

浙大三色

Email:sensing@sensingm.com

Tel:+86 571 85021543 Fax:+86 571 87977635

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## ROLED

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灯具名称: 投光灯

灯具描述: F2031A-48-UN(2515-OL-48WN-AA, P1)

报告编号:

电压(V): 219.5000

测试编号: 20210421004

电流(A): 0.2570

光源规格型号: OL

功率(W): 54.8000

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): 5090.61

灯具效能(lm/w): 92.89

中心光强(cd): 27556.470

最大光强(cd): 28247.110

最大光强角度: C=60.0  $\gamma=0.0$

半峰边角(50%Imax): [C0/180]Total=24.7

[C90/270]Total=12.1

光束扩散角(10%Imax): [C0/180]Total=42.6

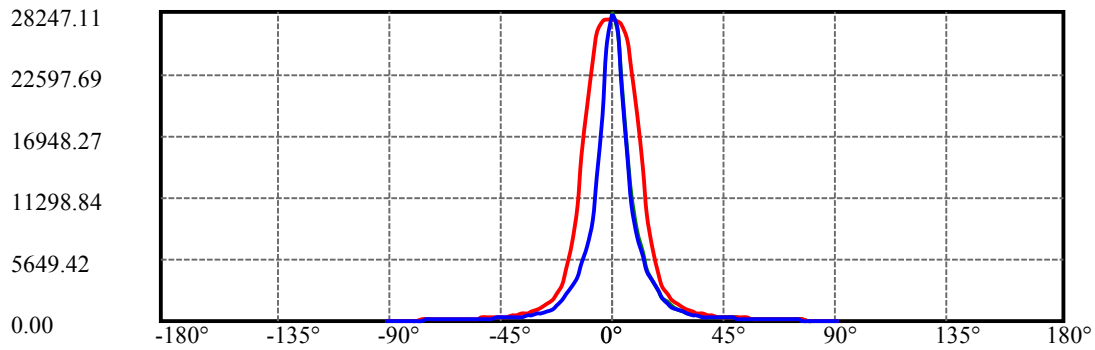
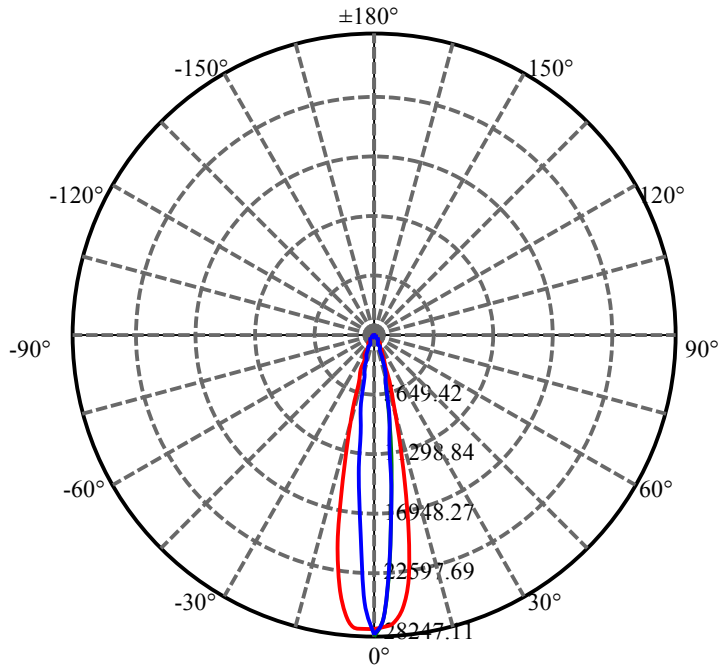
[C90/270]Total=34.7

