

**LED UNDERWATER LIGHT**



Light Output Ratio:	100.0%
Luminaire Power:	12.17 W
90% Beam Spread	19.3V x 21.3H
50% Beam Lumens	581.2 lumens per klm.

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 23DEG  
Operators:  
Test Date: 2018-01-29

g Range: 0 - 120DEG  
g Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.402  
Humidity: 56%  
Test Distance: 10.580m [K=1.0000]  
Remarks:

## Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity		1836.5 cd per klm.
(Luminaire orientation as tested.)		0.0 degrees vertical
		0.0 degrees horizontal
Beam Spread	At 10% of Imax	64.9V x 64.8H
	At 50% of Imax	41.7V x 42.0H
	At 90% of Imax	19.3V x 21.3H
Beam Flux	Total	1000.3 lumens per klm.
	To 10% of Imax	827.7 lumens per klm.
	To 50% of Imax	581.2 lumens per klm.
	To 90% of Imax	175.5 lumens per klm.
	Upward LOR	0.2 %
	Downward LOR	99.8 %
Luminaire Efficiency(Light Output Ratio)		100.0 %

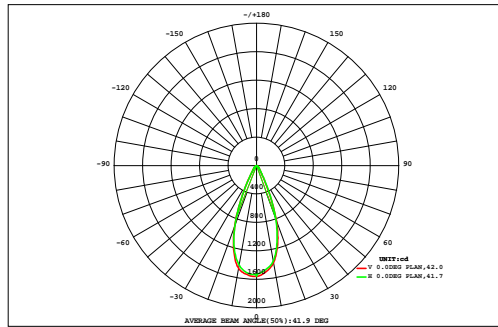
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C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:23DEG  
Operators:  
Test Date:2018-01-29

g Range: 0 - 120DEG  
g Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.402  
Humidity:56%  
Test Distance:10.580m [K=1.0000]  
Remarks:

## LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:24.152V I:0.5038A P:12.168W PF:1.0000 Freq:0Hz Lamp Flux:141.468x6 lm		
NAME: TL-OU-5106B-6 12W 3000K 45D	TYPE:Underwater Light	SERIAL No.:
	SUR.:	



DATA OF LAMP		Eff:69.76lm/W	
MODEL		Imax(cd)	1559
NOMINAL POWER(W)	12	AVAILABILITY(%)	82.6
RATED VOLTAGE(V)	24	Avai. FLUX(lm)	701.3
NOMINAL FLUX(lm)	141.468	LOR(%)	100.0
LAMPS INSIDE	6	TOTAL FLUX(lm)	848.8
TEST VOLTAGE(V)	24	q @50%(H,V)	42,42DEG

