

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(5015-OL-48WN-AA, P1)

报告编号:

电压(V): 219.5000

测试编号: 20210421005

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): 5221.47

灯具效能(lm/w): 95.63

中心光强(cd): 15303.010

最大光强(cd): 15654.470

最大光强角度:  $C=30.0$   $\gamma=0.0$

半峰边角(50%Imax): [C0/180]Total=51.6

[C90/270]Total=11.6

光束扩散角(10%Imax): [C0/180]Total=77.8

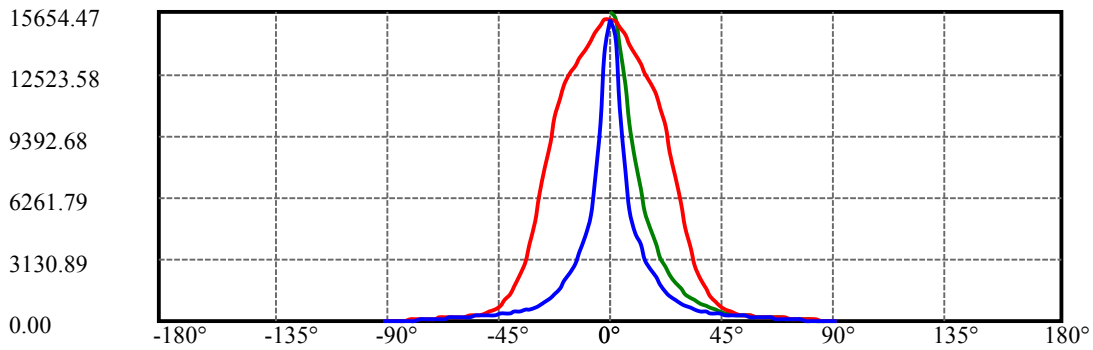
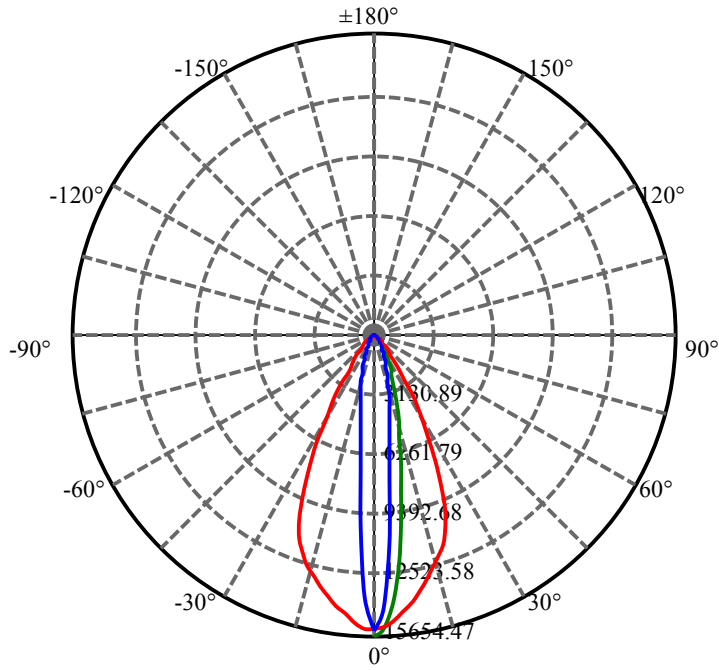
[C90/270]Total=42.9

