

浙大三色

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## ROLED

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灯具名称: 投光灯

灯具描述: F1012A-12-UN (45-OL-12WN-AJ, CT)

报告编号:

电压(V): 220.4000

测试编号: 20210416007

电流(A): 0.1230

光源规格型号: OL

功率(W): 14.1000

每个光源光通量(lm)

功率因数: 0.5190

光源数量: 12

镇流器型号:

发光面长度(mm): 131

发光面宽度(mm): 131

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): 1266.10

灯具效能(lm/w): 89.79

中心光强(cd): 1700.505

最大光强(cd): 1702.807

最大光强角度: C=90.0  $\gamma$ =0.0

半峰边角(50%Imax): [C0/180]Total=42.2

[C90/270]Total=42.1

光束扩散角(10%Imax): [C0/180]Total=86.5

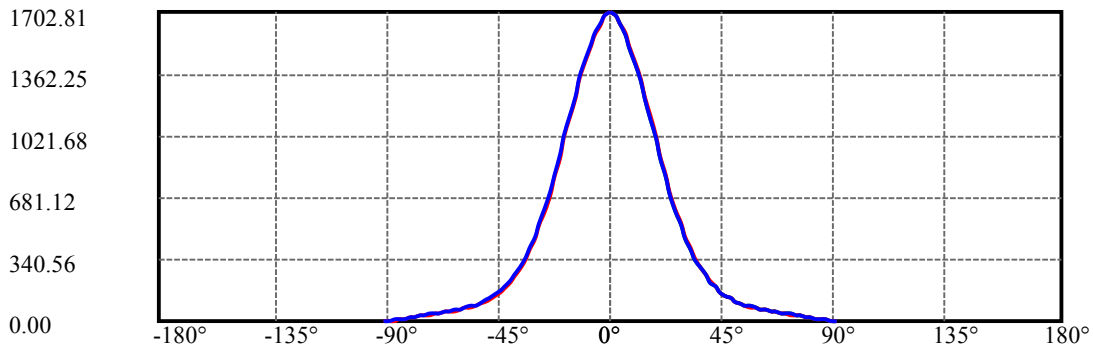
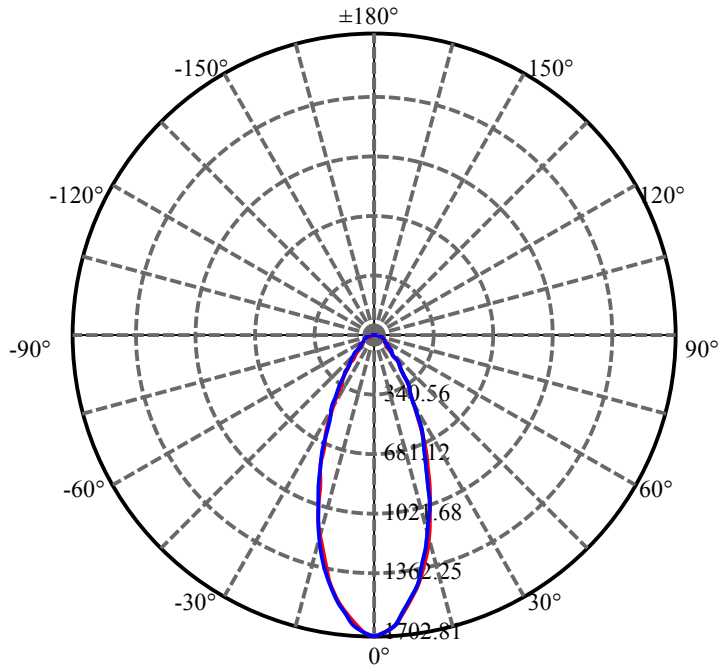
[C90/270]Total=87.0

