

浙大三色

Email:sensing@sensingm.com

Tel:+86 571 85021543 Fax:+86 571 87977635

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## ROLED

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灯具名称: 水下灯

灯具描述: U3153A-27-12DC(30-OL-27WN-AA, P1)

报告编号:

电压(V): 12.1000

测试编号: 20210326003

电流(A): 2.3120

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

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## 光度结果

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灯具光通量(lm): 2763.98

灯具效能(lm/w): 99.07

中心光强(cd): 7536.400

最大光强(cd): 7662.250

最大光强角度: C=30.0  $\gamma$ =0.0

半峰边角(50%Imax): [C0/180]Total=29.4

[C90/270]Total=28.8

光束扩散角(10%Imax): [C0/180]Total=56.5

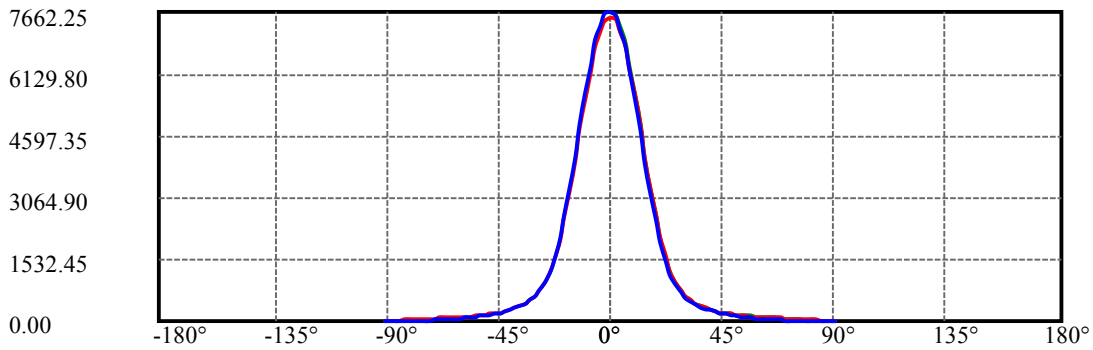
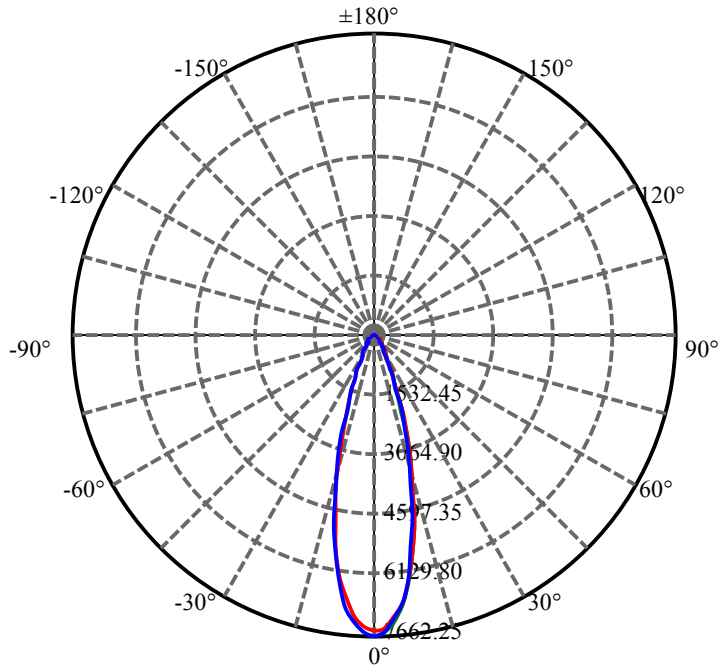
[C90/270]Total=55.7

