

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

报告编号:

电压(V): 219.6000

测试编号: 20210420009

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): 5060.98

灯具效能(lm/w): 92.69

中心光强(cd): 37447.950

最大光强(cd): 38246.020

最大光强角度: C=30.0  $\gamma$ =0.0

半峰边角(50%Imax): [C0/180]Total=14.9

[C90/270]Total=14.7

光束扩散角(10%Imax): [C0/180]Total=33.1

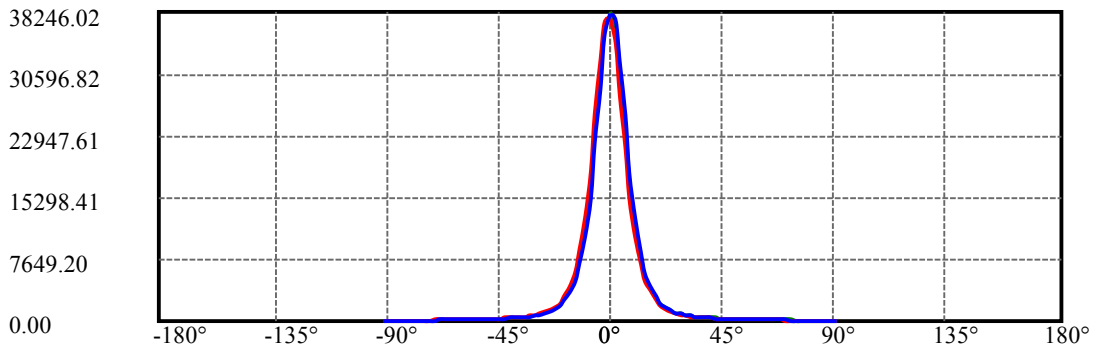
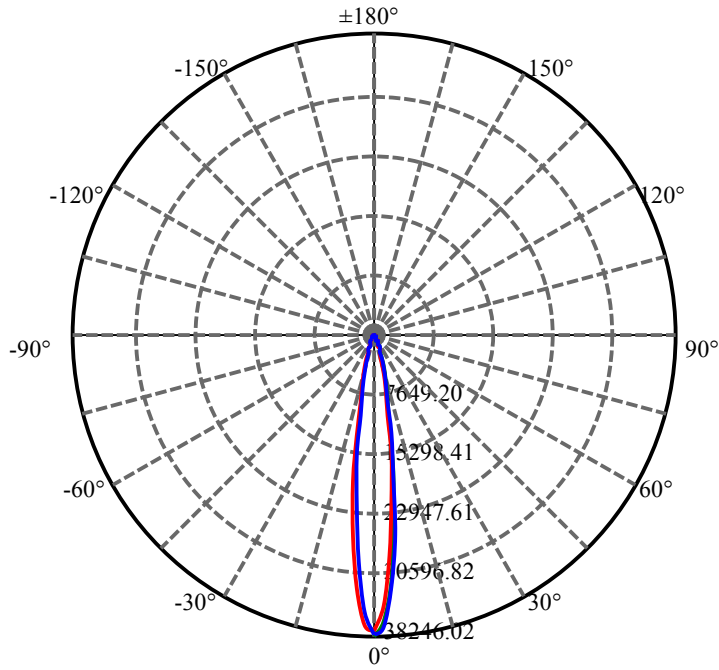
[C90/270]Total=32.5