		AREA FLUX DIAGRAM															UNIT:lm				F t	F a
		0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.11	0.00		
VERTICAL (DEG)	90	0.00	0.00	0.01	0.02	0.04	0.07	0.11	0.14	0.16	0.16	0.14	0.11	0.08	0.04	0.02	0.01	0.00	0.00	1.11	0.00	
	80	0.00	0.00	0.02	0.07	0.16	0.26	0.37	0.46	0.51	0.51	0.46	0.38	0.27	0.16	0.08	0.02	0.00	0.00	3.75	0.00	
	70	0.00	0.01	0.05	0.16	0.33	0.52	0.72	0.87	0.97	0.97	0.88	0.73	0.54	0.34	0.17	0.06	0.01	0.00	7.34	0.00	
	60	0.00	0.02	0.09	0.27	0.52	0.81	1.12	1.43	1.66	1.69	1.49	1.16	0.82	0.53	0.28	0.10	0.02	0.00	12.0	0.00	
	50	0.00	0.02	0.14	0.37	0.70	1.14	1.78	2.73	3.76	3.95	3.04	1.94	1.18	0.72	0.38	0.14	0.03	0.00	22.0	3.41	
	40	0.00	0.03	0.18	0.46	0.88	1.60	3.38	8.38	14.7	14.8	9.22	3.96	1.73	0.91	0.47	0.18	0.04	0.00	60.9	49.3	
	30	0.00	0.04	0.21	0.53	1.04	2.20	7.36	22.2	34.2	34.4	23.1	8.77	2.56	1.09	0.55	0.22	0.04	0.00	139	130	
	-30	0.00	0.04	0.22	0.57	1.15	2.72	11.8	32.1	44.1	44.2	33.3	13.6	3.33	1.23	0.59	0.23	0.05	0.00	189	181	
		0.00	0.04	0.22	0.57	1.15	2.67	11.1	30.5	42.2	44.0	33.9	13.6	3.26	1.24	0.59	0.24	0.05	0.00	185	177	
		0.00	0.04	0.21	0.53	1.04	2.10	6.47	19.7	31.1	32.6	22.4	7.94	2.43	1.11	0.55	0.22	0.04	0.00	129	119	
		0.00	0.03	0.18	0.46	0.88	1.55	3.07	7.17	12.6	13.1	7.95	3.44	1.67	0.92	0.49	0.19	0.04	0.00	53.7	40.9	
		0.00	0.03	0.14	0.37	0.70	1.14	1.72	2.55	3.37	3.42	2.64	1.80	1.18	0.73	0.40	0.15	0.03	0.00	20.4	1.51	
		0.00	0.02	0.10	0.27	0.52	0.82	1.13	1.42	1.61	1.61	1.43	1.14	0.83	0.54	0.28	0.10	0.02	0.00	11.8	0.00	
		0.00	0.01	0.05	0.16	0.33	0.54	0.72	0.88	0.96	0.96	0.88	0.73	0.54	0.34	0.17	0.06	0.01	0.00	7.35	0.00	
		0.00	0.00	0.02	0.07	0.16	0.26	0.37	0.46	0.51	0.51	0.47	0.38	0.27	0.16	0.08	0.02	0.00	0.00	3.75	0.00	
		0.00	0.00	0.00	0.01	0.04	0.07	0.10	0.14	0.15	0.15	0.13	0.11	0.07	0.04	0.02	0.00	0.00	0.00	1.05	0.00	
		0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.08	0.00	
-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL (DEG)				20	30	40	50	60	70	80	90			
F t	0.02	0.35	1.85	4.89	9.65	18.5	51.4	131	193	197	142	59.8	20.8	10.1	5.11	1.96	0.37	0.01	847	---		
F a	0.00	0.00	0.00	0.00	0.00	0.67	36.7	119	181	186	129	46.2	3.08	0.00	0.00	0.00	0.00	0.00	---	701		