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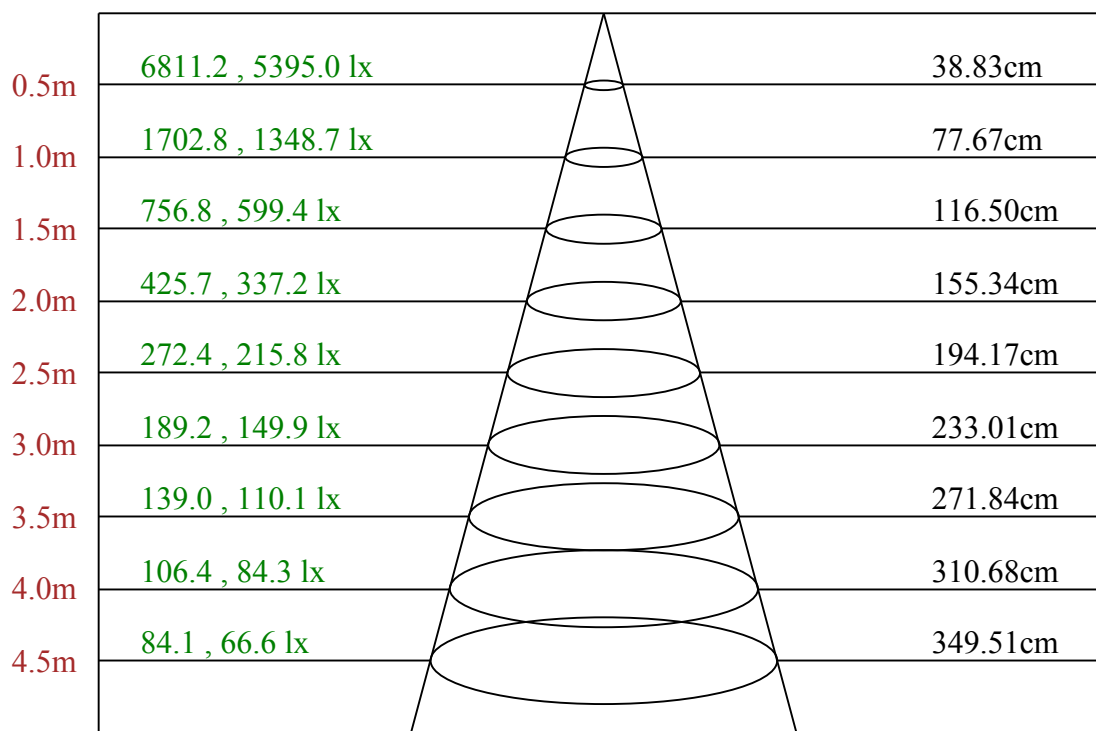
测试设备: GMS1800  
环境温度(°C): 25.0

