

浙大三色

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ROLED

灯具名称: 水下灯

灯具描述: U3153A-27-12DC(10-OL-27WN-AA, P1)

报告编号:

电压(V): 12.1000

测试编号: 20210325011

电流(A): 2.3070

光源规格型号: OL

功率(W): 27.9000

每个光源光通量(lm)

功率因数: 1.0120

光源数量: 27

镇流器型号:

发光面长度(mm): 977

发光面宽度(mm): 33

测试模式: C

发光面高度(mm): 0

光度结果

灯具光通量(lm): 2699.54

灯具效能(lm/w): 96.76

中心光强(cd): 23942.130

最大光强(cd): 25507.580

最大光强角度: $C=30.0$ $\gamma=0.0$

半峰边角(50%Imax): [C0/180]Total=11.7

[C90/270]Total=11.2

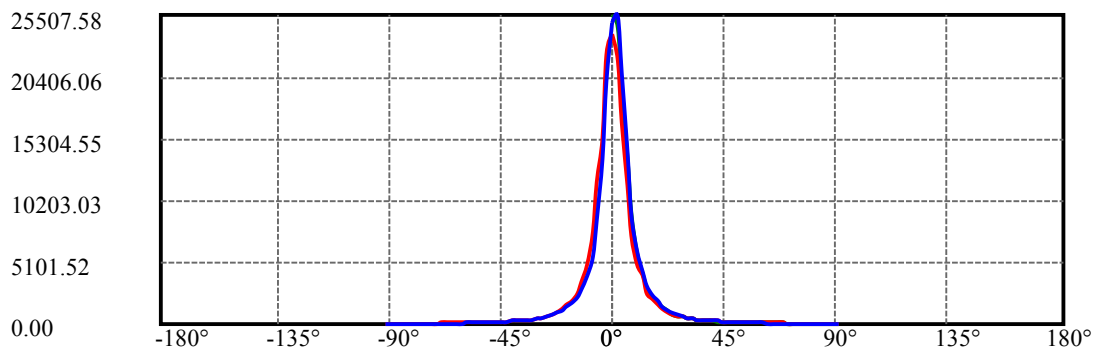
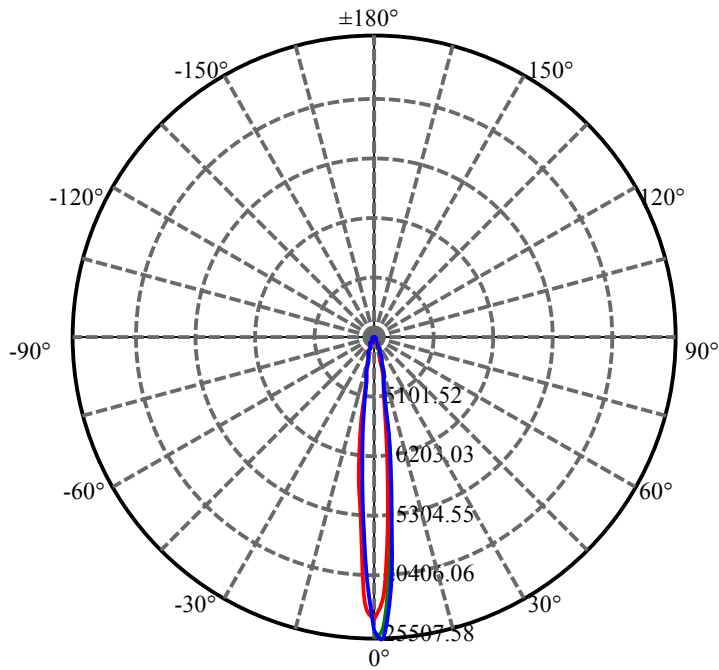
光束扩散角(10%Imax): [C0/180]Total=29.3

