

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: F1012A-12-UN (60-OL-12WN-AJ, CT)

报告编号:

电压(V): 220.4000

测试编号: 20210417001

电流(A): 0.1220

光源规格型号: OL

功率(W): 14.1000

每个光源光通量(lm)

功率因数: 0.5220

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): 1258.82

灯具效能(lm/w): 89.28

中心光强(cd): 1259.034

最大光强(cd): 1264.175

最大光强角度: C=180.0  $\gamma$ =4.0

半峰边角(50%Imax): [C0/180]Total=52.9

[C90/270]Total=53.1

光束扩散角(10%Imax): [C0/180]Total=97.8

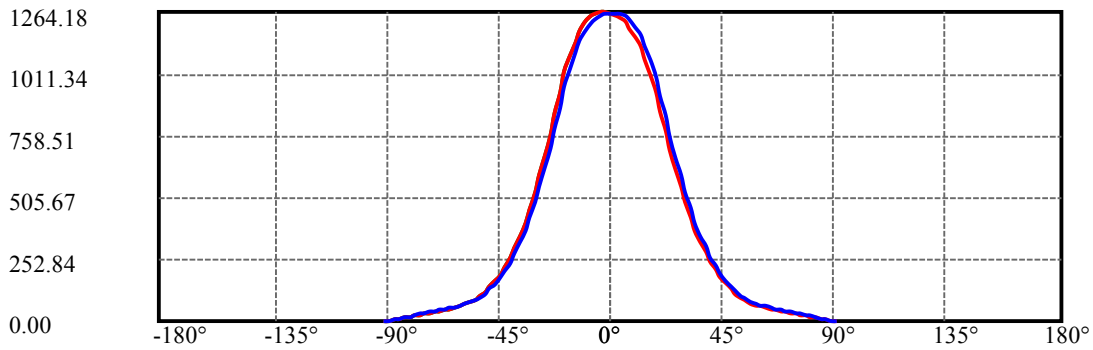
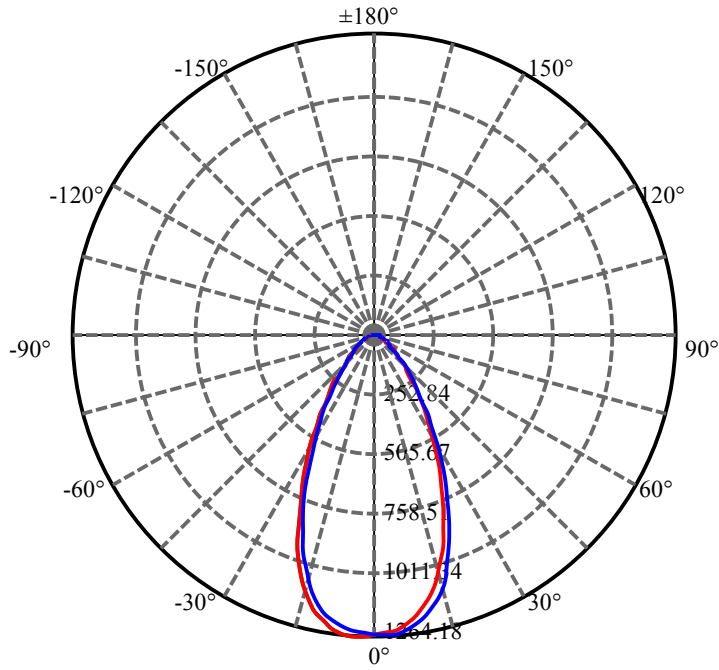
[C90/270]Total=98.3