测试日期: 2021/4/16  
环境湿度(%): 60.0%

测试人员: anpeilou  
测试距离(m): 8.76

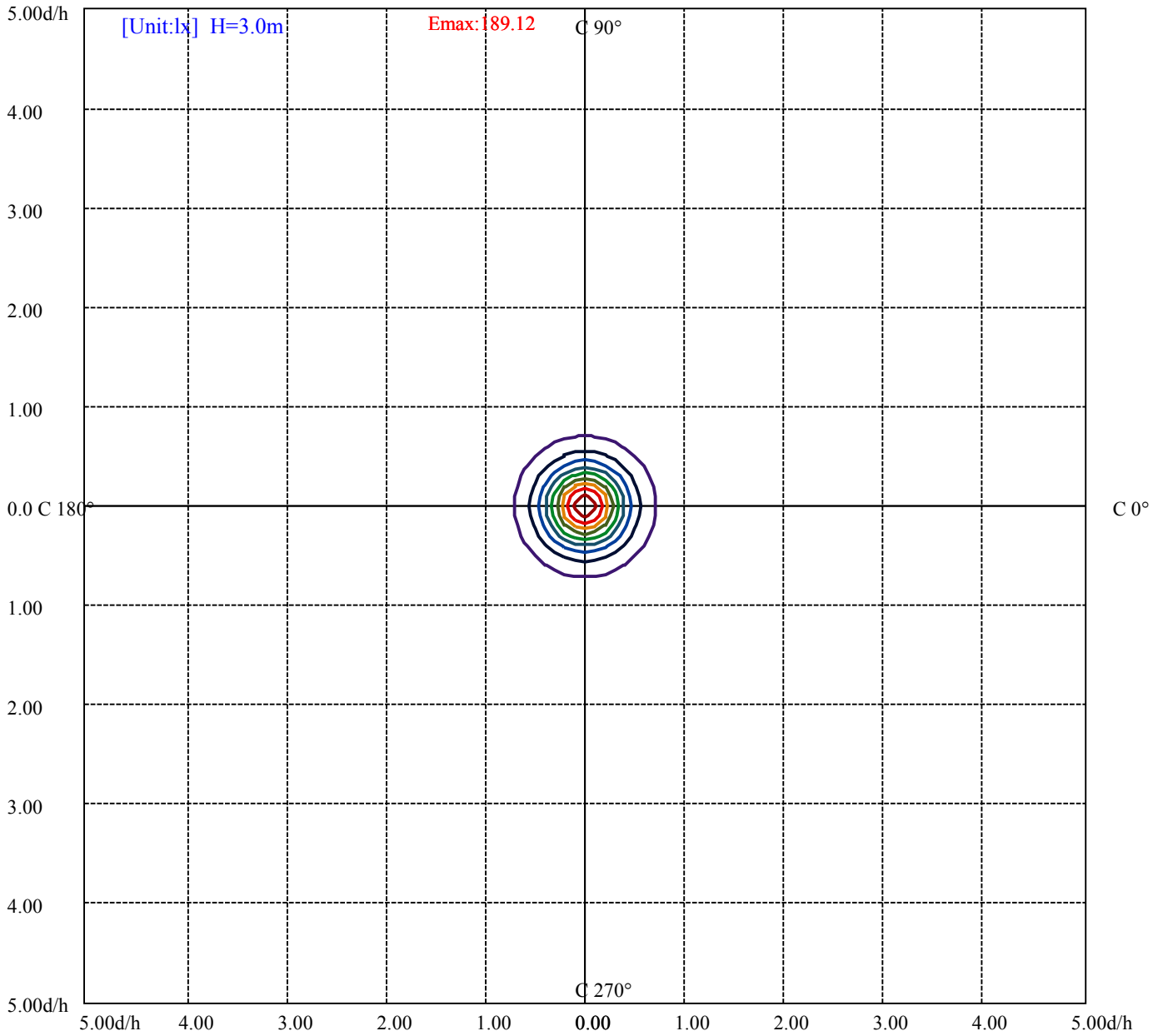


C90(Max): —  
C0/C180: —  
C90/C270: —



Max , Ave    C90面光束角42.45

ROLED 投光灯  
平面等照度曲线



(10%Emax) 18.91155	——
(20%Emax) 37.82311	——
(30%Emax) 56.73466	——
(40%Emax) 75.64611	——
(50%Emax) 94.55766	——
(60%Emax) 113.4689	——
(70%Emax) 132.3811	——
(80%Emax) 151.2922	——
(90%Emax) 170.2033	——

测试设备: GMS1800  
环境温度(°C): 25.0

测试日期: 2021/4/16  
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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

