720

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): 5190.14

灯具效能(lm/w): 93.01

中心光强(cd): 22944.540

最大光强(cd): 23489.380

最大光强角度:  $C=30.0$   $\gamma=0.0$

半峰边角(50%Imax): [C0/180]Total=20.8

[C90/270]Total=20.5

光束扩散角(10%Imax): [C0/180]Total=42.5

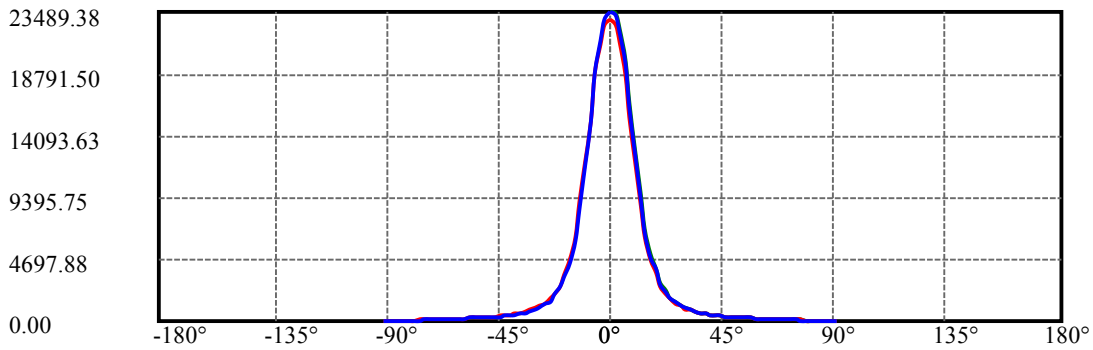
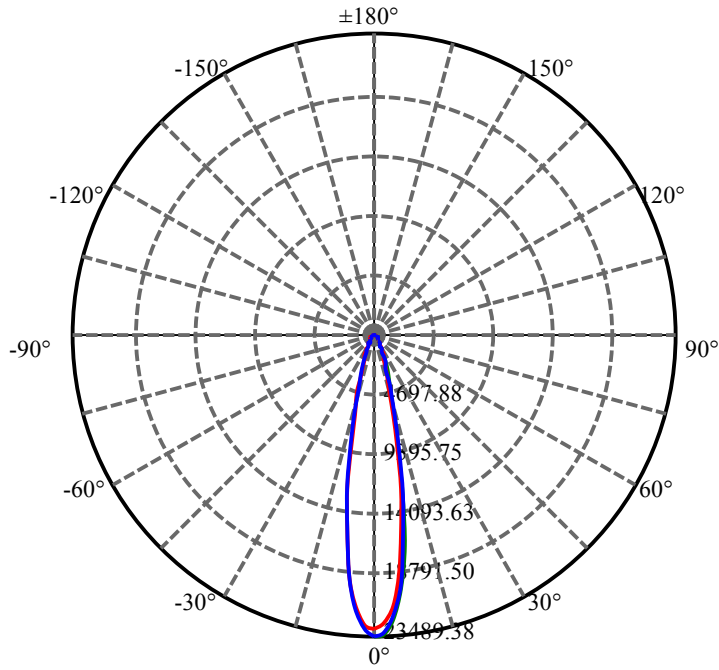
[C90/270]Total=42.4

