

浙大三色

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ROLED

灯具名称: 投光灯

灯具描述: F3083A-24-UN-RC-Y(3015-XL-24RGBWN-AJ, L610mm, C, CT)

报告编号:

电压(V): 219.1000

测试编号: 202104210010

电流(A): 0.4700

光源规格型号: XL

功率(W): 101.1000

每个光源光通量(lm)

功率因数: 0.9820

光源数量: 24

镇流器型号:

发光面长度(mm): 550

发光面宽度(mm): 100

测试模式: C

发光面高度(mm): 0

光度结果

灯具光通量(lm): 5007.12

灯具效能(lm/w): 49.53

中心光强(cd): 26712.360

最大光强(cd): 27310.910

最大光强角度: $C=30.0$ $\gamma=2.0$

半峰边角(50%Imax): [C0/180]Total=28.3

[C90/270]Total=13.4

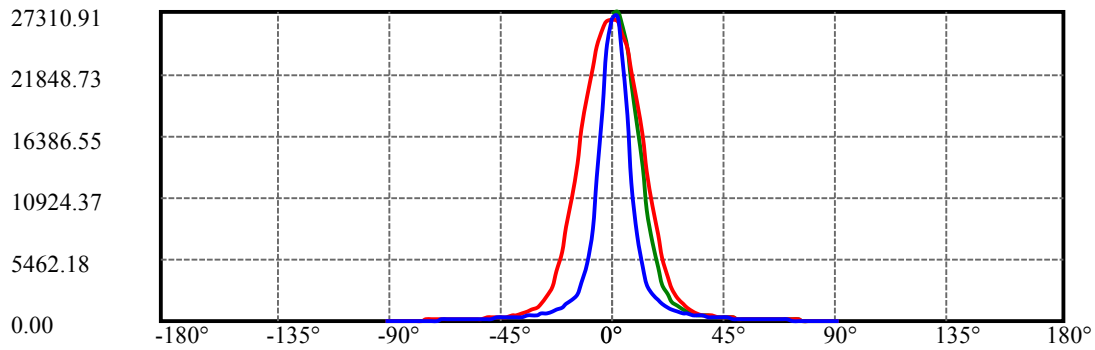
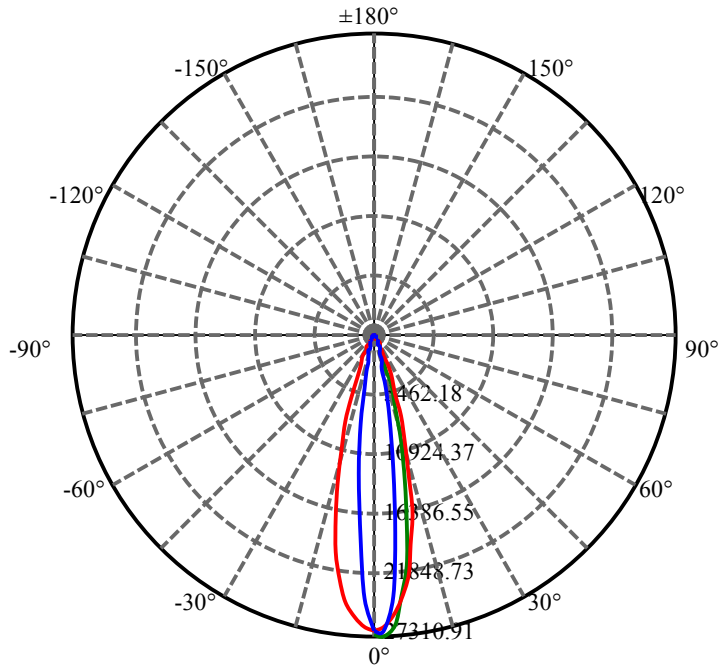
光束扩散角(10%Imax): [C0/180]Total=49.3