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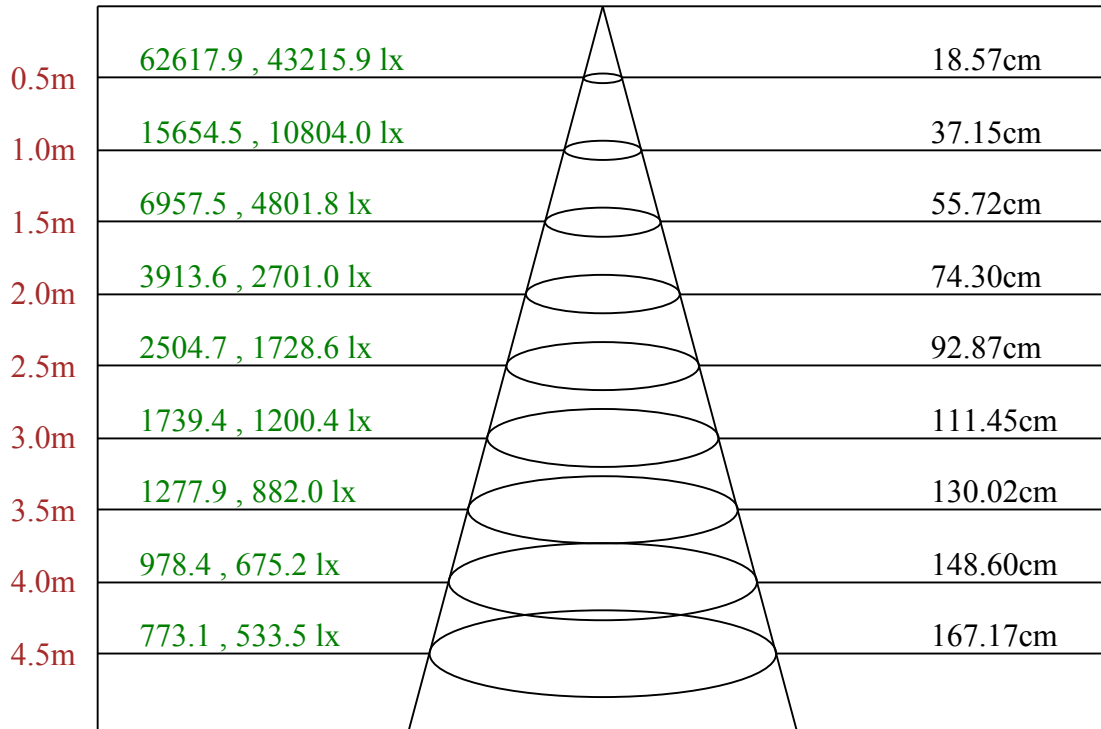
测试设备: GMS1800  
环境温度(°C): 25.0