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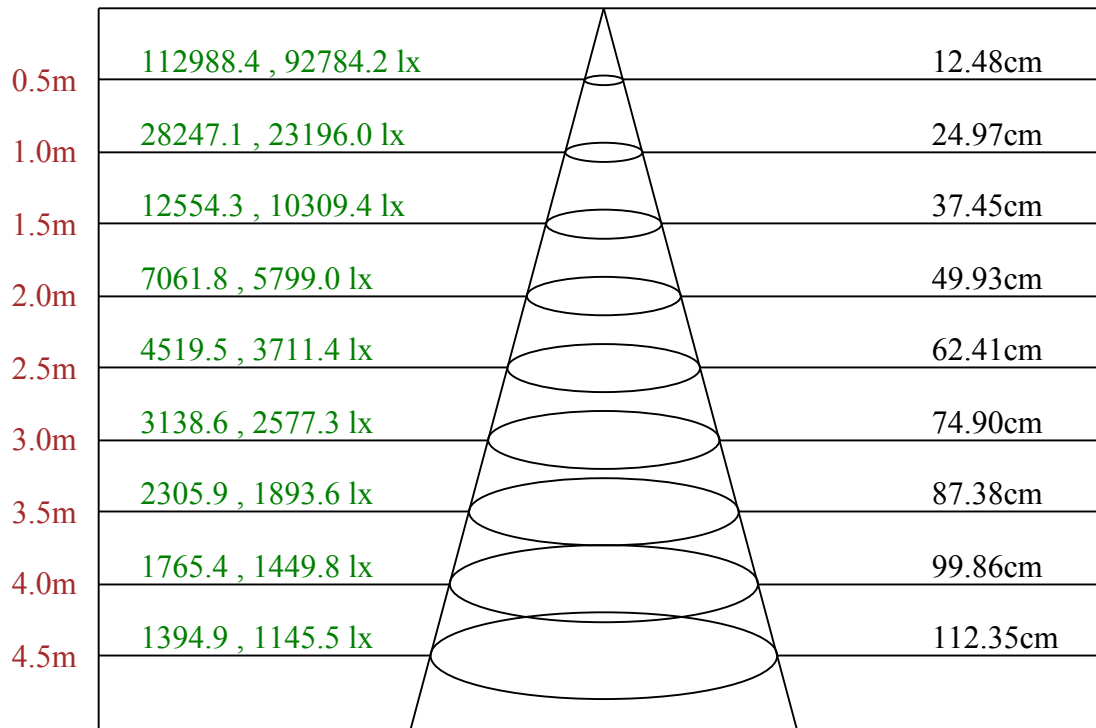
测试设备: GMS1800  
环境温度(°C): 25.0