[C90/270]Total=29.0

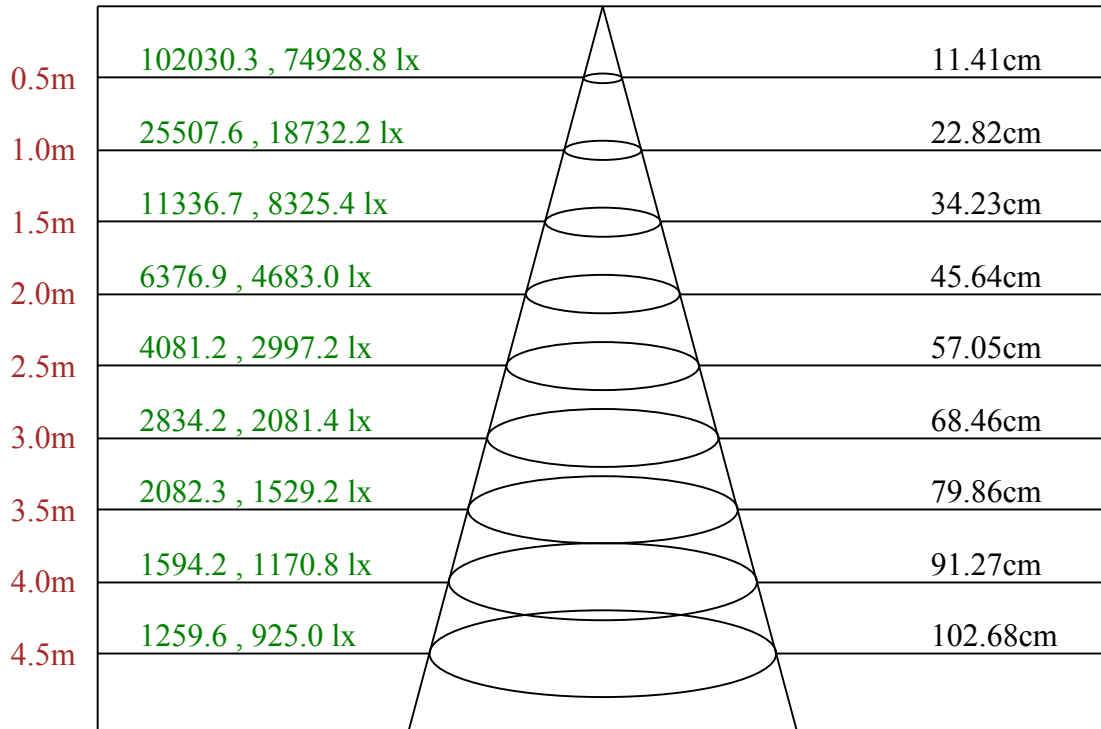
测试设备: GMS1800
环境温度(°C): 25.0

测试日期: 2021/3/25
环境湿度(%): 60.0%

测试人员: anpeilou
测试距离(m): 8.76

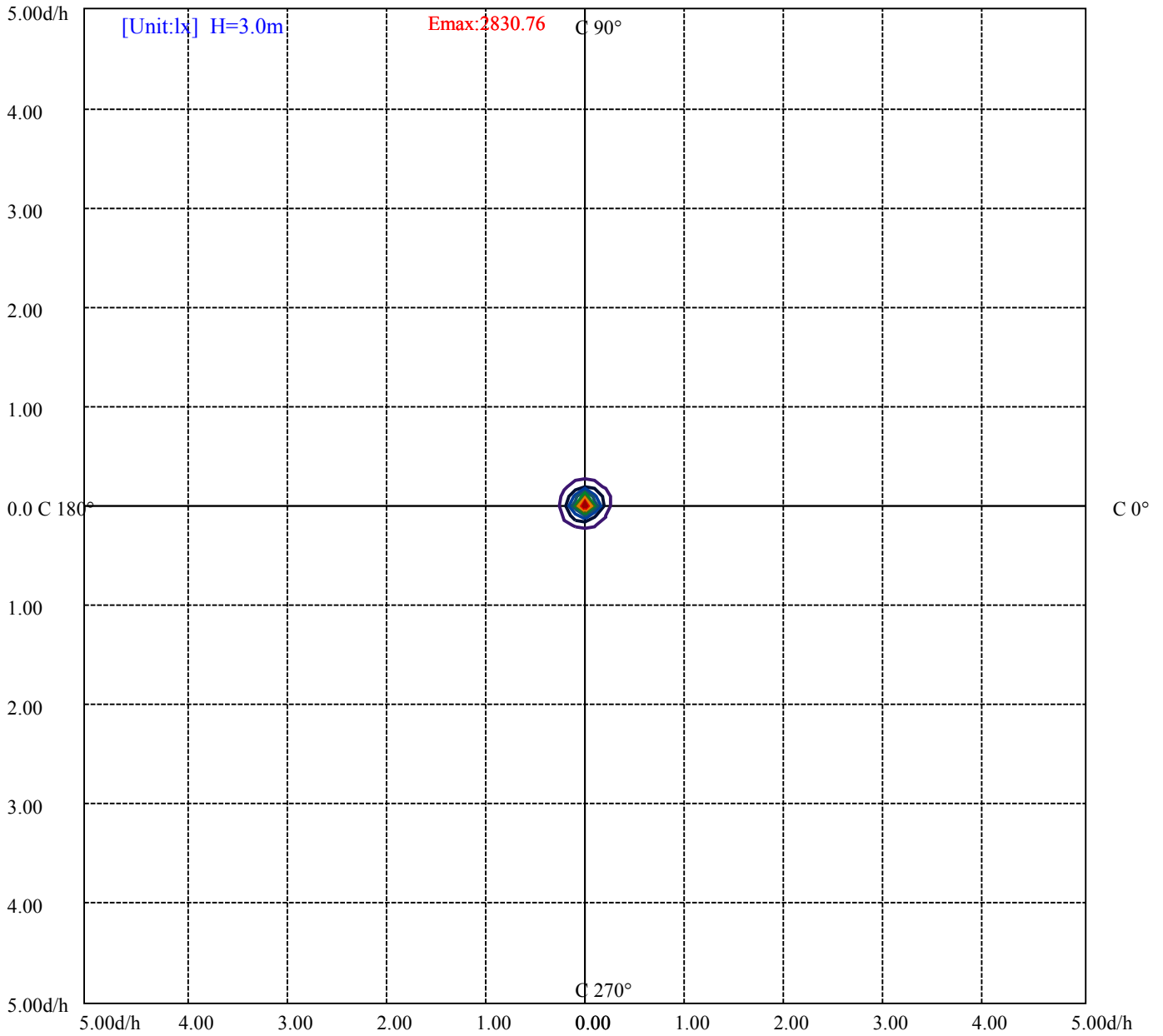


C30(Max): ——
C0/C180: ——
C90/C270: ——



Max , Ave C30面光束角13.02

ROLED 水下灯
平面等照度曲线



- (10%Emax) 283.0756
- (20%Emax) 566.1511
- (30%Emax) 849.2267
- (40%Emax) 1132.3
- (50%Emax) 1415.378
- (60%Emax) 1698.456
- (70%Emax) 1981.533
- (80%Emax) 2264.6
- (90%Emax) 2547.678

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ROLED 水下灯

灯具的亮度限制曲线(灯具无发光侧边)

