

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

报告编号:

电压(V): 12.3000

测试编号: 20210318004

电流(A): 1.5110

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): 1953.35

灯具效能(lm/w): 105.02

中心光强(cd): 8496.388

最大光强(cd): 8542.430

最大光强角度:  $C=30.0$   $\gamma=0.0$

半峰边角(50%Imax): [C0/180]Total=21.2

[C90/270]Total=21.0

光束扩散角(10%Imax): [C0/180]Total=43.3

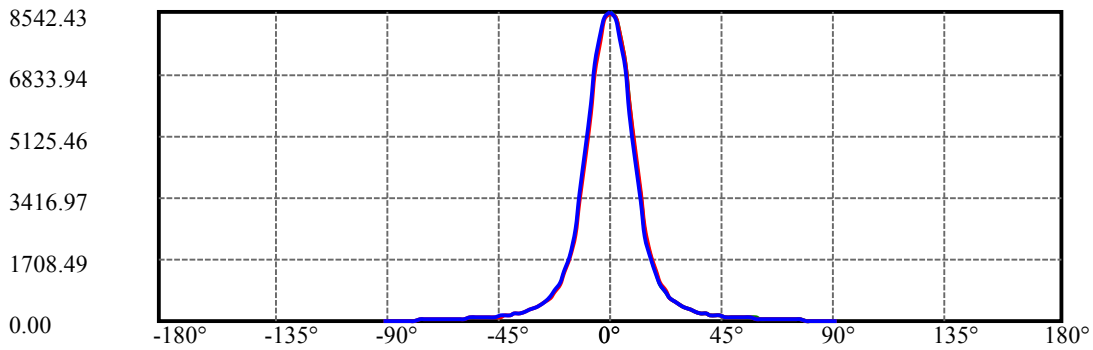
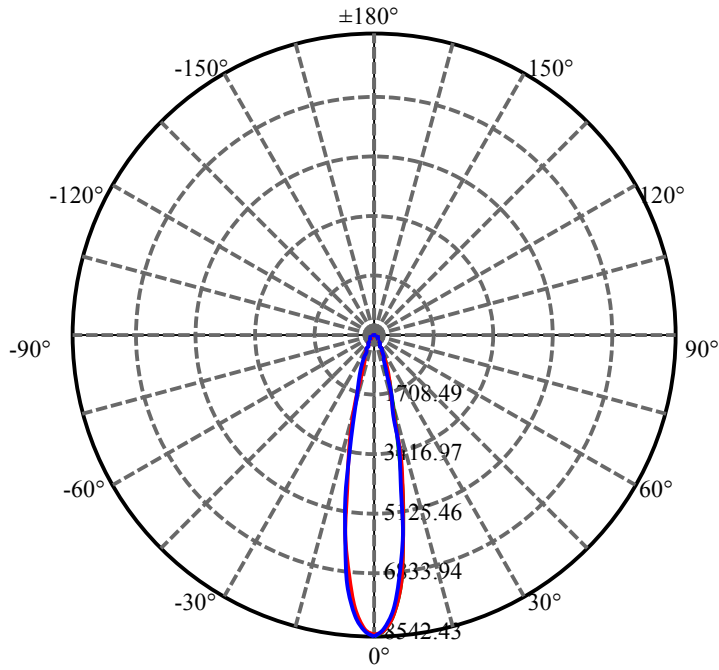
[C90/270]Total=43.2