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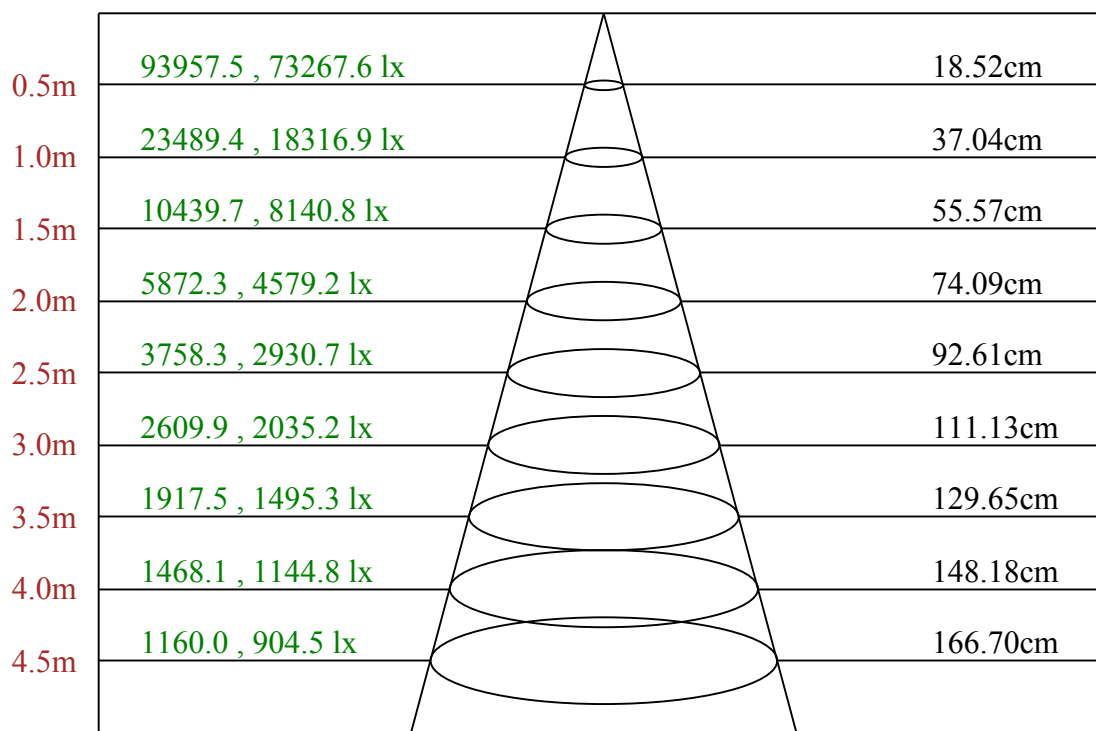
测试设备: GMS1800  
环境温度(°C): 25.0

