

浙大三色

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ROLED

灯具名称: 投光灯

灯具描述: F2031A-48-UN(10-OL-48WN-AA, P1)

报告编号:

电压(V): 219.4000

测试编号: 20210420008

电流(A): 0.2560

光源规格型号: OL

功率(W): 54.7000

每个光源光通量(lm)

功率因数: 0.9710

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

光度结果

灯具光通量(lm): 5095.83

灯具效能(lm/w): 93.16

中心光强(cd): 53478.440

最大光强(cd): 54100.010

最大光强角度: $C=60.0$ $\gamma=0.0$

半峰边角(50%Imax): [C0/180]Total=10.7

[C90/270]Total=10.6

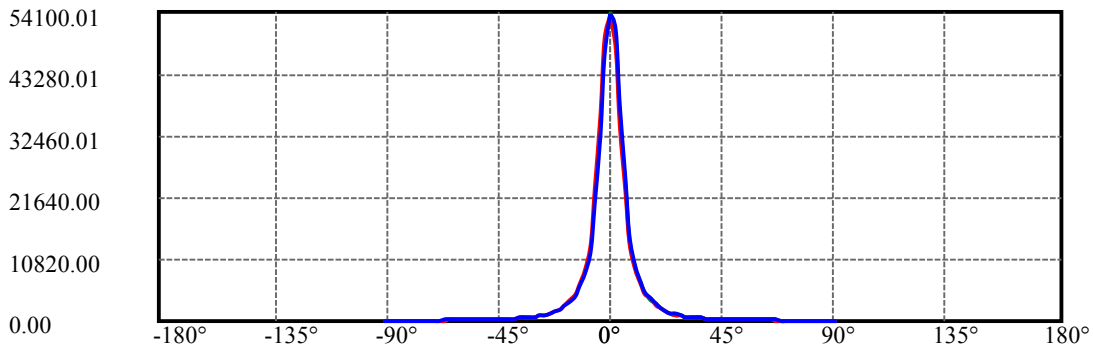
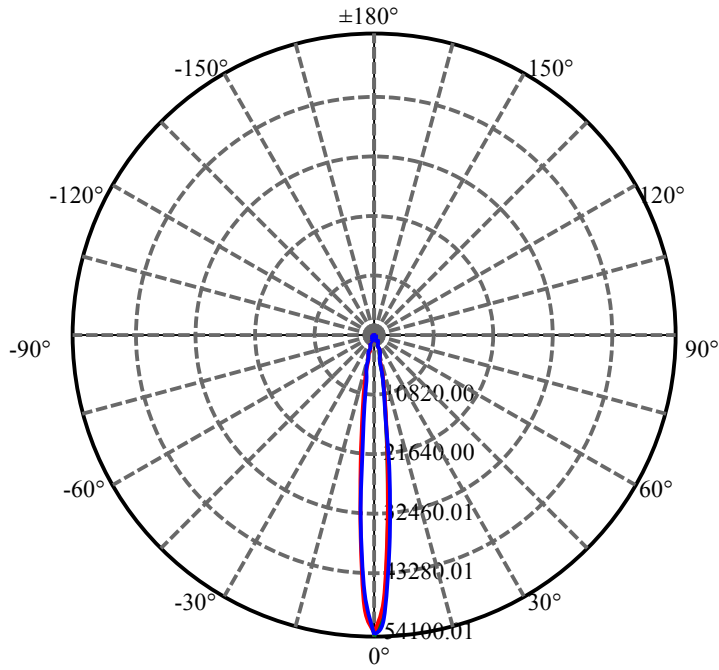
光束扩散角(10%Imax): [C0/180]Total=26.5