one-half-peak spread: U:20.3,D:19.1 , L:21.6,R:20.7

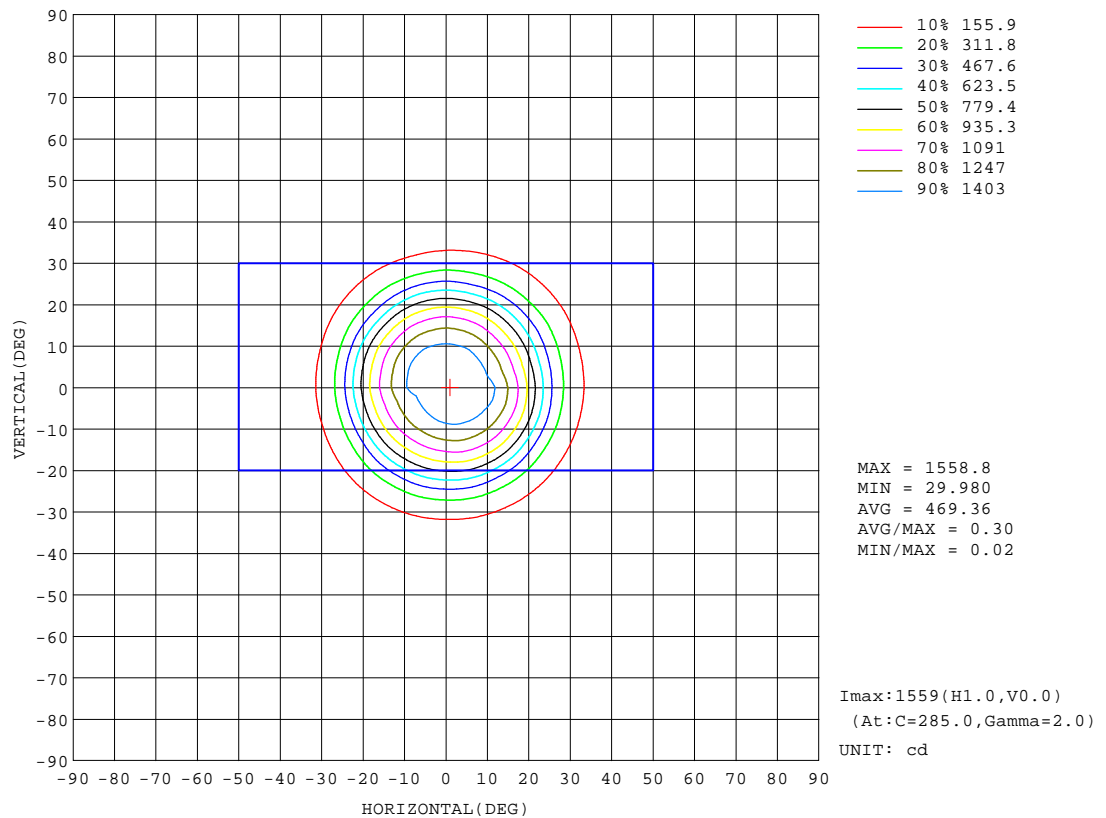
NEMA Beam Type: Type 4

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:23DEG  
Operators:  
Test Date:2018-01-29

g Range: 0 - 120DEG  
g Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.402  
Humidity:56%  
Test Distance:10.580m [K=1.0000]  
Remarks:

## ISOCANDELA DIAGRAM

Test:U:24.152V I:0.5038A P:12.168W PF:1.0000 Freq:0Hz Lamp Flux:141.468x6 lm		
NAME: TL-OU-5106B-6 12W 3000K 45D	TYPE:Underwater Light	SERIAL No.:
	SUR.:	