亮度值表

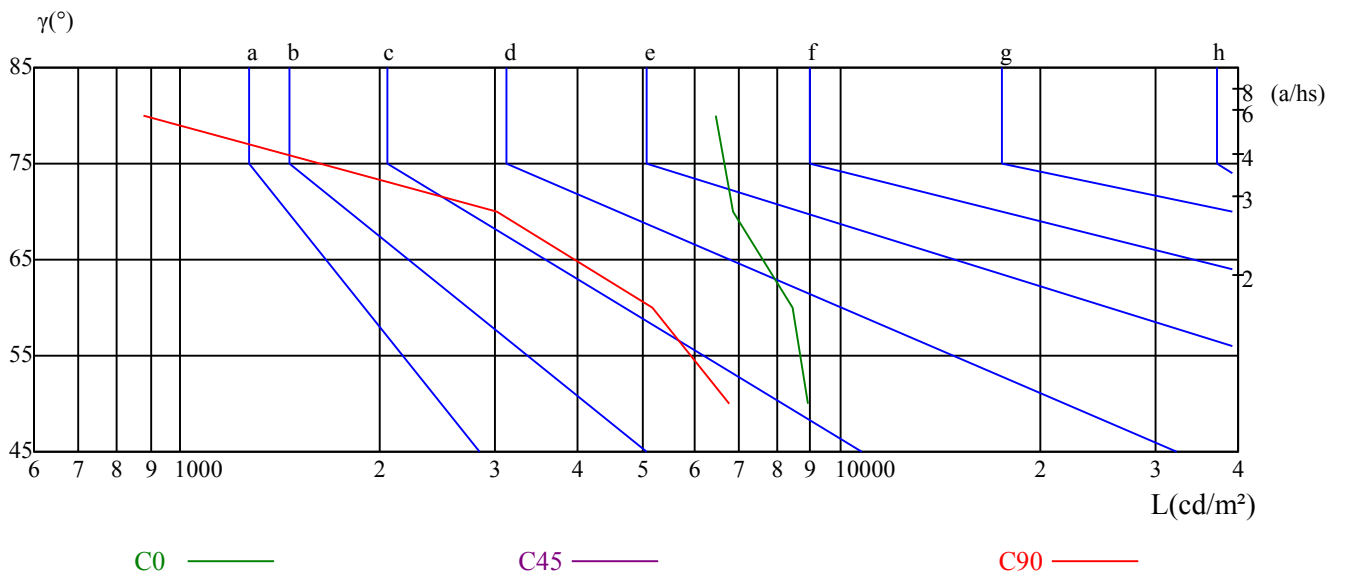
γ	45	50	55	60	65	70	75	80	85
C0	0	8927	0	8445	0	6855	0	6483	0
C45	0	0	0	0	0	0	0	0	0
C90	0	6772	0	5170	0	3020	0	877	0

