

浙大三色

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## ROLED

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灯具名称: 投光灯

灯具描述: F1123A-5-24DC-RC-Y(15-XL-5RGBWN-AJ, CT)

报告编号:

电压(V): 23.7000

测试编号: 20210413005

电流(A): 0.8890

光源规格型号: XL

功率(W): 21.0000

每个光源光通量(lm)

功率因数: 1.0230

光源数量: 5

镇流器型号:

发光面长度(mm): 112

发光面宽度(mm): 112

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): 1122.26

灯具效能(lm/w): 53.44

中心光强(cd): 9803.996

最大光强(cd): 9819.344

最大光强角度:  $C=30.0$   $\gamma=2.0$

半峰边角(50%Imax): [C0/180]Total=15.3

[C90/270]Total=15.6

光束扩散角(10%Imax): [C0/180]Total=29.0

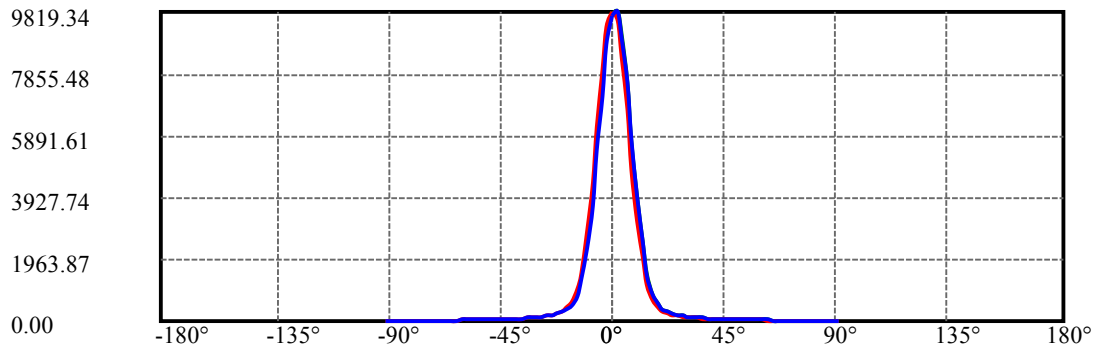
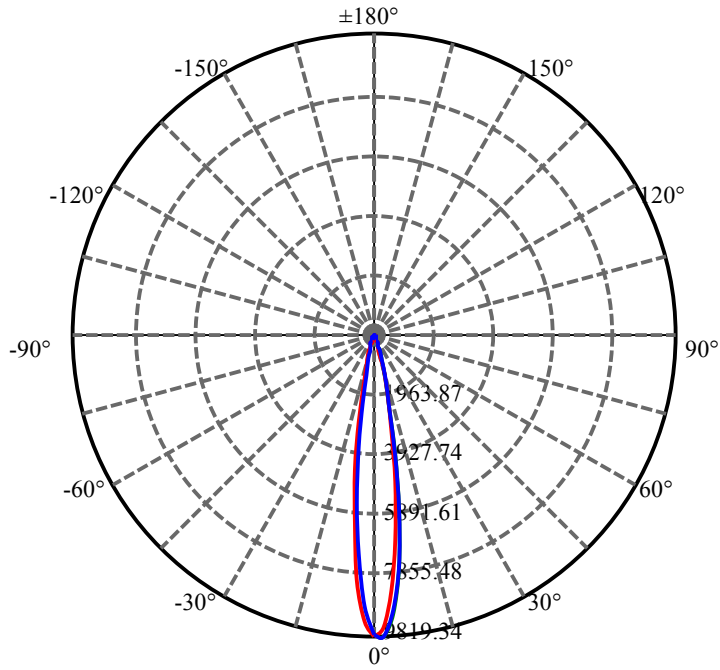
[C90/270]Total=28.9