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

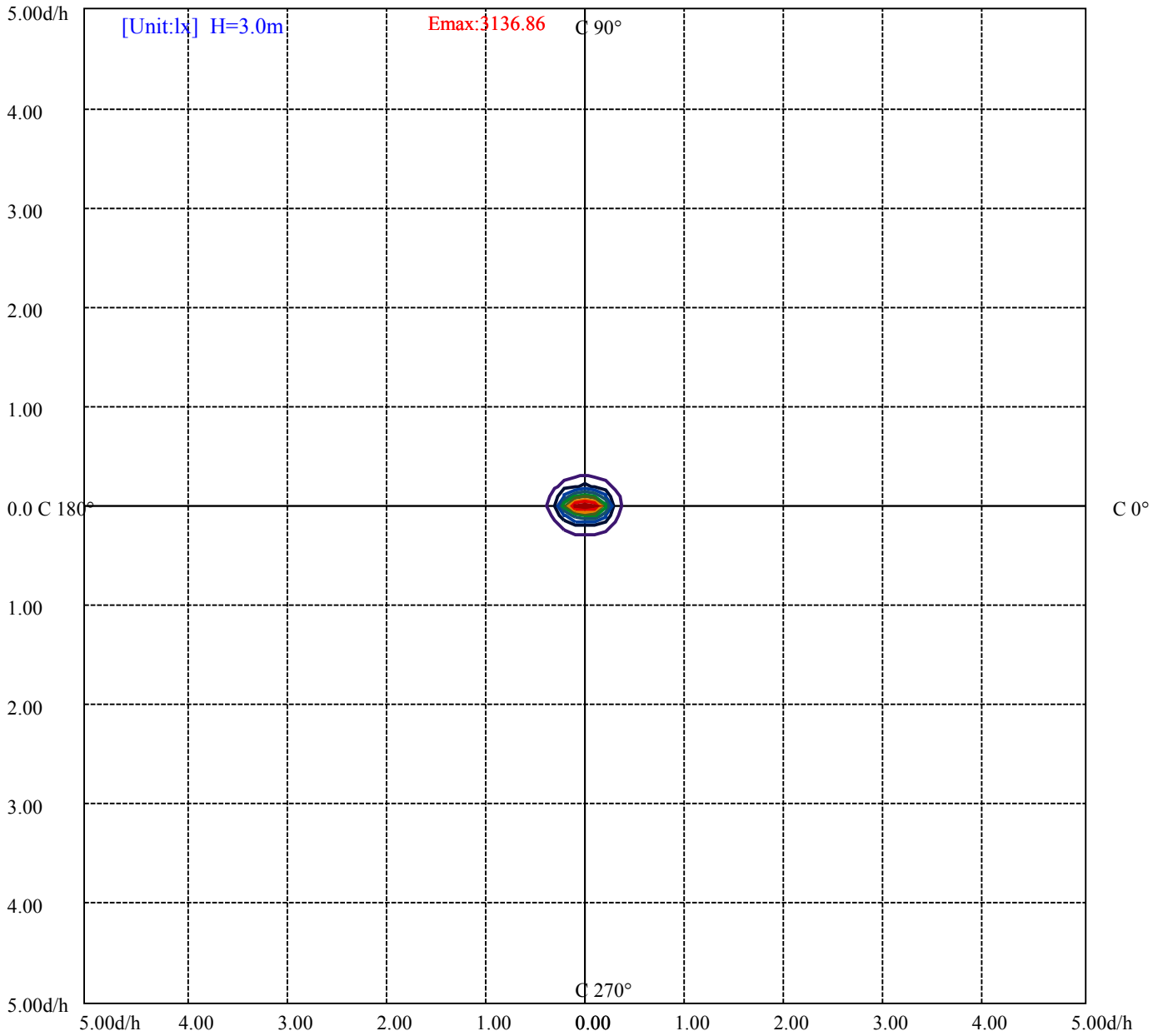


C60(Max): —  
C0/C180: —  
C90/C270: —



Max , Ave    C60面光束角14.23

ROLED 投光灯  
平面等照度曲线



- (10%E<sub>max</sub>) 313.6855
- (20%E<sub>max</sub>) 627.3711
- (30%E<sub>max</sub>) 941.0566
- (40%E<sub>max</sub>) 1254.745
- (50%E<sub>max</sub>) 1568.422