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

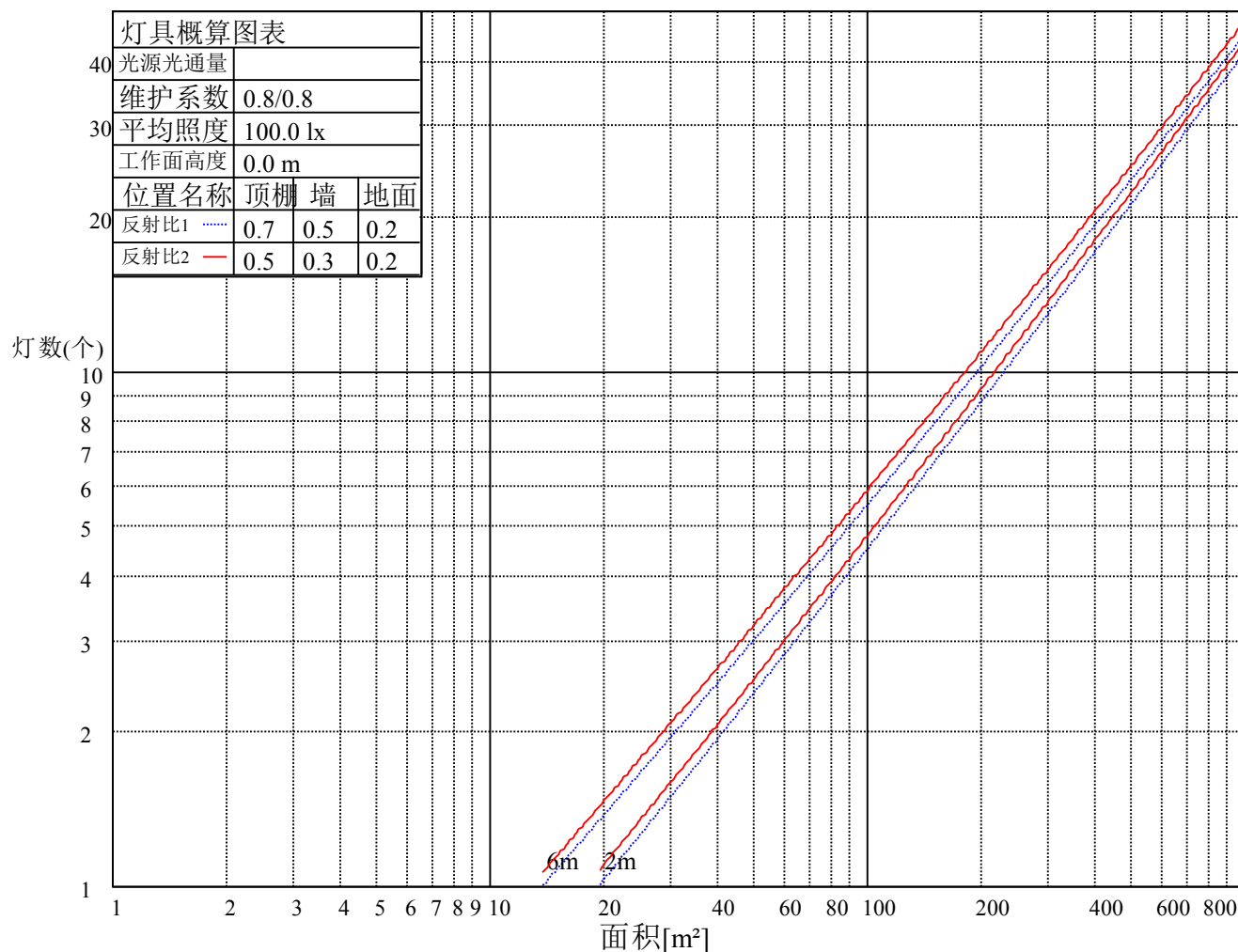
眩光等级	质量等级	使用照度(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	10.36	11.44	10.73	11.75	12.07	12.29	13.36	12.65	13.68	13.99
	3H	11.09	12.05	11.47	12.38	12.75	13.99	14.95	14.38	15.28	15.65
	4H	11.13	12.01	11.53	12.37	12.75	14.61	15.49	15.01	15.84	16.23
	6H	11.08	11.89	11.49	12.26	12.66	15.06	15.87	15.48	16.25	16.64
	8H	11.04	11.80	11.47	12.19	12.60	15.21	15.98	15.65	16.37	16.78
	12H	11.00	11.73	11.44	12.11	12.55	15.40	16.13	15.83	16.51	16.94
4H	2H	10.97	11.86	11.38	12.21	12.60	12.54	13.43	12.95	13.78	14.17
	3H	11.78	12.51	12.20	12.92	13.32	14.48	15.20	14.89	15.61	16.02
	4H	11.82	12.47	12.26	12.89	13.34	15.17	15.82	15.61	16.24	16.69
	6H	11.78	12.33	12.25	12.78	13.25	15.62	16.18	16.09	16.63	17.10
	8H	11.73	12.25	12.20	12.70	13.17	15.80	16.32	16.28	16.77	17.24
	12H	11.70	12.14	12.19	12.63	13.11	16.00	16.45	16.49	16.94	17.41
8H	4H	12.04	12.55	12.51	13.00	13.48	15.12	15.64	15.60	16.09	16.56
	6H	12.00	12.41	12.50	12.91	13.39	15.60	16.01	16.11	16.51	17.00
	8H	11.95	12.32	12.49	12.84	13.34	15.81	16.18	16.34	16.70	17.19
	12H	12.66	12.97	13.18	13.47	14.05	16.61	16.92	17.13	17.42	18.00
12H	4H	12.02	12.47	12.51	12.96	13.44	15.07	15.51	15.56	16.00	16.48
	6H	12.33	12.35	12.52	12.82	13.37	15.89	15.91	16.08	16.38	16.93
	8H	11.97	12.28	12.49	12.78	13.36	15.77	16.09	16.29	16.59	17.16
对应照射距离，改变观察者位置S											
S = 1.0H	0.5/-0.8					0.3/-0.5					
S = 1.5H	1.0/-1.7					1.0/-0.6					
S = 2.0H	3.2/-2.4					1.4/-0.8					
标准表格	BK2					BK2					
更正系数	-1.7					0.6					