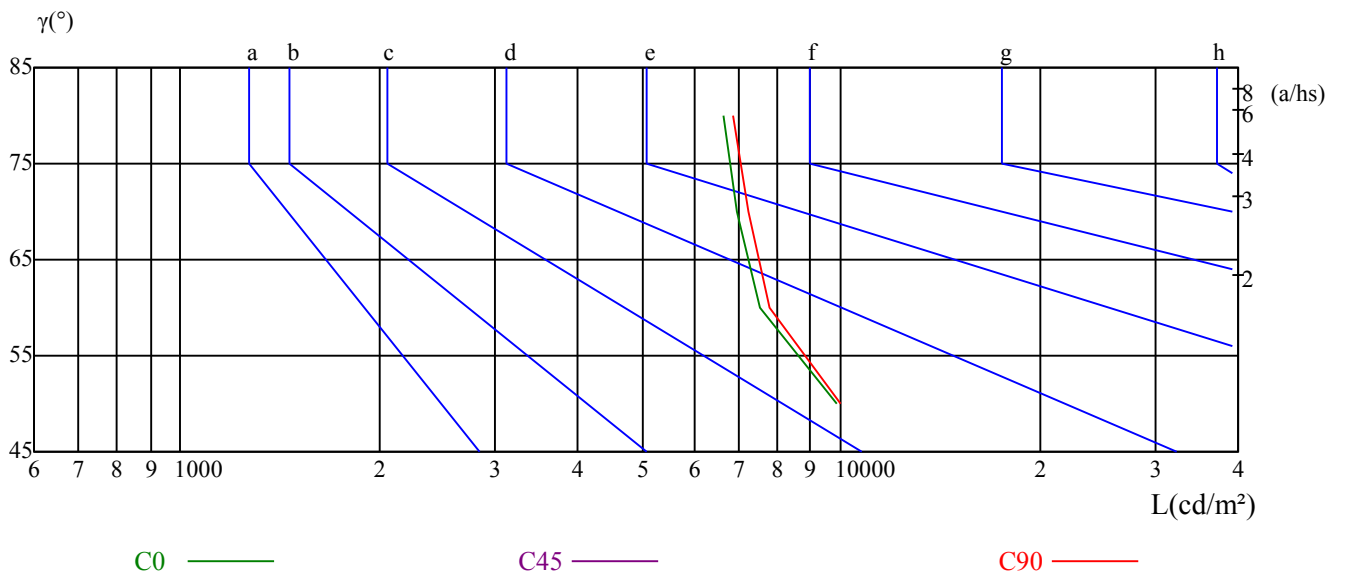
$\gamma$	45	50	55	60	65	70	75	80	85
C0	0	9885	0	7521	0	6942	0	6644	0
C45	0	0	0	0	0	0	0	0	0
C90	0	10004	0	7781	0	7269	0	6850	0