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

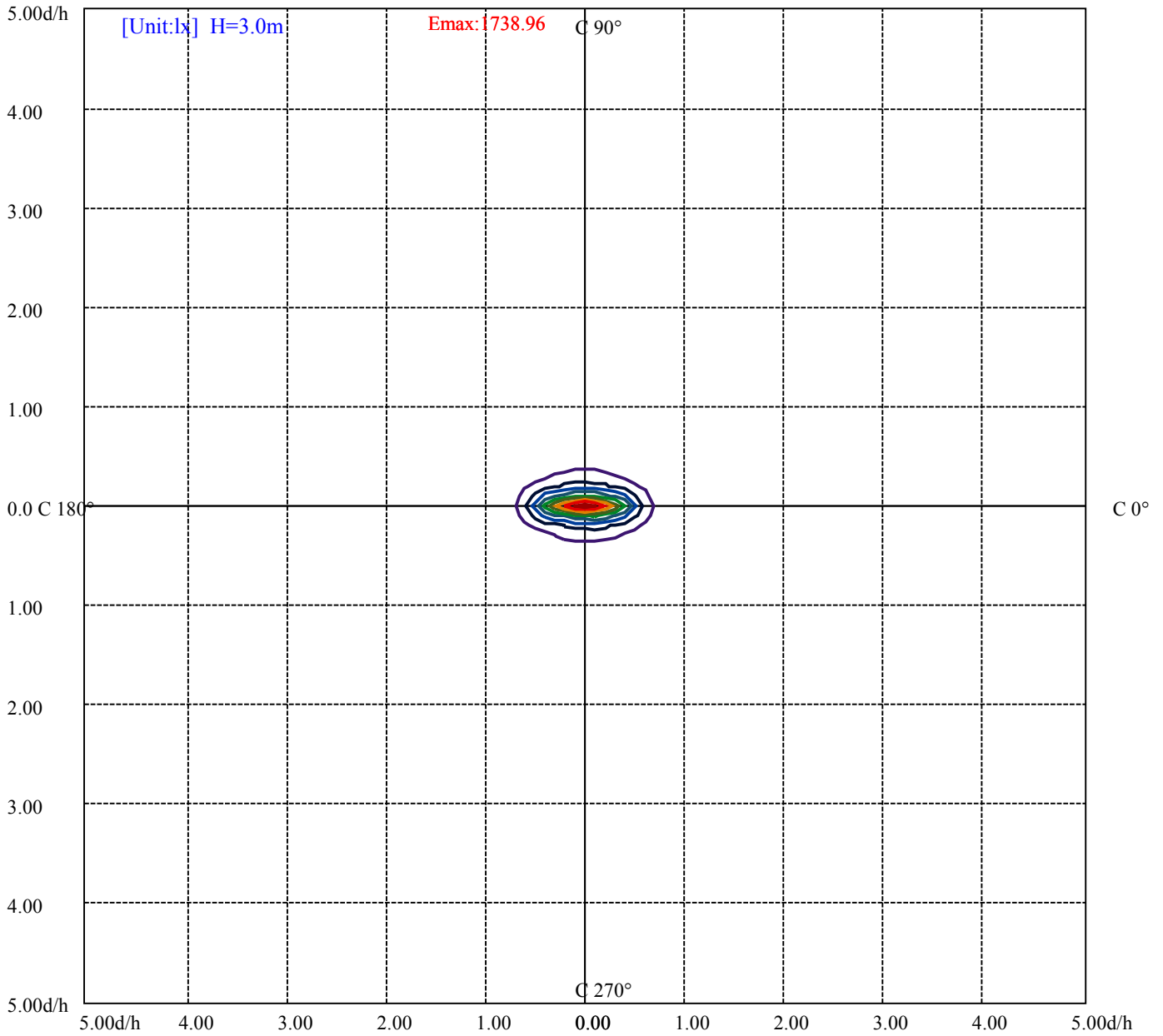


C30(Max): —  
C0/C180: —  
C90/C270: —



Max , Ave    C30面光束角21.04

ROLED 投光灯  
平面等照度曲线



(10%Emax) 173.8956	—
(20%Emax) 347.79	—
(30%Emax) 521.6855	—
(40%Emax) 695.5811	—
(50%Emax) 869.4755	—
(60%Emax) 1043.371	—
(70%Emax) 1217.267	—
(80%Emax) 1391.167	—
(90%Emax) 1565.056	—

# ROLED 投光灯

## 灯具的亮度限制曲线(灯具无发光侧边)

亮度值表

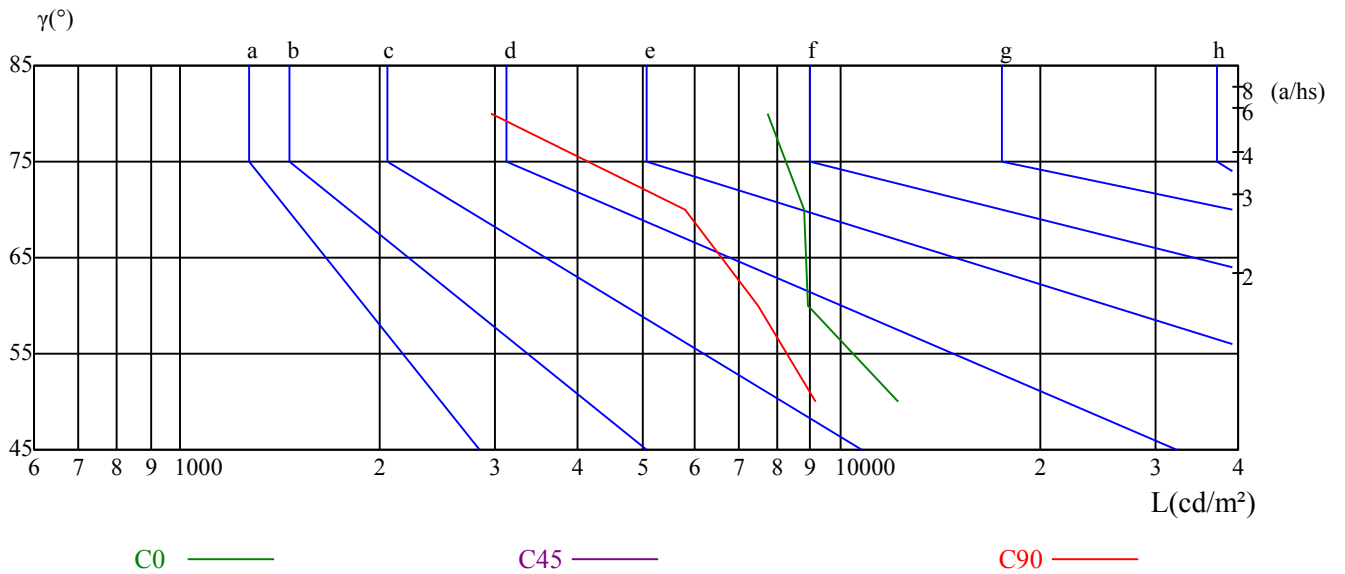
$\gamma$	45	50	55	60	65	70	75	80	85
C0	0	12228	0	8926	0	8798	0	7758	0
C45	0	0	0	0	0	0	0	0	0
C90	0	9148	0	7482	0	5811	0	2964	0