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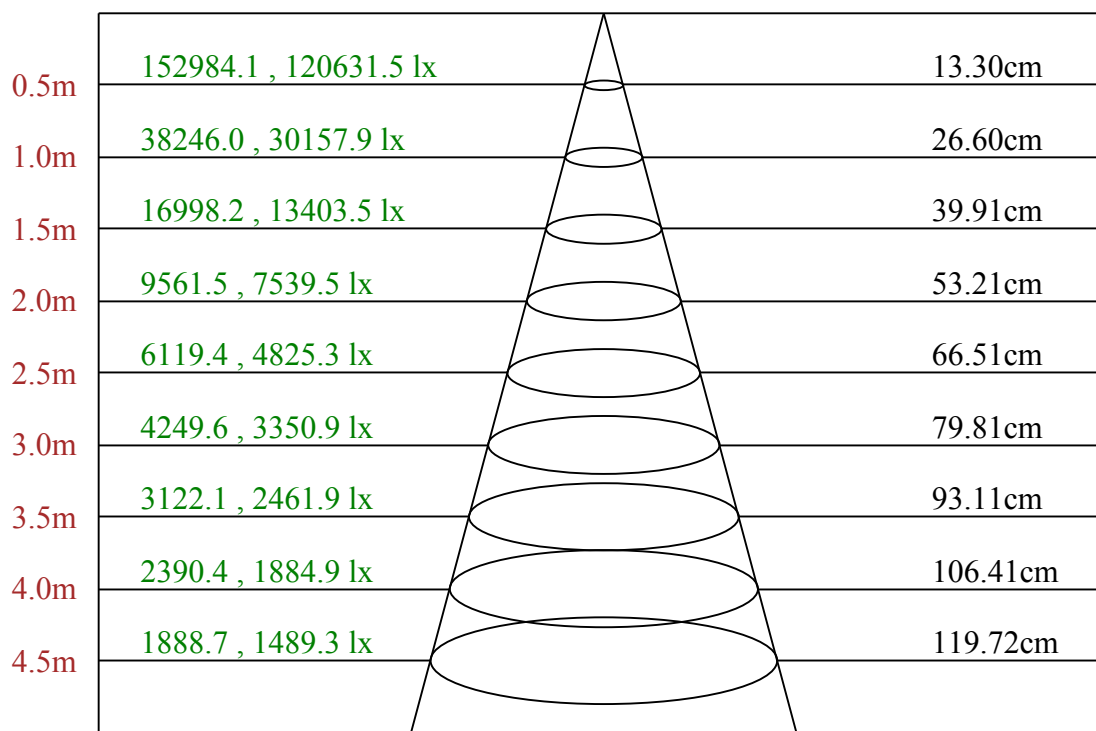
测试设备: GMS1800  
环境温度(°C): 25.0

