

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 (15-OL-18WN-AJ, CT)

报告编号:

电压(V): 12.2000

测试编号: 20210318002

电流(A): 1.5260

光源规格型号: OL

功率(W): 18.6000

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): 1957.31

灯具效能(lm/w): 105.23

中心光强(cd): 14616.980

最大光强(cd): 14744.360

最大光强角度:  $C=30.0$   $\gamma=0.0$

半峰边角(50%Imax): [C0/180]Total=14.8

[C90/270]Total=15.0

光束扩散角(10%Imax): [C0/180]Total=32.4

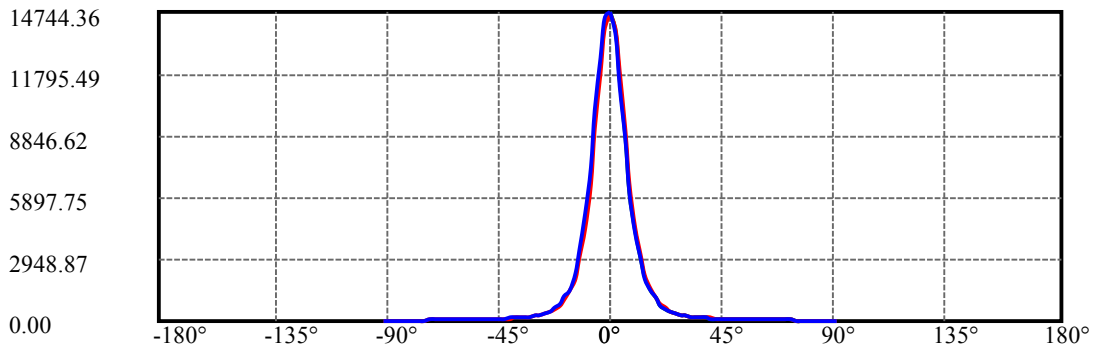
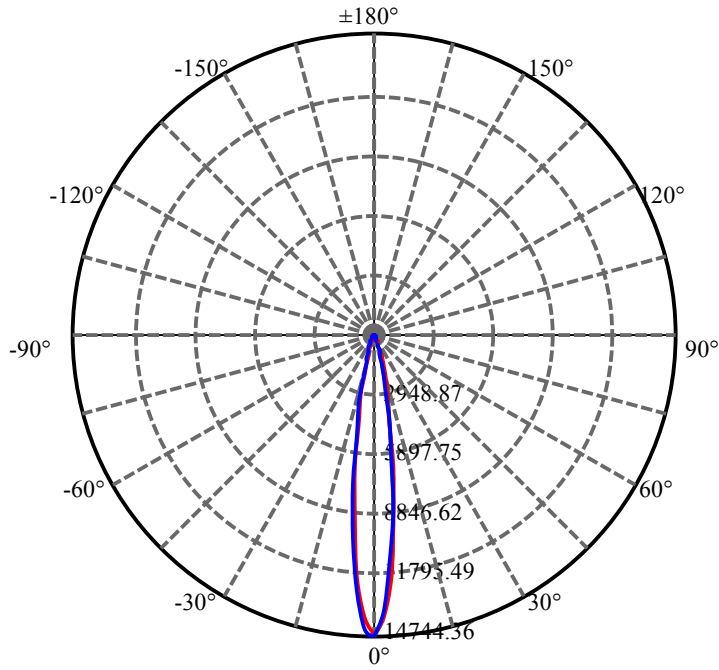
[C90/270]Total=32.3

