

浙大三色

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## ROLED

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灯具名称: 水下灯

灯具描述: U1034A-18-12DC (30-OL-18WN-AJ, CT)

报告编号:

电压(V): 12.3000

测试编号: 20210318006

电流(A): 1.5140

光源规格型号: OL

功率(W): 18.7000

每个光源光通量(lm)

功率因数: 1.0120

光源数量: 18

镇流器型号:

发光面长度(mm): 170

发光面宽度(mm): 170

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): 1907.82

灯具效能(lm/w): 102.02

中心光强(cd): 5221.994

最大光强(cd): 5241.945

最大光强角度: C=30.0  $\gamma=0.0$

半峰边角(50%Imax): [C0/180]Total=28.7

[C90/270]Total=28.8

光束扩散角(10%Imax): [C0/180]Total=55.3

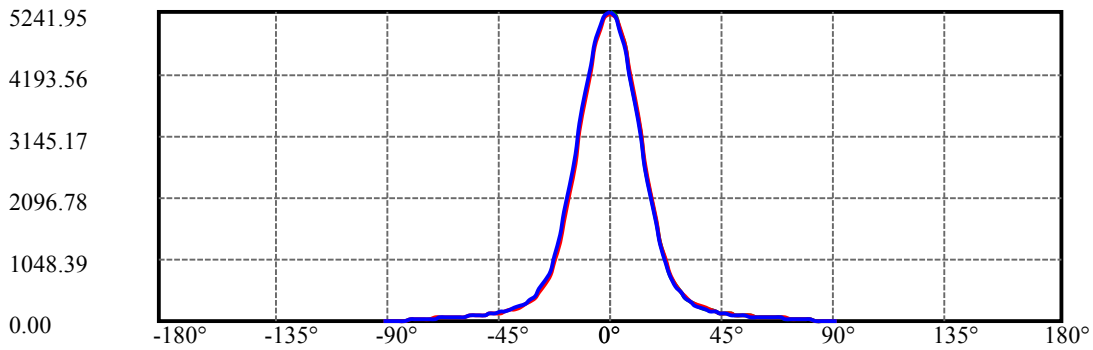
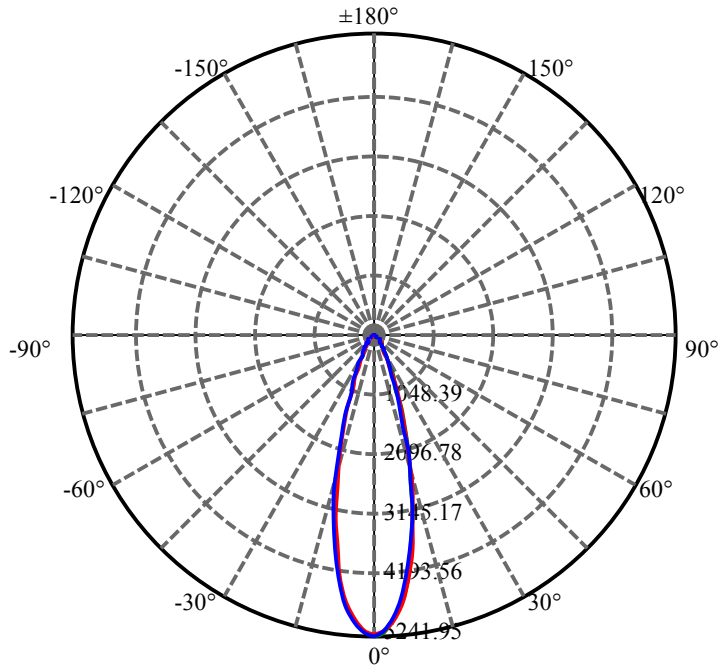
[C90/270]Total=55.6