测试日期: 2021/4/20  
环境湿度(%): 60.0%

测试人员: anpeilou  
测试距离(m): 8.76

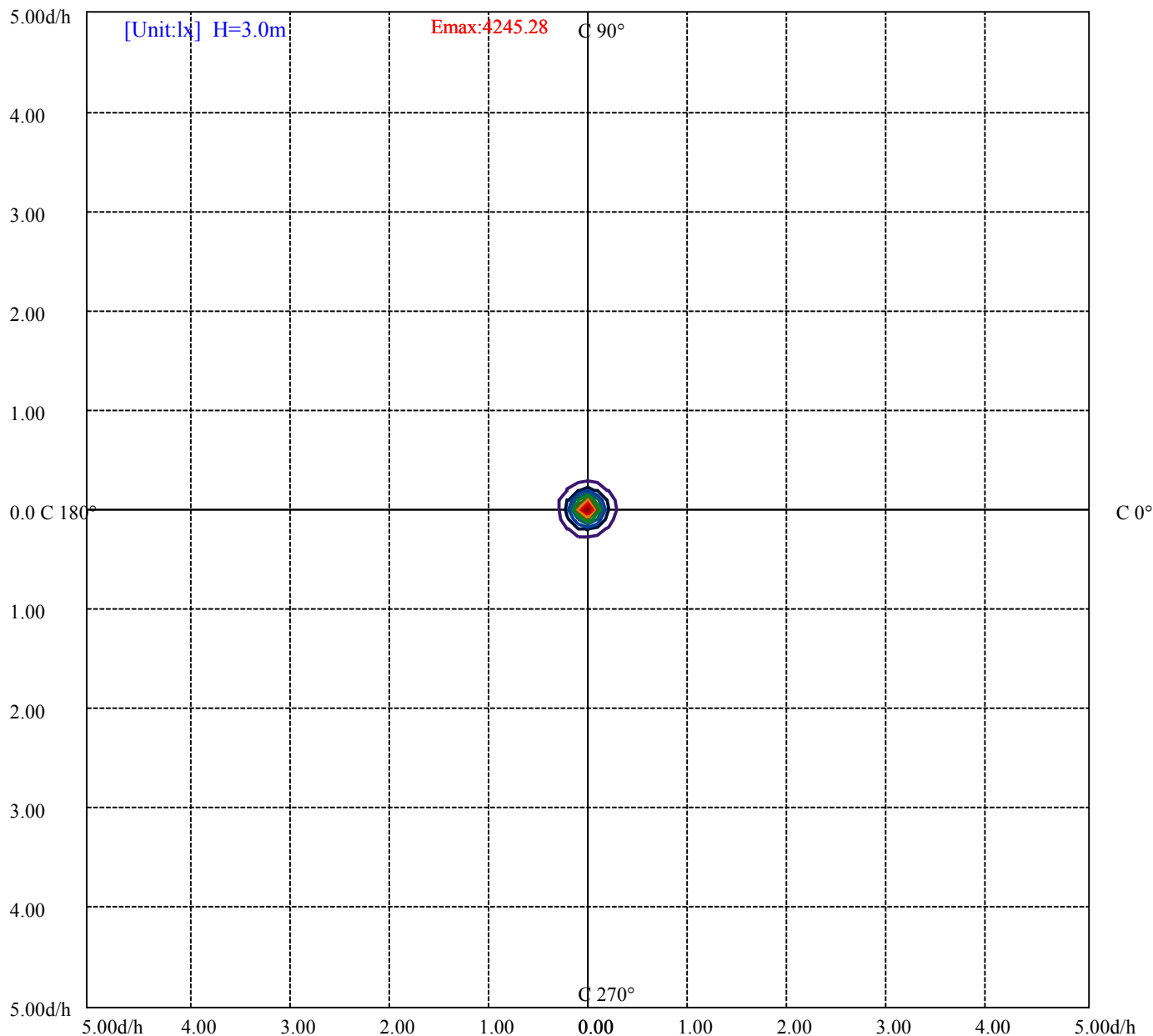


C30(Max): —  
C0/C180: —  
C90/C270: —



Max , Ave    C30面光束角15.15

ROLED 投光灯  
平面等照度曲线



(10%Emax) 424.5278	——
(20%Emax) 849.0555	——
(30%Emax) 1273.578	——
(40%Emax) 1698.111	——
(50%Emax) 2122.633	——
(60%Emax) 2547.167	——
(70%Emax) 2971.689	——
(80%Emax) 3396.222	——
(90%Emax) 3820.744	——

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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

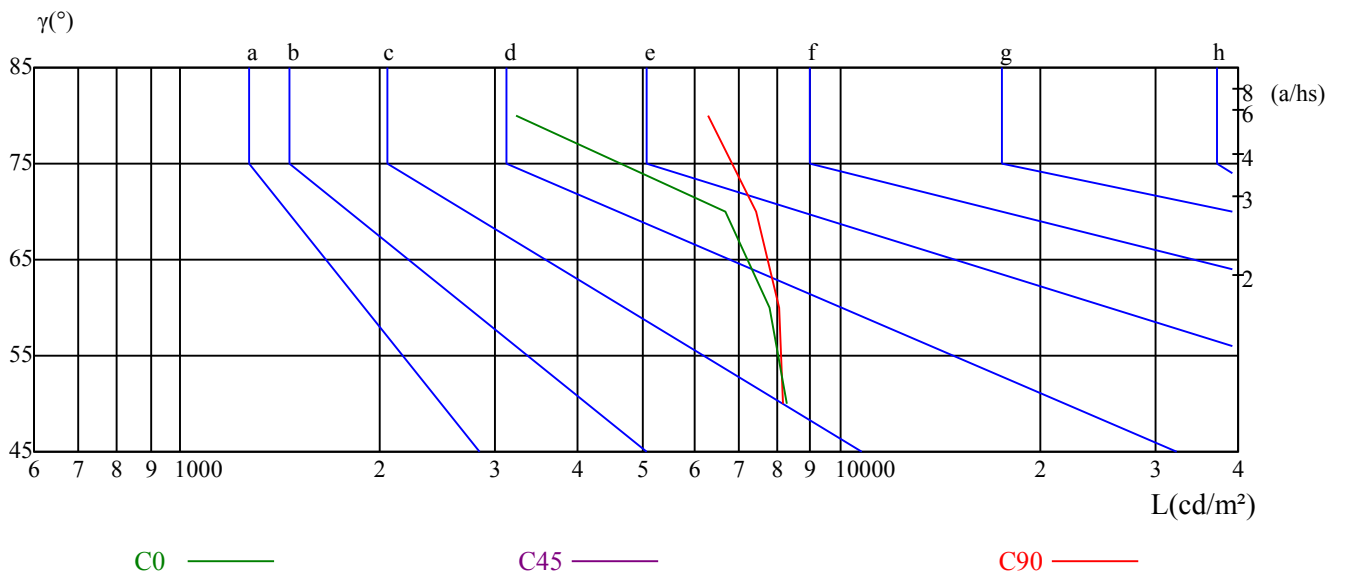
$\gamma$	45	50	55	60	65	70	75	80	85
C0	0	8282	0	7823	0	6695	0	3214	0
C45	0	0	0	0	0	0	0	0	0
C90	0	8159	0	8058	0	7429	0	6303	0