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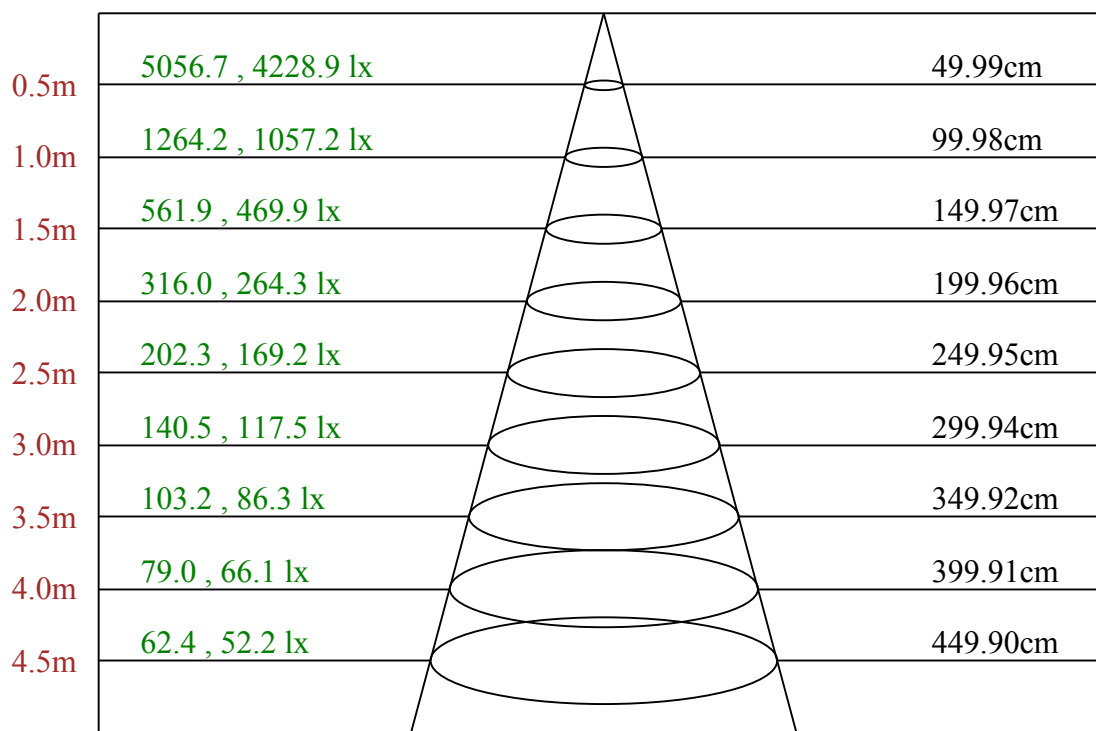
测试设备: GMS1800  
环境温度(°C): 25.0