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

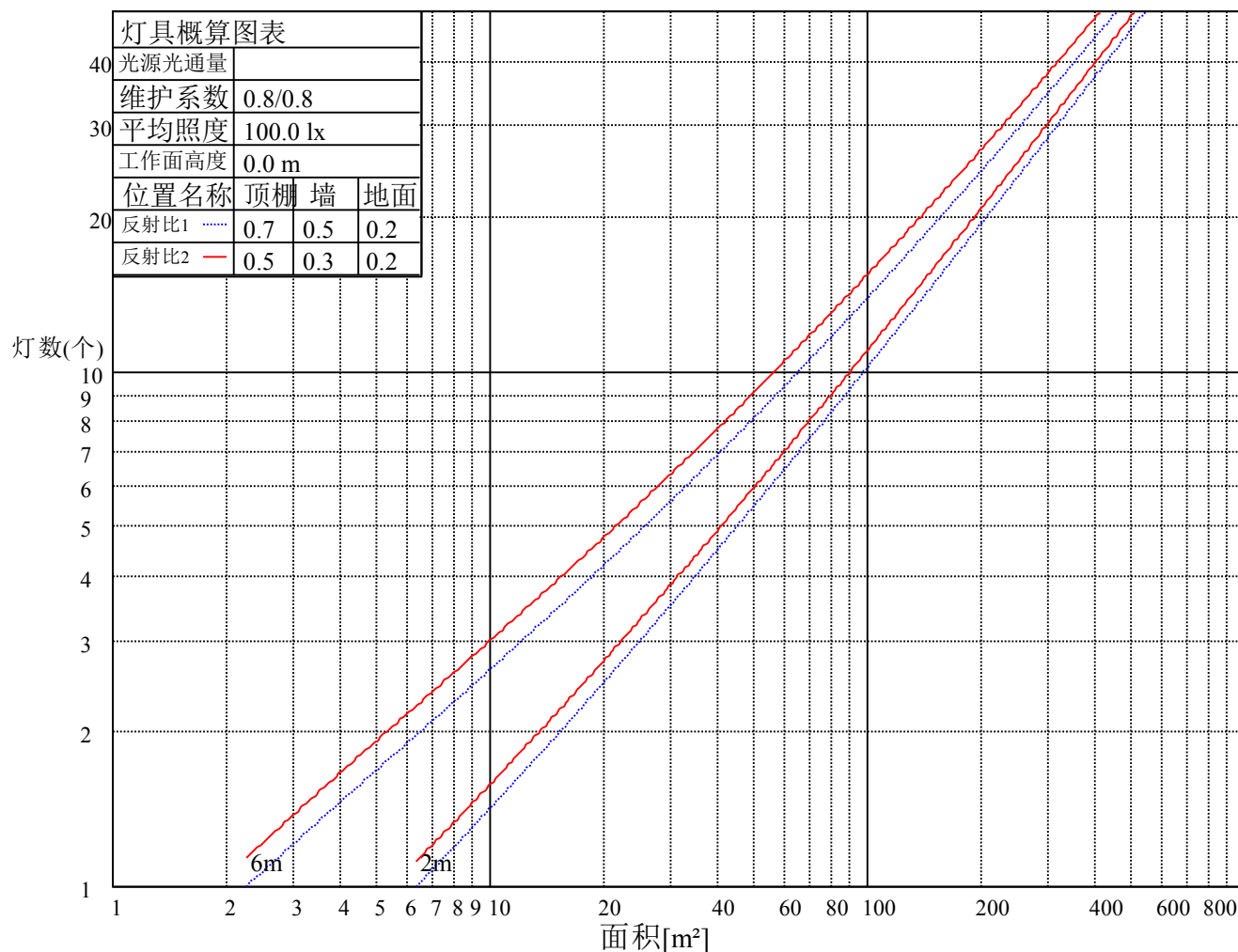
亮度限制曲线



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	15.65	16.86	16.02	17.17	17.49	15.48	16.69	15.85	17.01	17.32
	3H	17.37	18.45	17.75	18.78	19.15	17.14	18.21	17.52	18.55	18.91
	4H	18.09	19.10	18.50	19.45	19.83	17.83	18.84	18.24	19.19	19.57
	6H	18.66	19.58	19.08	19.95	20.35	18.38	19.31	18.80	19.68	20.07
	8H	18.84	19.71	19.27	20.10	20.51	18.56	19.43	18.99	19.82	20.23
	12H	19.04	19.88	19.48	20.26	20.69	18.75	19.59	19.19	19.97	20.40
4H	2H	16.15	17.15	16.55	17.50	17.89	16.02	17.02	16.42	17.37	17.76
	3H	18.13	18.95	18.54	19.36	19.76	17.93	18.75	18.34	19.16	19.56
	4H	18.99	19.73	19.43	20.15	20.60	18.77	19.51	19.20	19.93	20.37
	6H	19.58	20.22	20.04	20.66	21.13	19.33	19.97	19.80	20.42	20.89
	8H	19.82	20.41	20.29	20.86	21.33	19.56	20.16	20.04	20.61	21.08
	12H	20.03	20.56	20.52	21.04	21.52	19.77	20.29	20.26	20.78	21.25
8H	4H	19.28	19.88	19.75	20.32	20.80	19.08	19.68	19.55	20.13	20.60
	6H	20.03	20.51	20.53	21.01	21.49	19.82	20.30	20.32	20.80	21.28
	8H	20.35	20.78	20.88	21.30	21.80	20.13	20.56	20.66	21.08	21.57
	12H	21.02	21.40	21.54	21.89	22.47	20.79	21.16	21.30	21.66	22.23
12H	4H	19.30	19.82	19.78	20.31	20.78	19.11	19.63	19.59	20.12	20.59
	6H	20.60	20.52	20.62	20.99	21.54	20.39	20.32	20.42	20.79	21.33
	8H	20.47	20.84	20.98	21.34	21.91	20.26	20.63	20.77	21.13	21.70
对应照射距离，改变观察者位置S											
S = 1.0H	0.6/-0.8					0.6/-0.8					
S = 1.5H	1.1/-1.0					1.1/-1.1					
S = 2.0H	2.3/-1.0					2.3/-1.1					
标准表格	BK3					BK3					
更正系数	2.8					2.8					