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

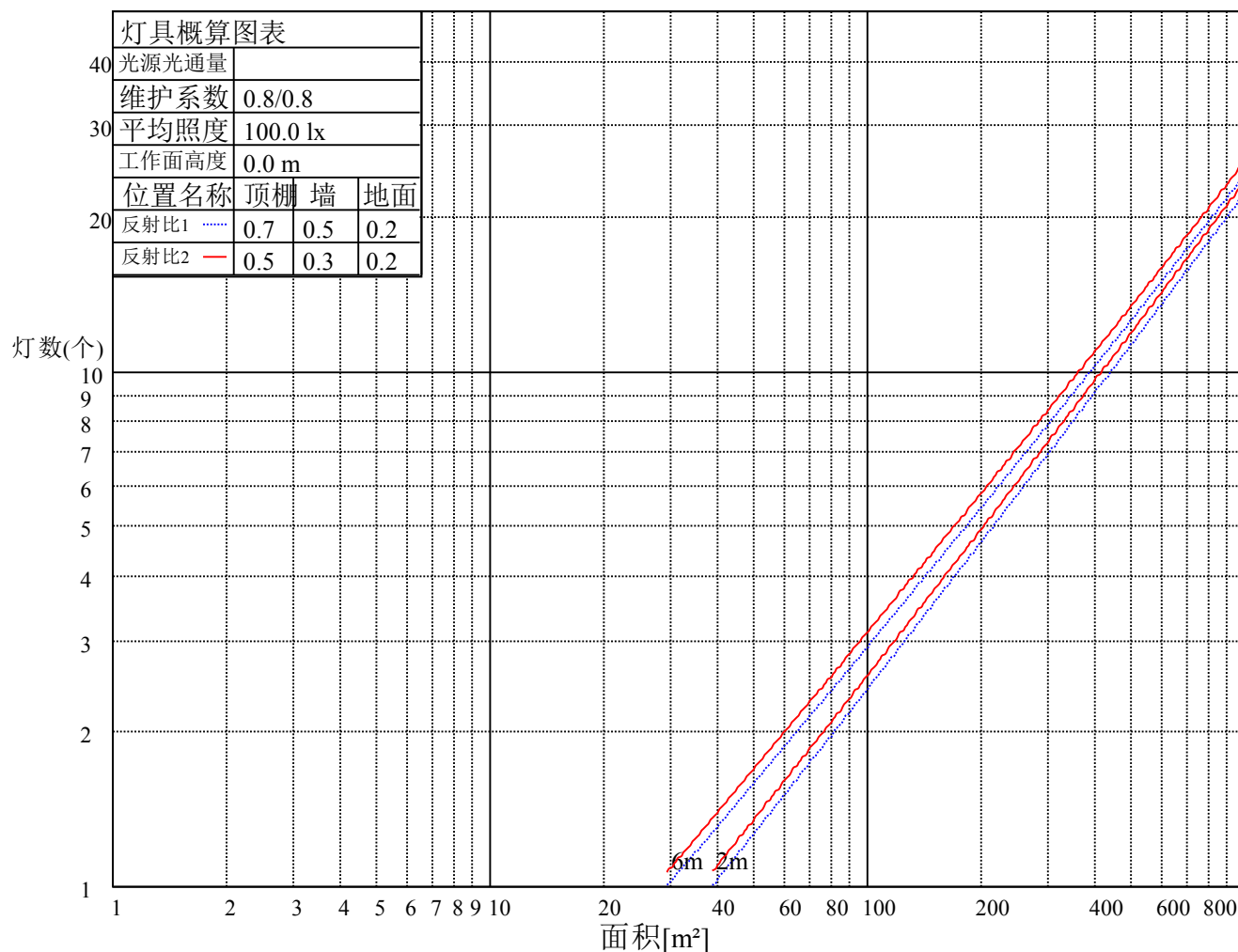
亮度限制曲线



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	9.78	10.86	10.15	11.17	11.49	10.00	11.08	10.36	11.39	11.70
	3H	11.66	12.62	12.04	12.95	13.32	11.79	12.75	12.17	13.08	13.45
	4H	12.33	13.22	12.74	13.58	13.96	12.33	13.22	12.74	13.57	13.96
	6H	12.77	13.58	13.19	13.96	14.35	12.57	13.39	12.99	13.76	14.16
	8H	12.87	13.64	13.30	14.03	14.44	12.59	13.36	13.02	13.75	14.16
	12H	12.94	13.68	13.38	14.06	14.49	12.57	13.31	13.01	13.69	14.12
4H	2H	10.47	11.36	10.87	11.71	12.10	10.63	11.52	11.04	11.87	12.26
	3H	12.58	13.31	12.99	13.71	14.12	12.66	13.39	13.07	13.80	14.20
	4H	13.36	14.01	13.79	14.43	14.88	13.29	13.94	13.72	14.36	14.81
	6H	13.79	14.36	14.26	14.80	15.28	13.55	14.11	14.02	14.56	15.03
	8H	13.92	14.44	14.39	14.89	15.36	13.57	14.10	14.05	14.55	15.02
	12H	13.99	14.44	14.48	14.93	15.40	13.56	14.01	14.04	14.50	14.97
8H	4H	13.60	14.12	14.07	14.57	15.04	13.53	14.05	14.00	14.50	14.97
	6H	14.15	14.56	14.66	15.07	15.55	13.88	14.29	14.38	14.79	15.28
	8H	14.32	14.69	14.85	15.21	15.71	13.93	14.30	14.46	14.82	15.32
	12H	14.92	15.24	15.44	15.73	16.31	14.53	14.84	15.05	15.34	15.92
12H	4H	13.58	14.03	14.07	14.52	14.99	13.52	13.98	14.01	14.46	14.94
	6H	14.50	14.52	14.68	14.99	15.53	14.24	14.26	14.42	14.73	15.28
	8H	14.36	14.67	14.88	15.17	15.75	13.97	14.29	14.49	14.79	15.37
对应照射距离，改变观察者位置S											
S = 1.0H	0.2/-0.6					0.3/-0.5					
S = 1.5H	0.8/-0.6					0.8/-0.7					
S = 2.0H	0.8/-0.7					1.1/-1.0					
标准表格	BK3					BK3					
更正系数	1.1					0.8					