[C90/270]Total=26.3

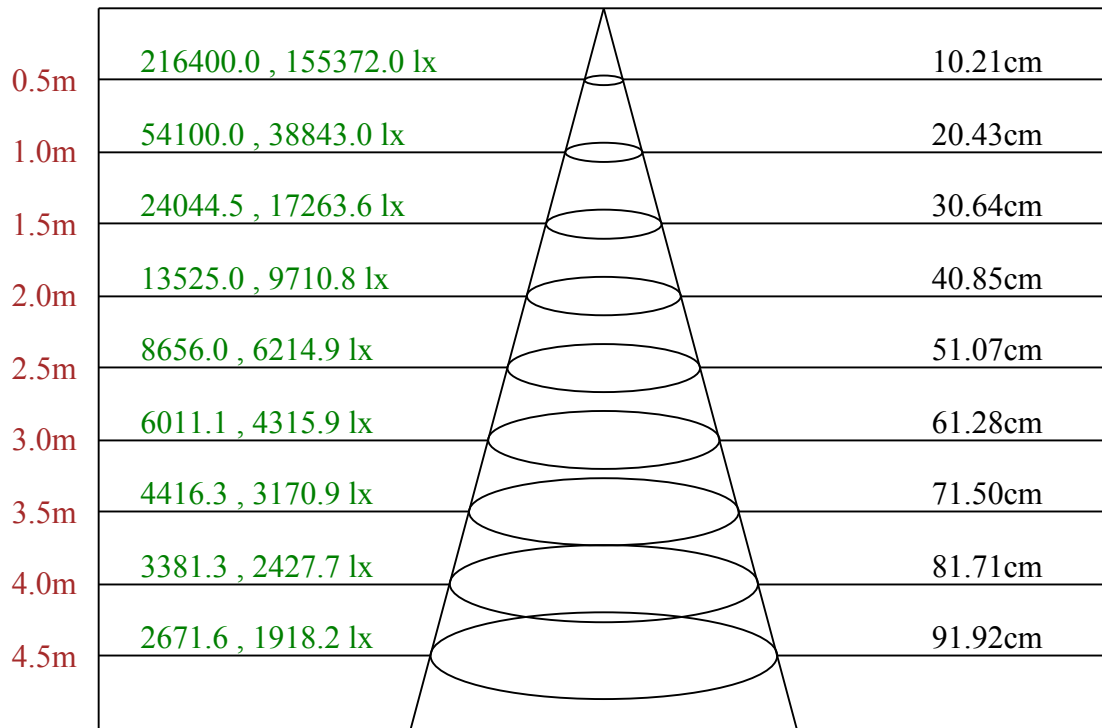
测试设备: GMS1800
环境温度(°C): 25.0

测试日期: 2021/4/20
环境湿度(%): 60.0%

测试人员: anpeilou
测试距离(m): 8.76

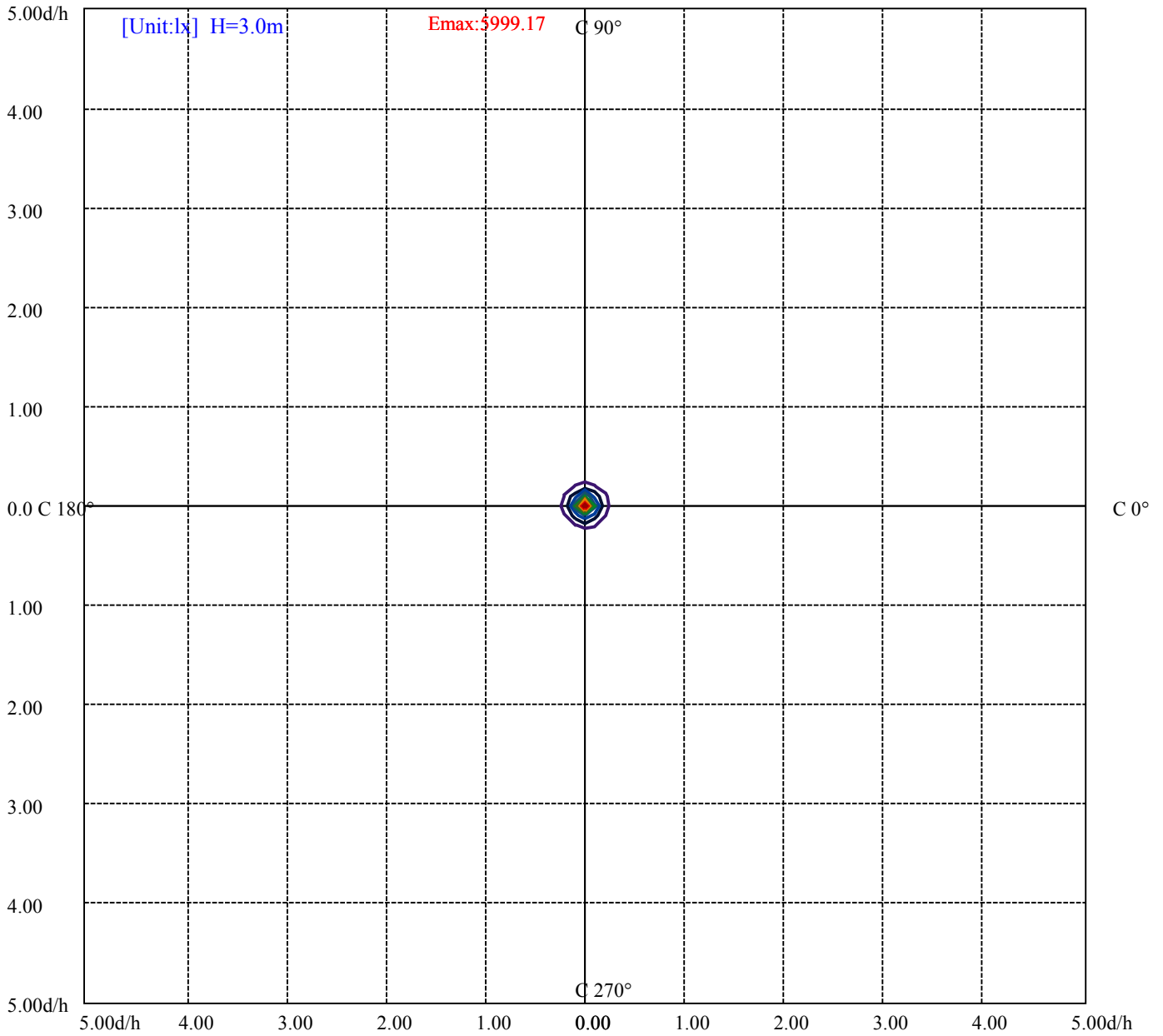


C60(Max): ———
C0/C180: ———
C90/C270: ———



Max , Ave C60面光束角11.66

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平面等照度曲线



- (10%Emax) 599.9144
- (20%Emax) 1199.833
- (30%Emax) 1799.745
- (40%Emax) 2399.656
- (50%Emax) 2999.578
- (60%Emax) 3599.489
- (70%Emax) 4199.4
- (80%Emax) 4799.311
- (90%Emax) 5399.233

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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

