

浙大三色

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ROLED

灯具名称: 投光灯

灯具描述: F2021A-16-UN (10-OL-16WN-C, P1)

报告编号:

电压(V): 220.6000

测试编号: 20210317003

电流(A): 0.1100

光源规格型号: OL

功率(W): 19.6000

每个光源光通量(lm)

功率因数: 0.8010

光源数量: 16

镇流器型号:

发光面长度(mm): 155

发光面宽度(mm): 155

测试模式: C

发光面高度(mm): 0

光度结果

灯具光通量(lm): 1711.84

灯具效能(lm/w): 87.34

中心光强(cd): 17281.310

最大光强(cd): 18317.270

最大光强角度: C=90.0 γ =2.0

半峰边角(50%Imax): [C0/180]Total=10.3

[C90/270]Total=10.9

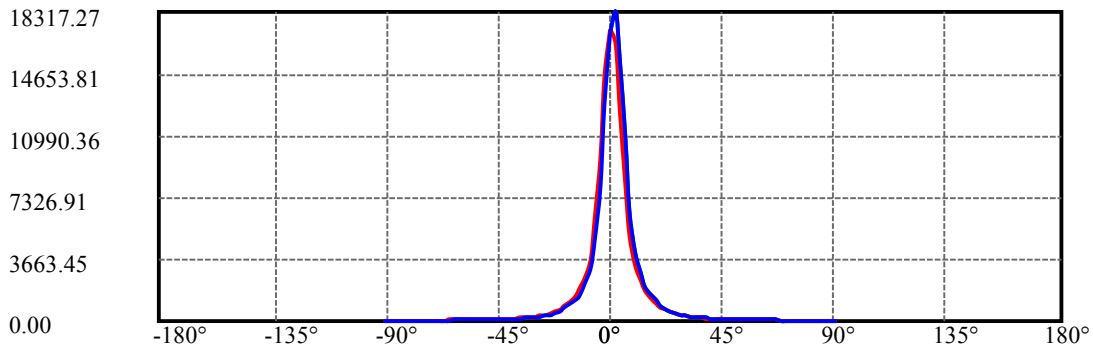
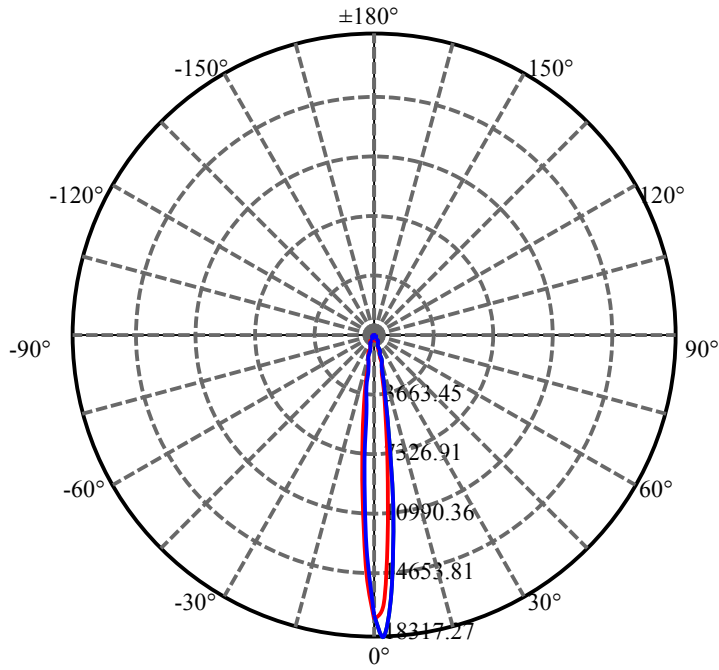
光束扩散角(10%Imax): [C0/180]Total=27.2