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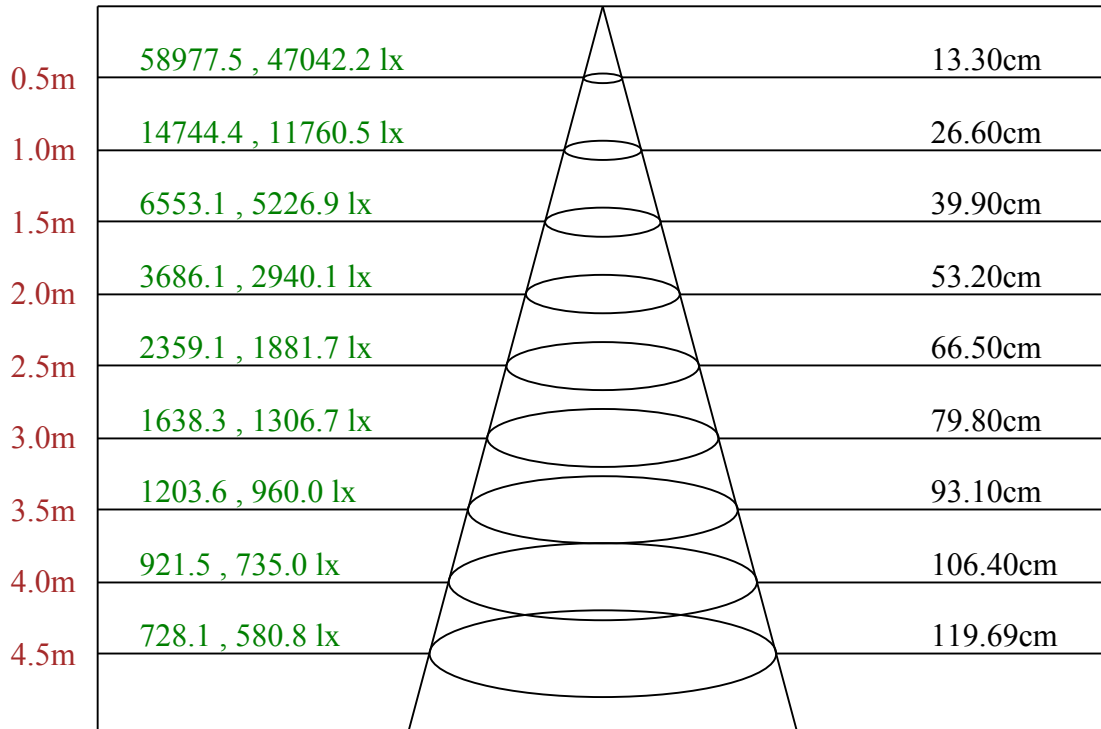
测试设备: GMS1800  
环境温度(°C): 25.0