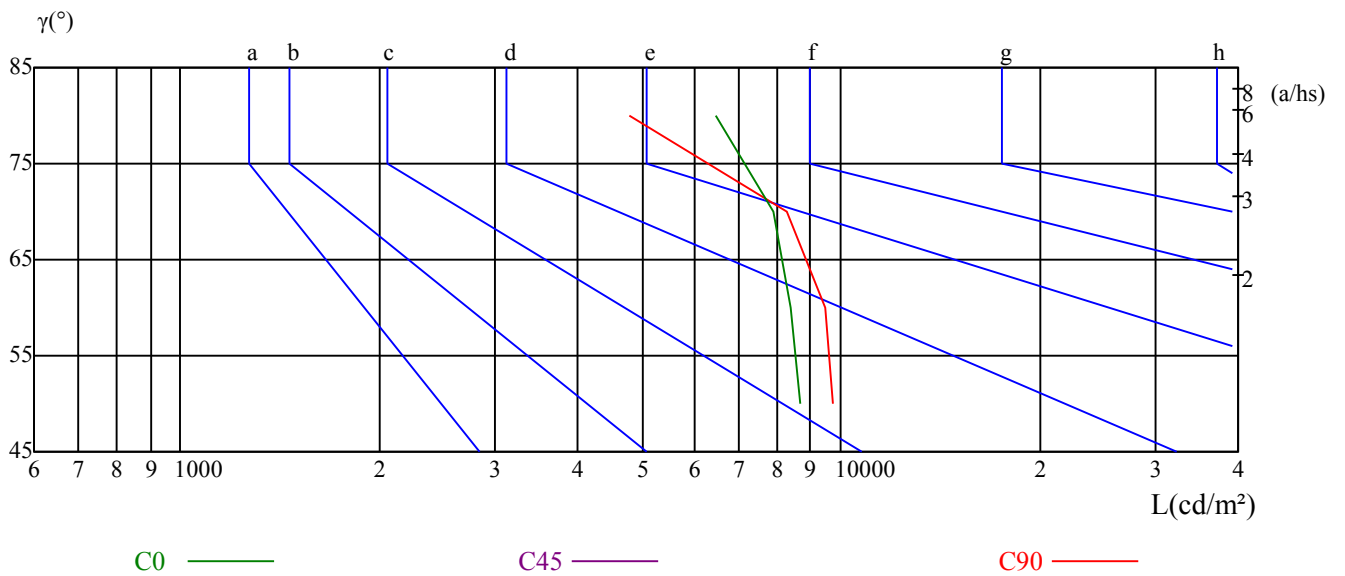
γ	45	50	55	60	65	70	75	80	85
C0	0	8678	0	8409	0	7932	0	6481	0
C45	0	0	0	0	0	0	0	0	0
C90	0	9703	0	9463	0	8295	0	4776	0