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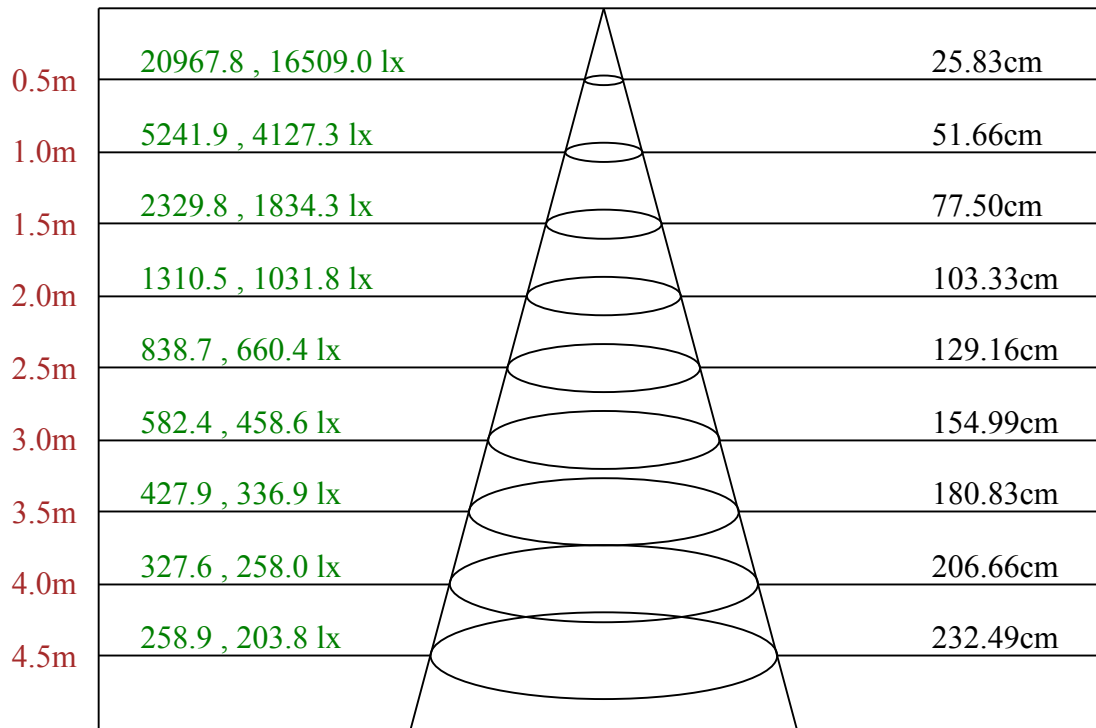
测试设备: GMS1800  
环境温度(°C): 25.0