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

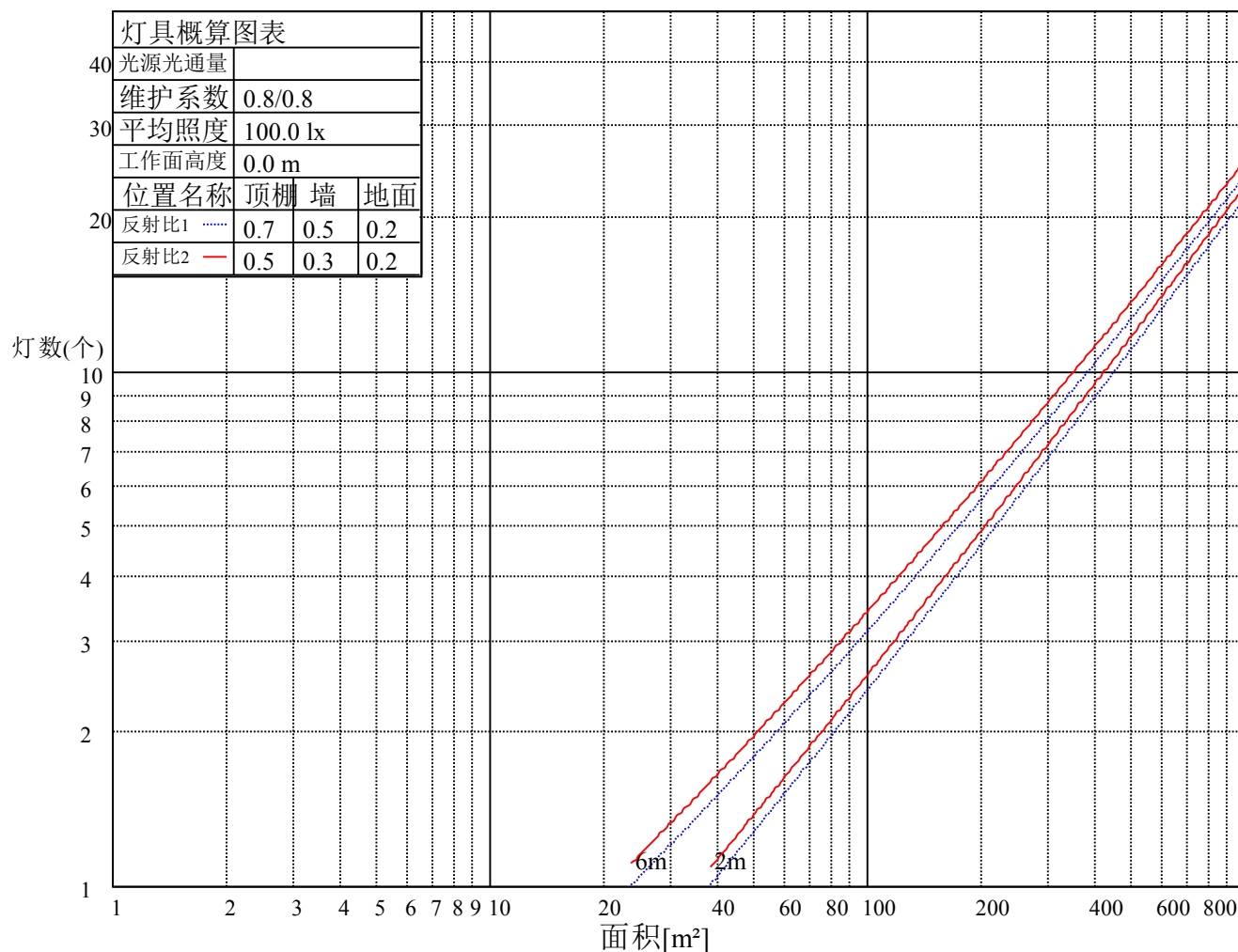
亮度限制曲线



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	9.79	10.89	10.16	11.20	11.52	10.26	11.36	10.63	11.67	11.99
	3H	11.16	12.12	11.54	12.46	12.82	12.05	13.02	12.43	13.35	13.72
	4H	11.54	12.44	11.95	12.79	13.18	12.78	13.68	13.18	14.03	14.42
	6H	11.69	12.51	12.10	12.89	13.28	13.29	14.12	13.71	14.49	14.89
	8H	11.68	12.46	12.11	12.85	13.26	13.43	14.21	13.86	14.60	15.01
	12H	11.65	12.39	12.08	12.77	13.20	13.54	14.28	13.98	14.67	15.10
4H	2H	10.35	11.25	10.75	11.60	11.99	10.72	11.62	11.13	11.97	12.36
	3H	11.96	12.69	12.37	13.10	13.51	12.70	13.44	13.11	13.84	14.25
	4H	12.45	13.10	12.88	13.53	13.97	13.54	14.20	13.98	14.63	15.07
	6H	12.63	13.19	13.10	13.64	14.11	14.07	14.63	14.54	15.08	15.56
	8H	12.62	13.15	13.10	13.60	14.07	14.24	14.76	14.71	15.21	15.69
	12H	12.59	13.05	13.08	13.53	14.01	14.35	14.81	14.84	15.30	15.77
8H	4H	12.70	13.23	13.18	13.68	14.15	13.69	14.22	14.17	14.67	15.14
	6H	12.97	13.39	13.48	13.89	14.38	14.31	14.73	14.82	15.23	15.72
	8H	13.00	13.37	13.53	13.89	14.39	14.53	14.90	15.06	15.42	15.92
	12H	13.60	13.93	14.13	14.43	15.00	15.12	15.44	15.64	15.94	16.52
12H	4H	12.71	13.16	13.20	13.65	14.13	13.66	14.12	14.15	14.60	15.08