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

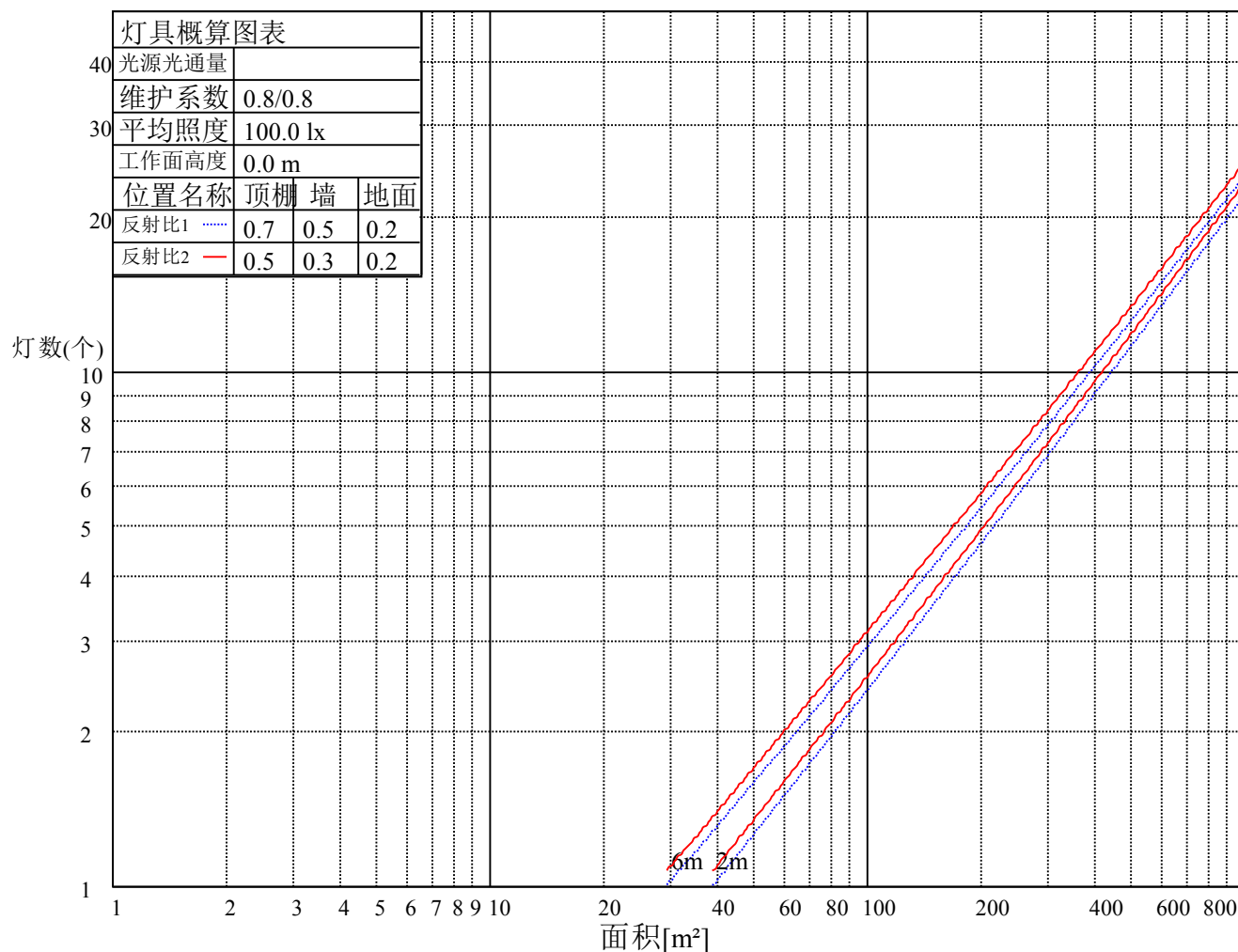
亮度限制曲线



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	10.58	11.67	10.94	11.98	12.29	10.20	11.29	10.57	11.60	11.92
	3H	12.38	13.34	12.76	13.67	14.04	12.12	13.09	12.50	13.42	13.79
	4H	12.93	13.83	13.34	14.18	14.57	12.83	13.73	13.24	14.08	14.47
	6H	13.18	14.00	13.60	14.38	14.77	13.29	14.11	13.70	14.48	14.88
	8H	13.19	13.97	13.63	14.36	14.77	13.39	14.17	13.82	14.56	14.97
	12H	13.17	13.91	13.61	14.30	14.73	13.47	14.21	13.90	14.59	15.02
4H	2H	11.15	12.05	11.55	12.40	12.79	10.86	11.76	11.26	12.11	12.50
	3H	13.16	13.90	13.57	14.30	14.71	13.01	13.75	13.43	14.16	14.57
	4H	13.82	14.48	14.26	14.90	15.35	13.85	14.51	14.28	14.93	15.38
	6H	14.10	14.66	14.56	15.11	15.58	14.30	14.87	14.77	15.32	15.79
	8H	14.12	14.65	14.59	15.10	15.57	14.43	14.96	14.91	15.41	15.88
	12H	14.10	14.56	14.59	15.04	15.52	14.50	14.96	14.99	15.45	15.93
8H	4H	14.07	14.60	14.54	15.05	15.52	14.09	14.62	14.57	15.07	15.54
	6H	14.43	14.85	14.94	15.35	15.84	14.67	15.09	15.18	15.59	16.07
	8H	14.49	14.86	15.02	15.38	15.88	14.85	15.22	15.38	15.74	16.24
	12H	15.06	15.38	15.58	15.88	16.46	15.43	15.75	15.95	16.25	16.83
12H	4H	14.06	14.52	14.55	15.01	15.49	14.07	14.53	14.56	15.02	15.50
	6H	14.81	14.82	14.98	15.29	15.84	15.04	15.04	15.20	15.51	16.06
	8H	14.53	14.85	15.05	15.35	15.93	14.89	15.21	15.41	15.71	16.28
对应照射距离，改变观察者位置S											
S = 1.0H	0.2/-0.5					0.2/-0.6					
S = 1.5H	0.8/-0.6					0.7/-0.7					
S = 2.0H	1.2/-0.8					0.8/-0.8					
标准表格	BK3					BK4					
更正系数	1.6					2.2					