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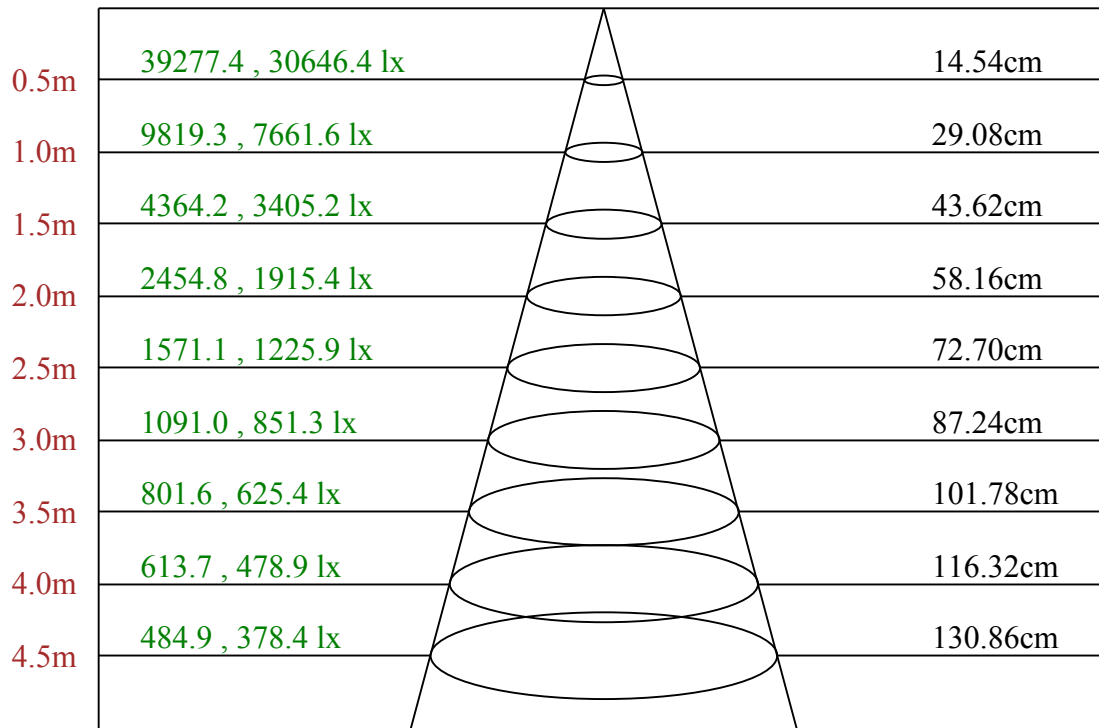
测试设备: GMS1800  
环境温度(°C): 25.0