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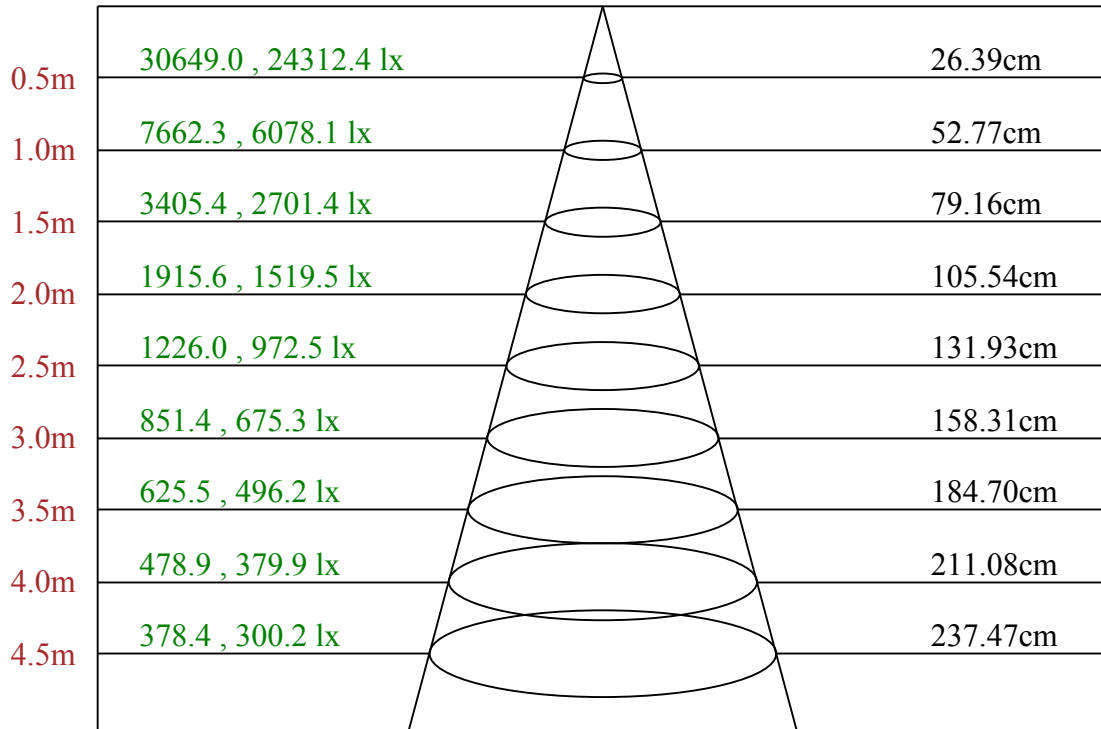
测试设备: GMS1800  
环境温度(°C): 25.0