测试日期: 2021/4/17  
环境湿度(%): 60.0%

测试人员: anpeilou  
测试距离(m): 8.76

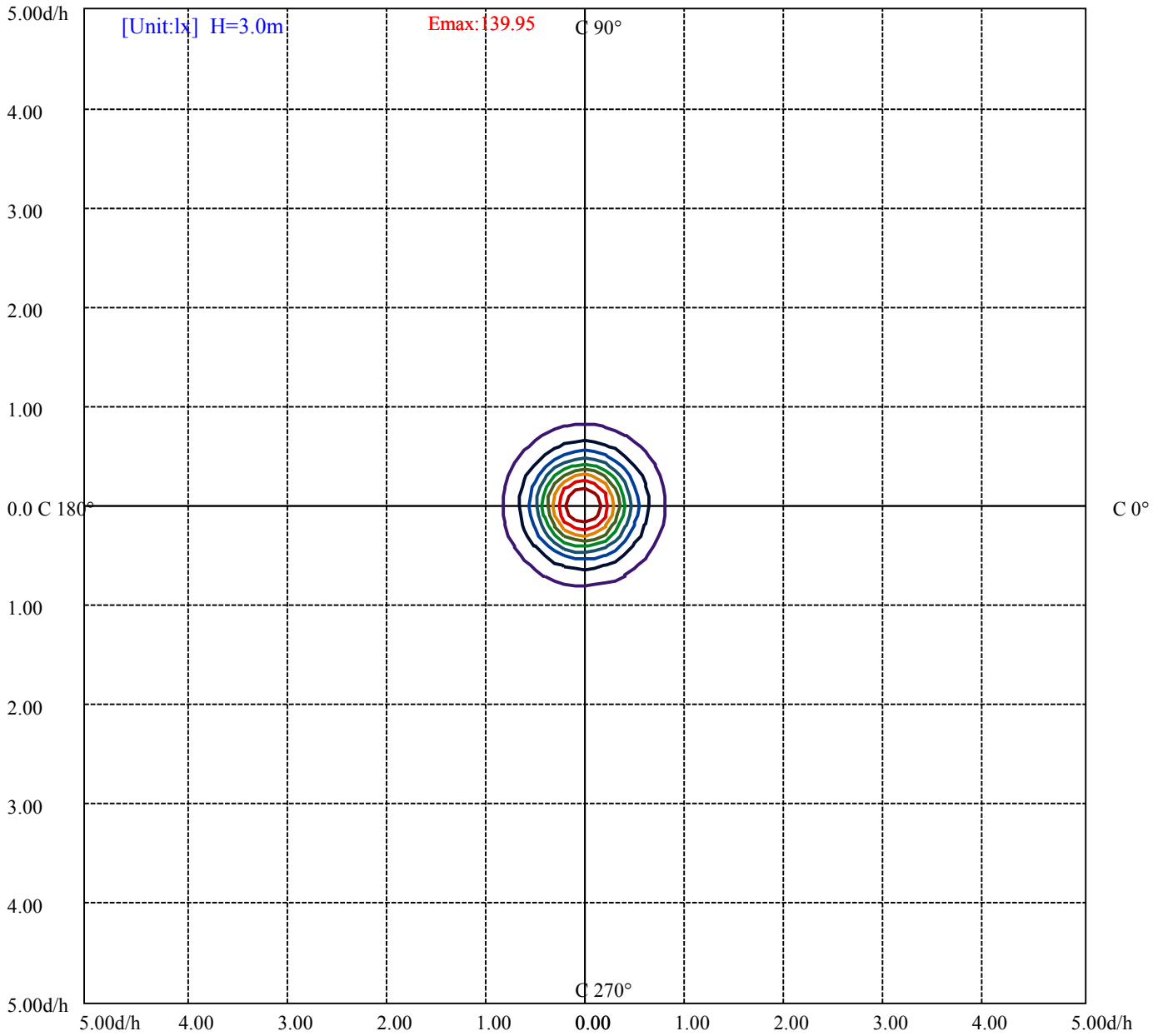


C180(Max): ——  
C0/C180: ——  
C90/C270: ——



Max , Ave C180面光束角53.11

ROLED 投光灯  
平面等照度曲线



(10%Emax) 13.99478	—
(20%Emax) 27.98956	—
(30%Emax) 41.98444	—
(40%Emax) 55.97922	—
(50%Emax) 69.974	—
(60%Emax) 83.96878	—
(70%Emax) 97.96366	—
(80%Emax) 111.9589	—
(90%Emax) 125.9533	—

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测试日期: 2021/4/17  
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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