测试日期: 2021/3/18  
环境湿度(%): 60.0%

测试人员: anpeilou  
测试距离(m): 8.76

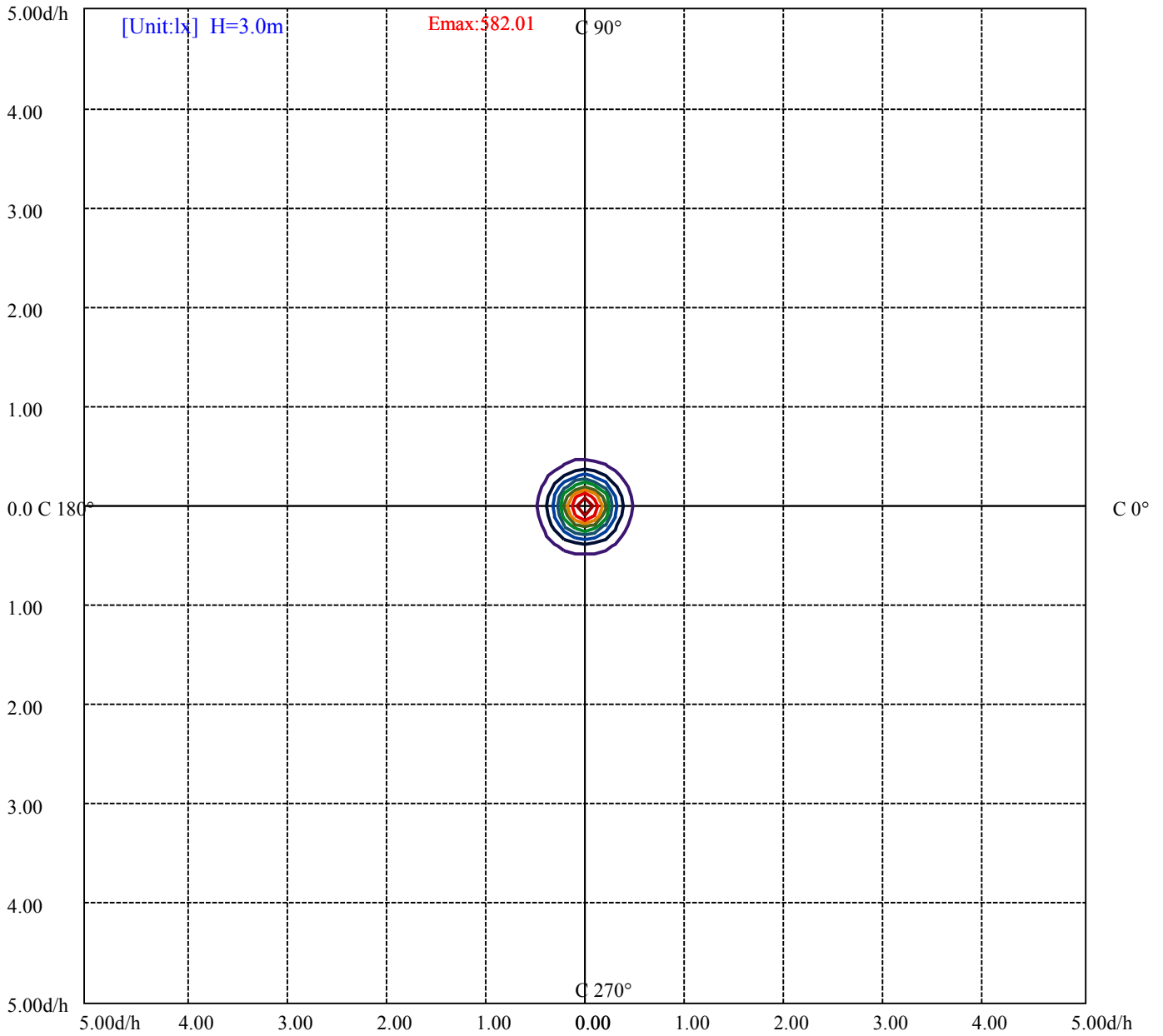


C30(Max): ————  
C0/C180: ————  
C90/C270: ————



Max , Ave    C30面光束角28.97

ROLED 水下灯  
平面等照度曲线



- (10%Emax) 58.20111
- (20%Emax) 116.4022
- (30%Emax) 174.6033
- (40%Emax) 232.8044
- (50%Emax) 291.0056
- (60%Emax) 349.2067
- (70%Emax) 407.4078
- (80%Emax) 465.6089
- (90%Emax) 523.81

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测试日期: 2021/3/18  
环境湿度(%): 60.0%