[C90/270]Total=28.7

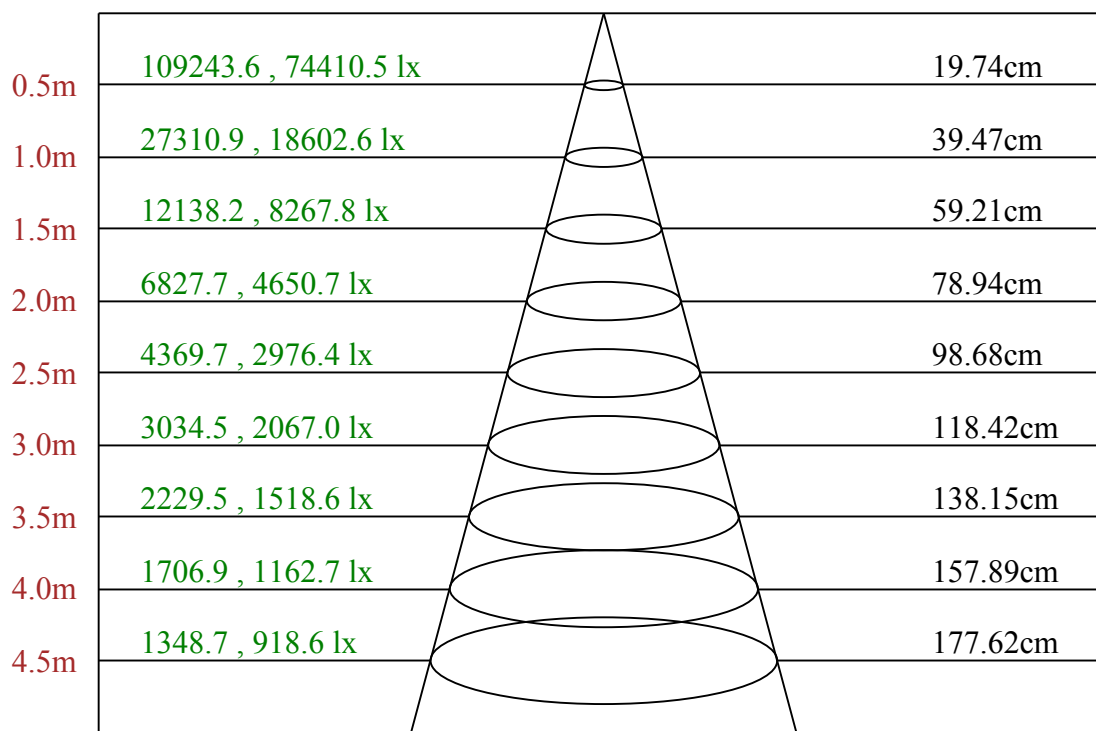
测试设备: GMS1800
环境温度(°C): 25.0

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

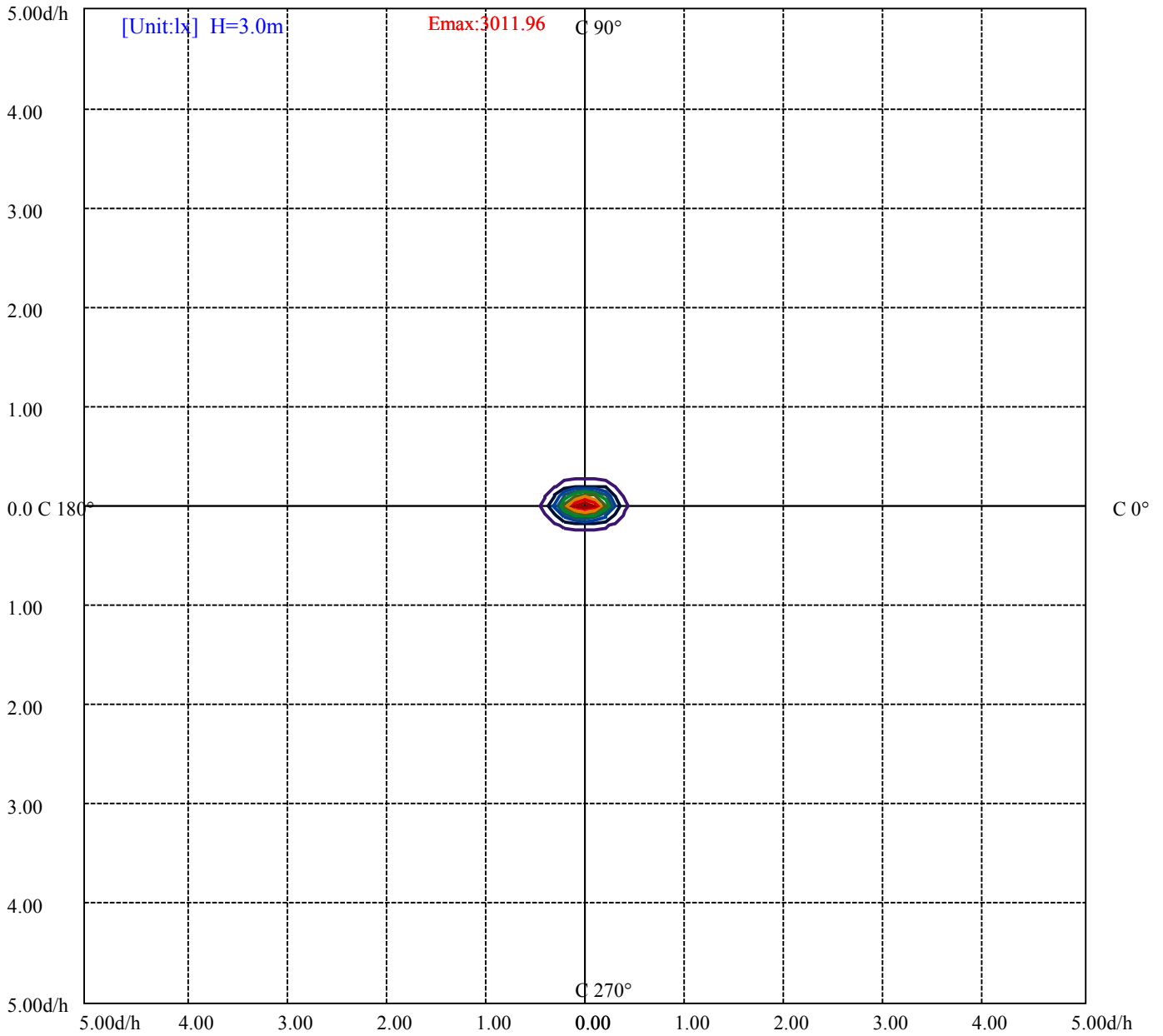


C30(Max): —
C0/C180: —
C90/C270: —



Max , Ave C30面光束角22.32

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平面等照度曲线



- (10%Emax) 301.1945
- (20%Emax) 602.39
- (30%Emax) 903.5844
- (40%Emax) 1204.778
- (50%Emax) 1505.978
- (60%Emax) 1807.167
- (70%Emax) 2108.367
- (80%Emax) 2409.556
- (90%Emax) 2710.756

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灯具的亮度限制曲线(灯具无发光侧边)