测试日期: 2021/4/13  
环境湿度(%): 60.0%

测试人员: anpeilou  
测试距离(m): 8.76

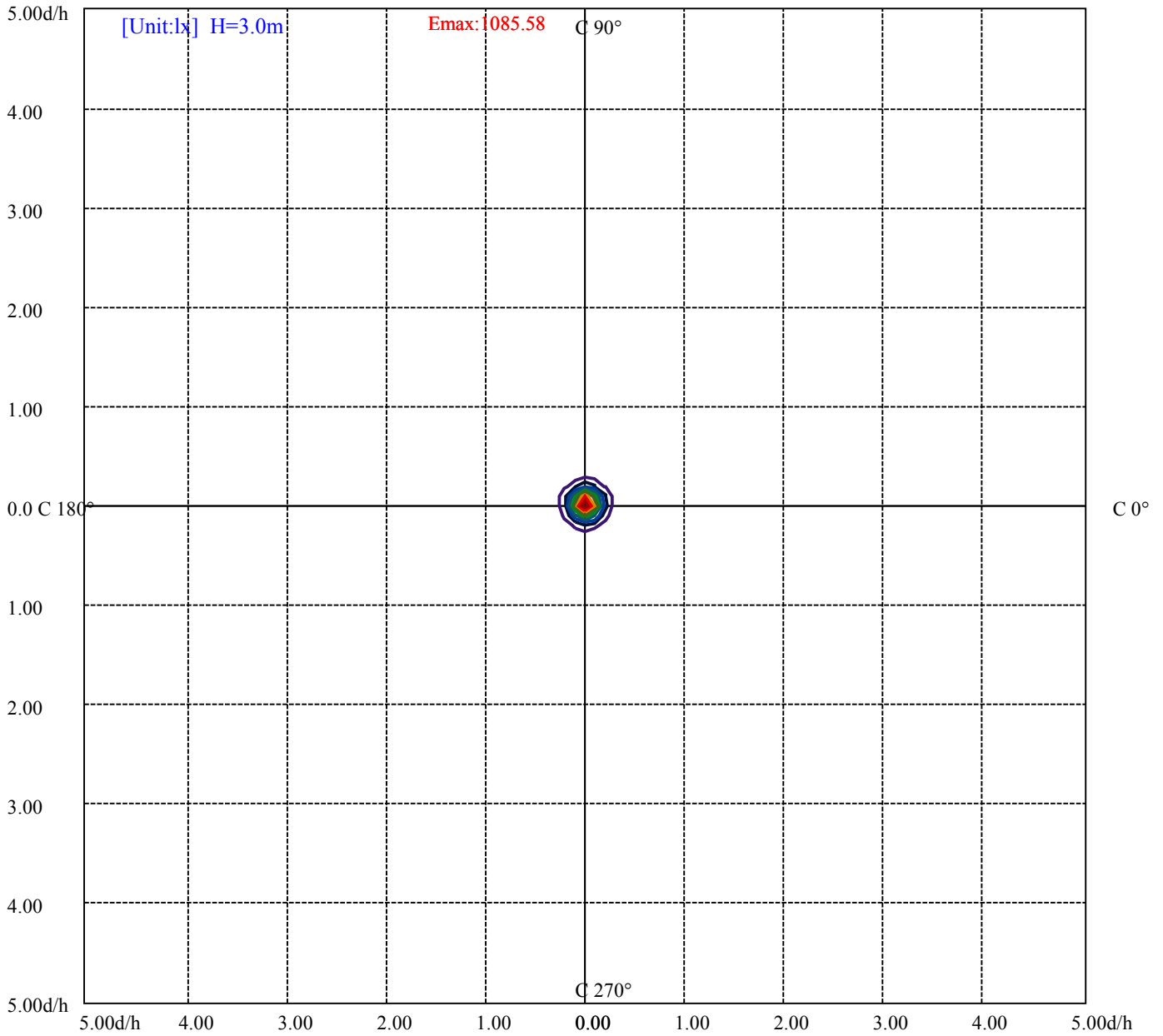


C30(Max): ———  
C0/C180: ———  
C90/C270: ———



Max , Ave    C30面光束角16.54

ROLED 投光灯  
平面等照度曲线



- (10%Emax) 108.5582
- (20%Emax) 217.1167
- (30%Emax) 325.6744
- (40%Emax) 434.2333
- (50%Emax) 542.7911
- (60%Emax) 651.3489
- (70%Emax) 759.9078
- (80%Emax) 868.4656
- (90%Emax) 977.0233