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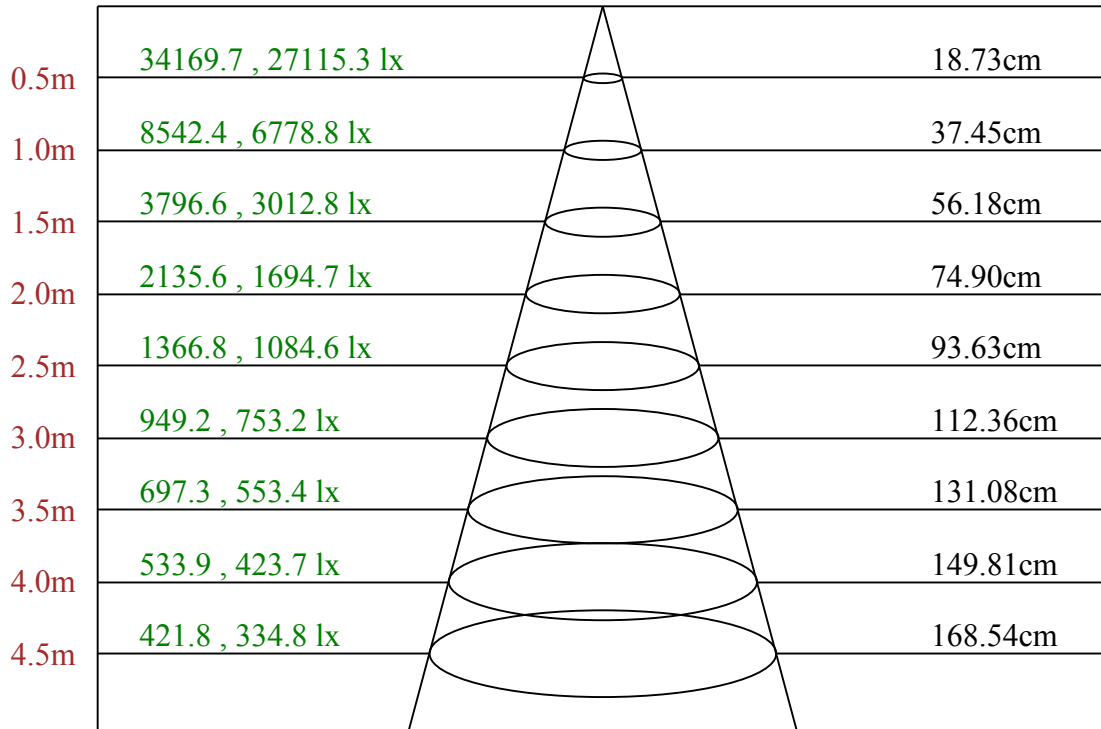
测试设备: GMS1800  
环境温度(°C): 25.0