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

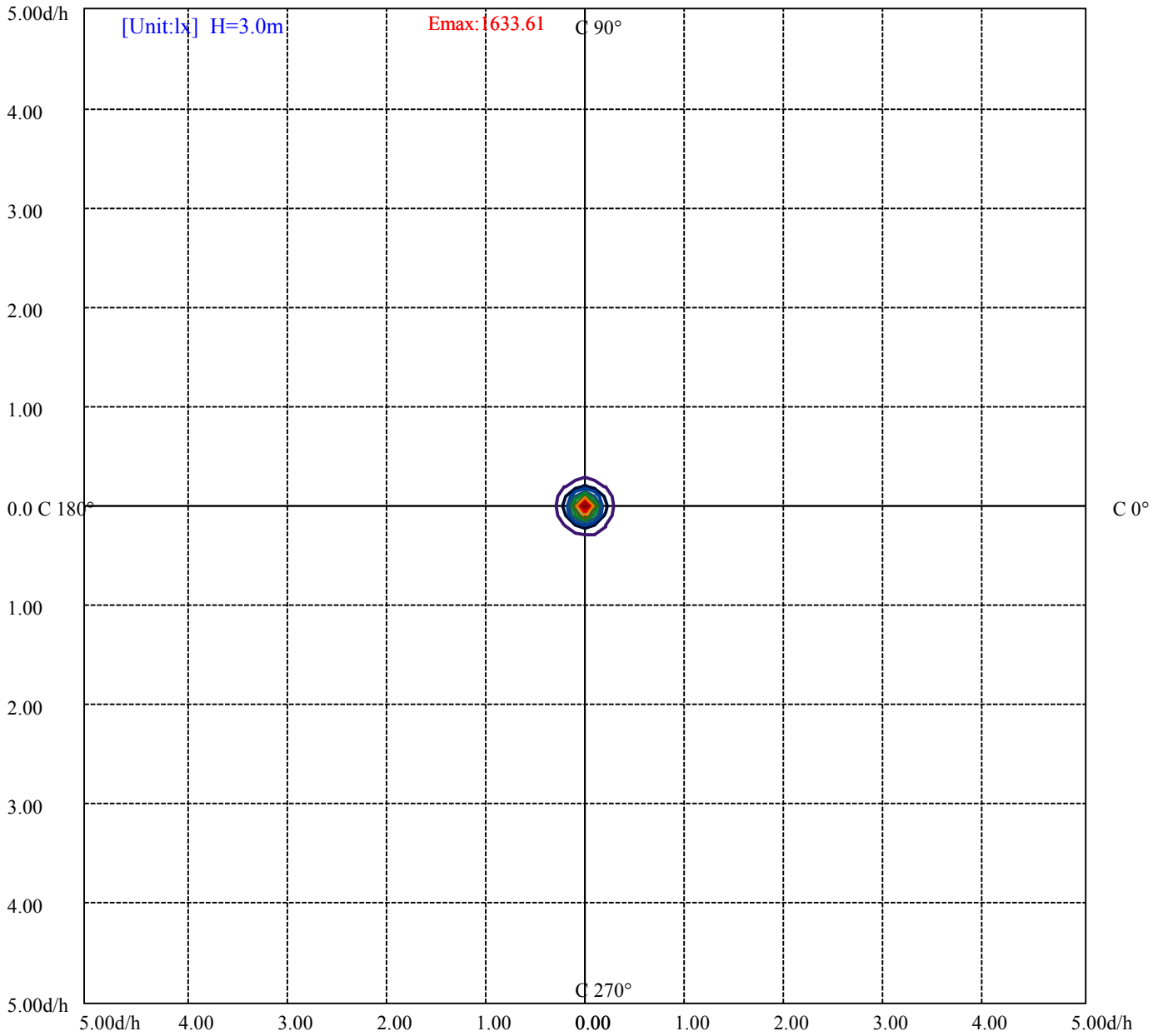


C30(Max): ——  
C0/C180: ——  
C90/C270: ——



Max , Ave    C30面光束角15.15

ROLED 水下灯  
平面等照度曲线



- (10%Emax) 163.36
- (20%Emax) 326.7211
- (30%Emax) 490.0811
- (40%Emax) 653.4422
- (50%Emax) 816.8022
- (60%Emax) 980.1622
- (70%Emax) 1143.522
- (80%Emax) 1306.889
- (90%Emax) 1470.245

测试设备: GMS1800  
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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

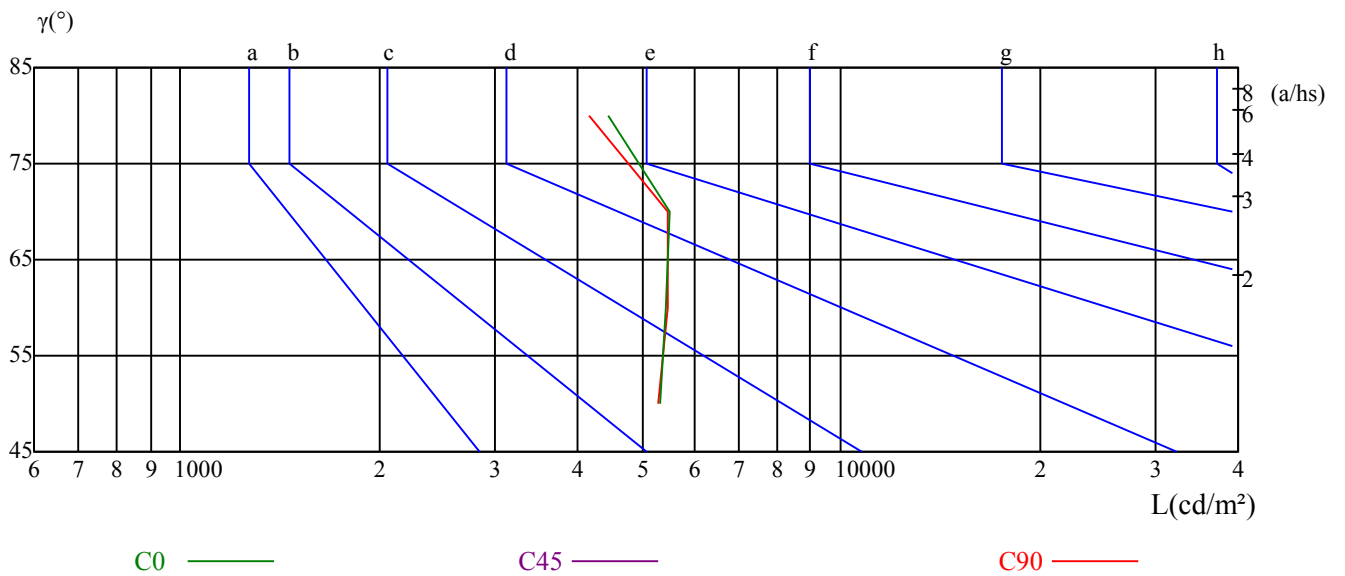
$\gamma$	45	50	55	60	65	70	75	80	85
C0	0	5325	0	5427	0	5512	0	4434	0
C45	0	0	0	0	0	0	0	0	0
C90	0	5308	0	5470	0	5458	0	4144	0