# ROLED 投光灯

## 灯具的亮度限制曲线(灯具无发光侧边)

亮度值表

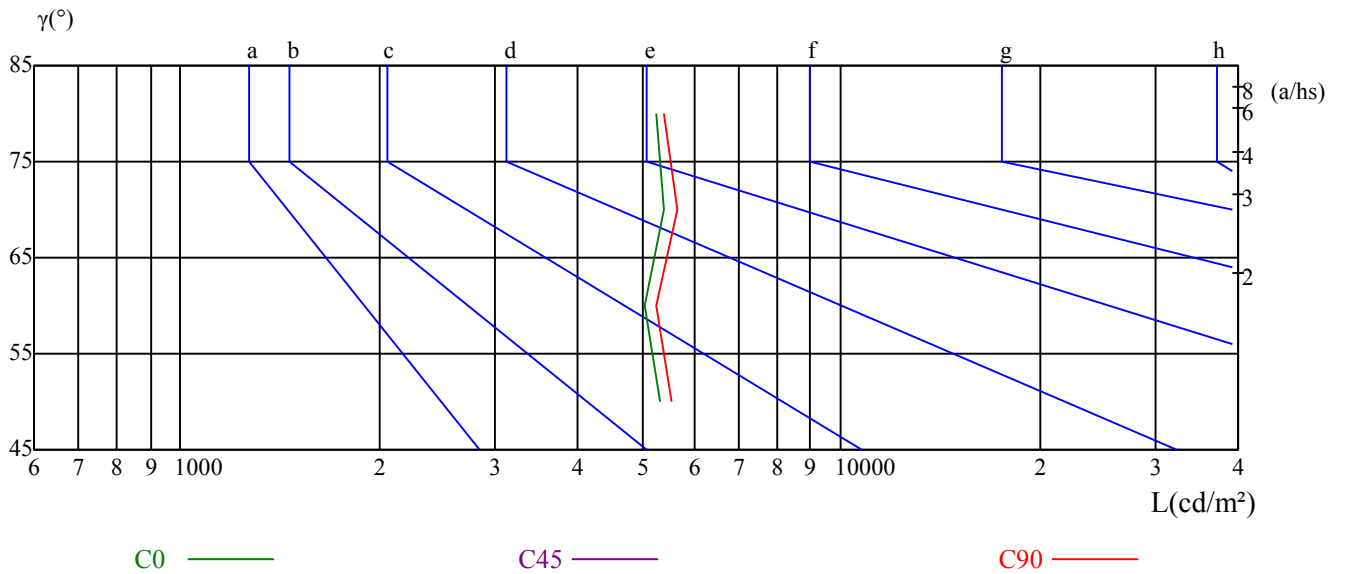
$\gamma$	45	50	55	60	65	70	75	80	85
C0	0	5320	0	5065	0	5384	0	5249	0
C45	0	0	0	0	0	0	0	0	0
C90	0	5548	0	5249	0	5652	0	5390	0