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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	1.06	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	0.84	0.80	0.87	0.83	0.79	0.85	0.82	0.79	0.84	0.81	0.78	0.77
6	0.86	0.81	0.77	0.85	0.80	0.77	0.84	0.79	0.76	0.82	0.79	0.76	0.81	0.78	0.75	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	0.70
9	0.77	0.73	0.69	0.77	0.72	0.69	0.76	0.72	0.69	0.75	0.72	0.69	0.75	0.71	0.69	0.68
10	0.75	0.71	0.68	0.75	0.70	0.68	0.74	0.70	0.67	0.73	0.70	0.67	0.73	0.69	0.67	0.66

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	53478.43	47538.94	34363.10	22353.66	13897.18	9008.99	6353.87	4788.43	3890.60
30.0	53885.14	50777.27	38629.71	25108.54	15853.99	10137.04	7136.60	5241.18	3959.66
60.0	54100.01	49311.58	36327.58	23819.35	14488.83	9544.62	6704.56	4948.04	3747.86
90.0	53854.45	50869.36	37946.74	24939.72	15217.07	9868.46	6791.28	4980.27	3921.29
120.0	54015.60	48521.18	35230.23	22307.62	13805.09	8914.61	6388.41	4713.22	3571.37
150.0	53685.62	49595.51	37708.86	24126.30	14695.25	9354.31	6614.78	4865.16	3882.92
180.0	53478.43	48943.24	36197.13	23098.02	13861.88	9028.18	6290.18	4675.62	3528.39
210.0	53885.14	46549.03	32644.18	20274.07	12545.83	8159.51	5882.70	4284.26	3296.65
240.0	54100.01	47584.99	34624.01	21555.59	13137.48	8679.02	6092.97	4527.52	3421.73
270.0	53854.45	46057.91	32705.57	20343.14	12379.31	8285.36	5918.00	4400.90	3354.20
300.0	54015.60	48782.09	35583.23	22514.81	14227.15	9208.51	6492.00	4895.86	3928.97
330.0	53685.62	47278.04	33871.98	21540.24	13571.81	8887.75	6336.99	4706.32	3627.39
360.0	53478.43	47538.94	34363.10	22353.66	13897.18	9008.99	6353.87	4788.43	3890.60
C/γ(°)	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0
0.0	2829.32	2211.58	1735.04	1386.65	1138.79	933.13	782.72	672.99	579.37
30.0	3046.48	2398.05	1879.30	1494.08	1218.59	997.59	838.74	711.36	613.13
60.0	2929.07	2276.04	1787.22	1452.57	1174.70	974.34	816.41	696.01	603.31
90.0	2939.05	2291.38	1826.35	1459.55	1184.83	986.85	828.00	709.06	614.67
120.0	2761.79	2177.05	1712.78	1396.32	1133.11	935.05	786.87	671.99	587.12
150.0	2860.78	2224.62	1747.32	1392.79	1139.55	936.97	785.03	675.29	586.28
180.0	2723.42	2144.82	1667.51	1360.40	1104.41	920.85	775.05	666.54	576.45
210.0	2556.90	2023.57	1527.85	1298.86	1072.18	889.31	754.56	647.74	568.70
240.0	2675.84	2095.70	1670.58	1341.37	1097.35	906.27	767.38	666.85	579.37
270.0	2640.54	2065.01	1527.23	1342.06	1096.58	919.09	780.04	671.15	587.12
300.0	2871.52	2272.20	1782.61	1422.72	1166.41	956.15	801.14	684.50	594.72
330.0	2810.90	2215.41	1737.34	1398.62	1129.04	937.43	787.17	669.84	585.51
360.0	2829.32	2211.58	1735.04	1386.65	1138.79	933.13	782.72	672.99	579.37
C/γ(°)	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0
0.0	510.31	451.22	407.48	371.41	341.18	313.93	292.98	276.10	260.22
30.0	536.40	481.14	432.80	394.43	364.96	336.80	315.24	294.67	278.33
60.0	535.47	478.61	432.49	397.19	365.04	338.11	316.47	298.43	281.40
90.0	545.60	488.82	444.31	408.24	382.23	350.38	327.75	308.72	291.53
120.0	518.59	467.03	423.21	387.06	356.06	331.35	310.10	291.53	275.72
150.0	520.28	462.73	420.52	388.29	356.91	330.20	308.56	290.45	273.42
180.0	506.39	450.53	405.17	370.03	338.64	313.63	292.45	274.80	259.14
210.0	504.70	452.60	413.00	378.62	349.54	323.68	304.19	285.62	270.19
240.0	517.21	464.26	420.52	387.52	358.21	332.27	312.55	294.29	277.41
270.0	525.58	473.16	431.34	396.35	365.88	340.48	320.23	302.58	286.00
300.0	524.12	471.94	425.89	389.06	359.67	333.89	312.71	293.98	277.87
330.0	517.36	465.18	420.83	384.61	352.53	327.90	306.80	287.77	271.96
360.0	510.31	451.22	407.48	371.41	341.18	313.93	292.98	276.10	260.22
C/γ(°)	54.0	56.0	58.0	60.0	62.0	64.0	66.0	68.0	70.0
0.0	246.33	233.13	220.39	208.11	195.37	181.87	167.29	150.94	134.29
30.0	262.75	249.01	235.05	220.47	207.88	194.84	181.48	167.75	153.17
60.0	266.05	252.31	237.58	222.92	208.88	194.99	180.10	165.60	147.34
90.0	276.49	262.21	248.25	234.20	220.31	202.89	182.41	161.99	140.43
120.0	260.68	246.33	232.44	217.93	204.20	190.08	175.96	160.69	143.12
150.0	258.76	244.49	230.37	216.09	203.20	190.69	177.49	164.45	149.41
180.0	246.02	232.90	219.85	208.04	195.30	181.41	166.75	151.56	135.29
210.0	255.61	241.19	227.07	214.10	200.82	187.70	175.19	160.69	145.26
240.0	263.36	248.40	234.05	219.93	206.81	192.30	177.65	162.84	143.12
270.0	271.96	257.99	243.95	230.52	215.79	195.99	176.11	154.01	132.07
300.0	263.13	249.01	234.36	220.47	206.96	192.84	179.11	163.68	144.73
330.0	257.15	243.41	228.45	215.40	202.28	189.23	176.80	162.53	147.41
360.0	246.33	233.13	220.39	208.11	195.37	181.87	167.29	150.94	134.29