ROLED 水下灯 灯具的概算曲线



ROLED 水下灯

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	1.11	1.09	1.07	1.09	1.07	1.05	1.05	1.04	1.02	1.01	1.00	0.99	0.98	0.97	0.96	0.94
2	1.05	1.01	0.98	1.03	1.00	0.97	1.00	0.97	0.95	0.97	0.95	0.93	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	0.77	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	0.71	0.69	0.74	0.71	0.69	0.68
10	0.75	0.70	0.67	0.75	0.70	0.67	0.74	0.70	0.67	0.73	0.70	0.67	0.73	0.69	0.67	0.66

ROLED 水下灯

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	23942.13	21732.09	16613.69	11357.16	7359.14	4872.84	3890.60	2610.61	1989.81
30.0	25507.58	24394.88	19591.11	13743.70	9116.43	5924.14	4174.53	3027.30	2262.99
60.0	25446.19	24517.66	19537.39	13699.96	8717.39	5854.31	4143.06	3055.69	2315.17
90.0	24901.35	25300.39	20726.83	14257.85	9008.99	5977.86	4212.89	3123.99	2402.65
120.0	25223.65	24747.88	19798.30	13336.99	8577.73	5667.84	4066.33	3031.90	2321.31
150.0	24049.56	23957.48	19445.31	13728.36	8786.46	5709.28	4021.05	3012.72	2282.94
180.0	23926.78	22215.54	15312.99	11783.83	7640.00	4977.20	3486.96	2597.57	1969.85
210.0	25507.58	22637.59	15158.75	11257.41	7372.18	4851.35	3499.23	2600.64	1961.41
240.0	25446.19	21808.83	15723.53	10351.90	6676.17	4596.58	3282.07	2471.72	1883.14
270.0	24901.35	19928.75	13633.20	8579.26	5585.73	3948.15	2914.49	2217.72	1702.81
300.0	25223.65	20964.71	14066.00	8962.95	5855.08	4097.79	3056.46	2338.96	1827.12
330.0	24049.56	20043.86	13873.39	9081.89	5910.33	4161.48	3026.53	2336.66	1792.59
360.0	23942.13	21732.09	16613.69	11357.16	7359.14	4872.84	3890.60	2610.61	1989.81
C/γ(°)	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0
0.0	1533.98	1224.73	970.73	789.63	650.73	555.58	479.61	426.66	387.52
30.0	1734.27	1359.02	1063.58	846.42	689.87	564.02	473.47	400.57	345.86
60.0	1796.43	1387.95	1082.54	868.82	698.31	576.68	480.53	406.56	349.92
90.0	1856.28	1464.15	1137.25	920.85	748.96	623.88	524.12	446.61	389.06
120.0	1821.75	1426.63	1136.94	909.26	736.22	606.69	513.60	437.10	378.47
150.0	1784.15	1388.95	1090.44	871.74	707.52	587.81	493.42	422.82	376.86
180.0	1516.80	1202.55	967.51	783.49	648.97	540.39	458.05	393.36	345.17
210.0	1522.24	1200.33	940.27	754.02	619.73	508.62	431.50	366.50	319.46
240.0	1461.85	1146.46	915.48	729.01	595.48	498.79	414.38	360.82	314.16
270.0	1360.40	1079.85	873.89	714.89	594.64	499.72	432.11	375.48	328.90
300.0	1416.58	1124.97	899.36	735.15	608.53	508.77	435.10	387.52	332.43
330.0	1411.05	1130.81	899.75	740.21	612.67	511.69	436.56	381.08	334.12
360.0	1533.98	1224.73	970.73	789.63	650.73	555.58	479.61	426.66	387.52
C/γ(°)	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0
0.0	337.80	306.41	278.33	254.23	233.67	215.40	198.44	185.01	173.27
30.0	302.35	269.43	241.49	219.16	201.44	185.94	173.20	162.30	153.09
60.0	307.87	271.73	242.95	220.70	200.52	183.33	168.59	155.39	141.96
90.0	342.02	302.88	270.65	238.35	194.99	170.66	154.01	140.35	127.46
120.0	334.50	297.59	267.89	242.95	221.93	196.37	167.75	150.71	137.36
150.0	324.91	292.06	263.67	240.19	219.62	201.97	185.40	170.59	155.93
180.0	304.96	272.42	247.10	224.76	205.04	188.31	174.81	163.22	153.63
210.0	282.39	254.00	229.14	209.49	193.61	179.26	167.83	157.85	148.95
240.0	278.48	249.63	225.15	205.66	188.47	173.12	160.07	148.41	135.75
270.0	294.52	264.59	238.50	196.68	173.58	156.08	142.81	131.22	119.02
300.0	296.36	267.12	242.11	221.16	202.20	172.35	154.78	142.81	130.84
330.0	298.43	270.73	245.87	225.76	208.19	193.38	180.03	167.83	157.01
360.0	337.80	306.41	278.33	254.23	233.67	215.40	198.44	185.01	173.27
C/γ(°)	54.0	56.0	58.0	60.0	62.0	64.0	66.0	68.0	70.0
0.0	163.30	154.09	145.19	136.13	127.46	118.79	109.20	88.02	75.59
30.0	144.19	135.98	127.46	118.87	110.50	101.68	92.39	83.26	74.13
60.0	130.30	118.87	107.20	95.85	84.33	72.36	60.62	51.18	40.98
90.0	116.03	105.21	94.39	83.34	71.90	62.16	53.26	43.43	33.30
120.0	125.54	115.11	104.06	93.01	82.65	70.52	59.16	49.42	39.98
150.0	143.35	132.60	124.16	116.33	103.90	93.24	85.18	77.35	67.68
180.0	145.42	136.90	129.30	121.09	113.80	105.97	95.08	83.41	74.21
210.0	140.43	131.99	123.47	114.80	106.05	97.07	88.63	79.58	70.21
240.0	124.62	113.96	102.29	91.16	79.88	67.38	56.48	46.50	36.14
270.0	108.51	98.07	86.71	75.05	65.46	55.71	45.66	35.61	25.25
300.0	119.56	109.58	98.15	88.09	76.81	64.69	54.33	44.97	34.30
330.0	147.80	139.28	129.38	118.48	103.21	93.77	85.10	76.05	66.99
360.0	163.30	154.09	145.19	136.13	127.46	118.79	109.20	88.02	75.59