亮度值表

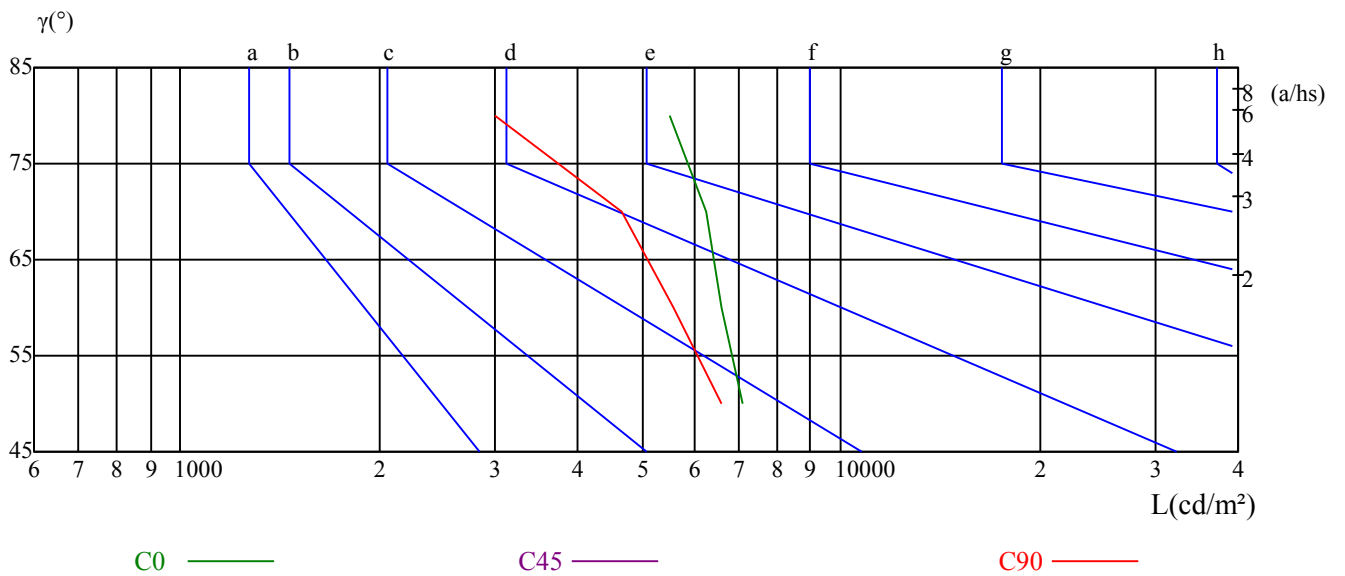
γ	45	50	55	60	65	70	75	80	85
C0	0	7100	0	6619	0	6246	0	5496	0
C45	0	0	0	0	0	0	0	0	0
C90	0	6599	0	5598	0	4671	0	2989	0