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

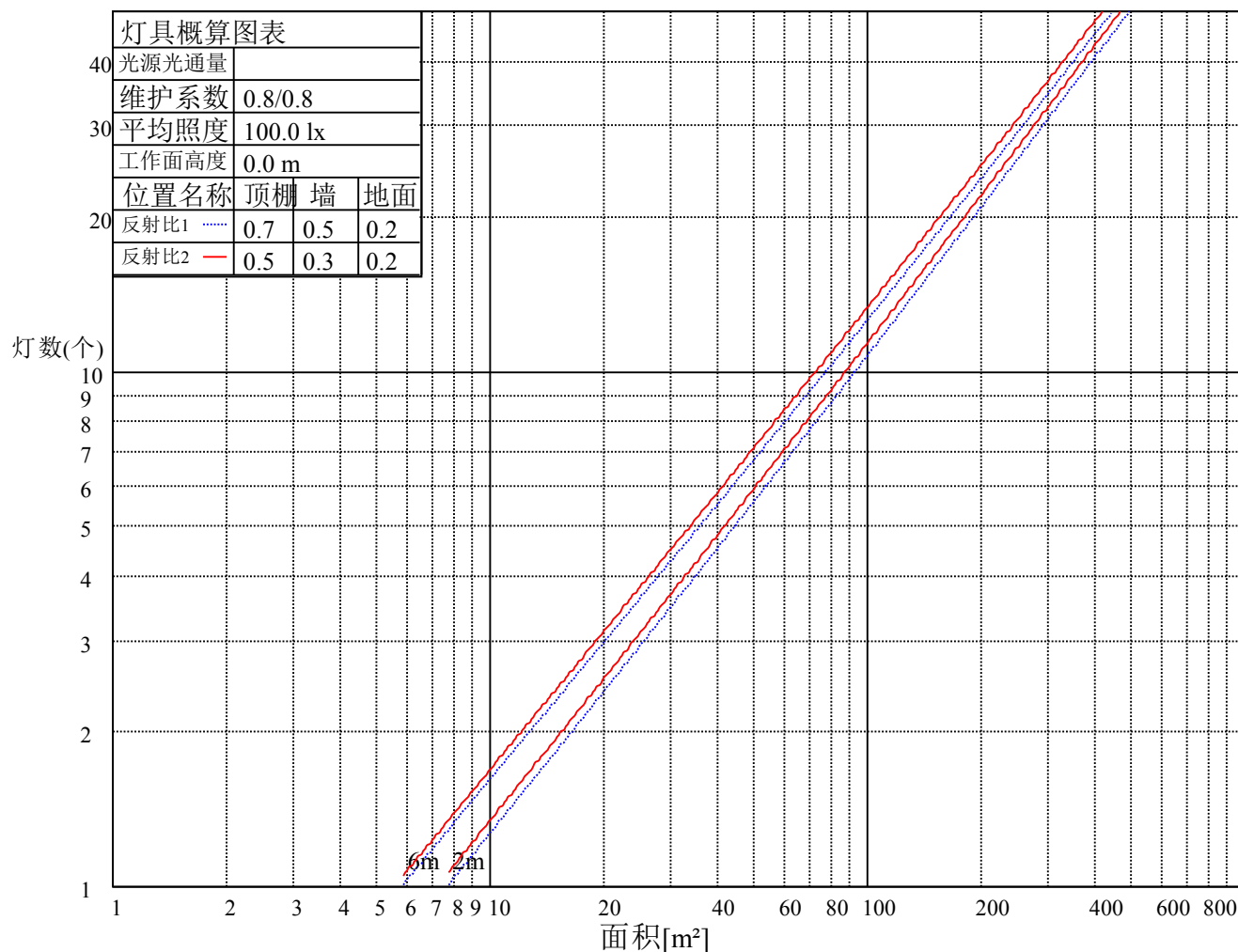
亮度限制曲线



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	12.34	13.37	12.70	13.69	14.00	12.33	13.37	12.70	13.68	13.99
	3H	14.55	15.46	14.93	15.80	16.17	14.55	15.47	14.93	15.80	16.17
	4H	15.43	16.28	15.83	16.63	17.02	15.44	16.29	15.85	16.65	17.04
	6H	16.04	16.82	16.46	17.20	17.59	16.08	16.86	16.50	17.23	17.63
	8H	16.22	16.96	16.66	17.35	17.76	16.26	17.00	16.70	17.39	17.80
	12H	16.42	17.12	16.85	17.50	17.94	16.46	17.16	16.89	17.55	17.98
4H	2H	13.00	13.85	13.40	14.20	14.59	12.99	13.85	13.40	14.20	14.59
	3H	15.42	16.12	15.84	16.53	16.94	15.43	16.13	15.84	16.54	16.94
	4H	16.42	17.05	16.86	17.47	17.92	16.44	17.07	16.88	17.49	17.94
	6H	17.03	17.57	17.50	18.02	18.49	17.06	17.60	17.53	18.05	18.52
	8H	17.26	17.76	17.73	18.21	18.69	17.30	17.80	17.77	18.25	18.72
	12H	17.46	17.89	17.95	18.38	18.86	17.50	17.93	17.99	18.42	18.90
8H	4H	16.74	17.25	17.22	17.70	18.17	16.76	17.26	17.23	17.71	18.18
	6H	17.51	17.91	18.02	18.41	18.89	17.54	17.94	18.05	18.44	18.92
	8H	17.82	18.17	18.35	18.69	19.19	17.85	18.21	18.38	18.73	19.22
	12H	18.45	18.75	18.97	19.25	19.83	18.48	18.79	19.00	19.28	19.86
12H	4H	16.76	17.19	17.25	17.68	18.16	16.77	17.20	17.26	17.69	18.17
	6H	17.88	17.92	18.10	18.39	18.94	17.91	17.95	18.13	18.42	18.97
	8H	17.92	18.23	18.45	18.73	19.31	17.96	18.27	18.48	18.76	19.34
对应照射距离，改变观察者位置S											
S = 1.0H	0.3/-0.7					0.3/-0.7					
S = 1.5H	0.7/-0.6					0.7/-0.6					
S = 2.0H	0.7/-0.6					0.7/-0.7					
标准表格	BKBF					BKBF					
更正系数	2.8					2.7					