# 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	1.09	1.06	1.03	1.07	1.04	1.01	1.02	1.00	0.98	0.99	0.97	0.95	0.95	0.94	0.92	0.91
2	1.00	0.95	0.91	0.98	0.93	0.90	0.94	0.91	0.88	0.91	0.88	0.86	0.89	0.86	0.84	0.82
3	0.92	0.86	0.81	0.90	0.85	0.80	0.87	0.83	0.79	0.85	0.81	0.78	0.83	0.79	0.77	0.75
4	0.85	0.78	0.74	0.84	0.78	0.73	0.81	0.76	0.72	0.79	0.75	0.71	0.77	0.74	0.70	0.69
5	0.79	0.72	0.67	0.78	0.72	0.67	0.76	0.71	0.66	0.74	0.69	0.66	0.73	0.68	0.65	0.64
6	0.74	0.67	0.62	0.73	0.66	0.62	0.71	0.66	0.61	0.70	0.65	0.61	0.68	0.64	0.61	0.59
7	0.69	0.62	0.58	0.68	0.62	0.58	0.67	0.61	0.57	0.66	0.61	0.57	0.64	0.60	0.57	0.55
8	0.65	0.58	0.54	0.64	0.58	0.54	0.63	0.58	0.54	0.62	0.57	0.53	0.61	0.56	0.53	0.52
9	0.61	0.55	0.51	0.61	0.55	0.50	0.60	0.54	0.50	0.59	0.54	0.50	0.58	0.53	0.50	0.48
10	0.58	0.52	0.48	0.57	0.52	0.48	0.57	0.51	0.47	0.56	0.51	0.47	0.55	0.50	0.47	0.46



# 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	1700.51	1685.93	1642.95	1583.86	1514.03	1428.85	1332.16	1236.24	1128.04
30.0	1702.04	1688.99	1649.86	1593.07	1521.71	1440.36	1344.44	1243.15	1130.34
60.0	1702.04	1680.55	1633.74	1572.35	1506.05	1416.12	1323.49	1217.06	1107.25
90.0	1702.81	1682.86	1636.81	1575.42	1502.52	1419.65	1322.96	1225.50	1115.76
120.0	1700.51	1675.95	1628.37	1567.75	1504.44	1414.50	1320.65	1212.84	1101.64
150.0	1700.51	1682.86	1639.12	1580.79	1508.66	1422.72	1326.79	1227.80	1118.07
180.0	1700.51	1679.79	1632.21	1570.82	1508.81	1422.87	1328.79	1230.18	1121.75
210.0	1702.04	1683.62	1639.88	1585.40	1520.63	1437.07	1334.54	1234.63	1122.06
240.0	1702.04	1690.53	1649.86	1592.31	1524.78	1440.36	1342.91	1242.38	1140.32
270.0	1702.81	1685.16	1637.58	1581.56	1518.41	1436.14	1341.07	1238.70	1129.04
300.0	1700.51	1688.99	1647.56	1595.37	1525.54	1445.74	1348.28	1246.99	1143.39
330.0	1700.51	1682.09	1636.05	1580.79	1511.88	1428.62	1333.32	1229.34	1123.13
360.0	1700.51	1685.93	1642.95	1583.86	1514.03	1428.85	1332.16	1236.24	1128.04
C/γ(°)	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0
0.0	1016.77	913.94	807.28	709.82	615.44	535.63	461.19	396.73	343.78
30.0	1019.08	913.94	805.74	706.75	614.67	536.40	462.73	398.27	345.86
60.0	997.59	892.15	786.33	689.03	602.85	521.89	454.36	387.14	334.73
90.0	1006.03	896.30	795.77	697.54	606.23	528.72	457.36	392.90	340.71
120.0	990.91	885.63	780.42	684.04	598.63	517.98	447.23	384.30	332.04
150.0	1013.70	903.97	796.54	698.31	607.76	530.26	456.59	395.20	339.79
180.0	1012.71	900.90	798.45	699.00	606.61	528.65	455.82	390.75	334.73
210.0	1016.77	906.27	796.84	702.92	612.06	528.03	456.28	395.51	338.03
240.0	1026.75	919.32	818.02	717.50	626.18	542.53	470.40	406.71	352.38
270.0	1025.98	916.86	809.04	715.12	622.96	538.54	467.41	405.17	345.78
300.0	1029.05	925.46	818.79	716.73	626.18	545.60	469.63	404.41	351.30
330.0	1013.01	907.88	798.30	700.54	610.29	530.95	459.81	395.35	340.56
360.0	1016.77	913.94	807.28	709.82	615.44	535.63	461.19	396.73	343.78
C/γ(°)	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0
0.0	293.98	254.46	217.70	187.16	162.15	141.35	123.47	109.04	97.07
30.0	296.59	253.92	219.16	188.54	163.14	142.81	125.24	110.81	98.68
60.0	287.38	248.32	213.10	183.63	160.15	138.51	122.47	108.43	97.23
90.0	292.60	251.24	215.86	187.55	162.53	142.35	124.93	110.35	98.30
120.0	284.24	243.18	210.11	181.10	156.85	137.51	120.63	106.74	95.31
150.0	293.52	251.47	215.33	185.17	160.00	139.89	122.24	108.58	95.85
180.0	288.99	247.33	213.56	183.63	158.54	137.51	121.02	106.51	94.46
210.0	290.38	250.63	214.10	185.94	159.54	139.51	122.55	109.12	97.07
240.0	301.66	259.37	221.93	192.07	166.37	144.11	126.85	112.34	99.68
270.0	297.13	256.92	219.93	191.23	165.52	143.58	126.08	112.04	99.45
300.0	300.27	257.99	220.70	191.38	165.98	144.80	126.85	112.27	100.30
330.0	292.60	252.70	214.17	185.94	160.69	140.20	123.16	108.66	97.07
360.0	293.98	254.46	217.70	187.16	162.15	141.35	123.47	109.04	97.07
C/γ(°)	54.0	56.0	58.0	60.0	62.0	64.0	66.0	68.0	70.0
0.0	86.79	78.20	70.45	64.54	58.86	53.95	49.34	44.97	40.75
30.0	89.17	80.73	73.51	67.38	61.77	56.86	52.10	47.65	43.20
60.0	87.48	79.27	72.36	66.30	60.93	55.86	51.49	47.04	42.59
90.0	88.25	80.19	72.75	66.76	61.31	56.33	51.87	47.27	42.67
120.0	86.18	78.12	71.37	65.38	59.93	55.10	50.80	46.50	42.21
150.0	86.25	77.81	70.83	64.31	58.70	54.02	49.57	44.97	40.75
180.0	85.03	76.43	69.06	62.77	57.55	52.57	48.04	43.89	39.67
210.0	87.48	79.58	72.21	65.92	60.39	55.56	50.80	46.35	42.21
240.0	89.78	81.27	73.98	67.30	62.08	56.94	52.49	47.81	43.05
270.0	89.32	81.03	73.51	67.15	61.62	56.79	52.03	47.50	42.82
300.0	89.55	81.50	73.98	67.76	62.39	57.17	52.80	48.27	43.89
330.0	87.17	78.58	71.06	64.92	59.32	54.33	49.80	45.28	40.98
360.0	86.79	78.20	70.45	64.54	58.86	53.95	49.34	44.97	40.75