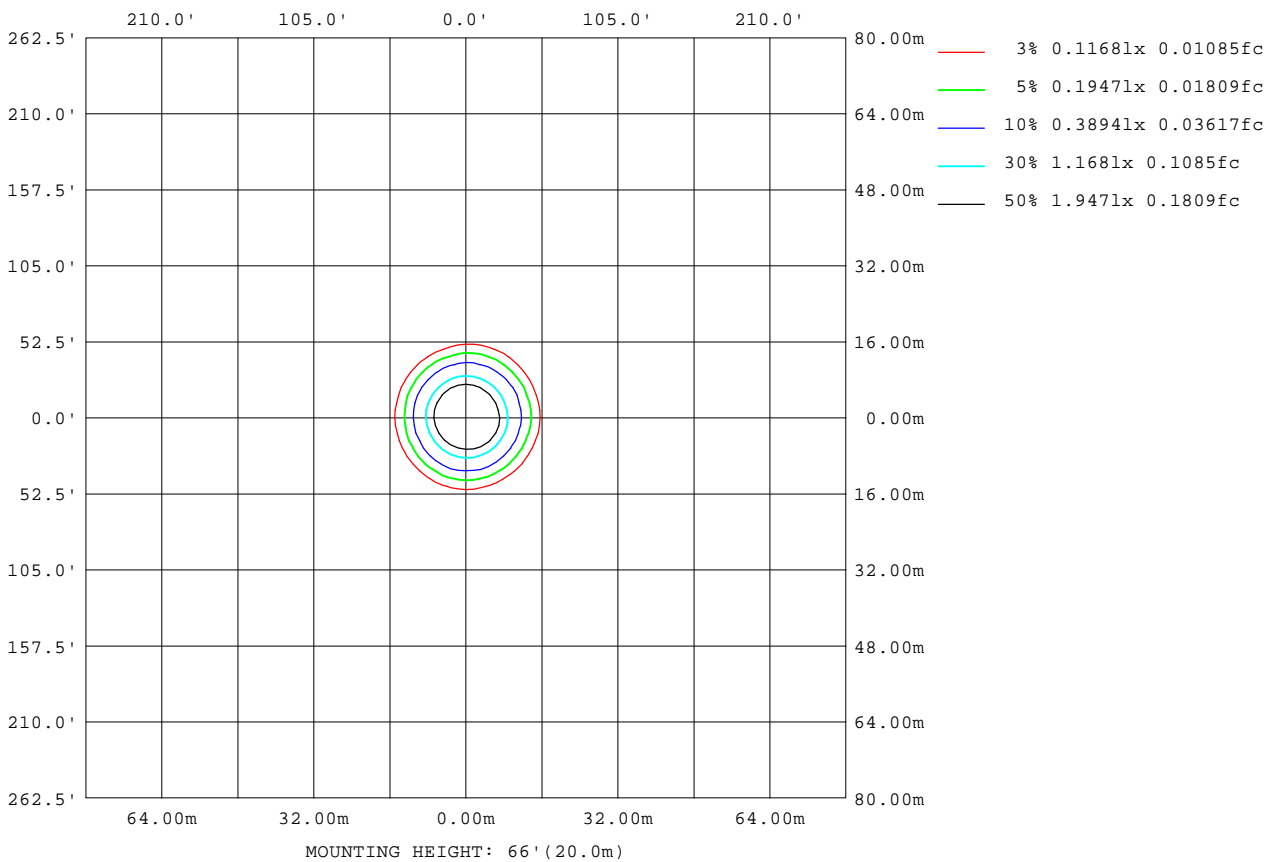


C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:23DEG  
Operators:  
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g Range: 0 - 120DEG  
g Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.402  
Humidity:56%  
Test Distance:10.580m [K=1.0000]  
Remarks:

## ISOLUX DIAGRAM

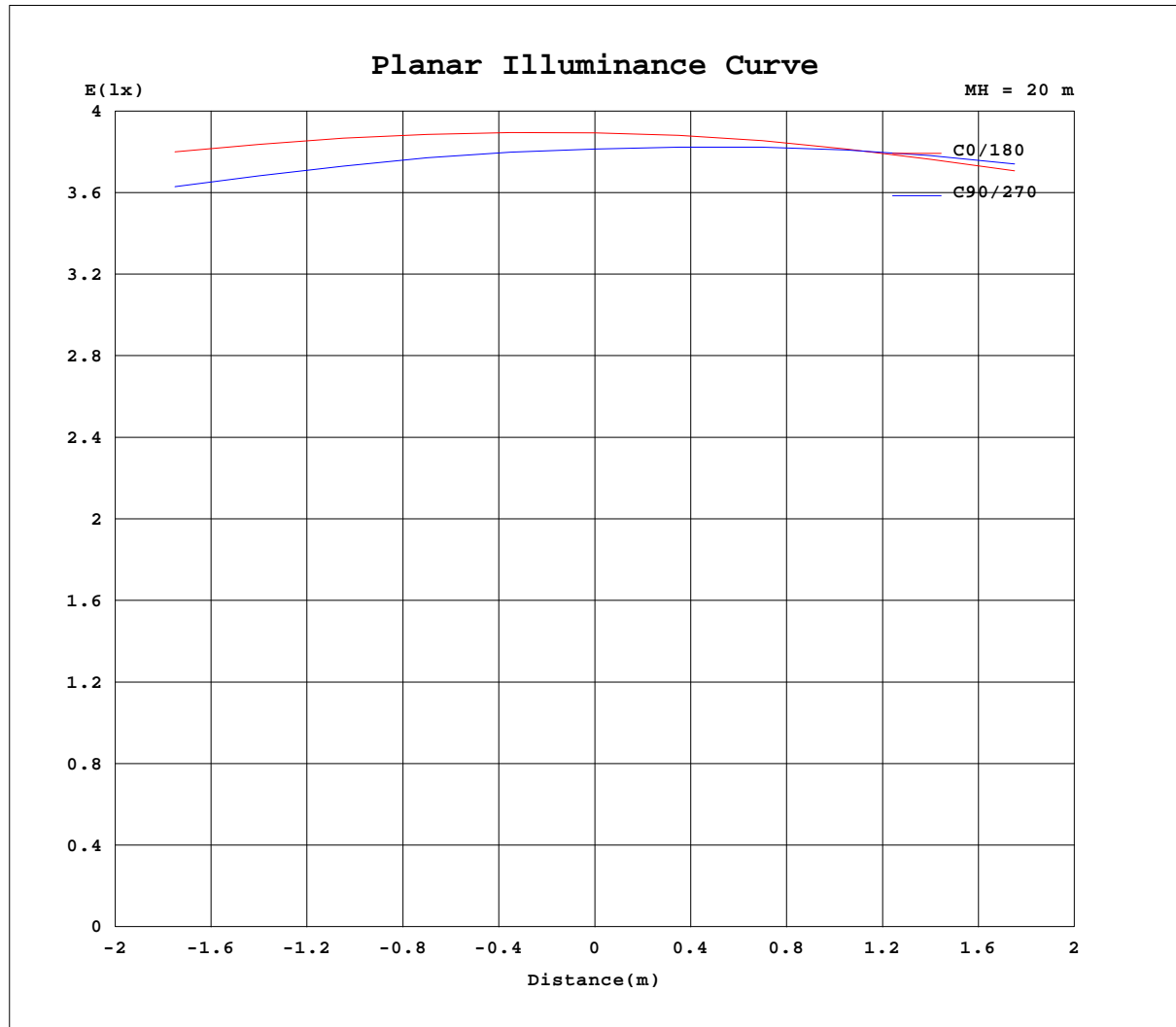
Test:U:24.152V I:0.5038A P:12.168W PF:1.0000 Freq:0Hz Lamp Flux:141.468x6 lm		
NAME: TL-OU-5106B-6 12W 3000K 45D	TYPE:Underwater Light	SERIAL No.:
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Remarks:

### Planar Illuminance Curve



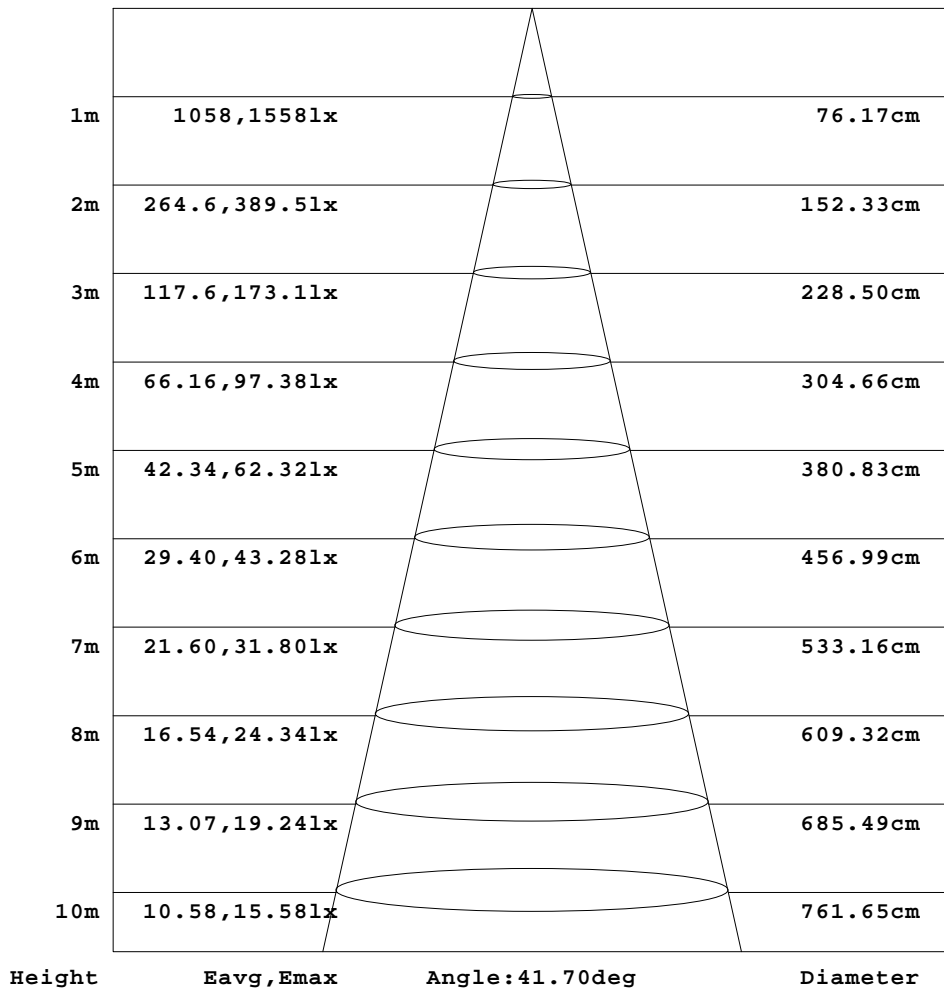
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## AAI Figure