测试日期: 2021/3/26  
环境湿度(%): 60.0%

测试人员: anpeilou  
测试距离(m): 8.76

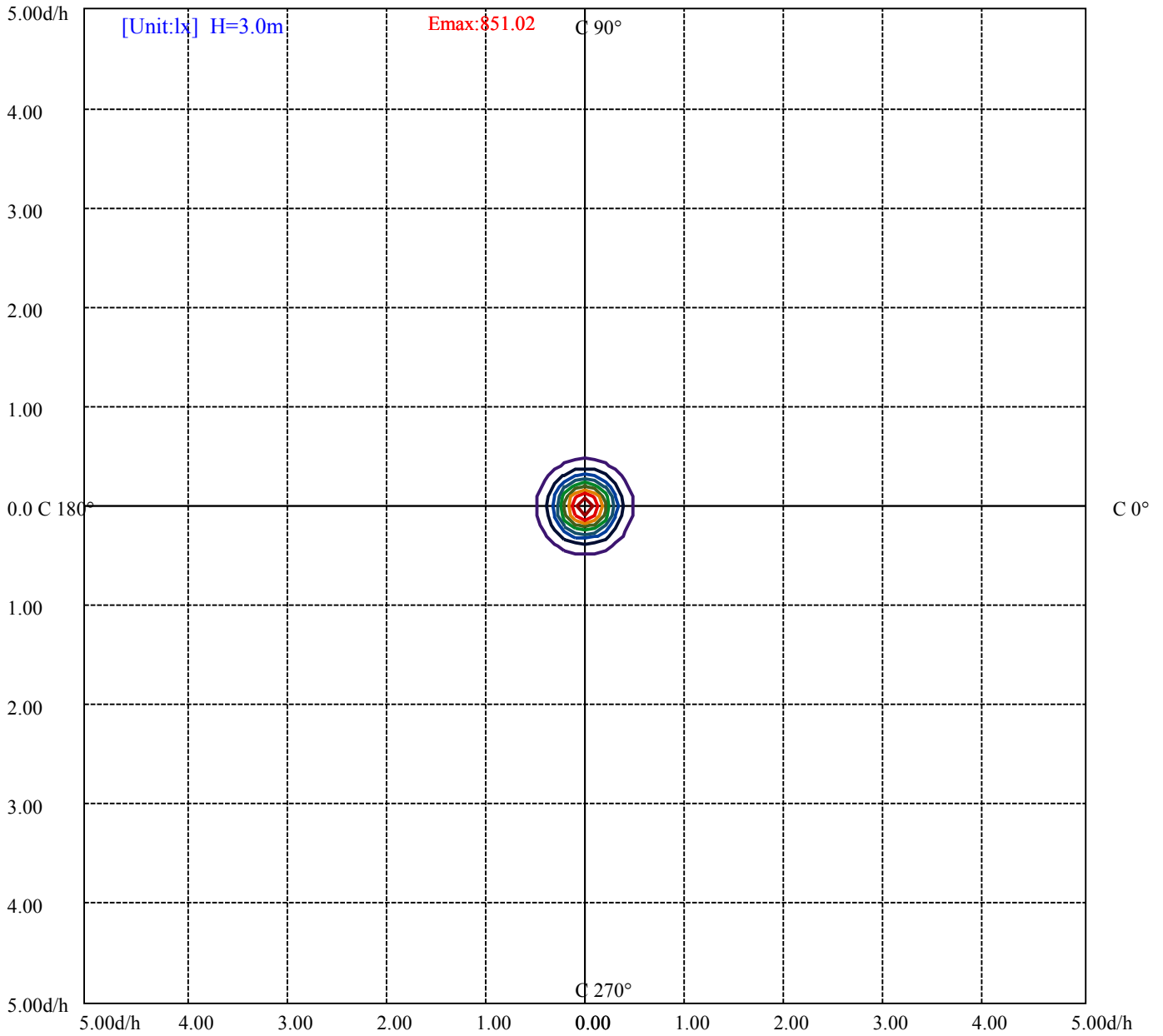


C30(Max): ——  
C0/C180: ——  
C90/C270: ——



Max , Ave      C30面光束角29.56

ROLED 水下灯  
平面等照度曲线



(10%Emax) 85.10189	——
(20%Emax) 170.2033	——
(30%Emax) 255.3056	——
(40%Emax) 340.4078	——
(50%Emax) 425.51	——
(60%Emax) 510.6111	——
(70%Emax) 595.7133	——
(80%Emax) 680.8156	——
(90%Emax) 765.9167	——