# 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	1.12	1.10	1.08	1.10	1.08	1.06	1.06	1.04	1.03	1.02	1.01	1.00	0.99	0.98	0.97	0.95
2	1.06	1.02	1.00	1.04	1.01	0.99	1.01	0.99	0.96	0.98	0.96	0.94	0.95	0.94	0.92	0.91
3	1.01	0.97	0.94	1.00	0.96	0.93	0.97	0.94	0.91	0.95	0.92	0.90	0.93	0.90	0.89	0.87
4	0.97	0.92	0.89	0.96	0.92	0.89	0.94	0.90	0.88	0.92	0.89	0.87	0.90	0.88	0.86	0.84
5	0.93	0.89	0.85	0.92	0.88	0.85	0.91	0.87	0.84	0.89	0.86	0.84	0.88	0.85	0.83	0.82
6	0.90	0.86	0.83	0.89	0.85	0.82	0.88	0.84	0.82	0.87	0.84	0.81	0.86	0.83	0.81	0.80
7	0.87	0.83	0.80	0.87	0.83	0.80	0.86	0.82	0.79	0.85	0.81	0.79	0.84	0.81	0.79	0.78
8	0.85	0.81	0.78	0.85	0.81	0.78	0.84	0.80	0.77	0.83	0.80	0.77	0.82	0.79	0.77	0.76
9	0.83	0.79	0.76	0.83	0.79	0.76	0.82	0.78	0.76	0.81	0.78	0.76	0.80	0.77	0.75	0.74
10	0.81	0.77	0.74	0.81	0.77	0.74	0.80	0.77	0.74	0.79	0.76	0.74	0.79	0.76	0.74	0.73