测试人员: anpeilou  
测试距离(m): 8.76

# ROLED 水下灯

## 灯具的亮度限制曲线(灯具无发光侧边)

附页 第 5页 共8页

亮度值表

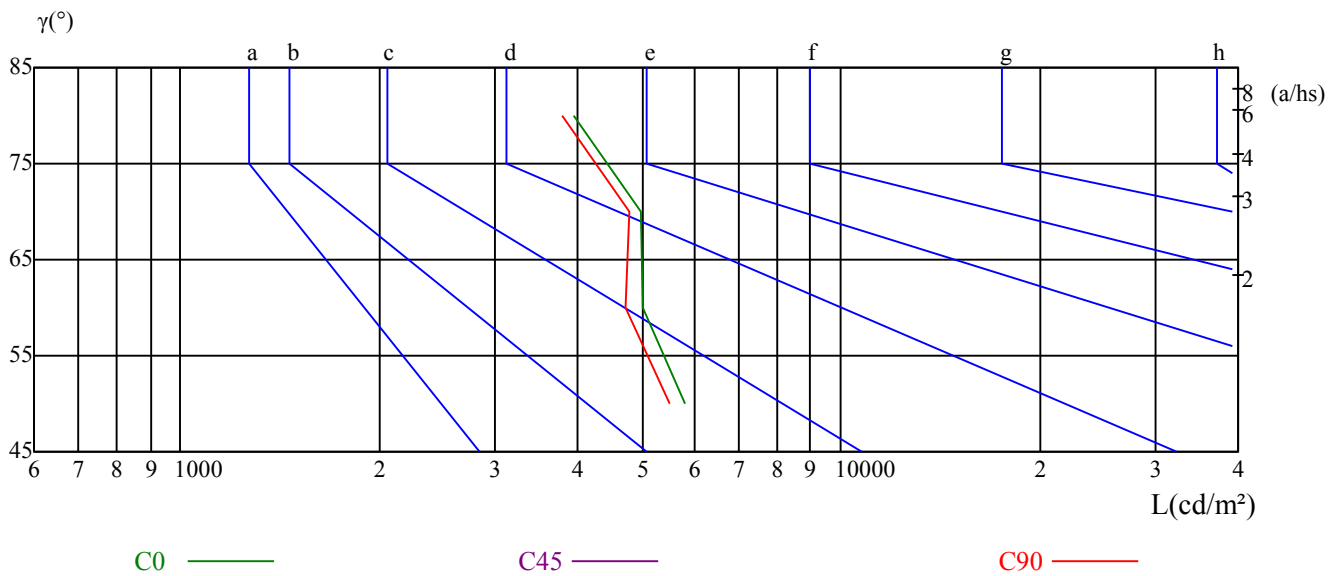
$\gamma$	45	50	55	60	65	70	75	80	85
C0	0	5829	0	5013	0	4992	0	3945	0
C45	0	0	0	0	0	0	0	0	0
C90	0	5502	0	4716	0	4782	0	3777	0

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



测试设备: GMS1800  
环境温度(°C): 25.0

测试日期: 2021/3/18  
环境湿度(%): 60.0%

测试人员: anpeilou  
测试距离(m): 8.76

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	11.38	12.48	11.74	12.79	13.11	11.55	12.66	11.92	12.97	13.28
	3H	13.27	14.25	13.65	14.58	14.94	13.48	14.46	13.86	14.79	15.16
	4H	13.99	14.90	14.39	15.25	15.64	14.22	15.13	14.63	15.48	15.87
	6H	14.46	15.30	14.88	15.67	16.07	14.71	15.55	15.13	15.92	16.32
	8H	14.57	15.36	15.01	15.75	16.16	14.83	15.61	15.26	16.01	16.41
	12H	14.65	15.40	15.08	15.78	16.22	14.91	15.66	15.34	16.04	16.48
4H	2H	11.97	12.88	12.38	13.23	13.62	12.11	13.02	12.52	13.37	13.76
	3H	14.11	14.86	14.53	15.27	15.67	14.25	15.00	14.67	15.41	15.81
	4H	14.96	15.62	15.39	16.05	16.49	15.11	15.78	15.55	16.20	16.65
	6H	15.44	16.02	15.91	16.46	16.94	15.61	16.18	16.08	16.63	17.11
	8H	15.58	16.12	16.06	16.57	17.04	15.76	16.29	16.23	16.74	17.22
	12H	15.66	16.13	16.15	16.61	17.09	15.84	16.31	16.33	16.79	17.27
8H	4H	15.24	15.77	15.71	16.22	16.69	15.37	15.90	15.84	16.35	16.83
	6H	15.86	16.29	16.37	16.79	17.28	16.00	16.42	16.50	16.92	17.41
	8H	16.07	16.45	16.60	16.97	17.46	16.20	16.58	16.73	17.10	17.60
	12H	16.62	16.95	17.14	17.45	18.03	16.76	17.09	17.28	17.59	18.17
12H	4H	15.24	15.70	15.73	16.19	16.67	15.37	15.84	15.86	16.32	16.80
	6H	16.28	16.28	16.43	16.75	17.30	16.41	16.41	16.56	16.88	17.43
	8H	16.14	16.47	16.66	16.97	17.55	16.27	16.60	16.79	17.10	17.67
对应照射距离，改变观察者位置S											
S = 1.0H	0.4/-0.6					0.4/-0.6					
S = 1.5H	0.8/-0.8					0.9/-0.8					
S = 2.0H	1.6/-0.8					1.7/-0.8					
标准表格	BK3					BK3					
更正系数	-0.6					-0.4					