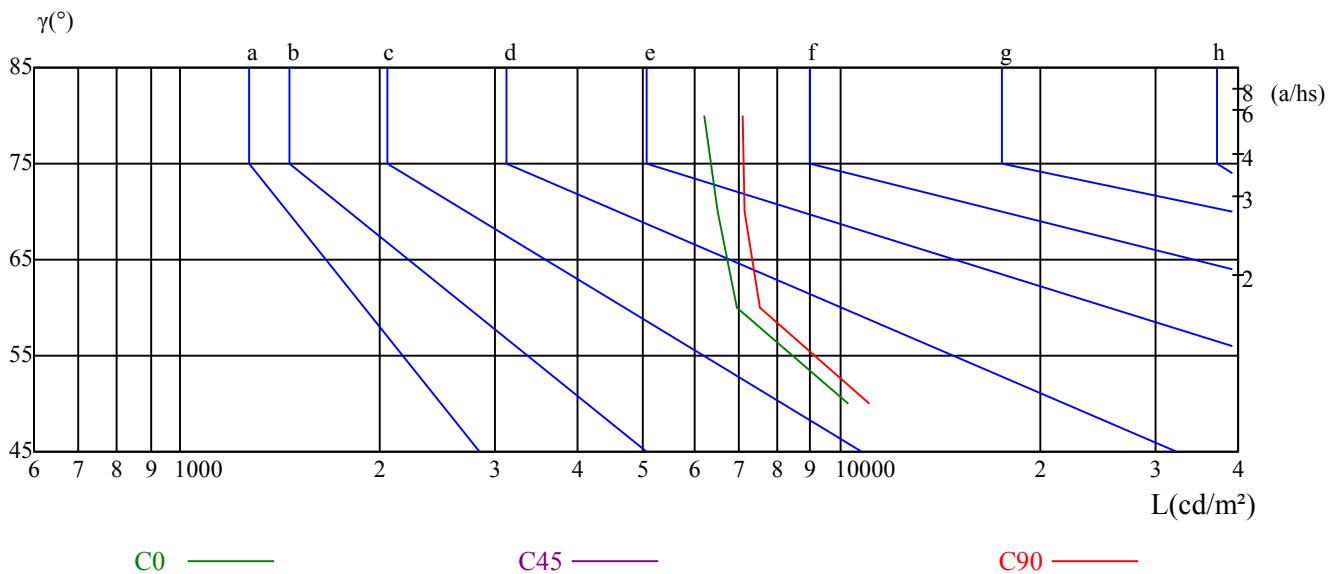
$\gamma$	45	50	55	60	65	70	75	80	85
C0	0	10289	0	6949	0	6498	0	6232	0
C45	0	0	0	0	0	0	0	0	0
C90	0	11089	0	7557	0	7138	0	7107	0