# ROLED 水下灯

## 灯具的亮度限制曲线(灯具无发光侧边)

亮度值表

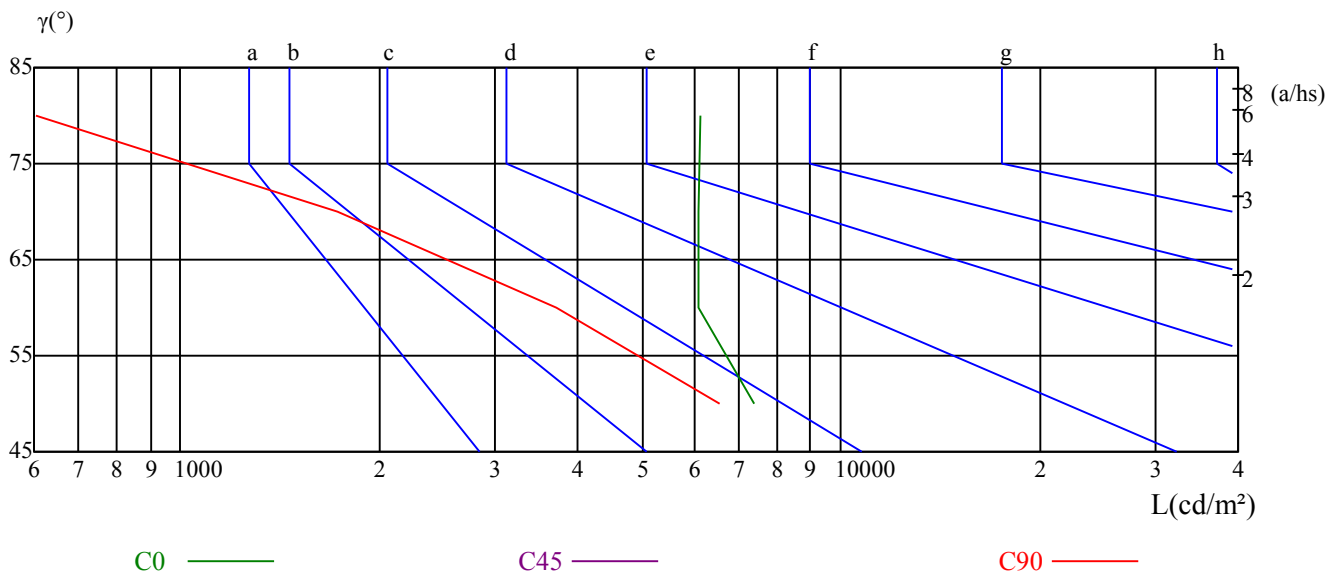
$\gamma$	45	50	55	60	65	70	75	80	85
C0	0	7409	0	6084	0	6096	0	6127	0
C45	0	0	0	0	0	0	0	0	0
C90	0	6539	0	3723	0	1733	0	603	0