# ROLED 水下灯

## 光强数据表(cd)

附页 第7页 共8页

C/γ(°)	0.0	2.0	4.0	6.0	8.0	10.0	12.0	14.0	16.0
0.0	5221.99	5157.53	4972.60	4662.58	4253.57	3782.40	3233.72	2702.70	2182.42
30.0	5241.95	5169.81	4959.55	4644.16	4209.82	3723.31	3187.68	2647.45	2157.86
60.0	5234.27	5121.47	4878.98	4553.61	4094.72	3578.27	3065.67	2518.53	2035.85
90.0	5232.74	5142.95	4913.51	4600.42	4161.48	3674.20	3139.34	2606.01	2121.03
120.0	5227.37	5123.00	4891.25	4577.40	4130.79	3645.80	3083.32	2566.11	2060.40
150.0	5225.06	5162.14	4964.92	4664.88	4251.26	3782.40	3258.28	2721.12	2228.46
180.0	5221.99	5153.70	4941.13	4649.53	4231.31	3739.42	3235.26	2685.82	2190.86
210.0	5241.95	5182.86	5004.06	4709.39	4315.72	3849.16	3295.11	2787.11	2257.62
240.0	5234.27	5203.58	5051.64	4777.68	4432.36	3966.57	3434.01	2903.75	2368.89
270.0	5232.74	5186.69	5004.06	4736.24	4346.42	3885.22	3362.64	2831.62	2300.59
300.0	5227.37	5193.60	5038.59	4763.10	4387.09	3936.64	3404.08	2905.29	2352.77
330.0	5225.06	5159.84	4971.83	4673.32	4265.08	3794.67	3270.56	2741.83	2213.11
360.0	5221.99	5157.53	4972.60	4662.58	4253.57	3782.40	3233.72	2702.70	2182.42
C/γ(°)	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0
0.0	1731.20	1347.51	1045.93	801.91	630.02	501.10	410.55	340.48	285.46
30.0	1699.74	1329.10	1001.43	781.19	611.60	491.89	399.80	332.58	282.32
60.0	1522.09	1230.41	942.18	738.29	578.37	462.50	380.31	314.01	264.05
90.0	1672.11	1289.96	983.78	767.38	600.09	481.91	392.13	324.98	272.57
120.0	1521.63	1265.56	967.97	757.17	591.65	472.63	383.92	319.84	268.58
150.0	1766.50	1367.46	1045.17	814.95	635.39	505.70	414.38	342.56	289.38
180.0	1705.11	1336.62	1020.99	797.00	621.04	494.80	405.94	334.19	280.32
210.0	1814.84	1418.80	1097.12	844.11	659.94	522.28	424.51	353.38	295.06
240.0	1896.19	1483.34	1154.13	881.72	687.57	543.30	439.71	374.86	301.89
270.0	1851.68	1450.65	1105.41	862.53	673.07	539.54	433.80	361.05	301.12
300.0	1885.44	1476.43	1150.30	880.18	688.34	551.74	442.78	389.06	305.34
330.0	1772.64	1383.73	1070.26	825.24	648.20	515.60	424.59	351.77	294.90
360.0	1731.20	1347.51	1045.93	801.91	630.02	501.10	410.55	340.48	285.46
C/γ(°)	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0
0.0	245.18	212.79	185.86	163.45	146.42	130.84	118.71	108.28	98.99
30.0	241.88	209.80	183.56	162.91	144.80	129.69	117.87	107.28	98.15
60.0	225.92	197.37	172.81	152.63	136.67	122.78	111.50	101.83	94.00
90.0	234.82	203.12	177.42	157.08	139.20	125.16	112.73	102.21	93.24
120.0	231.36	200.29	175.35	155.01	138.05	124.85	113.34	104.13	95.69
150.0	246.63	213.18	186.01	163.91	146.42	130.91	118.87	108.12	99.45
180.0	239.27	208.50	182.41	161.92	143.96	129.15	116.95	107.20	98.38
210.0	254.00	219.78	191.23	168.36	150.18	133.75	121.25	110.12	100.45
240.0	257.53	222.16	192.92	170.05	150.64	133.98	120.32	109.81	100.14
270.0	258.91	223.69	193.99	171.28	151.10	133.75	119.71	108.51	98.15
300.0	261.14	225.61	197.68	172.89	153.32	136.36	122.55	111.88	101.91
330.0	254.85	221.16	192.61	169.67	151.33	134.83	121.40	110.58	100.68
360.0	245.18	212.79	185.86	163.45	146.42	130.84	118.71	108.28	98.99
C/γ(°)	54.0	56.0	58.0	60.0	62.0	64.0	66.0	68.0	70.0
0.0	91.09	84.10	78.04	72.44	67.84	63.16	58.78	54.33	49.34
30.0	90.32	83.72	77.43	72.06	66.92	62.16	57.63	53.18	47.96
60.0	86.64	80.42	74.67	69.52	64.77	60.55	56.40	52.26	47.73
90.0	85.64	79.27	73.21	68.14	63.31	58.93	55.10	51.49	47.27
120.0	88.32	81.88	76.35	71.14	66.38	62.08	58.01	53.87	49.27
150.0	91.09	84.41	78.12	72.52	67.61	62.77	58.47	54.02	49.11
180.0	90.63	84.10	78.12	72.67	67.61	63.39	59.32	55.10	50.34
210.0	92.32	85.03	78.73	72.98	67.91	63.08	58.55	54.33	49.27
240.0	92.09	84.95	78.35	72.59	67.68	62.92	58.55	54.48	50.03
270.0	89.86	82.19	75.36	69.75	63.92	59.16	54.79	50.65	46.43
300.0	93.70	86.33	79.50	73.59	68.76	63.92	59.16	54.94	49.88
330.0	92.70	85.26	78.43	72.75	67.68	62.54	57.78	53.41	47.96
360.0	91.09	84.10	78.04	72.44	67.84	63.16	58.78	54.33	49.34