	6H	13.36	13.37	13.53	13.84	14.39	14.66	14.67	14.83	15.14	15.69
	8H	13.05	13.37	13.57	13.87	14.45	14.54	14.86	15.06	15.36	15.94
对应照射距离，改变观察者位置S											
S = 1.0H	0.3/-0.5					2.6/-1.4					
S = 1.5H	0.9/-0.9					4.0/-1.5					
S = 2.0H	1.7/-1.3					5.6/-1.4					
标准表格	BK3					BK2					
更正系数	0.4					2.6					

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## 灯具的概算曲线



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	1.10	1.07	1.05	1.08	1.05	1.03	1.04	1.02	1.00	1.00	0.99	0.97	0.97	0.95	0.94	0.93
2	1.02	0.98	0.94	1.00	0.96	0.93	0.97	0.94	0.91	0.94	0.91	0.89	0.91	0.89	0.87	0.85
3	0.95	0.90	0.86	0.93	0.89	0.85	0.91	0.87	0.83	0.88	0.85	0.82	0.86	0.83	0.81	0.79
4	0.89	0.83	0.79	0.88	0.82	0.78	0.85	0.81	0.77	0.83	0.80	0.76	0.82	0.78	0.76	0.74
5	0.83	0.77	0.73	0.82	0.77	0.73	0.81	0.76	0.72	0.79	0.75	0.71	0.77	0.74	0.71	0.69
6	0.79	0.73	0.68	0.78	0.72	0.68	0.76	0.71	0.68	0.75	0.71	0.67	0.74	0.70	0.67	0.65
7	0.74	0.69	0.64	0.74	0.68	0.64	0.73	0.68	0.64	0.71	0.67	0.63	0.70	0.66	0.63	0.62
8	0.71	0.65	0.61	0.70	0.65	0.61	0.69	0.64	0.60	0.68	0.64	0.60	0.67	0.63	0.60	0.59
9	0.67	0.62	0.58	0.67	0.61	0.58	0.66	0.61	0.57	0.65	0.60	0.57	0.64	0.60	0.57	0.56
10	0.64	0.59	0.55	0.64	0.59	0.55	0.63	0.58	0.55	0.62	0.58	0.55	0.62	0.57	0.54	0.53