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

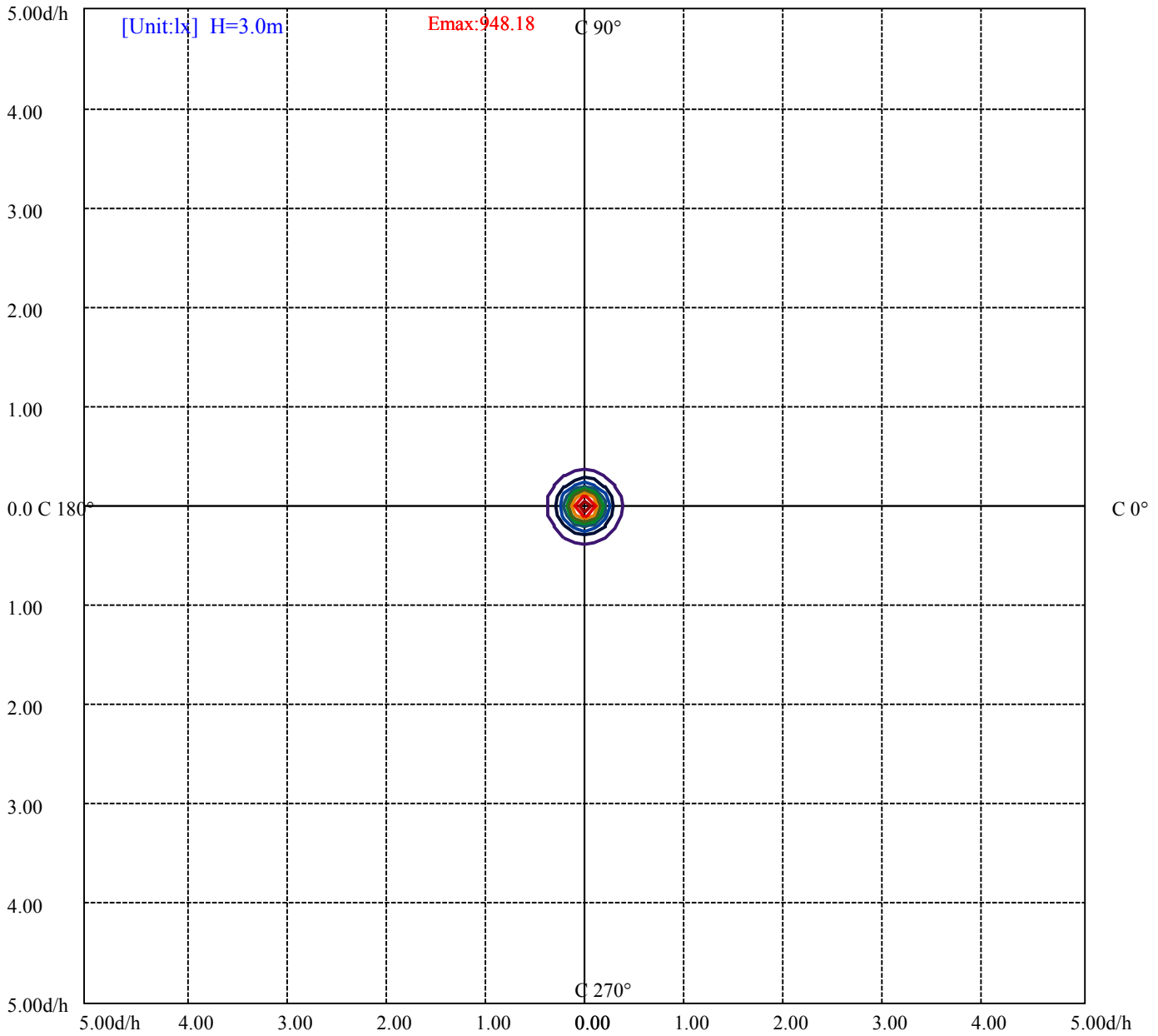


C30(Max): ——  
C0/C180: ——  
C90/C270: ——



Max , Ave    C30面光束角21.21

ROLED 水下灯  
平面等照度曲线



- (10%Emax) 94.81767
- (20%Emax) 189.6356
- (30%Emax) 284.4533
- (40%Emax) 379.2711
- (50%Emax) 474.0889
- (60%Emax) 568.9055
- (70%Emax) 663.7233
- (80%Emax) 758.5411
- (90%Emax) 853.3589