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	9.46	10.53	9.83	10.84	11.16	10.95	12.02	11.31	12.33	12.65
	3H	9.99	10.94	10.37	11.27	11.64	12.75	13.70	13.13	14.03	14.40
	4H	10.00	10.87	10.40	11.23	11.62	13.47	14.35	13.87	14.70	15.09
	6H	9.93	10.74	10.35	11.11	11.51	14.00	14.80	14.42	15.18	15.57
	8H	9.89	10.65	10.33	11.04	11.45	14.18	14.94	14.62	15.33	15.74
	12H	9.86	10.58	10.29	10.96	11.40	14.41	15.13	14.84	15.52	15.95
4H	2H	10.01	10.89	10.42	11.24	11.63	11.23	12.11	11.63	12.46	12.85
	3H	10.63	11.35	11.05	11.76	12.16	13.30	14.02	13.72	14.43	14.84
	4H	10.64	11.28	11.08	11.71	12.15	14.10	14.74	14.54	15.17	15.61
	6H	10.59	11.14	11.06	11.59	12.06	14.62	15.17	15.08	15.61	16.09
	8H	10.54	11.05	11.01	11.50	11.97	14.82	15.33	15.30	15.78	16.26
	12H	10.50	10.95	10.99	11.44	11.91	15.06	15.50	15.55	15.99	16.47
8H	4H	10.89	11.41	11.37	11.86	12.33	14.05	14.57	14.53	15.02	15.49
	6H	10.84	11.25	11.35	11.75	12.24	14.59	15.00	15.10	15.50	15.99
	8H	10.80	11.16	11.33	11.68	12.18	14.83	15.20	15.36	15.72	16.21
	12H	11.43	11.74	11.95	12.24	12.82	15.61	15.93	16.13	16.42	17.00
12H	4H	10.88	11.32	11.37	11.81	12.29	14.00	14.44	14.49	14.93	15.41
	6H	11.17	11.20	11.37	11.67	12.22	14.87	14.90	15.07	15.37	15.92
	8H	10.81	11.12	11.33	11.62	12.20	14.79	15.11	15.31	15.60	16.18
对应照射距离，改变观察者位置S											
S = 1.0H	1.0/-1.3					0.5/-0.7					
S = 1.5H	2.2/-2.7					1.1/-1.0					
S = 2.0H	4.5/-3.7					2.2/-1.1					
标准表格	BK2					BK2					
更正系数	-2.9					-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	7536.40	7461.96	7209.50	6799.72	6244.91	5598.01	4824.49	4061.72	3305.86
30.0	7662.25	7586.28	7323.07	6888.73	6325.48	5607.98	4832.17	4067.09	3290.51
60.0	7656.11	7530.26	7221.78	6778.23	6142.84	5407.70	4623.44	3854.53	3102.50
90.0	7655.34	7549.45	7257.07	6828.11	6214.98	5470.62	4677.16	3906.71	3133.20
120.0	7646.13	7511.84	7205.66	6739.10	6091.43	5383.91	4601.19	3840.72	3093.29
150.0	7647.67	7551.75	7280.86	6850.37	6290.18	5569.62	4834.47	4001.10	3272.86
180.0	7536.40	7433.57	7182.64	6757.51	6198.10	5496.71	4740.08	3995.73	3220.68
210.0	7662.25	7574.77	7316.93	6917.13	6346.97	5628.70	4859.79	4113.14	3338.85
240.0	7656.11	7611.60	7397.50	7000.00	6457.47	5799.83	5015.57	4277.35	3507.68
270.0	7655.34	7590.88	7344.56	6957.03	6352.34	5657.86	4874.37	4070.16	3318.90
300.0	7646.13	7603.16	7379.85	7003.07	6455.17	5756.85	4962.62	4215.96	3435.54
330.0	7647.67	7571.70	7306.19	6877.99	6323.95	5602.61	4862.86	4067.86	3275.93
360.0	7536.40	7461.96	7209.50	6799.72	6244.91	5598.01	4824.49	4061.72	3305.86
C/γ(°)	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0
0.0	2612.15	2070.38	1594.61	1240.85	975.33	775.05	626.18	521.82	435.10
30.0	2639.77	2054.27	1580.03	1223.20	966.89	767.38	620.04	514.14	427.43
60.0	2477.09	1913.84	1482.11	1151.06	916.48	733.92	598.25	498.64	418.30
90.0	2496.27	1931.49	1483.34	1152.60	916.25	732.08	593.95	494.19	412.85
120.0	2439.49	1882.37	1479.12	1150.60	908.27	738.14	602.24	497.80	418.68
150.0	2595.27	2041.99	1570.05	1217.83	966.13	768.14	620.04	504.93	418.22
180.0	2589.13	2008.99	1521.78	1222.28	966.43	767.38	620.88	509.00	424.59
210.0	2660.49	2104.91	1528.61	1273.84	996.97	786.64	637.31	528.57	438.25
240.0	2784.81	2187.02	1681.32	1309.14	1026.75	822.63	661.48	544.84	452.75
270.0	2625.19	2063.47	1526.46	1226.57	961.52	771.14	626.26	520.05	432.11
300.0	2713.44	2146.35	1649.86	1279.98	995.29	801.91	647.67	538.70	448.91
330.0	2593.73	2015.13	1513.96	1217.52	966.13	765.53	627.48	516.60	429.35
360.0	2612.15	2070.38	1594.61	1240.85	975.33	775.05	626.18	521.82	435.10
C/γ(°)	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0
0.0	387.52	320.84	277.79	242.34	213.48	190.00	169.59	153.55	139.05
30.0	364.27	313.01	273.65	239.96	212.10	190.23	171.20	156.01	141.66
60.0	359.29	307.03	268.50	234.82	206.27	183.63	163.37	146.42	130.07
90.0	354.60	302.35	263.29	228.91	201.36	176.34	154.32	135.52	117.26
120.0	360.13	310.17	271.27	236.89	207.73	183.48	163.99	146.03	129.46
150.0	346.01	293.60	251.85	219.39	196.14	175.04	161.30	146.57	134.52
180.0	362.59	311.09	271.88	238.12	210.11	187.24	169.51	153.55	139.51
210.0	372.18	322.37	278.86	245.18	217.01	194.15	175.04	158.92	145.49
240.0	388.29	333.81	288.76	253.62	223.38	198.44	175.19	157.85	141.20
270.0	367.57	318.23	274.72	239.96	210.03	185.63	164.45	145.11	127.61
300.0	389.83	332.04	287.54	250.55	220.39	195.68	173.96	156.01	140.51
330.0	365.58	314.85	274.80	241.42	214.87	191.23	172.58	156.85	143.58
360.0	387.52	320.84	277.79	242.34	213.48	190.00	169.59	153.55	139.05
C/γ(°)	54.0	56.0	58.0	60.0	62.0	64.0	66.0	68.0	70.0
0.0	126.39	115.80	106.44	98.07	90.78	84.41	78.43	72.75	67.22
30.0	130.15	119.63	110.43	101.45	92.93	85.33	77.58	70.14	62.85
60.0	114.95	100.68	87.63	74.97	62.54	51.95	43.05	34.99	26.86
90.0	99.84	84.33	70.91	60.01	51.03	43.43	35.38	27.32	19.11
120.0	114.95	100.53	87.56	74.05	62.23	51.26	42.36	34.92	26.78
150.0	124.16	115.49	106.90	97.23	88.71	82.57	75.43	67.30	61.70
180.0	127.69	116.49	106.90	98.30	90.93	83.95	77.74	72.36	67.53
210.0	133.52	123.24	112.80	104.59	96.15	88.40	80.96	73.74	66.53
240.0	127.08	113.19	99.61	87.40	75.51	63.00	51.49	42.59	33.92
270.0	111.42	95.85	81.03	68.53	57.71	49.11	41.21	32.84	24.79
300.0	125.47	111.81	98.22	86.18	74.36	62.62	50.88	41.75	33.92
330.0	131.84	121.25	111.96	103.21	95.31	87.10	79.73	72.59	65.53
360.0	126.39	115.80	106.44	98.07	90.78	84.41	78.43	72.75	67.22