Test:U:24.152V I:0.5038A P:12.168W PF:1.0000 Freq:0Hz Lamp Flux:141.468x6 lm		
NAME: TL-OU-5106B-6 12W 3000K 45D	TYPE:Underwater Light	SERIAL No.:
	SUR.:	

Flux out:490.0 lm



Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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g Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.402  
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Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:24.152V I:0.5038A P:12.168W PF:1.0000 Freq:0Hz Lamp Flux:141.468x6 lm		
NAME: TL-OU-5106B-6 12W 3000K 45D	TYPE:Underwater Light	SERIAL No.:
	SUR.:	

Table--1

UNIT: cd

H(DEC) V(DEC)	-90	-85	-80	-75	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
-180	0.28	0.33	0.45	0.61	0.87	1.32	1.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-170	0.28	0.33	0.42	0.56	0.77	1.11	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-160	0.28	0.31	0.39	0.49	0.64	0.86	1.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-150	0.28	0.30	0.36	0.43	0.51	0.62	0.81	1.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-140	0.28	0.29	0.32	0.36	0.40	0.47	0.62	0.84	1.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-130	0.28	0.29	0.29	0.30	0.32	0.38	0.48	0.59	0.74	0.93	1.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-120	0.28	0.27	0.27	0.25	0.26	0.31	0.35	0.41	0.47	0.55	0.63	0.73	0.83	0.93	1.01	1.08	1.15	1.19	1.20
-110	0.28	0.25	0.24	0.22	0.23	0.25	0.27	0.30	0.32	0.34	0.36	0.39	0.42	0.44	0.46	0.48	0.49	0.50	0.50
-100	0.28	0.24	0.22	0.19	0.20	0.21	0.21	0.22	0.22	0.22	0.23	0.24	0.25	0.25	0.26	0.26	0.27	0.27	0.27
-90	0.28	0.24	0.20	0.17	0.17	0.17	0.17	0.16	0.16	0.16	0.16	0.16	0.17	0.16	0.16	0.16	0.16	0.16	0.16
-80	0.28	0.23	0.19	0.16	0.17	0.19	0.22	0.28	0.34	0.38	0.44	0.51	0.61	0.73	0.89	1.01	1.05	1.06	1.04
-70	0.28	0.23	0.20	0.26	0.41	0.64	1.13	1.95	2.78	3.87	4.97	5.98	6.93	7.80	8.62	9.31	9.70	9.90	9.92
-60	0.28	0.22	0.27	0.51	1.16	2.65	4.32	6.35	8.52	11.0	13.8	16.0	18.0	19.7	21.3	22.5	23.5	24.0	24.1
-50	0.28	0.22	0.40	1.10	3.14	5.46	8.54	11.9	15.9	19.8	23.6	27.0	30.2	33.1	35.7	38.0	39.6	40.4	40.6
-40	0.28	0.25	0.54	2.15	4.99	8.74	13.1	18.1	23.1	28.3	33.5	38.8	44.2	49.7	55.5	61.3	66.7	70.0	71.0
-30	0.28	0.27	0.77	3.24	6.95	11.8	17.4	23.5	30.0	36.6	43.9	52.7	63.2	77.7	98.4	126	160	189	200
-20	0.28	0.29	1.06	4.06	8.63	14.6	21.0	28.2	35.7	44.1	55.1	70.2	96.2	147	251	421	603	736	792
-10	0.28	0.30	1.29	4.67	9.70	16.4	23.5	31.3	39.7	50.2	65.1	90.8	148	295	593	913	1143	1288	1363
0	0.28	0.31	1.38	4.89	10.1	17.2	24.5	32.4	41.6	53.3	70.7	104	189	427	817	1151	1384	1500	1557
10	0.28	0.31	1.31	4.66	9.67	16.6	23.6	31.1	39.6	50.5	66.0	93.6	158	331	662	1001	1239	1383	1421
20	0.28	0.30	1.06	3.98	8.57	14.8	21.4	28.1	35.4	44.1	55.9	72.9	104	166	289	485	702	843	893
30	0.28	0.29	0.76	3.02	6.93	11.9	18.0	23.8	30.0	36.6	43.8	53.1	65.7	82.4	107	142	183	222	242
40	0.28	0.27	0.54	2.08	4.99	8.62	13.4	18.3	23.3	28.3	33.4	38.3	43.5	49.6	56.6	63.3	68.7	73.5	76.1
50	0.28	0.24	0.42	1.16	2.77	5.52	8.52	12.0	15.9	19.5	23.0	26.5	29.7	32.5	35.2	37.5	39.4	40.9	41.6
60	0.28	0.24	0.31	0.51	1.32	2.59	4.43	6.45	8.56	10.8	13.0	15.6	17.8	19.7	21.3	22.6	23.5	24.0	24.2
70	0.28	0.25	0.25	0.31	0.44	0.68	1.31	2.17	3.19	4.18	5.08	6.08	7.07	7.90	8.61	9.20	9.71	10.1	10.2
80	0.28	0.26	0.24	0.24	0.24	0.26	0.31	0.37	0.44	0.50	0.57	0.67	0.82	0.94	1.09	1.21	1.30	1.35	1.35
90	0.28	0.27	0.26	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.24	0.24	0.25	0.25	0.26
100	0.28	0.27	0.28	0.30	0.31	0.31	0.33	0.34	0.35	0.36	0.37	0.38	0.38	0.39	0.40	0.41	0.41	0.41	0.41
110	0.28	0.28	0.31	0.34	0.36	0.39	0.43	0.47	0.50	0.55	0.59	0.63	0.67	0.70	0.73	0.76	0.78	0.78	0.78
120	0.28	0.30	0.34	0.38	0.44	0.50	0.58	0.66	0.77	0.89	1.01	1.14	1.28	1.40	1.52	1.62	1.69	1.72	1.73
130	0.28	0.32	0.36	0.43	0.52	0.63	0.78	0.96	1.19	1.48	1.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140	0.28	0.32	0.39	0.48	0.61	0.80	1.05	1.39	1.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	0.28	0.32	0.41	0.53	0.70	0.96	1.35	1.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160	0.28	0.33	0.43	0.57	0.79	1.14	1.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170	0.28	0.33	0.44	0.60	0.85	1.26	1.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180	0.28	0.33	0.45	0.61	0.87	1.32	1.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:23DEG  
Operators:  
Test Date:2018-01-29