测试设备: GMS1800
环境温度(°C): 25.0

测试日期: 2021/3/25
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	67.22	59.47	51.11	43.66	36.30	29.31	20.87	11.97	3.91
30.0	63.54	51.34	37.99	25.71	15.04	7.29	4.37	2.61	1.46
60.0	30.62	20.49	11.43	7.90	5.06	3.53	3.07	2.30	1.38
90.0	23.48	15.58	11.20	8.21	4.91	3.84	3.45	2.61	1.69
120.0	30.08	20.49	11.59	8.06	5.45	3.61	3.30	2.38	1.46
150.0	60.32	49.04	36.91	25.25	15.42	7.29	4.37	2.61	1.61
180.0	66.45	58.78	51.80	43.28	35.38	26.63	17.50	9.13	2.38
210.0	59.16	46.04	31.92	20.64	10.82	5.60	3.07	2.07	0.84
240.0	25.71	15.27	9.06	6.14	3.68	3.38	2.53	1.61	0.54
270.0	15.88	10.90	7.06	4.14	3.76	3.22	2.30	1.23	0.31
300.0	24.02	14.66	8.82	5.68	3.53	3.22	2.38	1.46	0.38
330.0	56.48	43.74	30.16	19.57	9.36	5.29	2.76	1.84	0.61
360.0	67.22	59.47	51.11	43.66	36.30	29.31	20.87	11.97	3.91
C/γ(°)	90.0								
0.0	0.23								
30.0	0.31								
60.0	0.38								
90.0	0.54								
120.0	0.38								
150.0	0.46								
180.0	0.31								
210.0	0.15								
240.0	0.00								
270.0	0.00								
300.0	0.08								
330.0	0.08								
360.0	0.23								