# ROLED 投光灯

光强数据表(cd)

C/γ(°)	0.0	2.0	4.0	6.0	8.0	10.0	12.0	14.0	16.0
0.0	15303.01	15177.93	14864.84	14439.71	13995.40	13510.42	13034.65	12557.34	12063.15
30.0	15654.47	15224.74	13889.51	11948.04	10006.58	8164.88	6676.17	5563.48	4619.60
60.0	15646.80	14351.47	11253.57	8272.31	6188.12	4950.34	4085.51	3452.42	2902.98
90.0	15309.92	14173.43	10766.29	7581.67	5647.89	4489.15	3890.60	3160.05	2673.54
120.0	15295.34	13866.48	10886.76	8212.46	6212.68	4948.81	4139.99	3476.98	2961.30
150.0	15347.52	14795.01	13444.43	11771.55	9968.21	8303.01	6929.41	5855.08	4911.21
180.0	15303.01	15221.67	14948.48	14569.40	14164.23	13743.70	13342.37	12950.24	12498.25
210.0	15654.47	15002.20	13407.59	11473.04	9400.36	7602.39	6276.37	5171.35	4300.38
240.0	15646.80	14480.39	11357.16	8349.05	6185.05	4911.21	3998.03	3395.64	2840.06
270.0	15309.92	13531.14	10034.98	7018.42	5307.17	4251.26	3542.21	2959.00	2459.44
300.0	15295.34	14472.71	11825.26	8725.07	6568.74	5110.72	4189.87	3511.51	2974.35
330.0	15347.52	15077.40	13943.99	12380.84	10519.19	8727.37	7226.38	6030.81	4994.08
360.0	15303.01	15177.93	14864.84	14439.71	13995.40	13510.42	13034.65	12557.34	12063.15
C/γ(°)	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0
0.0	11469.97	10766.29	9785.58	8599.22	7283.17	5977.86	4734.71	3675.73	2833.15
30.0	3898.27	3252.14	2753.35	2315.94	1969.85	1663.67	1409.67	1194.80	1022.91
60.0	2444.09	2043.52	1714.32	1433.23	1186.98	995.90	837.28	711.05	613.06
90.0	2226.93	1837.87	1505.59	1248.52	1032.12	861.76	738.22	639.22	566.32
120.0	2488.60	2114.89	1772.64	1507.36	1259.80	1056.29	902.36	771.06	667.00
150.0	4143.83	3529.93	2975.12	2532.34	2125.63	1816.38	1543.19	1322.19	1126.51
180.0	11968.00	11232.08	10298.19	9087.27	7760.47	6330.08	5024.78	3885.22	3007.35
210.0	3616.64	3064.13	2573.01	2189.32	1845.54	1530.92	1339.76	1135.03	964.21
240.0	2394.98	1999.01	1652.16	1380.51	1147.23	953.08	804.21	692.94	597.79
270.0	2053.50	1681.32	1395.01	1150.53	964.21	803.90	696.55	606.84	538.31
300.0	2503.18	2105.68	1771.87	1477.20	1235.48	1031.35	880.95	755.10	657.64
330.0	4202.92	3501.54	2917.56	2445.63	2068.08	1738.87	1481.57	1263.02	1072.02
360.0	11469.97	10766.29	9785.58	8599.22	7283.17	5977.86	4734.71	3675.73	2833.15
C/γ(°)	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0
0.0	2157.86	1669.04	1248.52	977.64	761.24	594.72	480.38	389.06	327.52
30.0	870.97	746.66	646.90	557.88	488.05	425.89	387.52	335.80	301.73
60.0	541.77	481.61	435.95	396.66	363.51	334.81	311.09	288.61	268.04
90.0	503.40	458.12	418.99	387.52	361.89	336.72	313.86	291.07	269.12
120.0	586.74	525.12	471.78	430.57	393.43	361.28	333.50	310.02	287.38
150.0	961.52	831.84	713.66	614.67	530.26	462.73	408.24	360.59	321.07
180.0	2289.85	1735.80	1347.51	1036.11	812.11	625.72	500.64	401.49	334.27
210.0	825.70	712.43	613.29	536.01	466.18	409.32	363.43	323.30	291.76
240.0	527.19	474.24	426.66	391.36	360.44	333.58	309.56	288.92	268.43
270.0	487.21	442.85	408.55	378.62	352.07	328.28	307.72	286.31	266.13
300.0	578.60	515.68	465.03	423.59	389.06	360.21	335.34	311.78	289.45
330.0	923.77	790.78	678.74	586.58	511.53	446.69	393.74	349.62	311.09
360.0	2157.86	1669.04	1248.52	977.64	761.24	594.72	480.38	389.06	327.52
C/γ(°)	54.0	56.0	58.0	60.0	62.0	64.0	66.0	68.0	70.0
0.0	285.54	258.30	237.27	220.93	205.66	190.16	177.57	163.91	148.95
30.0	271.34	245.33	224.46	205.73	189.93	173.89	160.00	145.88	131.60
60.0	249.78	231.75	214.33	197.75	182.71	166.98	151.17	136.13	117.72
90.0	249.09	230.83	203.28	185.17	166.90	150.18	133.37	115.18	98.38
120.0	266.20	247.79	229.60	211.95	194.99	179.11	162.38	146.19	127.23
150.0	285.92	257.92	234.59	215.33	190.54	172.58	159.08	145.26	131.76
180.0	288.15	258.99	232.98	209.80	193.84	179.49	167.13	153.94	140.74
210.0	263.59	240.04	219.24	201.74	185.09	170.82	156.47	142.89	127.84
240.0	250.09	233.36	216.09	200.21	184.78	169.90	154.63	138.74	119.94
270.0	247.71	228.98	211.18	194.07	177.26	160.30	132.14	112.96	95.85
300.0	269.43	251.16	232.75	215.94	200.05	183.56	168.06	143.81	122.63
330.0	278.94	251.78	231.75	214.02	188.85	173.35	158.23	144.04	130.45
360.0	285.54	258.30	237.27	220.93	205.66	190.16	177.57	163.91	148.95