[C90/270]Total=27.0

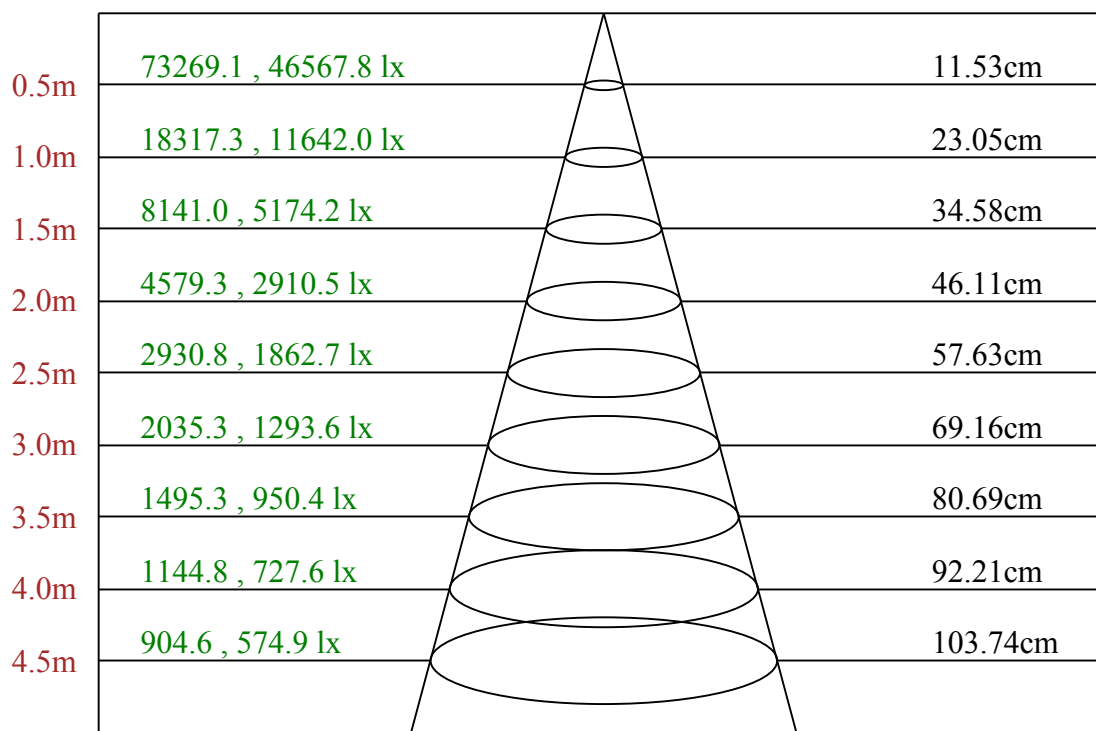
测试设备: GMS1800
环境温度(°C): 25.0

测试日期: 2021/3/17
环境湿度(%): 60.0%

测试人员: anpeilou
测试距离(m): 8.76

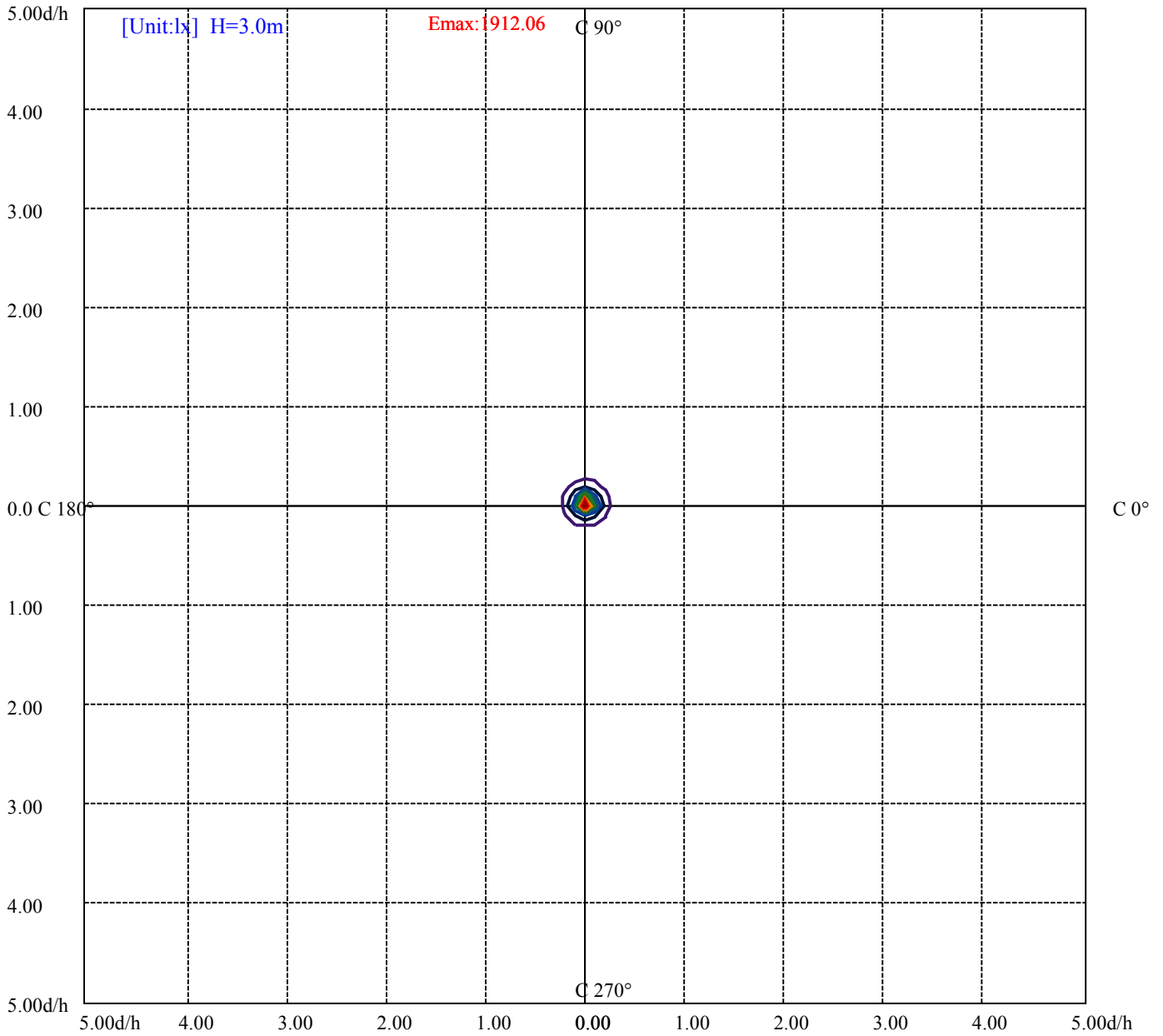


C90(Max): —
C0/C180: —
C90/C270: —



Max , Ave C90面光束角13.14

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平面等照度曲线



- (10%Emax) 191.2056
- (20%Emax) 382.4111
- (30%Emax) 573.6155
- (40%Emax) 764.8211
- (50%Emax) 956.0267