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

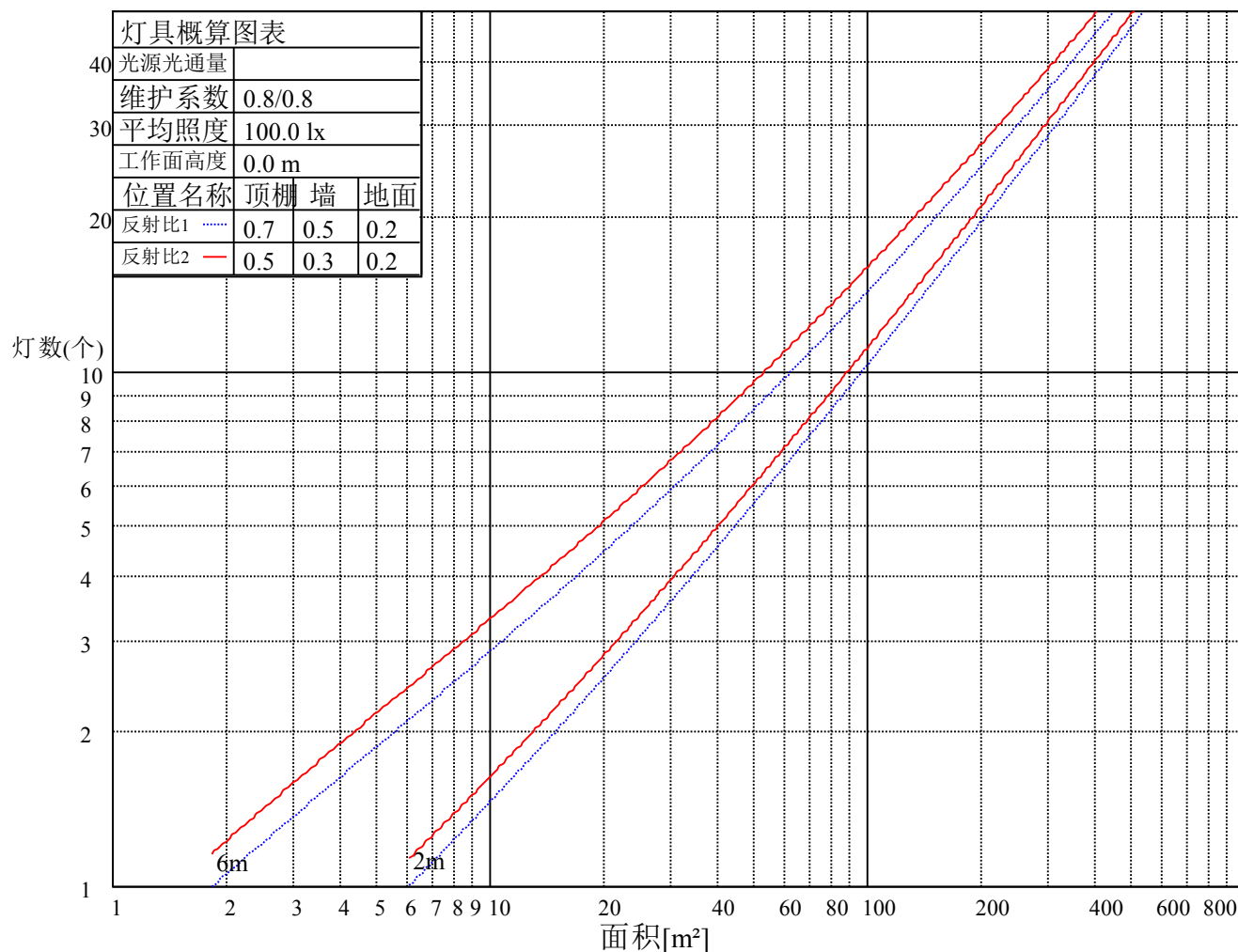
亮度限制曲线



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	15.46	16.68	15.83	17.00	17.31	15.29	16.51	15.66	16.83	17.14
	3H	17.14	18.23	17.52	18.56	18.92	16.88	17.97	17.26	18.30	18.67
	4H	17.87	18.88	18.27	19.23	19.62	17.59	18.60	17.99	18.95	19.33
	6H	18.46	19.39	18.87	19.76	20.16	18.15	19.08	18.57	19.45	19.85
	8H	18.65	19.53	19.08	19.92	20.33	18.34	19.22	18.77	19.61	20.01
	12H	18.86	19.71	19.30	20.09	20.52	18.53	19.38	18.97	19.76	20.19
4H	2H	15.93	16.94	16.33	17.29	17.68	15.79	16.80	16.20	17.16	17.54
	3H	17.89	18.72	18.30	19.13	19.53	17.66	18.49	18.07	18.89	19.30
	4H	18.78	19.52	19.21	19.94	20.39	18.51	19.26	18.95	19.68	20.12
	6H	19.38	20.03	19.85	20.47	20.94	19.10	19.74	19.56	20.19	20.65
	8H	19.64	20.24	20.11	20.68	21.16	19.34	19.94	19.81	20.39	20.86
	12H	19.86	20.39	20.35	20.88	21.35	19.55	20.08	20.04	20.56	21.04
8H	4H	19.07	19.67	19.54	20.12	20.59	18.84	19.44	19.31	19.89	20.36
	6H	19.85	20.34	20.36	20.84	21.32	19.60	20.08	20.10	20.58	21.07
	8H	20.19	20.63	20.72	21.15	21.64	19.92	20.36	20.45	20.88	21.37
	12H	20.85	21.23	21.37	21.73	22.30	20.56	20.94	21.08	21.44	22.01
12H	4H	19.09	19.62	19.58	20.10	20.58	18.87	19.40	19.36	19.88	20.36
	6H	20.44	20.36	20.45	20.82	21.37	20.19	20.11	20.21	20.58	21.13
	8H	20.31	20.70	20.83	21.19	21.77	20.05	20.44	20.57	20.93	21.51
对应照射距离，改变观察者位置S											
S = 1.0H	0.8/-1.0					0.7/-1.1					
S = 1.5H	1.4/-1.2					1.3/-1.3					
S = 2.0H	2.7/-1.2					2.6/-1.3					
标准表格	BK3					BK3					
更正系数	3.1					2.9					