- (60%E<sub>max</sub>) 1882.111
- (70%E<sub>max</sub>) 2195.8
- (80%E<sub>max</sub>) 2509.478
- (90%E<sub>max</sub>) 2823.167

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

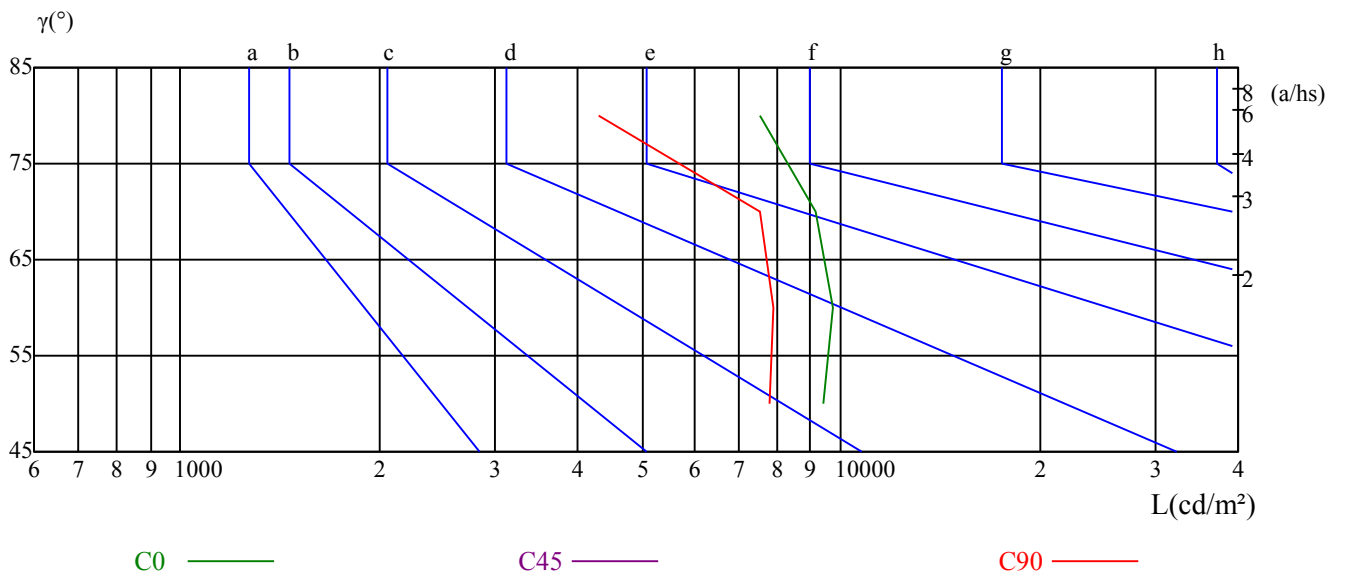
$\gamma$	45	50	55	60	65	70	75	80	85
C0	0	9423	0	9701	0	9142	0	7562	0
C45	0	0	0	0	0	0	0	0	0
C90	0	7829	0	7894	0	7565	0	4294	0