- (60%Emax) 1147.233
- (70%Emax) 1338.433
- (80%Emax) 1529.644
- (90%Emax) 1720.844

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测试日期: 2021/3/17
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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

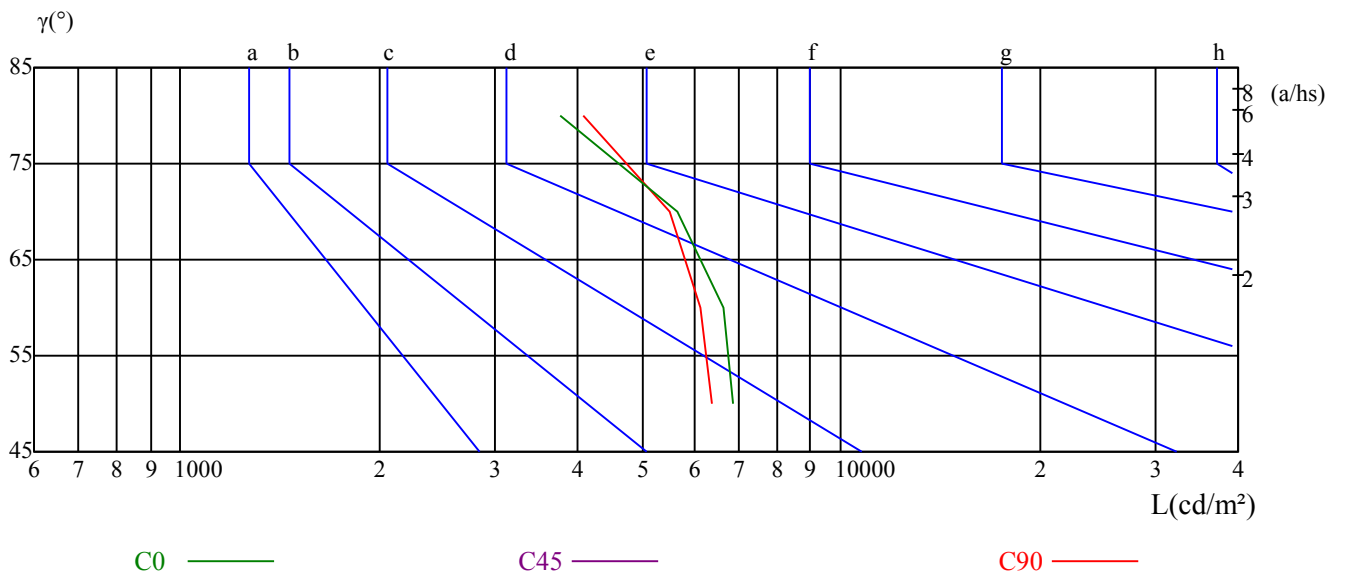
γ	45	50	55	60	65	70	75	80	85
C0	0	6872	0	6644	0	5650	0	3752	0
C45	0	0	0	0	0	0	0	0	0
C90	0	6400	0	6120	0	5519	0	4083	0