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

# ROLED 水下灯

## 灯具的亮度限制曲线(灯具无发光侧边)

亮度值表

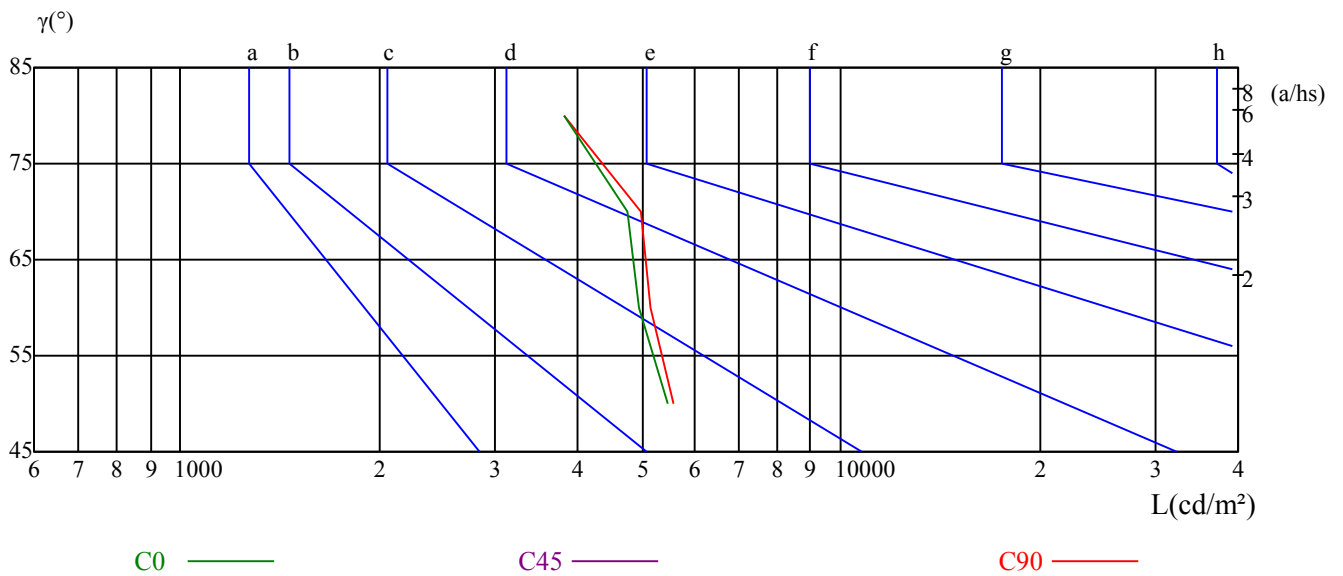
$\gamma$	45	50	55	60	65	70	75	80	85
C0	0	5482	0	4960	0	4767	0	3807	0
C45	0	0	0	0	0	0	0	0	0
C90	0	5597	0	5135	0	4992	0	3823	0

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	11.48	12.57	11.85	12.89	13.20	11.34	12.43	11.70	12.74	13.05
	3H	13.37	14.34	13.76	14.67	15.04	13.20	14.16	13.58	14.49	14.86
	4H	14.05	14.94	14.45	15.30	15.68	13.86	14.76	14.26	15.11	15.50
	6H	14.49	15.32	14.91	15.69	16.09	14.29	15.11	14.71	15.49	15.88
	8H	14.60	15.37	15.03	15.77	16.17	14.39	15.16	14.82	15.55	15.96
	12H	14.68	15.42	15.11	15.80	16.23	14.46	15.20	14.89	15.58	16.01
4H	2H	12.06	12.96	12.47	13.31	13.70	11.95	12.84	12.35	13.20	13.58
	3H	14.15	14.89	14.56	15.29	15.70	14.00	14.74	14.42	15.15	15.55
	4H	14.93	15.59	15.37	16.01	16.46	14.77	15.43	15.21	15.86	16.30
	6H	15.39	15.96	15.86	16.41	16.88	15.22	15.79	15.69	16.24	16.71
	8H	15.53	16.06	16.00	16.51	16.98	15.35	15.88	15.82	16.32	16.80
	12H	15.61	16.07	16.10	16.55	17.03	15.42	15.88	15.91	16.36	16.84
8H	4H	15.17	15.69	15.64	16.14	16.62	15.03	15.56	15.50	16.00	16.48
	6H	15.76	16.18	16.26	16.68	17.16	15.60	16.02	16.11	16.52	17.01
	8H	15.95	16.33	16.48	16.85	17.34	15.79	16.16	16.32	16.68	17.18
	12H	16.55	16.87	17.07	17.37	17.94	16.37	16.70	16.89	17.19	17.77
12H	4H	15.16	15.62	15.65	16.11	16.58	15.03	15.49	15.52	15.97	16.45
	6H	16.15	16.15	16.31	16.63	17.17	16.00	16.01	16.16	16.48	17.02
	8H	16.02	16.34	16.54	16.84	17.41	15.85	16.18	16.37	16.67	17.25
对应照射距离，改变观察者位置S											
S = 1.0H	0.3/-0.5					0.3/-0.5					
S = 1.5H	0.9/-0.7					0.9/-0.8					
S = 2.0H	1.4/-0.8					1.4/-0.9					
标准表格	BK3					BK3					
更正系数	-0.6					-0.5					