# 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	1.05	1.03	1.06	1.04	1.01	1.02	1.00	0.98	0.98	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	0.86	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	0.79	0.76	0.74
4	0.84	0.77	0.72	0.83	0.76	0.72	0.80	0.75	0.71	0.78	0.74	0.70	0.76	0.72	0.69	0.67
5	0.78	0.71	0.66	0.77	0.70	0.65	0.75	0.69	0.65	0.73	0.68	0.64	0.71	0.67	0.64	0.62
6	0.72	0.65	0.60	0.71	0.65	0.60	0.70	0.64	0.60	0.68	0.63	0.59	0.67	0.62	0.59	0.57
7	0.67	0.60	0.56	0.67	0.60	0.56	0.65	0.59	0.55	0.64	0.59	0.55	0.63	0.58	0.55	0.53
8	0.63	0.56	0.52	0.62	0.56	0.52	0.61	0.55	0.51	0.60	0.55	0.51	0.59	0.54	0.51	0.49
9	0.59	0.53	0.48	0.59	0.52	0.48	0.58	0.52	0.48	0.57	0.52	0.48	0.56	0.51	0.48	0.46
10	0.56	0.49	0.45	0.55	0.49	0.45	0.55	0.49	0.45	0.54	0.48	0.45	0.53	0.48	0.45	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	1259.03	1251.05	1240.77	1222.51	1197.18	1164.11	1120.37	1068.34	1003.73
30.0	1259.88	1255.50	1247.22	1233.33	1208.92	1175.85	1134.03	1084.69	1020.15
60.0	1259.19	1257.19	1251.74	1239.47	1216.75	1184.68	1147.69	1098.19	1035.19
90.0	1258.42	1259.65	1256.35	1248.37	1230.72	1202.63	1170.02	1126.12	1069.72
120.0	1258.96	1261.18	1260.42	1254.58	1236.63	1210.15	1175.01	1128.50	1071.10
150.0	1258.04	1262.18	1263.56	1259.80	1246.07	1222.51	1191.58	1148.15	1092.21
180.0	1259.03	1263.10	1264.18	1259.80	1244.61	1221.05	1188.59	1142.32	1086.14
210.0	1259.88	1262.79	1263.02	1256.58	1238.93	1210.84	1172.24	1126.51	1062.13
240.0	1259.19	1258.04	1254.43	1246.45	1229.49	1202.02	1164.65	1117.22	1058.75
270.0	1258.42	1252.74	1245.99	1234.02	1213.45	1182.99	1144.85	1095.66	1028.51
300.0	1258.96	1251.13	1241.38	1227.65	1202.79	1170.40	1128.35	1076.78	1012.17
330.0	1258.04	1248.52	1235.78	1219.51	1192.66	1156.74	1112.46	1057.14	989.15
360.0	1259.03	1251.05	1240.77	1222.51	1197.18	1164.11	1120.37	1068.34	1003.73
C/γ(°)	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0
0.0	933.28	857.54	779.42	696.16	621.88	549.90	486.06	427.12	371.87
30.0	948.78	874.89	794.00	713.43	635.54	567.24	500.48	442.01	385.68
60.0	964.28	889.77	805.28	721.87	646.97	574.53	509.08	442.55	388.68
90.0	996.97	922.00	836.44	753.41	670.84	594.64	526.65	459.35	399.57
120.0	1002.04	924.23	839.28	757.02	672.45	597.71	525.96	458.89	398.88
150.0	1023.22	943.18	860.15	771.37	685.80	606.23	534.40	465.26	407.55
180.0	1016.93	935.82	845.88	758.63	672.45	594.95	524.12	457.51	397.58
210.0	994.44	914.33	824.85	739.44	660.40	580.44	509.15	447.00	387.83
240.0	984.47	910.11	821.55	732.84	652.58	580.37	507.24	443.31	387.99
270.0	954.54	872.35	787.71	702.92	628.63	553.43	485.75	423.51	369.26
300.0	942.95	866.60	788.33	703.99	626.95	552.97	485.29	427.43	370.57
330.0	920.31	841.73	762.31	682.20	606.99	534.48	471.55	411.70	356.83
360.0	933.28	857.54	779.42	696.16	621.88	549.90	486.06	427.12	371.87
C/γ(°)	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0
0.0	325.29	282.39	242.64	208.50	180.33	153.78	131.30	113.49	97.30
30.0	335.34	291.14	251.78	218.63	188.16	162.68	139.66	119.79	103.14
60.0	337.88	294.21	253.23	217.70	188.16	161.00	137.97	118.25	102.37
90.0	347.31	302.88	260.68	224.30	193.99	166.21	142.66	122.32	105.74
120.0	348.77	301.20	259.22	224.84	192.69	164.68	140.66	121.32	104.36
150.0	353.99	305.88	262.83	225.92	194.91	166.21	143.12	122.17	104.36
180.0	344.55	299.43	257.22	222.23	189.85	161.76	137.90	118.33	101.29
210.0	338.95	293.52	252.24	219.09	186.70	160.84	138.05	119.25	102.37
240.0	336.19	291.45	250.24	216.63	186.32	159.15	137.44	118.33	102.37
270.0	320.53	276.64	239.42	206.19	178.72	151.86	131.45	113.03	97.30
300.0	323.30	280.32	240.96	208.34	177.80	153.17	131.53	114.26	98.53
330.0	312.63	270.81	234.36	200.36	173.43	148.33	128.38	109.96	94.54
360.0	325.29	282.39	242.64	208.50	180.33	153.78	131.30	113.49	97.30
C/γ(°)	54.0	56.0	58.0	60.0	62.0	64.0	66.0	68.0	70.0
0.0	84.18	74.05	66.15	59.63	54.41	49.80	45.51	41.82	38.14
30.0	90.09	79.27	70.60	64.08	58.24	53.72	49.34	45.20	41.52
60.0	89.09	78.43	70.52	63.85	58.47	53.72	49.88	45.89	42.13
90.0	91.62	80.80	71.90	64.84	59.47	54.56	50.11	45.89	41.90
120.0	90.47	79.88	70.98	64.08	58.32	53.64	49.50	45.66	41.75
150.0	90.01	79.19	69.75	62.23	56.56	51.34	47.04	42.97	39.21
180.0	87.40	76.97	67.99	61.01	55.10	50.34	45.97	41.98	38.37
210.0	89.09	78.96	70.37	63.23	57.40	52.80	48.50	44.66	40.75
240.0	88.32	78.50	69.91	63.54	58.17	53.26	49.34	45.28	41.05
270.0	85.64	75.66	68.07	61.70	56.48	51.87	47.96	43.66	39.60
300.0	86.02	76.74	68.53	62.16	56.94	52.64	48.50	44.89	40.90
330.0	82.80	72.98	64.92	58.63	53.49	48.88	45.04	41.28	37.45
360.0	84.18	74.05	66.15	59.63	54.41	49.80	45.51	41.82	38.14