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

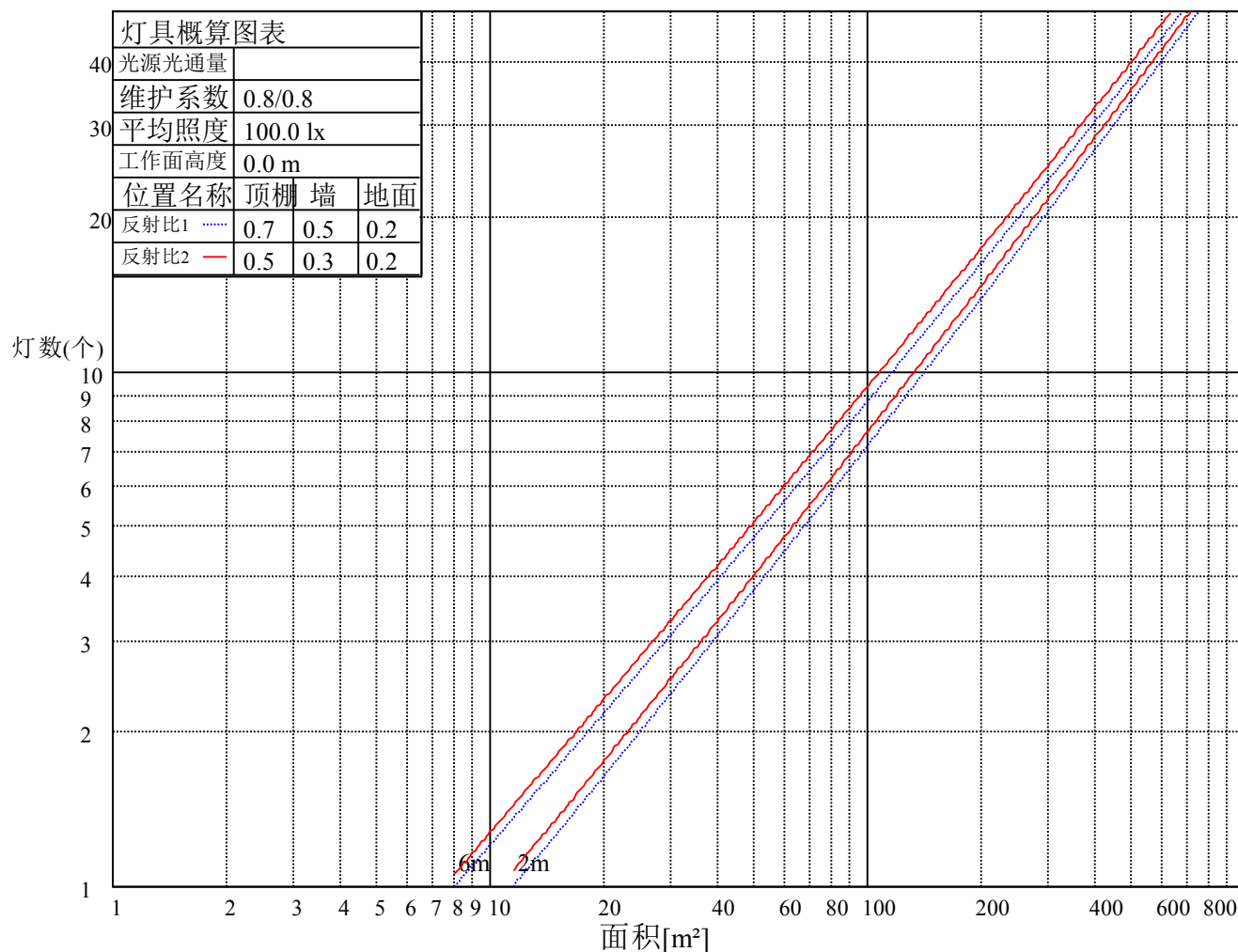
亮度限制曲线



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	12.83	13.92	13.19	14.23	14.55	13.21	14.30	13.57	14.61	14.93
	3H	14.50	15.47	14.88	15.80	16.17	14.88	15.85	15.26	16.18	16.55
	4H	15.05	15.95	15.45	16.30	16.69	15.43	16.33	15.84	16.68	17.07
	6H	15.31	16.13	15.73	16.51	16.90	15.70	16.52	16.11	16.90	17.29
	8H	15.34	16.11	15.77	16.51	16.91	15.72	16.50	16.16	16.89	17.30
	12H	15.34	16.08	15.78	16.47	16.90	15.72	16.46	16.15	16.84	17.28
4H	2H	13.48	14.38	13.88	14.73	15.12	13.77	14.67	14.18	15.02	15.41
	3H	15.37	16.11	15.78	16.51	16.92	15.65	16.38	16.06	16.79	17.20
	4H	16.01	16.67	16.45	17.09	17.54	16.29	16.95	16.73	17.38	17.82
	6H	16.29	16.86	16.76	17.31	17.78	16.58	17.15	17.05	17.60	18.07
	8H	16.33	16.86	16.81	17.31	17.78	16.62	17.15	17.09	17.60	18.07
8H	12H	16.33	16.79	16.82	17.28	17.75	16.61	17.07	17.10	17.56	18.03
	4H	16.23	16.76	16.70	17.21	17.68	16.48	17.01	16.96	17.46	17.93
	6H	16.59	17.01	17.10	17.51	18.00	16.85	17.26	17.35	17.77	18.25
	8H	16.67	17.04	17.20	17.56	18.06	16.92	17.29	17.45	17.81	18.30
12H	12H	17.28	17.60	17.80	18.09	18.67	17.52	17.84	18.04	18.34	18.92
	4H	16.21	16.67	16.70	17.15	17.63	16.46	16.92	16.95	17.40	17.88
	6H	16.95	16.96	17.12	17.43	17.98	17.20	17.21	17.37	17.68	18.23
	8H	16.69	17.01	17.21	17.51	18.09	16.93	17.26	17.45	17.75	18.33
对应照射距离，改变观察者位置S											
	S = 1.0H	0.2/-0.6					0.2/-0.6				
	S = 1.5H	0.8/-0.7					0.8/-0.6				
	S = 2.0H	1.1/-0.8					1.2/-0.8				
标准表格	BK3					BK3					
更正系数	0.5					0.6					