测试设备: GMS1800
环境温度(°C): 25.0

测试日期: 2021/4/20
环境湿度(%): 60.0%

测试人员: anpeilou
测试距离(m): 8.76

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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	119.33	104.59	89.02	71.14	55.71	39.37	21.64	5.22	1.07
30.0	135.60	118.18	102.14	83.80	61.08	41.59	21.41	6.68	1.23
60.0	127.38	107.36	90.09	68.76	47.04	27.40	9.06	1.84	1.38
90.0	120.71	102.21	80.50	60.62	41.05	23.02	3.84	1.92	1.53
120.0	123.47	103.98	85.87	65.61	44.28	24.56	7.75	1.76	1.38
150.0	131.99	114.72	98.84	80.04	56.71	38.68	20.03	5.45	1.15
180.0	120.02	105.51	89.63	71.06	54.79	38.91	23.40	7.14	1.00
210.0	128.00	110.35	93.70	72.52	51.03	33.76	16.42	2.92	1.07
240.0	122.93	102.83	85.64	65.30	44.89	24.25	7.06	1.92	1.38
270.0	112.27	94.31	73.59	54.10	33.15	15.65	2.30	1.76	1.30
300.0	124.47	105.44	87.10	68.22	46.04	25.94	8.36	2.00	1.38
330.0	130.15	112.50	96.08	77.20	53.56	35.53	17.57	3.68	1.15
360.0	119.33	104.59	89.02	71.14	55.71	39.37	21.64	5.22	1.07
C/γ(°)	90.0								
0.0	0.31								
30.0	0.46								
60.0	0.38								
90.0	0.38								
120.0	0.38								
150.0	0.38								
180.0	0.38								
210.0	0.38								
240.0	0.31								
270.0	0.31								
300.0	0.31								
330.0	0.38								
360.0	0.31								