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

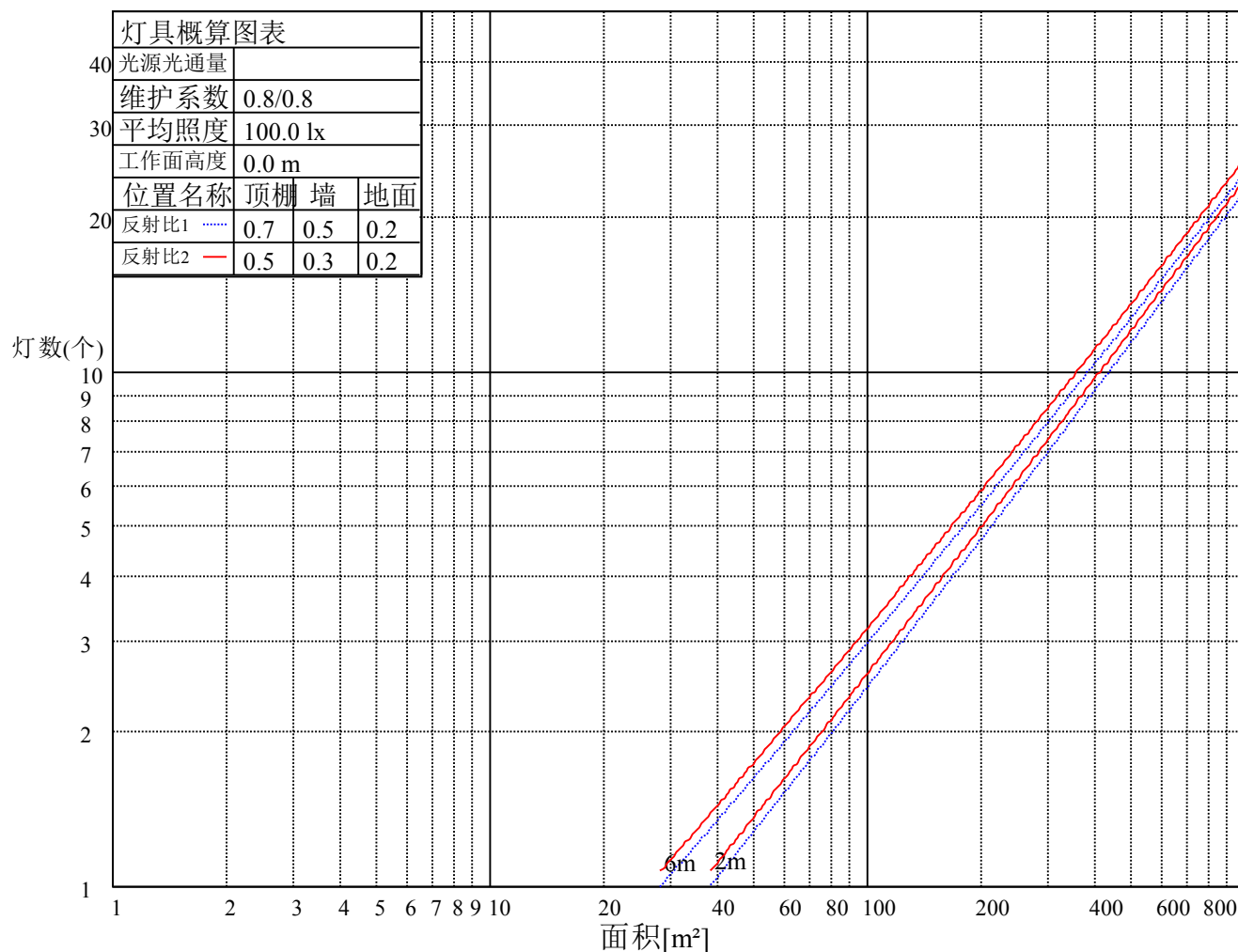
亮度限制曲线



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	8.13	9.19	8.50	9.50	9.81	8.97	10.03	9.34	10.34	10.65
	3H	9.53	10.46	9.91	10.80	11.16	10.91	11.85	11.30	12.18	12.55
	4H	9.97	10.83	10.37	11.19	11.58	11.60	12.47	12.01	12.82	13.21
	6H	10.16	10.95	10.57	11.32	11.72	12.10	12.89	12.52	13.27	13.66
	8H	10.17	10.92	10.60	11.31	11.72	12.26	13.00	12.69	13.40	13.81
	12H	10.17	10.89	10.61	11.27	11.70	12.45	13.17	12.89	13.55	13.98
4H	2H	8.80	9.66	9.21	10.02	10.41	9.45	10.32	9.86	10.67	11.06
	3H	10.36	11.07	10.77	11.48	11.88	11.65	12.36	12.06	12.77	13.17
	4H	10.87	11.50	11.31	11.93	12.37	12.43	13.07	12.87	13.49	13.94
	6H	11.08	11.63	11.55	12.08	12.55	12.92	13.47	13.39	13.92	14.39
	8H	11.11	11.61	11.58	12.06	12.54	13.11	13.62	13.59	14.07	14.55
	12H	11.11	11.55	11.60	12.04	12.51	13.31	13.75	13.81	14.24	14.72
8H	4H	11.16	11.66	11.63	12.11	12.59	12.54	13.05	13.02	13.50	13.97
	6H	11.46	11.86	11.97	12.36	12.85	13.12	13.53	13.63	14.03	14.51
	8H	11.52	11.88	12.05	12.40	12.89	13.37	13.73	13.90	14.25	14.75
	12H	12.11	12.42	12.63	12.92	13.50	14.11	14.42	14.63	14.92	15.50
12H	4H	11.16	11.60	11.65	12.09	12.56	12.51	12.95	13.00	13.43	13.91
	6H	11.81	11.85	12.02	12.32	12.86	13.43	13.46	13.64	13.93	14.48
	8H	11.58	11.89	12.10	12.39	12.97	13.38	13.69	13.91	14.19	14.77
对应照射距离，改变观察者位置S											
S = 1.0H	0.3/-0.5					0.4/-0.5					
S = 1.5H	0.8/-0.8					0.8/-0.7					
S = 2.0H	1.6/-1.1					1.5/-0.8					
标准表格	BK3					BK3					
更正系数	-1.0					0.3					