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

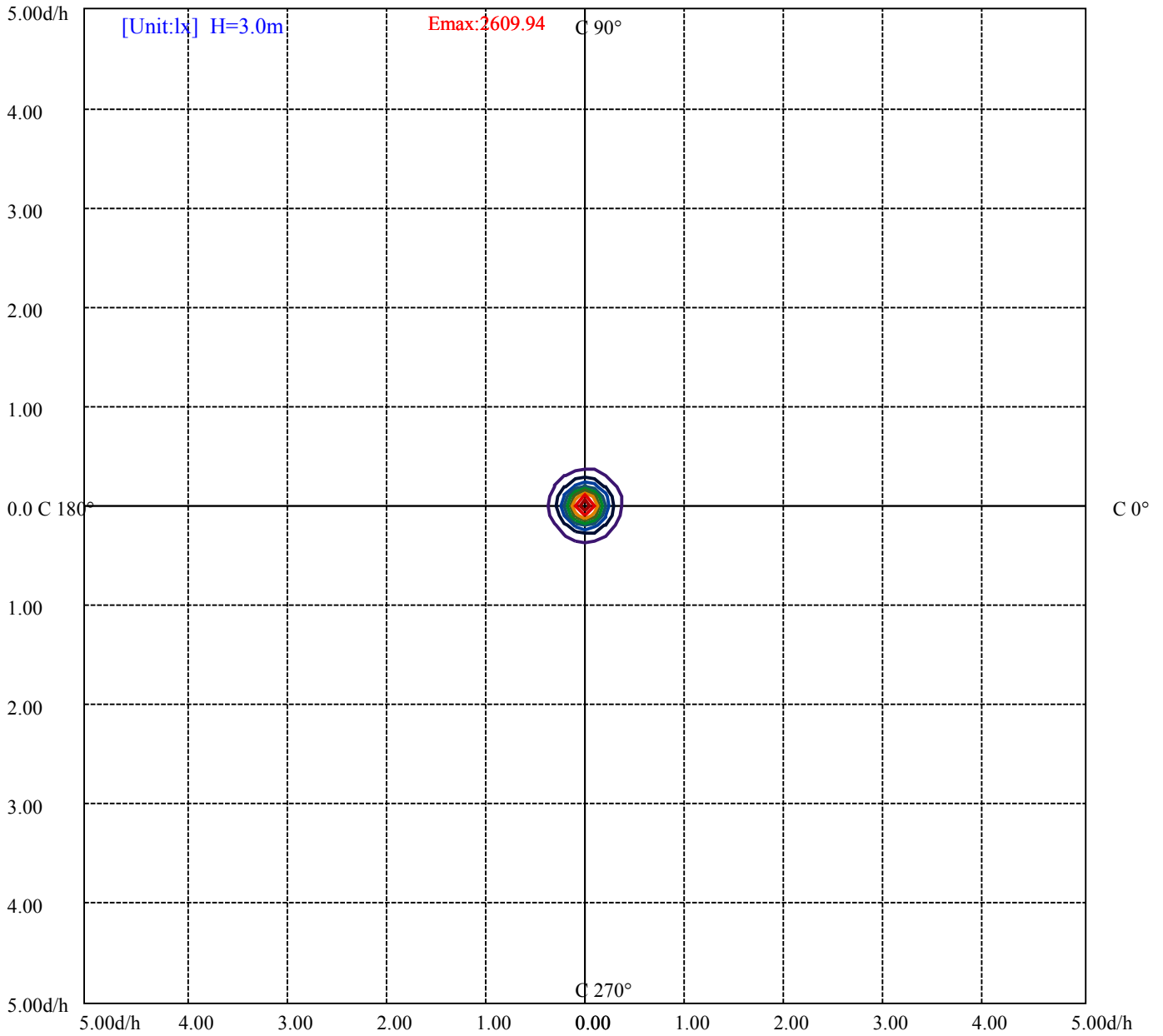


C30(Max): ——  
C0/C180: ——  
C90/C270: ——



Max , Ave    C30面光束角20.99

ROLED 投光灯  
平面等照度曲线



- (10%Emax) 260.9933
- (20%Emax) 521.9856
- (30%Emax) 782.9789
- (40%Emax) 1043.972
- (50%Emax) 1304.967
- (60%Emax) 1565.956
- (70%Emax) 1826.956
- (80%Emax) 2087.944
- (90%Emax) 2348.933

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

# ROLED 投光灯

## 灯具的亮度限制曲线(灯具无发光侧边)

亮度值表

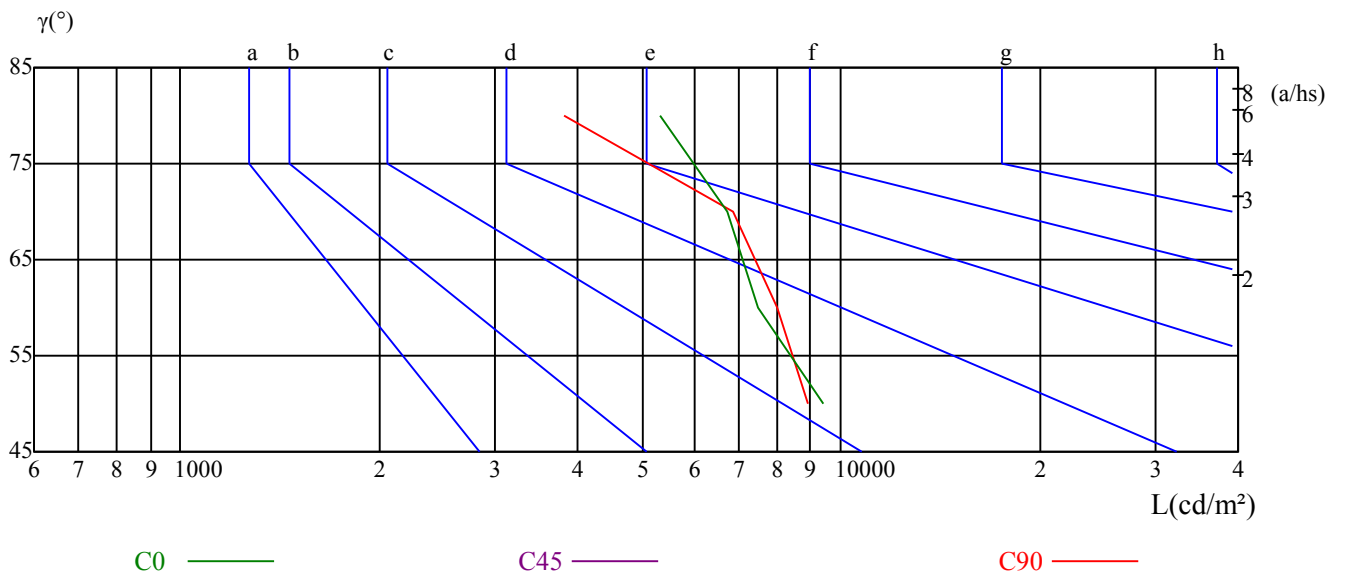
$\gamma$	45	50	55	60	65	70	75	80	85
C0	0	9389	0	7488	0	6745	0	5330	0
C45	0	0	0	0	0	0	0	0	0
C90	0	8933	0	7993	0	6881	0	3821	0