# 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	8496.39	8375.14	7963.06	7109.74	6059.20	4760.80	3564.46	2580.69	1855.52
30.0	8542.43	8395.86	7941.57	7121.25	6023.90	4622.67	3455.49	2471.72	1780.31
60.0	8524.78	8327.56	7732.08	6860.34	5623.33	4380.18	3218.37	2293.69	1526.54
90.0	8524.01	8354.42	7806.52	6947.05	5728.46	4461.52	3272.86	2345.10	1726.60
120.0	8509.43	8285.36	7682.97	6777.46	5523.57	4299.61	3175.40	2279.11	1512.81
150.0	8504.83	8368.24	7847.95	6950.12	5741.51	4495.29	3327.34	2404.19	1777.24
180.0	8496.39	8325.26	7769.68	6861.88	5714.65	4444.64	3305.09	2377.33	1754.22
210.0	8542.43	8380.51	7871.74	6969.31	5773.74	4451.55	3344.22	2423.37	1783.38
240.0	8524.78	8433.46	8029.06	7219.47	6122.89	4906.60	3655.78	2666.63	1918.44
270.0	8524.01	8395.09	7946.18	7118.95	5973.25	4709.39	3491.56	2563.80	1814.84
300.0	8509.43	8421.95	8048.24	7282.40	6216.51	4995.62	3721.01	2718.05	1964.48
330.0	8504.83	8361.33	7914.72	7102.83	5967.12	4697.11	3473.14	2504.72	1807.17
360.0	8496.39	8375.14	7963.06	7109.74	6059.20	4760.80	3564.46	2580.69	1855.52
C/γ(°)	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0
0.0	1382.81	1059.75	823.39	649.20	530.26	433.57	374.10	303.80	256.69
30.0	1348.28	1031.35	814.19	639.22	520.28	425.13	357.21	299.20	256.07
60.0	1267.32	969.89	759.63	612.75	495.88	411.01	341.56	286.85	244.79
90.0	1279.98	997.59	780.42	628.48	507.24	416.69	349.77	293.44	249.55
120.0	1280.52	984.47	772.13	623.42	505.24	413.77	345.32	288.99	246.25
150.0	1331.40	1022.14	798.07	642.29	517.98	422.06	354.68	296.67	253.31
180.0	1318.20	1019.08	794.62	631.63	509.69	421.75	348.85	291.83	249.63
210.0	1343.83	1033.58	814.88	647.67	524.12	427.74	358.36	300.58	254.39
240.0	1426.55	1090.44	856.39	672.99	544.84	444.31	388.29	311.09	263.06
270.0	1387.19	1065.19	839.20	666.54	538.70	443.47	367.11	307.49	259.53
300.0	1467.99	1125.74	887.85	698.31	563.25	465.80	388.29	319.92	269.81
330.0	1383.58	1064.58	840.05	667.69	539.31	439.17	366.96	307.18	258.91
360.0	1382.81	1059.75	823.39	649.20	530.26	433.57	374.10	303.80	256.69
C/γ(°)	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0
0.0	219.70	191.54	168.82	149.18	134.44	121.32	110.43	101.83	94.46
30.0	220.77	192.38	169.28	151.56	136.13	123.78	114.03	105.51	98.15
60.0	213.41	186.55	164.76	147.80	132.99	121.02	111.19	103.21	96.00
90.0	215.71	189.62	167.21	149.72	134.44	122.17	112.50	103.98	96.61
120.0	212.87	187.09	164.68	147.57	132.30	120.17	110.20	102.21	95.00
150.0	217.78	189.31	166.14	148.18	132.60	119.86	109.96	101.29	93.77
180.0	214.79	188.08	163.91	146.11	130.91	118.33	108.74	100.07	93.08
210.0	221.08	192.84	170.36	150.94	136.21	123.62	113.96	105.44	97.76
240.0	227.37	198.37	174.04	154.24	139.20	125.77	114.88	106.36	98.45
270.0	225.22	196.22	173.12	153.86	138.13	124.70	114.26	105.82	97.92
300.0	232.59	202.43	177.26	156.70	141.20	127.38	116.26	107.66	99.61
330.0	224.30	194.91	170.43	151.25	136.06	122.55	111.96	103.60	95.54
360.0	219.70	191.54	168.82	149.18	134.44	121.32	110.43	101.83	94.46
C/γ(°)	54.0	56.0	58.0	60.0	62.0	64.0	66.0	68.0	70.0
0.0	87.71	81.88	76.58	71.67	66.92	62.16	57.55	52.57	47.12
30.0	91.78	86.33	80.88	75.89	71.29	66.30	61.47	55.71	50.03
60.0	89.48	83.95	78.50	73.44	68.37	63.77	58.93	53.95	48.27
90.0	90.09	84.41	79.04	74.21	69.37	64.54	59.78	54.64	49.34
120.0	88.71	83.18	77.89	72.90	68.07	63.46	58.55	53.41	47.73
150.0	87.10	81.50	76.12	71.44	66.68	62.00	57.32	52.18	46.50
180.0	86.25	80.88	75.66	70.98	66.38	61.77	57.25	52.18	46.66
210.0	91.62	85.87	80.34	75.36	70.68	65.69	60.47	55.17	48.88
240.0	91.47	85.56	80.19	74.82	70.14	65.07	59.93	54.71	49.11
270.0	91.47	85.33	79.50	74.67	69.68	64.69	59.78	54.64	48.57
300.0	92.78	86.71	81.27	75.89	71.21	66.15	60.85	55.56	49.73
330.0	89.17	82.88	77.12	72.06	67.45	62.46	57.55	52.41	46.66
360.0	87.71	81.88	76.58	71.67	66.92	62.16	57.55	52.57	47.12