# 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	36.68	32.77	28.32	24.25	19.80	15.04	10.36	5.53	1.15
30.0	39.06	34.76	30.31	26.01	21.18	16.27	11.13	6.29	1.30
60.0	38.06	33.61	29.01	24.33	19.72	14.66	10.13	5.22	0.77
90.0	38.14	34.07	29.62	25.17	20.41	15.27	10.44	5.37	0.84
120.0	38.14	33.84	29.31	24.63	20.03	14.89	9.98	4.76	0.54
150.0	36.60	32.38	28.32	23.94	19.49	14.73	9.82	5.06	0.77
180.0	35.68	31.39	27.32	22.94	18.65	13.81	9.36	4.45	0.69
210.0	37.91	33.46	28.93	24.56	19.64	14.73	9.98	4.99	0.61
240.0	38.83	34.15	29.77	25.09	20.64	15.19	10.74	5.91	1.15
270.0	38.45	33.99	29.62	25.09	20.26	15.50	10.74	5.53	1.00
300.0	39.60	35.53	30.93	26.55	21.49	16.73	11.66	6.75	1.69
330.0	36.91	32.69	28.39	24.33	19.88	15.19	10.51	5.60	1.00
360.0	36.68	32.77	28.32	24.25	19.80	15.04	10.36	5.53	1.15

C/γ(°)	90.0
0.0	0.15
30.0	0.00
60.0	0.08
90.0	0.00
120.0	0.00
150.0	0.00
180.0	0.00
210.0	0.08
240.0	0.08
270.0	0.08
300.0	0.08
330.0	0.08
360.0	0.15