# 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	9804.00	9499.35	8346.75	6699.96	4814.52	3166.96	1988.27	1166.41	689.87
30.0	9754.12	9819.34	9113.36	7593.19	5744.58	3943.55	2515.46	1528.61	861.00
60.0	9786.35	9802.46	8943.77	7392.13	5640.98	3874.48	2437.19	1448.42	817.10
90.0	9726.49	9806.30	8992.11	7560.19	5765.30	3990.36	2487.07	1488.71	857.16
120.0	9795.55	9641.31	8612.26	6967.77	5204.34	3484.65	2221.55	1306.38	752.72
150.0	9769.46	9596.80	8552.41	6833.48	5061.61	3378.76	2113.35	1273.08	726.71
180.0	9804.00	9335.13	8000.66	6187.35	4412.41	2866.92	1494.39	1031.51	601.62
210.0	9754.12	8900.79	7256.31	5373.17	3697.98	2307.50	1363.09	773.90	496.34
240.0	9786.35	8966.79	7336.88	5582.66	3839.18	2374.26	1376.67	814.19	507.24
270.0	9726.49	8797.97	7136.60	5439.93	3648.87	2302.90	1333.47	786.25	497.72
300.0	9795.55	9105.68	7595.49	5805.20	4156.88	2655.12	1614.56	903.20	558.65
330.0	9769.46	9147.12	7712.13	5992.44	4170.69	2688.89	1529.69	981.93	584.20
360.0	9804.00	9499.35	8346.75	6699.96	4814.52	3166.96	1988.27	1166.41	689.87
C/γ(°)	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0
0.0	445.85	328.59	253.77	206.65	172.81	147.49	127.54	112.50	100.53
30.0	541.00	392.90	284.31	226.61	188.85	159.23	136.21	119.63	106.28
60.0	512.07	360.05	278.02	223.23	184.63	157.01	134.75	118.10	104.82
90.0	542.53	390.59	281.47	227.07	187.62	158.23	135.83	119.63	106.44
120.0	477.61	338.11	263.29	212.72	178.18	151.02	130.45	114.72	101.37
150.0	459.66	336.19	258.84	209.19	176.04	149.64	129.23	113.80	100.68
180.0	403.33	298.89	238.27	195.76	165.91	141.89	123.70	109.04	97.84
210.0	352.99	273.42	219.24	182.41	154.40	134.52	118.33	103.83	92.32
240.0	392.90	278.56	222.46	186.09	156.01	134.60	119.10	105.82	92.85
270.0	355.68	275.56	220.93	184.02	155.85	135.37	119.63	104.29	92.55
300.0	391.36	295.82	233.44	192.92	164.37	140.89	123.32	109.89	95.92
330.0	397.73	300.58	237.89	197.52	164.06	140.89	122.17	107.74	95.46
360.0	445.85	328.59	253.77	206.65	172.81	147.49	127.54	112.50	100.53
C/γ(°)	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0
0.0	88.56	78.20	68.45	61.24	55.02	50.26	46.35	42.90	39.98
30.0	94.85	83.11	74.13	65.76	58.93	53.33	48.81	45.43	42.13
60.0	94.46	82.42	73.44	65.30	58.17	52.49	48.19	44.58	41.36
90.0	93.70	82.03	72.44	64.08	57.86	52.57	48.19	44.74	41.67
120.0	89.78	79.12	70.14	62.23	55.79	50.72	46.81	43.43	40.59
150.0	88.79	77.81	69.29	61.54	55.25	50.72	46.66	43.43	40.67
180.0	85.33	75.43	66.76	59.24	53.64	48.88	45.35	42.21	39.60
210.0	81.73	71.75	63.31	57.09	51.80	47.73	44.43	41.44	38.91
240.0	82.03	73.05	64.31	57.55	52.18	48.04	44.43	41.36	38.91
270.0	81.80	72.13	63.23	57.02	51.72	47.73	44.12	41.05	38.68
300.0	83.72	74.21	65.23	58.24	52.87	48.27	44.89	41.75	39.06
330.0	84.33	75.13	66.22	59.01	52.87	48.50	45.04	41.82	39.21
360.0	88.56	78.20	68.45	61.24	55.02	50.26	46.35	42.90	39.98
C/γ(°)	54.0	56.0	58.0	60.0	62.0	64.0	66.0	68.0	70.0
0.0	37.37	35.38	33.38	31.77	30.08	28.47	26.78	25.09	23.10
30.0	39.21	36.83	34.84	32.84	31.16	29.70	28.01	26.24	24.40
60.0	38.83	36.45	34.46	32.61	30.93	29.16	27.47	25.71	23.94
90.0	38.91	36.76	34.76	32.92	31.23	29.47	27.70	26.09	24.25
120.0	38.22	36.07	34.38	32.54	30.77	29.01	27.24	25.48	23.56
150.0	38.14	36.07	34.30	32.46	30.77	29.16	27.40	25.78	23.71
180.0	37.37	35.38	33.53	31.85	30.31	28.70	27.17	25.55	23.71
210.0	36.83	34.84	33.07	31.39	29.70	27.93	26.40	24.71	22.71
240.0	36.68	34.84	33.07	31.54	29.93	28.32	26.86	25.25	23.25
270.0	36.45	34.46	32.69	31.16	29.39	27.86	26.32	24.48	22.41
300.0	36.83	34.84	33.15	31.54	29.85	28.09	26.55	25.02	23.02
330.0	36.99	35.07	33.23	31.62	29.85	28.39	26.63	24.86	23.17
360.0	37.37	35.38	33.38	31.77	30.08	28.47	26.78	25.09	23.10

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## 光强数据表(cd)