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

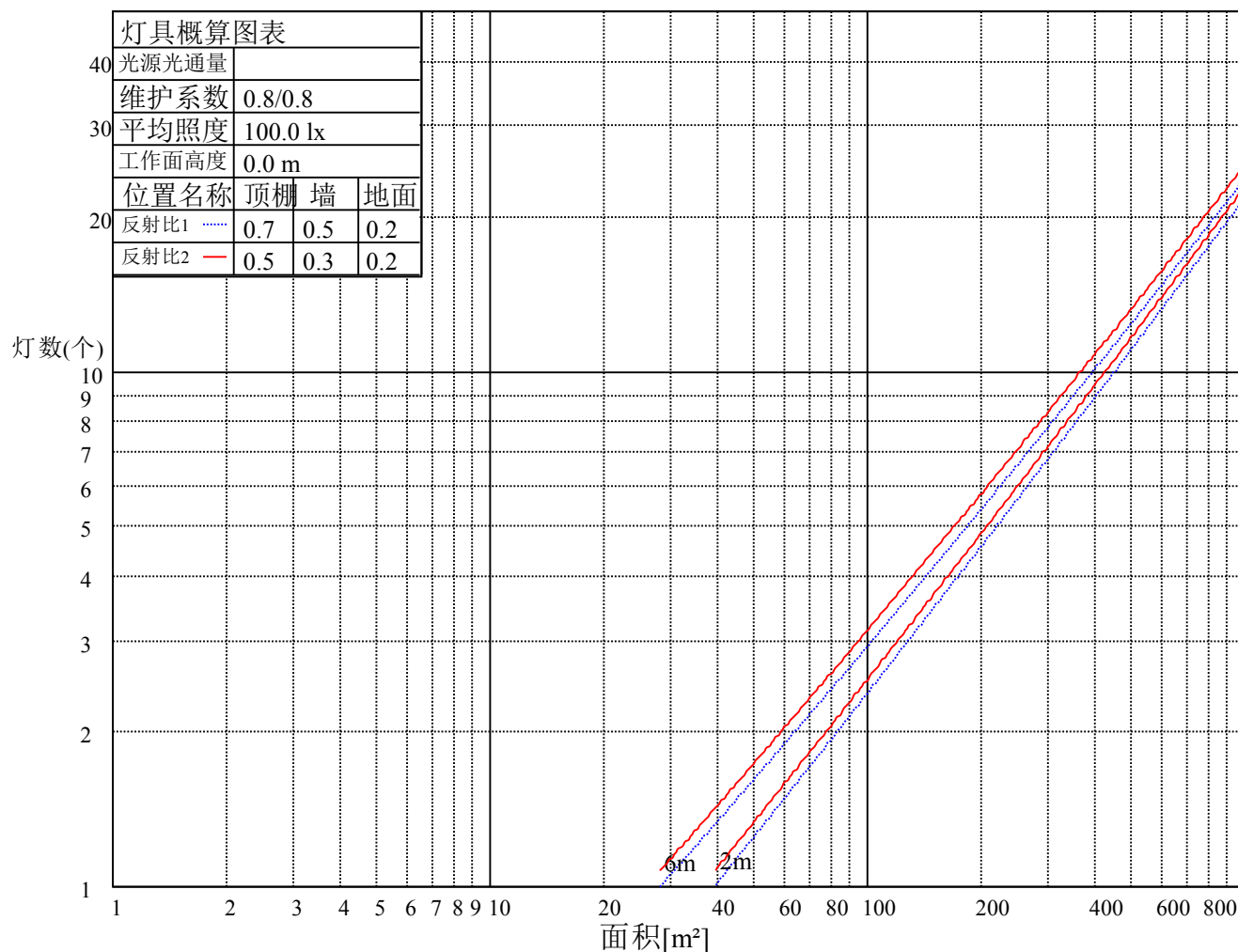
亮度限制曲线



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	9.71	10.80	10.07	11.11	11.43	9.62	10.72	9.99	11.03	11.34
	3H	11.38	12.35	11.77	12.68	13.05	11.31	12.28	11.70	12.61	12.98
	4H	11.91	12.81	12.31	13.16	13.55	11.94	12.84	12.35	13.19	13.58
	6H	12.13	12.96	12.55	13.33	13.73	12.34	13.16	12.76	13.54	13.93
	8H	12.14	12.92	12.58	13.31	13.72	12.43	13.20	12.86	13.59	14.00
	12H	12.12	12.86	12.55	13.24	13.67	12.49	13.23	12.92	13.61	14.05
4H	2H	10.29	11.19	10.70	11.54	11.93	10.23	11.13	10.63	11.48	11.87
	3H	12.19	12.92	12.60	13.33	13.74	12.19	12.93	12.60	13.33	13.74
	4H	12.81	13.47	13.25	13.89	14.34	12.94	13.60	13.38	14.02	14.47
	6H	13.06	13.63	13.53	14.08	14.55	13.35	13.91	13.82	14.36	14.83
	8H	13.08	13.61	13.55	14.06	14.53	13.46	13.98	13.93	14.43	14.91
	12H	13.05	13.51	13.54	14.00	14.47	13.51	13.97	14.00	14.46	14.94
8H	4H	13.05	13.58	13.53	14.03	14.50	13.17	13.69	13.64	14.14	14.62
	6H	13.39	13.81	13.89	14.31	14.79	13.69	14.11	14.19	14.61	15.09
	8H	13.43	13.80	13.96	14.32	14.82	13.85	14.22	14.37	14.74	15.23
	12H	14.01	14.33	14.53	14.83	15.41	14.43	14.75	14.95	15.25	15.82