# 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	1.07	1.09	1.07	1.05	1.05	1.03	1.02	1.01	1.00	0.99	0.98	0.97	0.96	0.94
2	1.04	1.01	0.98	1.03	0.99	0.97	1.00	0.97	0.94	0.97	0.94	0.92	0.94	0.92	0.90	0.89
3	0.99	0.94	0.91	0.97	0.93	0.90	0.95	0.91	0.89	0.92	0.90	0.87	0.90	0.88	0.86	0.84
4	0.94	0.89	0.85	0.93	0.88	0.85	0.91	0.87	0.84	0.89	0.86	0.83	0.87	0.84	0.82	0.81
5	0.90	0.85	0.81	0.89	0.84	0.81	0.87	0.83	0.80	0.86	0.82	0.80	0.84	0.81	0.79	0.78
6	0.86	0.81	0.78	0.86	0.81	0.78	0.84	0.80	0.77	0.83	0.79	0.77	0.82	0.79	0.76	0.75
7	0.83	0.78	0.75	0.83	0.78	0.75	0.81	0.77	0.74	0.80	0.77	0.74	0.79	0.76	0.74	0.73
8	0.81	0.76	0.73	0.80	0.76	0.72	0.79	0.75	0.72	0.78	0.74	0.72	0.77	0.74	0.72	0.70
9	0.78	0.73	0.70	0.78	0.73	0.70	0.77	0.73	0.70	0.76	0.72	0.70	0.75	0.72	0.70	0.69
10	0.76	0.71	0.68	0.76	0.71	0.68	0.75	0.71	0.68	0.74	0.71	0.68	0.74	0.70	0.68	0.67



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	37447.95	34309.38	28078.29	21386.77	15132.65	10490.03	7021.49	5018.64	3882.92
30.0	38246.02	36435.01	31316.61	24203.04	17381.07	11848.29	8195.58	5701.60	4044.07
60.0	38169.28	35989.93	30303.68	23596.81	15227.81	11641.86	7952.32	5532.01	3934.34
90.0	38031.15	36941.48	32037.95	25446.19	18202.16	12738.44	8617.63	6054.60	4258.94
120.0	38077.20	36803.35	31792.39	24993.44	18370.98	12551.97	8671.35	5934.89	4169.15
150.0	37110.30	36695.92	32413.96	25883.59	19360.90	13360.02	8985.97	6231.09	4358.70
180.0	37447.95	36772.66	32245.14	25630.36	18608.87	12946.40	8742.71	6060.74	4247.43
210.0	38246.02	35897.85	30495.52	23504.73	15085.84	11269.68	7778.12	5358.59	3859.13
240.0	38169.28	36112.71	30856.19	23719.59	16959.01	11725.51	7903.97	5494.41	3944.31
270.0	38031.15	35053.74	28853.34	22069.73	15131.12	10417.90	7091.32	5010.97	3559.86
300.0	38077.20	35329.99	29252.37	22039.04	15830.97	10681.87	7251.70	5164.44	3928.97
330.0	37110.30	33764.54	27379.98	20389.18	14402.11	9692.73	6749.84	4716.29	3358.80
360.0	37447.95	34309.38	28078.29	21386.77	15132.65	10490.03	7021.49	5018.64	3882.92
C/γ(°)	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0
0.0	2573.78	1891.58	1445.74	1161.04	949.24	789.63	672.99	538.70	466.56
30.0	2962.84	2170.14	1650.63	1306.84	1038.26	852.55	722.87	620.04	542.53
60.0	2886.10	2114.12	1523.39	1284.51	1021.15	845.65	707.21	612.60	535.63
90.0	3057.99	2256.09	1696.67	1318.35	1045.93	862.53	721.33	616.20	539.47
120.0	3003.51	2213.88	1595.37	1315.28	1059.13	866.67	734.84	624.49	547.45