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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	1.01	0.98	1.03	0.99	0.97	1.00	0.97	0.94	0.97	0.94	0.92	0.94	0.92	0.91	0.89
3	0.99	0.94	0.91	0.97	0.93	0.90	0.95	0.91	0.89	0.92	0.90	0.87	0.90	0.88	0.86	0.84
4	0.94	0.89	0.85	0.93	0.88	0.85	0.91	0.87	0.84	0.89	0.86	0.83	0.87	0.84	0.82	0.81
5	0.90	0.85	0.81	0.89	0.84	0.81	0.87	0.83	0.80	0.85	0.82	0.79	0.84	0.81	0.79	0.77
6	0.86	0.81	0.77	0.85	0.80	0.77	0.84	0.80	0.77	0.82	0.79	0.76	0.81	0.78	0.76	0.74
7	0.83	0.78	0.74	0.82	0.77	0.74	0.81	0.77	0.74	0.80	0.76	0.73	0.79	0.75	0.73	0.72
8	0.80	0.75	0.72	0.79	0.75	0.71	0.78	0.74	0.71	0.77	0.74	0.71	0.76	0.73	0.71	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	0.69	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	0.66	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	26712.36	26428.43	25507.58	24057.24	21985.32	19261.14	16322.09	13175.85	10175.41
30.0	27149.76	27310.91	26267.28	24049.56	21072.14	17265.96	13490.47	9876.13	6891.04
60.0	27065.35	26896.53	24256.76	19545.07	13884.13	9304.43	6009.32	3944.31	2770.23
90.0	26781.42	26812.12	23773.31	18079.38	12285.69	7589.35	4773.08	3211.47	2341.26
120.0	26842.81	26505.17	23834.70	18777.69	13454.40	8830.20	5860.45	3889.06	2714.21
150.0	26697.01	26743.05	25584.32	23381.95	20220.36	16475.56	12677.05	9431.05	6637.80
180.0	26712.36	26497.49	25699.42	24318.15	22322.97	19875.04	16912.97	13886.44	10888.30
210.0	27149.76	25937.31	23573.79	20389.18	16191.63	13020.84	9674.31	7016.89	4899.70
240.0	27065.35	25016.46	20980.06	15554.71	10620.48	6914.06	4588.91	3236.02	2323.61
270.0	26781.42	23873.07	18685.61	12650.96	8146.46	5032.45	3446.29	2447.93	1873.93
300.0	26842.81	24847.63	20841.93	15439.61	10727.92	6791.28	4588.91	3171.57	2314.41
330.0	26697.01	25591.99	23305.21	20143.62	15190.98	12749.18	9404.19	6782.07	4716.29
360.0	26712.36	26428.43	25507.58	24057.24	21985.32	19261.14	16322.09	13175.85	10175.41
C/γ(°)	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0
0.0	7650.74	5678.58	3982.68	2849.27	2035.85	1480.27	1123.44	892.46	716.73
30.0	4796.10	3288.21	2296.76	1672.11	1286.89	1014.47	831.84	692.17	585.51
60.0	2029.71	1512.50	1267.32	1043.02	873.04	747.50	643.75	559.65	490.66
90.0	1786.45	1441.90	1179.46	985.31	839.51	732.84	642.29	567.86	508.77
120.0	2043.52	1522.70	1285.97	1076.94	906.96	772.82	671.38	582.52	508.39
150.0	4673.32	3259.05	2314.41	1728.13	1322.19	1045.93	851.02	713.66	601.62
180.0	8299.17	6069.18	4382.48	3089.46	2188.56	1512.04	1223.35	948.94	767.61
210.0	3453.19	2501.65	1833.26	1427.47	1121.90	907.12	754.10	634.24	546.45
240.0	1786.45	1415.81	1149.53	959.22	820.32	701.38	606.99	534.86	468.10
270.0	1499.07	1223.81	1030.05	879.11	760.16	665.24	590.27	522.35	464.65
300.0	1758.83	1402.00	1157.97	970.73	826.46	707.52	616.97	538.70	473.47
330.0	3378.76	2412.63	1776.48	1390.41	1083.92	890.08	740.82	628.10	535.40
360.0	7650.74	5678.58	3982.68	2849.27	2035.85	1480.27	1123.44	892.46	716.73
C/γ(°)	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0
0.0	593.18	501.86	424.36	377.40	327.98	296.90	271.34	251.01	232.67
30.0	502.63	440.47	389.83	350.54	319.07	292.52	271.65	252.24	236.81
60.0	437.10	390.59	352.23	322.53	296.67	275.79	256.15	238.42	222.31
90.0	455.05	409.01	371.87	338.95	301.58	274.87	252.62	233.28	216.09
120.0	447.92	400.49	359.59	326.83	301.12	277.94	258.61	239.42	223.84
150.0	514.91	448.91	395.20	354.37	321.84	294.44	271.65	253.39	236.89
180.0	630.63	528.57	449.30	384.92	338.80	304.26	278.17	255.46	236.51
210.0	474.70	418.91	372.33	336.26	305.95	282.93	263.06	245.10	230.44
240.0	417.45	381.08	339.26	310.17	287.08	265.67	247.86	232.13	216.02
270.0	418.45	376.09	340.02	309.10	281.01	255.69	237.50	220.31	204.97
300.0	418.99	387.52	338.95	311.32	286.85	265.59	248.40	231.75	215.63
330.0	464.19	406.56	364.12	329.05	299.89	277.64	258.30	241.65	226.30
360.0	593.18	501.86	424.36	377.40	327.98	296.90	271.34	251.01	232.67
C/γ(°)	54.0	56.0	58.0	60.0	62.0	64.0	66.0	68.0	70.0
0.0	217.86	204.81	193.46	182.02	170.59	158.92	146.34	133.06	117.49
30.0	222.16	209.11	198.06	187.70	178.34	167.90	156.31	143.50	129.53
60.0	208.42	194.84	180.87	166.29	150.25	136.13	122.55	109.89	96.08
90.0	200.82	184.71	167.90	153.94	140.43	127.38	114.95	101.60	87.86
120.0	208.57	195.37	181.87	167.13	151.79	137.13	123.55	110.12	97.07
150.0	222.00	208.73	197.45	186.63	176.57	166.37	154.93	142.27	128.23
180.0	221.54	207.81	196.22	183.86	173.04	161.00	149.02	135.60	121.17
210.0	216.86	204.66	193.07	183.48	172.97	162.15	150.87	136.90	122.40
240.0	202.05	188.54	175.19	160.30	145.26	130.76	117.18	103.67	90.32
270.0	189.77	173.20	157.70	144.04	131.14	117.87	105.21	91.24	77.58
300.0	201.44	188.85	175.19	161.07	145.11	130.38	116.64	102.83	89.02
330.0	212.87	201.05	189.54	180.10	169.59	159.15	147.18	133.45	119.17
360.0	217.86	204.81	193.46	182.02	170.59	158.92	146.34	133.06	117.49