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

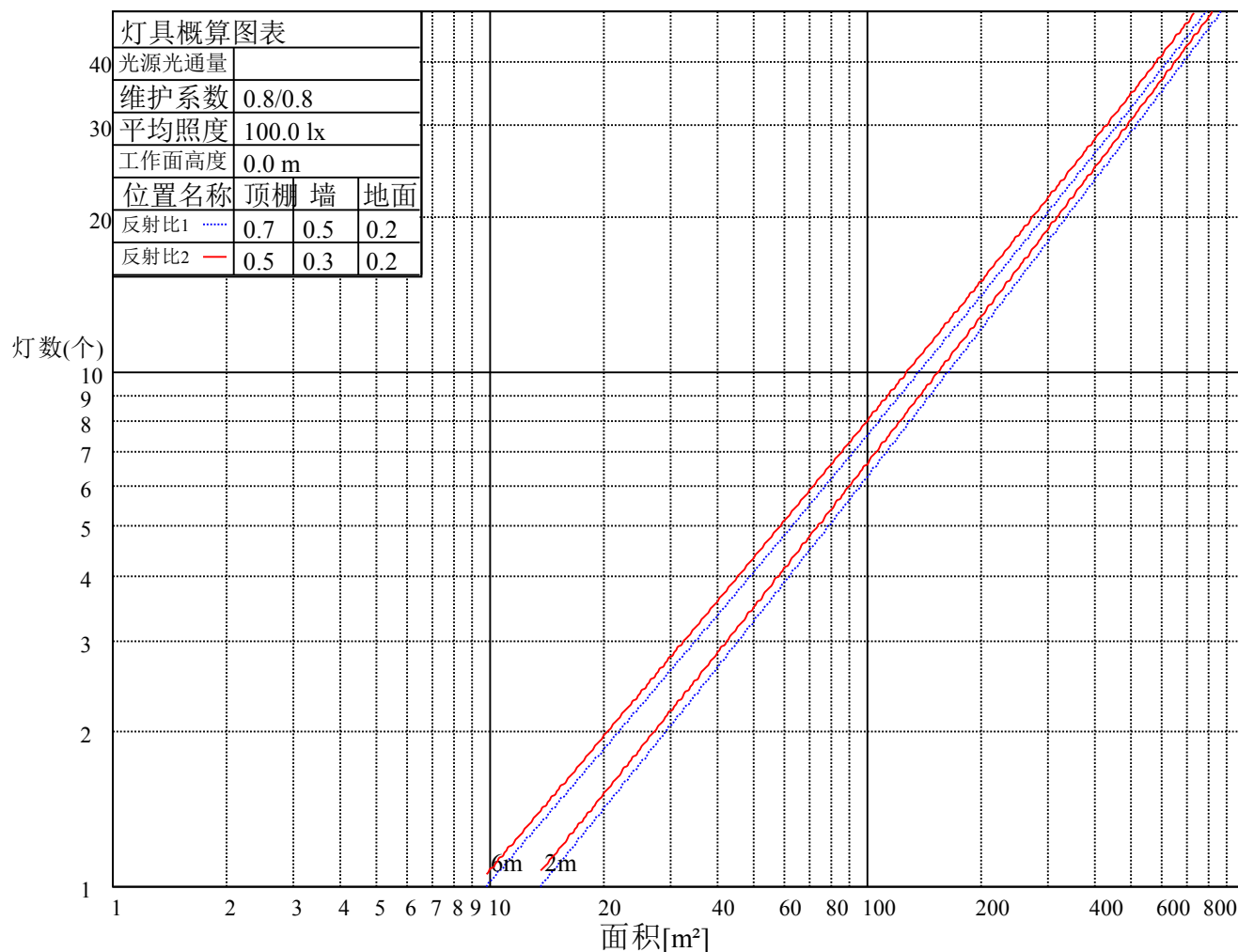
眩光等级	质量等级	使用照度(lx)							
1.15	A	2000	1000	500	$\leq 300$				
1.5	B		2000	1000	500	$\leq 300$			
1.85	C			2000	1000	500	$\leq 300$		
2.2	D				2000	1000	500	$\leq 300$	
2.55	E					2000	1000	500	$\leq 300$
		a	b	c	d	e	f	g	h