# 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	61.85	55.40	48.19	41.13	34.30	27.70	20.03	11.43	4.30
30.0	54.56	43.89	27.17	18.03	10.28	5.29	2.99	2.00	0.92
60.0	19.03	10.97	7.44	5.45	3.45	2.92	2.38	1.53	0.61
90.0	12.43	8.82	6.83	4.37	3.38	2.99	2.38	1.53	0.54
120.0	18.95	10.59	7.29	5.29	3.45	2.92	2.38	1.53	0.61
150.0	53.03	41.75	25.71	16.65	9.59	4.91	2.84	2.00	0.92
180.0	62.39	54.56	47.73	40.67	32.92	25.63	17.42	9.06	3.07
210.0	58.63	49.19	33.76	21.18	12.51	5.99	3.38	2.23	1.07
240.0	25.55	17.88	9.98	6.98	4.37	3.15	2.84	2.07	1.07
270.0	16.65	10.59	8.06	5.22	3.53	3.38	2.76	2.00	1.00
300.0	25.63	17.19	9.44	6.91	4.30	3.15	2.76	1.92	1.00
330.0	57.48	48.11	33.07	20.34	11.89	5.68	3.22	2.23	1.07
360.0	61.85	55.40	48.19	41.13	34.30	27.70	20.03	11.43	4.30

C/γ(°)	90.0
0.0	0.31
30.0	0.15
60.0	0.08
90.0	0.00
120.0	0.00
150.0	0.23
180.0	0.38
210.0	0.15
240.0	0.15
270.0	0.15
300.0	0.23
330.0	0.15
360.0	0.31