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灯具的概算曲线



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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	1.09	1.07	1.09	1.07	1.05	1.05	1.03	1.02	1.01	1.00	0.99	0.98	0.97	0.96	0.94
2	1.04	1.00	0.97	1.02	0.99	0.96	0.99	0.96	0.94	0.96	0.94	0.92	0.93	0.92	0.90	0.88
3	0.98	0.94	0.90	0.97	0.93	0.89	0.94	0.91	0.88	0.92	0.89	0.87	0.90	0.87	0.85	0.84
4	0.93	0.88	0.85	0.92	0.88	0.84	0.90	0.86	0.83	0.88	0.85	0.82	0.86	0.84	0.81	0.80
5	0.89	0.84	0.80	0.88	0.83	0.80	0.86	0.82	0.79	0.85	0.81	0.79	0.83	0.80	0.78	0.77
6	0.85	0.80	0.77	0.85	0.80	0.76	0.83	0.79	0.76	0.82	0.78	0.75	0.81	0.77	0.75	0.74
7	0.82	0.77	0.74	0.82	0.77	0.74	0.80	0.76	0.73	0.79	0.76	0.73	0.78	0.75	0.72	0.71
8	0.79	0.75	0.71	0.79	0.74	0.71	0.78	0.74	0.71	0.77	0.73	0.71	0.76	0.73	0.70	0.69
9	0.77	0.72	0.69	0.77	0.72	0.69	0.76	0.72	0.69	0.75	0.71	0.68	0.74	0.71	0.68	0.67
10	0.75	0.70	0.67	0.74	0.70	0.67	0.74	0.70	0.67	0.73	0.69	0.67	0.72	0.69	0.67	0.65

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	17281.31	16306.74	12531.25	7973.04	5064.68	3320.44	2359.68	1807.17	1379.74
30.0	17074.12	17511.52	14219.48	9523.14	5809.04	3944.31	2646.68	1990.57	1507.13
60.0	17342.70	18087.05	14738.22	10107.11	6102.17	3857.60	2688.12	2009.76	1512.50
90.0	17012.73	18317.27	15639.12	10781.63	6584.09	4074.77	2847.73	2082.66	1570.82
120.0	17442.46	17388.74	13706.10	9021.27	5441.46	3572.90	2528.50	1881.61	1463.62
150.0	17250.61	16475.56	12508.23	8034.43	4888.19	3238.33	2308.27	1726.60	1337.54
180.0	17281.31	14419.00	9815.51	6168.17	3798.51	2586.06	1923.04	1454.41	1125.20
210.0	17074.12	13270.23	8493.32	5248.08	3359.57	2380.40	1739.64	1351.89	1032.66
240.0	17342.70	13490.47	8602.28	5218.16	3295.11	2349.71	1732.74	1342.14	1026.75
270.0	17012.73	12793.69	7964.60	4802.24	3189.21	2242.27	1526.08	1280.14	990.99
300.0	17442.46	13981.59	9438.72	5670.91	3913.62	2579.92	1897.72	1452.64	1115.00
330.0	17250.61	14445.09	10044.18	6205.77	3942.78	2767.16	2055.03	1513.80	1210.54
360.0	17281.31	16306.74	12531.25	7973.04	5064.68	3320.44	2359.68	1807.17	1379.74
C/γ(°)	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0
0.0	1057.44	825.70	653.80	516.44	423.59	349.08	291.07	248.17	215.40
30.0	1160.27	910.11	709.06	561.72	449.68	388.29	308.02	261.06	223.54
60.0	1193.81	919.55	716.12	565.10	456.82	371.03	307.03	260.29	222.85
90.0	1221.66	943.11	732.84	583.97	466.56	389.06	316.01	265.05	225.61