亮度限制曲线



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	11.73	12.81	12.10	13.12	13.44	11.61	12.69	11.98	13.00	13.32
	3H	13.83	14.79	14.21	15.12	15.49	13.71	14.67	14.09	15.01	15.37
	4H	14.55	15.45	14.96	15.80	16.19	14.45	15.34	14.85	15.69	16.08
	6H	15.04	15.86	15.45	16.23	16.62	14.95	15.76	15.36	16.14	16.53
	8H	15.15	15.92	15.59	16.31	16.72	15.07	15.84	15.50	16.23	16.64
	12H	15.24	15.97	15.67	16.36	16.79	15.16	15.90	15.59	16.28	16.71
4H	2H	12.39	13.28	12.79	13.63	14.02	12.30	13.19	12.70	13.54	13.93
	3H	14.65	15.38	15.06	15.79	16.19	14.56	15.29	14.97	15.70	16.10
	4H	15.47	16.13	15.91	16.56	17.00	15.39	16.05	15.83	16.47	16.92
	6H	15.96	16.53	16.43	16.98	17.45	15.89	16.45	16.36	16.90	17.37
	8H	16.11	16.64	16.59	17.09	17.56	16.05	16.57	16.52	17.02	17.49
	12H	16.20	16.65	16.69	17.14	17.62	16.14	16.59	16.63	17.08	17.56
8H	4H	15.72	16.25	16.20	16.70	17.17	15.65	16.17	16.12	16.62	17.10
	6H	16.34	16.76	16.85	17.26	17.75	16.28	16.70	16.79	17.20	17.68
	8H	16.55	16.92	17.08	17.44	17.94	16.49	16.87	17.02	17.39	17.88
	12H	17.15	17.47	17.67	17.97	18.55	17.09	17.41	17.62	17.91	18.49
12H	4H	15.72	16.18	16.21	16.67	17.14	15.65	16.10	16.14	16.59	17.07
	6H	16.73	16.74	16.90	17.21	17.76	16.67	16.68	16.84	17.15	17.70
	8H	16.62	16.94	17.14	17.43	18.01	16.56	16.88	17.08	17.38	17.96
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/-0.5					0.8/-0.5					
S = 2.0H	0.9/-0.6					0.9/-0.6					
标准表格	BK3					BK3					
更正系数	-0.5					-0.4					