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

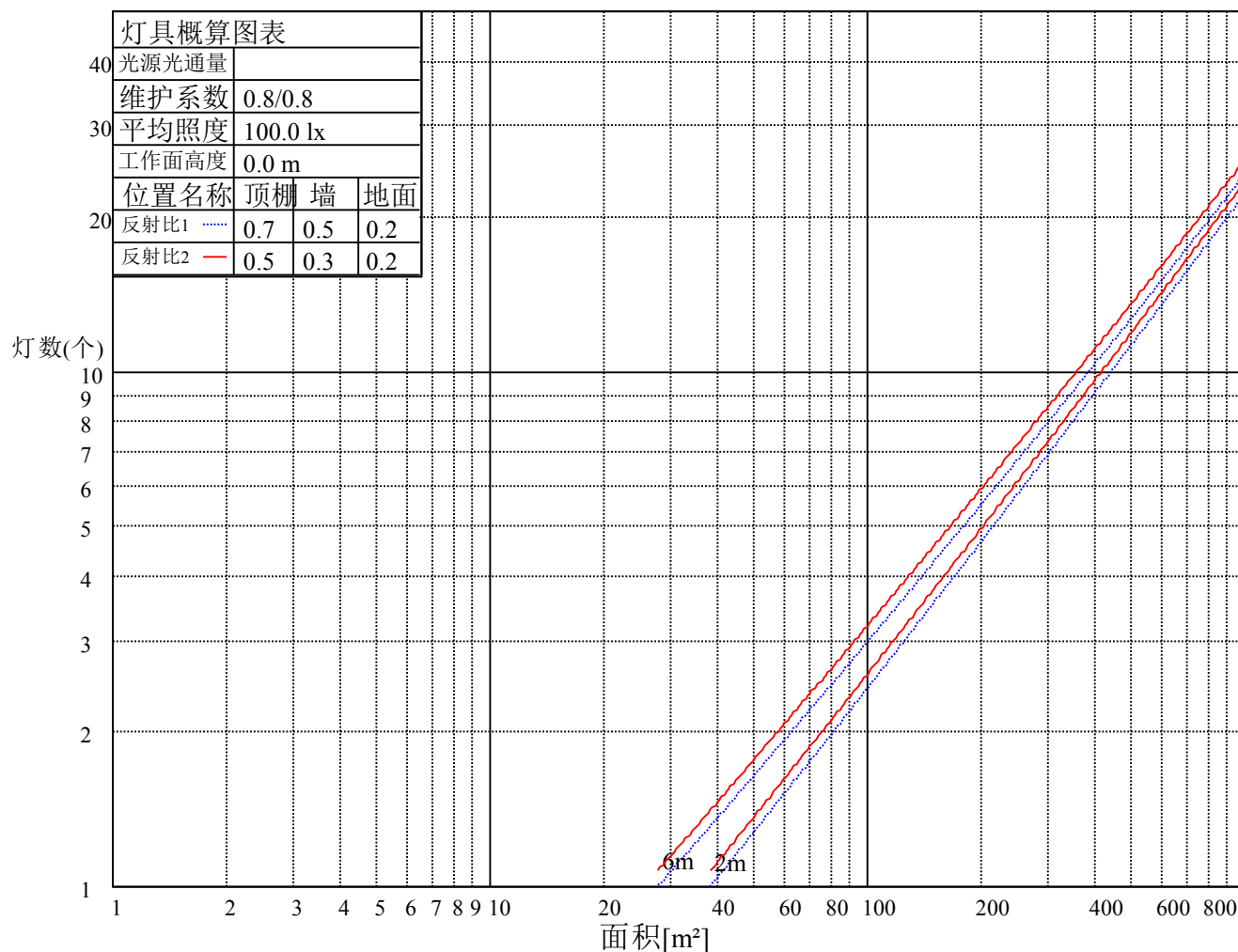
眩光等级表

眩光等级	质量等级	使用照度(lx)							
1.15	A	2000	1000	500	$\leq 300$				
1.5	B		2000	1000	500	$\leq 300$			
1.85	C			2000	1000	500	$\leq 300$		
2.2	D				2000	1000	500	$\leq 300$	
2.55	E					2000	1000	500	$\leq 300$
		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	9.94	11.05	10.31	11.36	11.67	10.78	11.88	11.15	12.19	12.51
	3H	11.91	12.88	12.29	13.22	13.58	12.83	13.81	13.21	14.14	14.51
	4H	12.49	13.40	12.89	13.75	14.14	13.58	14.49	13.98	14.84	15.23
	6H	12.74	13.57	13.16	13.95	14.34	14.07	14.90	14.49	15.28	15.67
	8H	12.75	13.54	13.19	13.93	14.34	14.19	14.98	14.62	15.37	15.78
	12H	12.73	13.48	13.17	13.87	14.30	14.29	15.04	14.72	15.42	15.85
4H	2H	10.78	11.69	11.18	12.04	12.43	11.40	12.31	11.81	12.66	13.05
	3H	12.94	13.69	13.35	14.10	14.50	13.64	14.39	14.06	14.80	15.20
	4H	13.61	14.28	14.05	14.70	15.15	14.50	15.17	14.94	15.59	16.04
	6H	13.88	14.45	14.35	14.90	15.37	15.00	15.57	15.47	16.02	16.49
	8H	13.90	14.43	14.37	14.88	15.36	15.15	15.68	15.62	16.13	16.61
	12H	13.87	14.34	14.36	14.83	15.30	15.24	15.71	15.73	16.20	16.67
8H	4H	13.92	14.46	14.40	14.91	15.38	14.71	15.25	15.19	15.70	16.17
	6H	14.28	14.71	14.79	15.21	15.69	15.32	15.75	15.83	16.25	16.73
	8H	14.33	14.71	14.86	15.23	15.73	15.52	15.90	16.05	16.42	16.92
	12H	14.91	15.24	15.43	15.73	16.31	16.14	16.46	16.66	16.96	17.54
12H	4H	13.93	14.39	14.42	14.88	15.36	14.69	15.16	15.18	15.64	16.12
	6H	14.69	14.69	14.84	15.16	15.71	15.69	15.69	15.85	16.16	16.71
	8H	14.39	14.72	14.91	15.22	15.79	15.55	15.87	16.07	16.37	16.95
对应照射距离，改变观察者位置S											
S = 1.0H	0.2/-0.6					0.3/-0.6					
S = 1.5H	0.9/-0.6					0.8/-0.6					
S = 2.0H	1.0/-0.8					1.0/-0.7					
标准表格	BK4					BK3					
更正系数	1.7					2.1					