附页 第 10页 共10页

<b>C/γ(°)</b>	<b>72.0</b>	<b>74.0</b>	<b>76.0</b>	<b>78.0</b>	<b>80.0</b>	<b>82.0</b>	<b>84.0</b>	<b>86.0</b>	<b>88.0</b>
<b>0.0</b>	<b>21.18</b>	<b>19.03</b>	<b>16.65</b>	<b>14.27</b>	<b>11.43</b>	<b>8.29</b>	<b>5.14</b>	<b>2.76</b>	<b>0.77</b>
<b>30.0</b>	<b>22.41</b>	<b>19.88</b>	<b>17.19</b>	<b>14.35</b>	<b>11.74</b>	<b>9.21</b>	<b>6.60</b>	<b>4.30</b>	<b>1.61</b>
<b>60.0</b>	<b>21.95</b>	<b>19.88</b>	<b>17.50</b>	<b>14.89</b>	<b>12.20</b>	<b>9.06</b>	<b>6.29</b>	<b>3.61</b>	<b>1.61</b>
<b>90.0</b>	<b>22.18</b>	<b>19.88</b>	<b>17.50</b>	<b>14.58</b>	<b>11.74</b>	<b>9.06</b>	<b>6.52</b>	<b>3.76</b>	<b>1.61</b>
<b>120.0</b>	<b>21.49</b>	<b>19.03</b>	<b>16.35</b>	<b>13.51</b>	<b>10.90</b>	<b>8.21</b>	<b>5.76</b>	<b>3.22</b>	<b>1.07</b>
<b>150.0</b>	<b>21.72</b>	<b>19.18</b>	<b>16.65</b>	<b>14.12</b>	<b>11.36</b>	<b>8.44</b>	<b>5.53</b>	<b>2.84</b>	<b>0.77</b>
<b>180.0</b>	<b>21.56</b>	<b>18.88</b>	<b>15.81</b>	<b>12.74</b>	<b>10.21</b>	<b>7.60</b>	<b>5.14</b>	<b>2.84</b>	<b>0.61</b>
<b>210.0</b>	<b>20.49</b>	<b>17.96</b>	<b>15.27</b>	<b>12.74</b>	<b>9.82</b>	<b>6.68</b>	<b>3.91</b>	<b>1.84</b>	<b>0.08</b>
<b>240.0</b>	<b>21.10</b>	<b>18.11</b>	<b>14.81</b>	<b>11.97</b>	<b>9.36</b>	<b>6.68</b>	<b>4.30</b>	<b>1.92</b>	<b>0.15</b>
<b>270.0</b>	<b>20.11</b>	<b>17.65</b>	<b>14.96</b>	<b>12.28</b>	<b>9.29</b>	<b>6.60</b>	<b>4.07</b>	<b>1.84</b>	<b>0.15</b>
<b>300.0</b>	<b>20.80</b>	<b>18.34</b>	<b>15.65</b>	<b>12.74</b>	<b>9.90</b>	<b>7.14</b>	<b>4.60</b>	<b>2.23</b>	<b>0.23</b>
<b>330.0</b>	<b>21.10</b>	<b>18.34</b>	<b>15.42</b>	<b>12.66</b>	<b>9.75</b>	<b>7.29</b>	<b>4.99</b>	<b>2.46</b>	<b>0.31</b>
<b>360.0</b>	<b>21.18</b>	<b>19.03</b>	<b>16.65</b>	<b>14.27</b>	<b>11.43</b>	<b>8.29</b>	<b>5.14</b>	<b>2.76</b>	<b>0.77</b>
<b>C/γ(°)</b>	<b>90.0</b>								
<b>0.0</b>	<b>0.00</b>								
<b>30.0</b>	<b>0.08</b>								
<b>60.0</b>	<b>0.08</b>								
<b>90.0</b>	<b>0.00</b>								
<b>120.0</b>	<b>0.00</b>								
<b>150.0</b>	<b>0.00</b>								
<b>180.0</b>	<b>0.00</b>								
<b>210.0</b>	<b>0.00</b>								
<b>240.0</b>	<b>0.00</b>								
<b>270.0</b>	<b>0.00</b>								
<b>300.0</b>	<b>0.00</b>								
<b>330.0</b>	<b>0.00</b>								
<b>360.0</b>	<b>0.00</b>								