# 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	1.03	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	0.96	1.00	0.97	0.94	0.97	0.94	0.92	0.94	0.92	0.90	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	0.85
4	0.94	0.89	0.86	0.93	0.89	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	0.82	0.89	0.85	0.81	0.87	0.83	0.80	0.86	0.82	0.80	0.84	0.81	0.79	0.78
6	0.87	0.82	0.78	0.86	0.81	0.78	0.84	0.80	0.77	0.83	0.80	0.77	0.82	0.79	0.76	0.75
7	0.84	0.79	0.75	0.83	0.78	0.75	0.82	0.78	0.75	0.81	0.77	0.74	0.80	0.76	0.74	0.73
8	0.81	0.76	0.73	0.80	0.76	0.73	0.79	0.75	0.72	0.78	0.75	0.72	0.78	0.74	0.72	0.71
9	0.79	0.74	0.71	0.78	0.74	0.71	0.77	0.73	0.70	0.76	0.73	0.70	0.76	0.72	0.70	0.69
10	0.76	0.72	0.69	0.76	0.72	0.69	0.75	0.71	0.69	0.75	0.71	0.69	0.74	0.71	0.68	0.67



# ROLED 水下灯

光强数据表(cd)

C/γ(°)	0.0	2.0	4.0	6.0	8.0	10.0	12.0	14.0	16.0
0.0	14616.98	13847.30	11865.94	9111.06	6559.53	4488.38	3087.15	2164.00	1561.61
30.0	14744.36	13764.42	11456.16	8713.55	6169.70	4288.86	2941.35	2061.17	1493.31
60.0	14660.72	13234.93	10766.29	8189.44	5726.93	3919.76	2762.55	1942.23	1421.26
90.0	14709.83	13538.81	11201.39	8629.91	6116.75	4252.80	2920.63	2048.89	1482.57
120.0	14620.05	13373.83	11047.91	8497.92	5960.98	4047.14	2811.67	1950.67	1393.94
150.0	14633.86	13882.60	11814.52	9165.54	6539.58	4516.78	3031.90	2115.66	1481.80
180.0	14616.98	13807.40	11833.71	9182.42	6495.84	4386.32	2995.07	2037.38	1466.07
210.0	14744.36	14219.48	12363.96	9673.54	6960.10	4679.46	3178.47	2163.23	1516.72
240.0	14660.72	14509.55	12970.19	10335.02	7732.85	5315.61	3506.14	2380.40	1656.76
270.0	14709.83	14360.67	12539.69	10053.39	7326.14	5085.40	3410.22	2331.29	1509.51
300.0	14620.05	14363.74	12794.46	10192.29	7636.16	5278.01	3521.49	2427.21	1705.11
330.0	14633.86	13943.22	11884.35	9347.41	6739.10	4681.76	3108.64	2194.70	1524.39
360.0	14616.98	13847.30	11865.94	9111.06	6559.53	4488.38	3087.15	2164.00	1561.61
C/γ(°)	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0
0.0	1105.02	804.98	605.46	468.10	391.36	306.57	257.76	220.16	192.69
30.0	1067.42	776.58	585.51	458.89	387.52	299.97	251.93	215.40	188.39
60.0	1002.58	748.04	567.78	445.08	352.53	289.68	245.64	210.72	184.48
90.0	1058.98	773.52	583.21	456.59	389.83	298.59	250.86	215.25	187.47
120.0	992.29	735.76	559.19	441.09	350.46	289.07	244.33	211.95	185.86
150.0	1052.84	771.21	573.23	453.52	374.02	297.97	250.63	216.86	189.31
180.0	1048.39	757.32	575.15	455.13	360.28	294.75	250.24	213.64	187.62
210.0	1107.40	799.61	605.46	465.41	373.71	303.73	257.61	220.08	190.92
240.0	1194.80	859.46	648.43	497.26	395.20	320.53	269.58	229.98	198.83
270.0	1189.74	853.25	641.91	496.34	391.05	318.31	264.44	227.76	197.06
300.0	1227.03	882.48	666.08	508.77	400.57	323.53	271.11	231.13	201.82
330.0	1125.20	813.80	608.38	478.92	377.93	306.26	257.15	221.77	192.46
360.0	1105.02	804.98	605.46	468.10	391.36	306.57	257.76	220.16	192.69
C/γ(°)	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0
0.0	169.44	151.86	137.67	126.69	117.87	110.20	104.13	98.91	94.16
30.0	166.75	149.56	135.67	124.93	115.49	107.97	102.06	96.84	92.47
60.0	163.53	147.49	133.75	123.39	114.57	107.20	101.29	96.46	92.24
90.0	167.06	149.64	135.90	125.62	116.72	109.96	103.75	98.61	94.31
120.0	165.68	150.18	137.13	126.85	117.41	110.35	104.29	99.38	94.77
150.0	167.98	150.64	136.90	126.54	117.56	110.43	104.13	98.68	94.00
180.0	165.22	149.02	135.21	124.85	115.80	108.51	102.29	96.77	92.39
210.0	170.13	152.55	138.13	126.54	117.72	109.43	103.29	97.53	92.47
240.0	176.11	157.54	142.04	129.61	120.02	111.58	104.90	99.14	94.00
270.0	174.96	156.16	140.58	129.46	120.09	112.19	105.90	100.53	95.77
300.0	177.57	159.15	143.88	132.14	122.47	114.26	107.89	102.14	97.15
330.0	171.36	153.32	138.66	127.54	118.71	110.81	104.67	99.45	94.69
360.0	169.44	151.86	137.67	126.69	117.87	110.20	104.13	98.91	94.16
C/γ(°)	54.0	56.0	58.0	60.0	62.0	64.0	66.0	68.0	70.0
0.0	89.94	85.95	82.19	78.43	74.90	70.52	65.92	60.62	54.48
30.0	88.25	84.87	81.88	78.73	75.13	70.52	65.38	59.63	52.95
60.0	87.94	84.49	81.27	77.66	73.59	68.99	64.00	58.24	51.95
90.0	90.09	86.41	82.65	79.04	75.13	70.45	65.61	60.39	53.95
120.0	90.40	86.56	82.95	79.42	75.20	70.29	65.00	59.24	52.80
150.0	89.78	85.56	81.50	77.89	73.82	69.37	64.38	59.01	53.26
180.0	88.02	84.10	80.11	76.35	72.44	68.30	63.69	58.40	52.72
210.0	87.94	83.95	80.42	77.27	73.67	69.29	64.15	59.09	52.72
240.0	89.48	85.33	81.42	77.81	74.36	69.98	64.84	60.01	53.56
270.0	91.78	87.56	83.72	80.11	76.12	71.75	66.92	61.77	55.02
300.0	92.93	88.86	85.18	81.57	77.89	73.28	68.07	62.08	55.86
330.0	90.47	86.33	82.42	78.73	74.59	70.14	65.23	59.86	53.26
360.0	89.94	85.95	82.19	78.43	74.90	70.52	65.92	60.62	54.48