150.0	3182.31	2309.03	1735.80	1355.95	1094.28	893.23	747.42	643.83	557.88
180.0	3064.90	2233.06	1710.48	1349.58	1074.33	887.47	745.20	638.46	556.50
210.0	2791.71	2048.13	1521.94	1258.19	1004.57	828.08	705.99	606.23	533.17
240.0	2846.20	2092.63	1608.42	1260.03	1009.87	827.23	705.22	606.99	528.72
270.0	2614.45	1926.11	1484.41	1186.29	954.92	790.70	671.68	583.05	510.77
300.0	2647.45	1992.88	1521.71	1199.41	977.64	806.51	683.73	591.65	520.28
330.0	2434.12	1841.70	1428.32	1146.31	927.37	771.60	658.72	570.08	505.24
360.0	2573.78	1891.58	1445.74	1161.04	949.24	789.63	672.99	538.70	466.56
C/γ(°)	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0
0.0	458.89	417.45	389.06	349.62	321.38	297.20	279.71	263.52	246.02
30.0	482.68	432.80	392.90	364.58	337.42	314.24	295.21	277.71	262.21
60.0	478.15	428.73	388.52	357.75	330.59	306.95	286.77	270.04	254.31
90.0	476.54	425.89	389.06	352.53	323.53	300.12	278.71	259.60	244.56
120.0	483.91	434.80	392.51	358.75	332.12	308.18	288.00	270.12	255.77
150.0	490.35	434.33	392.13	359.98	333.42	310.56	292.06	275.33	261.91
180.0	496.65	445.62	406.33	371.79	342.56	317.23	295.90	277.87	261.14
210.0	473.16	424.05	386.60	355.06	328.05	305.88	287.69	270.19	255.77
240.0	471.94	422.82	388.29	352.76	327.13	303.19	284.54	266.82	251.01
270.0	457.05	410.01	372.94	339.49	313.24	289.45	269.43	252.62	237.66
300.0	461.96	418.22	388.29	349.85	323.91	302.27	282.93	266.13	251.39
330.0	451.29	408.24	371.79	342.71	318.38	296.67	278.10	261.52	247.56
360.0	458.89	417.45	389.06	349.62	321.38	297.20	279.71	263.52	246.02
C/γ(°)	54.0	56.0	58.0	60.0	62.0	64.0	66.0	68.0	70.0
0.0	232.51	222.16	212.72	193.61	180.33	165.22	149.64	132.76	113.34
30.0	247.94	234.89	223.23	212.03	200.82	188.16	174.65	159.31	141.12
60.0	239.50	227.99	216.94	206.19	193.69	179.18	161.84	148.95	133.68
90.0	231.67	220.08	209.49	199.44	188.39	177.34	164.45	148.95	125.77
120.0	242.49	230.60	219.70	208.80	197.83	177.57	164.60	151.40	137.82
150.0	249.01	236.81	226.22	215.17	204.43	192.61	179.26	164.30	148.79
180.0	247.79	235.20	224.30	214.17	195.99	181.87	165.14	147.72	127.69
210.0	241.72	229.22	218.09	207.81	195.91	183.79	170.82	155.47	138.20
240.0	237.89	225.92	214.87	204.58	194.38	182.64	170.36	157.77	142.96
270.0	225.46	212.49	193.84	182.87	172.12	160.54	147.87	133.37	118.64
300.0	237.04	224.84	213.64	203.66	192.69	180.56	168.75	155.09	139.51
330.0	233.67	221.31	210.34	199.82	187.62	175.42	161.61	145.72	128.61
360.0	232.51	222.16	212.72	193.61	180.33	165.22	149.64	132.76	113.34