# 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	134.21	118.10	100.76	84.33	66.68	48.96	29.77	7.83	1.07
30.0	117.26	102.06	88.32	72.13	51.72	35.76	18.11	5.29	1.15
60.0	100.53	83.41	68.76	52.03	36.37	19.88	5.76	1.46	1.07
90.0	81.88	68.68	53.10	37.91	25.48	12.97	2.15	1.46	1.15
120.0	108.28	83.72	68.30	51.80	35.15	19.26	5.53	1.53	1.07
150.0	116.56	101.37	86.79	70.98	50.49	33.76	16.58	4.60	1.00
180.0	126.16	110.66	93.54	76.58	60.85	43.51	24.79	9.44	1.00
210.0	112.50	96.54	82.57	65.30	44.89	29.39	13.89	2.53	1.00
240.0	102.60	84.87	70.45	54.02	36.22	19.88	6.37	1.53	1.07
270.0	80.80	66.22	51.57	36.83	23.71	11.59	1.69	1.38	1.00
300.0	104.21	86.94	71.75	55.48	37.91	20.87	6.98	1.69	1.07
330.0	115.64	100.37	86.18	69.52	48.50	32.61	15.88	3.30	1.00
360.0	134.21	118.10	100.76	84.33	66.68	48.96	29.77	7.83	1.07
C/γ(°)	90.0								
0.0	0.31								
30.0	0.38								
60.0	0.31								
90.0	0.23								
120.0	0.31								
150.0	0.38								
180.0	0.46								
210.0	0.31								
240.0	0.31								
270.0	0.23								
300.0	0.38								
330.0	0.31								
360.0	0.31								