12H	4H	13.04	13.50	13.53	13.99	14.47	13.15	13.60	13.64	14.09	14.57
	6H	13.76	13.77	13.93	14.24	14.79	14.05	14.06	14.22	14.53	15.07
	8H	13.47	13.79	13.99	14.29	14.87	13.87	14.20	14.39	14.69	15.27
对应照射距离，改变观察者位置S											
S = 1.0H	0.3/-0.5					0.3/-0.6					
S = 1.5H	1.0/-0.8					0.9/-0.9					
S = 2.0H	1.9/-1.0					1.7/-1.0					
标准表格	BK3					BK3					
更正系数	0.8					1.0					

# 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	1.09	1.06	1.09	1.07	1.05	1.05	1.03	1.01	1.01	1.00	0.98	0.98	0.97	0.96	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	0.89	0.96	0.92	0.89	0.94	0.90	0.87	0.91	0.88	0.86	0.89	0.87	0.85	0.83
4	0.93	0.88	0.84	0.91	0.87	0.83	0.89	0.85	0.82	0.87	0.84	0.81	0.86	0.83	0.80	0.79
5	0.88	0.83	0.79	0.87	0.82	0.79	0.85	0.81	0.78	0.84	0.80	0.77	0.82	0.79	0.77	0.75
6	0.84	0.79	0.75	0.83	0.79	0.75	0.82	0.78	0.74	0.81	0.77	0.74	0.79	0.76	0.73	0.72
7	0.81	0.76	0.72	0.80	0.75	0.72	0.79	0.75	0.71	0.78	0.74	0.71	0.77	0.73	0.71	0.69
8	0.78	0.73	0.69	0.77	0.72	0.69	0.76	0.72	0.69	0.75	0.71	0.68	0.74	0.71	0.68	0.67
9	0.75	0.70	0.67	0.75	0.70	0.67	0.74	0.69	0.66	0.73	0.69	0.66	0.72	0.69	0.66	0.65
10	0.72	0.68	0.64	0.72	0.67	0.64	0.71	0.67	0.64	0.71	0.67	0.64	0.70	0.66	0.64	0.63