# 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	34.53	30.85	27.01	22.94	18.57	13.89	9.36	4.45	0.61
30.0	37.68	33.69	29.54	25.40	20.95	16.19	10.97	6.06	1.15
60.0	37.91	33.69	29.24	24.94	20.34	15.81	10.90	5.91	1.15
90.0	37.75	33.92	29.85	25.71	21.18	16.50	11.59	6.60	1.69
120.0	37.83	33.99	30.08	25.78	21.26	16.50	11.59	6.60	1.61
150.0	35.45	31.85	27.93	23.87	19.95	15.19	10.59	6.22	1.38
180.0	34.69	31.00	27.09	23.25	19.03	14.58	9.90	5.22	1.00
210.0	36.83	32.69	28.70	24.48	19.95	15.19	10.21	5.06	0.69
240.0	36.91	33.07	28.70	24.33	19.95	14.89	10.28	5.14	0.84
270.0	35.91	31.77	27.78	23.48	18.88	14.04	9.52	4.14	0.54
300.0	36.99	33.07	29.16	24.79	20.26	15.27	10.13	4.91	0.69
330.0	33.99	29.93	26.09	22.10	17.80	13.12	8.59	3.99	0.46
360.0	34.53	30.85	27.01	22.94	18.57	13.89	9.36	4.45	0.61

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