ROLED 水下灯

光强数据表(cd)

附页 第 8页 共8页

C/γ(°)	72.0	74.0	76.0	78.0	80.0	82.0	84.0	86.0	88.0
0.0	43.82	38.06	32.38	26.24	19.80	12.74	6.68	1.46	0.61
30.0	42.51	36.68	30.77	25.25	19.18	13.05	6.52	1.69	0.54
60.0	42.51	36.22	30.46	24.86	18.65	12.51	6.45	1.69	0.61
90.0	42.13	36.45	30.54	25.09	18.95	12.97	6.75	2.07	0.84
120.0	44.05	38.06	31.77	26.40	20.18	13.74	7.75	2.30	0.77
150.0	43.82	38.29	32.15	26.55	20.80	14.20	8.21	2.92	0.84
180.0	45.12	39.06	33.07	27.40	20.95	14.66	8.67	2.84	0.84
210.0	43.97	37.91	32.15	26.55	20.72	14.50	8.44	2.99	0.92
240.0	44.89	38.98	33.23	27.63	21.95	15.35	8.90	3.68	1.00
270.0	41.67	35.99	30.08	24.79	18.88	12.74	7.29	2.46	0.69
300.0	44.74	38.52	32.84	27.01	21.10	13.97	8.06	2.30	0.61
330.0	42.74	36.37	30.77	24.63	18.11	12.58	6.29	1.53	0.54
360.0	43.82	38.06	32.38	26.24	19.80	12.74	6.68	1.46	0.61

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