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## 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	1.08	1.06	1.09	1.06	1.04	1.05	1.03	1.01	1.01	0.99	0.98	0.97	0.96	0.95	0.94
2	1.04	1.00	0.96	1.02	0.98	0.95	0.99	0.96	0.93	0.96	0.93	0.91	0.93	0.91	0.89	0.88
3	0.97	0.93	0.89	0.96	0.92	0.88	0.93	0.90	0.87	0.91	0.88	0.86	0.89	0.86	0.84	0.83
4	0.92	0.87	0.83	0.91	0.86	0.83	0.89	0.85	0.82	0.87	0.84	0.81	0.85	0.82	0.80	0.79
5	0.88	0.83	0.79	0.87	0.82	0.78	0.85	0.81	0.78	0.84	0.80	0.77	0.82	0.79	0.76	0.75
6	0.84	0.79	0.75	0.83	0.78	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	0.69	0.74	0.71	0.68	0.67
9	0.75	0.70	0.67	0.75	0.70	0.67	0.74	0.70	0.67	0.73	0.69	0.66	0.72	0.69	0.66	0.65
10	0.73	0.68	0.65	0.72	0.68	0.65	0.72	0.67	0.64	0.71	0.67	0.64	0.70	0.67	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	27556.47	27426.02	26988.61	25645.71	23059.65	18869.78	14096.70	9768.70	6584.09
30.0	28216.42	27901.79	25914.29	22468.77	18102.40	13751.38	9791.72	6975.45	4926.55
60.0	28247.11	26382.39	21678.37	15228.58	11519.08	8276.15	6259.49	4727.04	3609.74
90.0	28101.31	26489.82	21302.36	14910.12	10658.85	7788.87	5993.21	4604.26	3709.50
120.0	27671.58	25883.59	21095.17	15085.08	11519.08	8445.74	6303.23	4829.86	3689.54
150.0	27648.56	26996.29	25269.69	22376.68	18524.46	14411.32	10436.31	7343.79	5264.20
180.0	27556.47	27594.84	27372.30	26313.32	23857.72	19729.24	15133.42	10545.28	7023.03
210.0	28216.42	26957.92	24210.71	20573.35	15105.03	11948.04	8358.26	5973.25	4292.70
240.0	28247.11	25952.66	20734.50	15117.31	10904.41	7827.24	5916.47	4481.48	3408.68
270.0	28101.31	24947.39	18785.36	13081.46	9352.78	6891.04	5252.69	3999.56	3103.27
300.0	27671.58	26052.42	21847.19	16398.83	11679.46	8402.77	6077.62	4650.30	3882.92
330.0	27648.56	27218.83	25591.99	22553.18	18347.96	13910.99	9886.11	6767.49	4698.64
360.0	27556.47	27426.02	26988.61	25645.71	23059.65	18869.78	14096.70	9768.70	6584.09
C/γ(°)	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0
0.0	4458.45	3223.75	2394.21	1867.03	1503.29	1237.01	1027.52	864.07	735.15
30.0	3890.60	2769.46	2132.54	1698.97	1354.42	1116.53	921.62	776.58	659.18
60.0	2788.64	2154.02	1695.13	1344.52	1087.45	882.87	734.46	621.73	539.70
90.0	2758.72	2117.96	1616.09	1250.06	1004.50	811.12	674.52	567.09	488.05
120.0	2856.94	2216.95	1733.50	1404.84	1134.95	940.27	788.40	671.84	583.36
150.0	3882.92	2919.10	2215.41	1764.96	1423.48	1176.39	975.33	820.32	705.99
180.0	4767.71	3420.96	2535.41	1990.57	1529.07	1298.86	1071.87	881.48	736.68
210.0	3204.56	2470.95	1920.74	1530.07	1266.09	1036.49	863.37	731.62	621.65
240.0	2622.89	2061.94	1598.44	1266.17	1033.66	843.35	705.99	601.62	523.35
270.0	2395.75	1859.35	1432.31	1124.21	912.49	745.35	623.26	530.26	465.41
300.0	2757.95	2152.49	1681.32	1355.95	1103.49	905.50	760.47	656.11	568.63
330.0	3472.38	2609.08	2039.69	1530.22	1325.41	1090.59	920.39	776.35	663.78
360.0	4458.45	3223.75	2394.21	1867.03	1503.29	1237.01	1027.52	864.07	735.15
C/γ(°)	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0
0.0	630.78	549.44	482.68	430.50	389.83	350.15	323.37	299.81	282.01
30.0	564.02	491.89	431.27	388.29	350.92	323.07	300.04	283.01	269.12
60.0	472.17	419.22	379.31	345.40	317.69	296.13	279.71	264.97	252.70
90.0	430.50	387.52	355.99	327.44	304.49	283.78	265.67	249.09	234.82
120.0	516.06	460.12	415.30	381.08	351.38	326.75	305.80	289.07	273.95
150.0	603.92	530.26	468.10	419.75	387.52	350.46	324.14	303.34	287.08
180.0	621.19	539.39	472.78	420.22	371.03	336.88	309.56	289.45	273.19
210.0	540.54	471.25	417.53	375.17	340.41	315.01	294.67	278.86	265.97
240.0	460.43	412.08	380.39	341.71	315.47	295.06	278.48	263.90	251.32
270.0	415.07	377.32	345.55	319.77	297.51	278.02	259.45	243.33	230.52
300.0	503.40	448.91	405.17	373.87	344.71	320.15	300.20	283.93	268.58
330.0	578.99	505.24	449.84	403.95	366.27	336.49	313.01	294.75	280.40
360.0	630.78	549.44	482.68	430.50	389.83	350.15	323.37	299.81	282.01
C/γ(°)	54.0	56.0	58.0	60.0	62.0	64.0	66.0	68.0	70.0
0.0	269.50	261.91	253.62	240.11	222.31	205.81	190.77	172.05	154.78
30.0	257.76	248.55	240.50	231.90	220.62	207.73	192.53	176.27	160.46
60.0	240.57	230.21	221.31	212.79	203.58	192.92	181.33	166.75	148.18
90.0	222.77	212.72	204.05	195.37	185.94	175.19	162.38	143.81	128.08
120.0	261.45	249.63	240.04	230.52	220.31	208.57	195.07	180.33	159.61
150.0	274.34	264.51	256.69	247.02	230.90	209.95	193.07	175.96	157.70
180.0	262.67	256.38	250.16	242.87	232.67	219.70	204.20	185.63	161.00
210.0	255.23	245.94	237.43	227.60	215.02	201.74	186.47	169.90	152.40
240.0	239.19	229.06	219.16	210.87	202.05	191.61	180.18	165.83	147.34
270.0	219.16	209.19	200.36	191.92	181.33	171.05	158.23	139.36	122.40
300.0	255.77	245.41	235.58	225.92	215.56	204.51	191.31	176.96	157.93
330.0	269.12	260.29	251.93	240.96	227.83	212.79	196.68	180.03	161.84
360.0	269.50	261.91	253.62	240.11	222.31	205.81	190.77	172.05	154.78