120.0	1130.65	873.73	691.56	546.06	436.25	357.90	296.51	249.63	214.25
150.0	1032.12	810.35	627.71	504.93	407.48	338.64	282.93	240.19	208.42
180.0	865.29	684.88	544.15	443.47	362.82	302.12	258.45	222.92	195.07
210.0	810.35	636.85	502.71	412.46	339.10	281.55	240.04	208.50	182.10
240.0	790.40	628.48	498.79	399.80	330.05	278.48	235.58	205.35	180.79
270.0	770.14	613.21	484.98	392.90	325.90	271.19	231.06	199.59	175.73
300.0	867.90	680.66	536.40	432.03	354.37	293.37	249.40	215.02	187.55
330.0	946.48	736.60	582.52	464.26	376.24	308.79	262.21	224.84	196.52
360.0	1057.44	825.70	653.80	516.44	423.59	349.08	291.07	248.17	215.40
C/γ(°)	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0
0.0	188.85	169.28	154.55	141.27	130.07	120.25	112.57	106.13	100.91
30.0	194.84	172.66	156.08	141.89	129.84	119.79	111.50	105.05	98.61
60.0	194.15	171.89	155.24	141.04	129.46	119.02	110.58	103.67	97.84
90.0	196.52	172.05	152.78	137.59	125.62	114.80	106.13	98.84	92.62
120.0	188.85	167.44	150.94	138.05	126.62	116.87	109.04	102.83	96.69
150.0	183.17	163.53	147.87	136.13	125.39	116.10	108.81	102.44	96.84
180.0	173.81	157.62	144.27	132.91	123.55	115.34	108.51	102.52	97.07
210.0	163.30	149.10	136.06	125.47	116.41	108.97	102.83	97.69	92.32
240.0	161.23	146.19	134.67	123.93	115.11	107.66	101.06	95.46	90.09
270.0	156.31	141.12	128.00	117.33	108.20	100.60	95.08	89.63	84.49
300.0	166.98	150.56	136.98	125.62	116.87	108.81	102.14	96.54	91.16
330.0	174.27	156.70	142.04	130.45	120.94	112.50	106.05	100.22	94.85
360.0	188.85	169.28	154.55	141.27	130.07	120.25	112.57	106.13	100.91
C/γ(°)	54.0	56.0	58.0	60.0	62.0	64.0	66.0	68.0	70.0
0.0	95.31	90.55	85.72	79.81	73.74	67.61	61.08	53.87	46.43
30.0	93.62	88.56	83.72	78.58	73.59	68.68	63.39	57.78	51.03
60.0	92.32	87.25	82.65	77.74	72.82	68.14	63.46	57.94	51.57
90.0	87.56	82.57	78.12	73.51	68.91	63.46	57.63	51.41	45.35
120.0	91.39	86.41	81.42	76.51	72.13	67.30	62.54	56.86	49.88
150.0	91.62	87.25	82.42	77.04	72.13	66.92	61.93	55.71	48.57
180.0	91.93	87.56	81.80	75.51	69.60	63.16	55.86	48.81	42.13
210.0	87.56	82.65	77.27	72.36	67.22	62.23	56.40	49.27	42.82
240.0	85.72	81.03	75.82	71.14	66.45	61.93	55.71	49.19	42.51
270.0	80.04	75.51	70.60	66.45	60.62	54.33	48.27	42.13	36.60
300.0	86.18	81.65	76.97	72.21	67.68	62.85	57.40	50.88	44.35
330.0	90.24	85.49	80.27	75.28	70.52	65.15	60.01	53.33	46.20
360.0	95.31	90.55	85.72	79.81	73.74	67.61	61.08	53.87	46.43