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

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	104.52	91.24	78.81	65.76	52.49	40.59	27.86	15.73	3.38
30.0	113.11	94.46	73.13	56.86	43.36	29.39	20.95	6.06	2.92
60.0	81.80	68.30	54.79	44.20	35.15	17.04	7.37	5.83	3.15
90.0	74.51	62.77	51.87	45.81	28.55	14.50	8.67	6.22	3.61
120.0	82.80	68.68	55.71	44.66	36.53	18.26	7.44	6.06	3.22
150.0	113.49	96.15	75.82	58.17	44.12	30.62	21.41	7.83	3.15
180.0	107.74	94.31	81.73	68.45	55.79	43.20	31.08	18.88	7.14
210.0	105.74	84.49	64.31	50.34	35.68	24.17	15.50	3.76	2.00
240.0	75.97	61.77	49.19	40.82	25.55	10.59	6.83	3.91	2.46
270.0	65.00	53.10	46.58	30.46	16.04	8.52	6.75	3.91	2.15
300.0	74.67	61.31	48.19	40.13	24.33	9.75	6.60	3.68	2.23
330.0	102.83	82.95	63.00	48.96	33.99	23.17	13.81	3.45	1.76
360.0	104.52	91.24	78.81	65.76	52.49	40.59	27.86	15.73	3.38
C/γ(°)	90.0								
0.0	0.31								
30.0	0.92								
60.0	1.07								
90.0	1.53								
120.0	1.38								
150.0	1.15								
180.0	0.54								
210.0	0.23								
240.0	0.23								
270.0	0.15								
300.0	0.23								
330.0	0.23								
360.0	0.31								