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	22944.54	22530.16	21164.23	18708.63	15516.34	12155.24	8809.48	6422.94	4604.26
30.0	23489.38	23351.25	22177.17	19875.04	16667.41	12945.63	9676.61	6960.10	5095.38
60.0	23489.38	23144.06	21716.74	19414.61	15153.37	12607.22	9184.72	6674.64	4804.54
90.0	23443.34	23182.43	21885.56	19483.68	16183.96	12631.01	9223.86	6729.89	4857.49
120.0	23374.27	22913.85	21409.79	19046.27	15302.24	12046.27	8989.81	6429.08	4638.02
150.0	22998.26	22637.59	21386.77	19046.27	15846.31	12201.28	8924.58	6507.35	4704.01
180.0	22944.54	22537.83	21010.75	18762.34	15167.19	12165.21	8975.23	6400.68	4663.34
210.0	23489.38	22791.07	21156.56	18501.44	15173.33	11453.85	8304.54	5894.98	4329.54
240.0	23489.38	22998.26	21517.22	19023.25	15731.21	12239.65	8939.93	6369.22	4627.28
270.0	23443.34	22875.48	21279.34	18839.08	15154.91	11792.27	8428.09	6081.45	4384.02
300.0	23374.27	23021.28	21670.70	19268.81	16022.81	12546.60	9216.19	6614.78	4796.10
330.0	22998.26	22553.18	21049.12	18555.15	15159.51	11693.28	8537.83	6092.97	4497.59
360.0	22944.54	22530.16	21164.23	18708.63	15516.34	12155.24	8809.48	6422.94	4604.26
C/γ(°)	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0
0.0	3606.67	2660.49	2109.52	1682.86	1373.60	1130.34	945.41	807.28	686.80
30.0	3905.94	2911.42	2271.43	1823.29	1473.36	1206.32	1007.56	842.58	720.57
60.0	3633.53	2780.97	2176.28	1754.22	1427.70	1182.68	973.26	824.16	700.23
90.0	3890.60	2839.29	2223.86	1768.03	1432.69	1187.13	982.24	823.39	705.22
120.0	3519.95	2702.70	2117.96	1692.06	1392.33	1141.86	957.15	802.75	682.96
150.0	3890.60	2759.48	2167.84	1733.50	1425.02	1174.85	978.40	831.84	710.59
180.0	3467.00	2648.98	2076.52	1679.79	1371.38	1142.01	954.69	805.21	687.57
210.0	3255.21	2497.04	1978.30	1525.16	1306.30	1061.51	893.53	751.41	646.21
240.0	3412.52	2609.85	2055.03	1632.21	1322.96	1093.51	908.57	765.84	651.50
270.0	3337.32	2559.20	2001.32	1522.47	1318.12	1082.23	901.90	764.38	652.19
300.0	3944.31	2762.55	2118.73	1703.57	1378.21	1133.41	966.13	818.02	701.38
330.0	3398.71	2657.42	2086.50	1675.18	1384.96	1139.09	952.24	802.14	691.41
360.0	3606.67	2660.49	2109.52	1682.86	1373.60	1130.34	945.41	807.28	686.80
C/γ(°)	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0
0.0	600.09	525.65	463.50	418.22	387.52	355.06	324.22	298.74	275.10
30.0	617.74	535.63	469.63	415.15	387.52	338.80	310.17	285.23	263.75
60.0	608.84	530.41	466.10	415.92	372.64	337.19	308.18	285.16	263.98
90.0	606.23	527.19	464.26	413.62	372.64	338.80	309.18	284.24	262.75
120.0	590.11	514.30	455.67	404.79	365.19	331.12	303.04	279.63	260.37
150.0	618.51	540.23	476.54	424.36	387.52	349.23	320.61	294.75	272.19
180.0	600.09	524.73	462.88	414.31	371.87	336.49	306.49	282.16	259.22
210.0	560.18	489.20	434.80	388.68	349.69	318.38	293.98	271.42	252.24
240.0	568.63	498.79	442.01	394.43	357.60	324.91	300.35	278.02	258.15
270.0	569.70	498.18	440.55	395.89	356.22	323.83	297.59	275.56	255.54
300.0	602.39	524.12	462.73	419.75	389.06	352.76	325.37	301.43	279.48
330.0	600.55	529.03	467.26	417.38	374.56	341.33	312.48	287.31	266.74
360.0	600.09	525.65	463.50	418.22	387.52	355.06	324.22	298.74	275.10
C/γ(°)	54.0	56.0	58.0	60.0	62.0	64.0	66.0	68.0	70.0
0.0	255.61	237.81	205.81	185.32	170.05	156.70	143.19	127.92	114.19
30.0	245.02	229.29	214.10	200.52	186.93	173.81	161.07	147.72	133.37
60.0	245.64	230.06	214.87	200.52	186.55	172.81	158.00	142.89	124.93
90.0	244.64	227.53	211.72	197.83	183.56	169.51	153.17	133.98	116.49
120.0	242.34	226.15	211.64	197.37	184.02	169.21	155.55	141.04	123.70
150.0	252.08	234.97	219.16	204.51	191.38	178.18	164.76	151.02	136.67
180.0	240.42	223.23	201.82	183.79	169.28	155.70	142.27	128.08	113.96
210.0	236.20	220.47	206.12	192.69	179.80	166.83	154.55	140.89	125.70
240.0	241.72	226.30	211.26	197.60	184.71	170.74	156.70	142.81	125.01
270.0	238.73	222.23	207.42	193.76	179.49	165.52	149.64	131.37	113.80
300.0	261.14	243.57	227.30	213.25	198.75	183.94	169.28	155.01	136.98
330.0	248.40	231.36	216.48	203.12	189.23	176.11	163.83	149.79	136.21
360.0	255.61	237.81	205.81	185.32	170.05	156.70	143.19	127.92	114.19