# 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	97.69	81.34	62.85	45.97	27.63	11.36	2.23	1.69	1.23
30.0	121.17	103.06	80.04	58.93	40.75	22.02	7.21	1.69	1.15
60.0	117.26	101.60	87.25	69.60	49.50	32.69	15.96	3.61	1.00
90.0	110.27	96.69	82.80	67.68	54.18	38.83	23.02	7.44	0.92
120.0	120.78	105.36	89.94	73.44	53.26	36.14	19.49	6.45	1.15
150.0	127.69	101.22	84.80	68.14	47.50	30.16	13.28	2.15	1.53
180.0	109.27	91.70	75.66	56.71	41.21	23.10	6.91	2.15	1.69
210.0	113.73	92.47	76.43	59.16	40.82	23.17	7.60	1.76	1.30
240.0	126.16	107.97	92.93	76.28	51.80	33.84	17.27	4.53	1.07
270.0	104.44	91.24	76.97	62.00	47.35	33.15	18.26	3.22	0.92
300.0	123.09	102.14	84.49	66.15	46.20	29.77	13.81	2.30	0.92
330.0	110.35	89.40	72.29	52.41	32.69	16.73	2.07	1.61	0.92
360.0	97.69	81.34	62.85	45.97	27.63	11.36	2.23	1.69	1.23

C/γ(°)	90.0
0.0	0.61
30.0	0.23
60.0	0.31
90.0	0.46
120.0	0.54
150.0	0.92
180.0	0.92
210.0	0.31
240.0	0.38
270.0	0.31
300.0	0.23
330.0	0.38
360.0	0.61