# 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	138.13	122.17	102.14	83.26	65.00	46.35	27.17	7.90	1.53
30.0	140.51	122.70	105.90	88.17	62.31	44.05	22.41	6.75	1.46
60.0	125.54	106.82	87.79	65.46	45.66	25.48	8.44	2.00	1.61
90.0	110.50	93.39	73.98	54.48	36.91	19.80	2.92	1.92	1.53
120.0	136.52	116.10	89.94	65.30	44.05	24.71	8.06	2.00	1.53
150.0	138.36	120.94	103.60	85.41	61.31	42.51	21.79	6.37	1.46
180.0	141.81	124.39	104.13	84.56	66.15	47.81	28.09	10.51	1.30
210.0	134.14	115.80	99.38	78.81	55.02	36.91	17.65	3.45	1.30
240.0	124.39	105.28	86.33	65.84	44.43	24.48	7.52	2.00	1.46
270.0	105.67	88.63	68.45	50.80	31.92	15.73	2.38	1.92	1.53
300.0	129.38	106.67	88.48	68.22	46.66	26.63	8.75	2.23	1.61
330.0	143.58	121.94	105.67	83.03	58.17	38.75	19.95	3.91	1.38
360.0	138.13	122.17	102.14	83.26	65.00	46.35	27.17	7.90	1.53

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