# 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	100.53	88.25	74.51	59.32	45.81	32.08	17.50	4.07	0.92
30.0	116.72	102.14	87.40	71.14	50.26	33.76	16.96	4.83	1.00
60.0	106.90	90.86	74.74	56.79	38.68	21.72	6.60	1.61	1.07
90.0	100.60	85.64	67.30	50.26	32.84	17.19	2.07	1.53	1.15
120.0	105.74	89.09	74.82	55.02	37.37	20.11	6.22	1.61	1.07
150.0	120.32	102.29	87.48	71.14	48.73	32.00	16.35	4.45	1.00
180.0	100.37	88.86	75.43	59.93	47.04	33.92	19.41	6.06	0.84
210.0	110.04	95.46	81.19	63.08	44.28	28.55	13.89	2.38	0.92
240.0	106.82	89.55	74.51	56.63	38.91	21.33	6.45	1.69	1.23
270.0	97.30	81.57	64.69	47.58	29.93	14.96	2.00	1.61	1.23
300.0	118.33	95.92	77.43	59.70	38.83	22.71	7.60	1.84	1.30
330.0	119.71	102.14	85.79	65.99	45.74	29.39	14.35	3.15	1.00
360.0	100.53	88.25	74.51	59.32	45.81	32.08	17.50	4.07	0.92
C/γ(°)	90.0								
0.0	0.31								
30.0	0.38								
60.0	0.23								
90.0	0.23								
120.0	0.31								
150.0	0.23								
180.0	0.38								
210.0	0.31								
240.0	0.23								
270.0	0.23								
300.0	0.31								
330.0	0.31								
360.0	0.31								