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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	39.75	34.76	28.78	21.79	15.65	9.21	3.07	1.53	0.84
30.0	44.81	38.29	32.08	26.86	18.95	11.66	6.29	1.53	0.92
60.0	44.74	37.99	31.69	26.32	18.88	11.74	6.75	1.61	0.92
90.0	39.29	33.92	29.54	23.56	17.04	12.28	5.76	1.53	1.00
120.0	43.20	36.53	30.85	24.94	16.50	10.44	4.68	1.23	0.77
150.0	41.98	35.45	29.70	23.56	15.04	9.44	3.76	1.23	0.69
180.0	36.37	30.70	24.02	17.04	11.74	5.45	1.69	1.00	0.31
210.0	36.22	30.39	24.17	16.04	9.90	4.22	1.30	0.69	0.15
240.0	35.99	30.16	23.94	15.73	10.13	4.37	1.23	0.69	0.15
270.0	31.77	26.78	19.57	14.20	8.21	2.30	1.38	0.84	0.15
300.0	37.68	31.46	26.01	17.80	11.36	5.83	1.53	0.84	0.31
330.0	39.67	32.77	27.55	20.18	12.43	7.21	2.00	1.00	0.38
360.0	39.75	34.76	28.78	21.79	15.65	9.21	3.07	1.53	0.84

C/γ(°)	90.0
0.0	0.23
30.0	0.31
60.0	0.38
90.0	0.46
120.0	0.23
150.0	0.00
180.0	0.08
210.0	0.15
240.0	0.08
270.0	0.08
300.0	0.00
330.0	0.08
360.0	0.23