# ROLED 水下灯

## 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	47.58	41.28	34.53	28.16	22.25	14.58	8.29	2.46	0.77
30.0	46.04	39.83	32.84	26.63	20.87	13.28	7.52	1.92	0.61
60.0	44.97	38.37	31.16	25.63	19.34	12.20	6.37	1.46	0.54
90.0	47.04	40.59	33.46	27.17	20.80	13.43	7.06	1.61	0.61
120.0	45.74	38.98	32.00	26.24	19.88	12.82	7.06	1.46	0.54
150.0	46.43	40.29	33.46	27.47	21.49	14.43	8.36	2.53	0.84
180.0	46.04	40.06	32.92	27.40	21.64	14.96	8.75	2.92	0.77
210.0	46.20	39.83	33.53	27.63	21.95	15.19	9.29	3.30	0.92
240.0	47.27	41.05	34.76	28.47	23.25	16.11	10.05	4.07	0.92
270.0	48.04	41.82	34.76	28.47	22.48	15.65	9.75	3.45	0.92
300.0	48.73	42.36	35.22	29.01	23.25	15.65	9.67	3.53	1.00
330.0	46.50	39.98	33.38	27.40	21.18	14.12	8.36	2.46	0.84
360.0	47.58	41.28	34.53	28.16	22.25	14.58	8.29	2.46	0.77
C/γ(°)	90.0								
0.0	0.08								
30.0	0.15								
60.0	0.08								
90.0	0.08								
120.0	0.08								
150.0	0.15								
180.0	0.15								
210.0	0.31								
240.0	0.23								
270.0	0.23								
300.0	0.31								
330.0	0.23								
360.0	0.08								