# 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	41.59	35.76	29.77	24.25	19.11	12.58	7.44	2.38	0.69
30.0	43.89	37.83	31.54	25.71	20.41	13.51	7.37	2.46	0.77
60.0	42.36	35.99	29.85	24.40	18.49	12.58	7.06	2.00	0.69
90.0	42.90	37.14	30.77	24.79	19.18	13.05	7.21	2.38	0.77
120.0	41.67	35.76	29.31	24.02	18.42	12.12	6.91	1.76	0.69
150.0	40.44	34.92	29.01	23.17	18.26	11.59	6.60	2.00	0.69
180.0	40.67	34.99	28.78	22.94	17.57	11.43	6.68	1.69	0.61
210.0	43.05	36.53	30.23	24.48	19.11	12.28	6.91	1.92	0.69
240.0	42.97	36.83	31.00	25.40	20.11	13.66	8.21	2.69	0.77
270.0	42.59	36.30	30.46	24.86	19.57	12.97	7.52	2.38	0.61
300.0	43.51	37.60	31.69	26.01	21.10	14.12	8.52	2.84	0.69
330.0	41.28	35.07	29.31	24.02	18.26	12.28	6.91	2.30	0.69
360.0	41.59	35.76	29.77	24.25	19.11	12.58	7.44	2.38	0.69
C/γ(°)	90.0								
0.0	0.15								
30.0	0.15								
60.0	0.15								
90.0	0.15								
120.0	0.15								
150.0	0.23								
180.0	0.15								
210.0	0.23								
240.0	0.15								
270.0	0.15								
300.0	0.15								
330.0	0.23								
360.0	0.15								