g Range: 0 - 120DEG  
g Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.402  
Humidity:56%  
Test Distance:10.580m [K=1.0000]  
Remarks:



## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:24.152V I:0.5038A P:12.168W PF:1.0000 Freq:0Hz Lamp Flux:141.468x6 lm		
NAME: TL-OU-5106B-6 12W 3000K 45D	TYPE:Underwater Light	SERIAL No.:
	SUR.:	

Table--2

UNIT: cd

H(DEC) V(DEC)	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	
-180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.09	0.70	0.46	0.34	0.28	0.22	0.17	
-170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.05	0.67	0.46	0.34	0.27	0.22	0.17	
-160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.91	0.61	0.44	0.33	0.26	0.21	0.17	
-150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.09	0.74	0.52	0.40	0.31	0.25	0.21	0.17	
-140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.06	0.77	0.57	0.44	0.35	0.28	0.24	0.20	0.17	
-130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.09	0.86	0.68	0.54	0.44	0.36	0.31	0.27	0.23	0.20	0.17	
-120	1.18	1.14	1.07	0.98	0.89	0.78	0.69	0.60	0.51	0.44	0.38	0.34	0.30	0.27	0.23	0.21	0.19	0.17	
-110	0.49	0.48	0.46	0.44	0.42	0.41	0.38	0.36	0.33	0.31	0.29	0.27	0.25	0.23	0.21	0.20	0.18	0.17	
-100	0.27	0.27	0.27	0.26	0.26	0.26	0.25	0.24	0.23	0.22	0.22	0.22	0.21	0.20	0.19	0.18	0.17	0.17	
-90	0.16	0.16	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.18	0.18	0.18	0.17	0.17	0.17	0.17	0.17	
-80	0.98	0.89	0.77	0.74	0.68	0.65	0.56	0.50	0.43	0.36	0.28	0.22	0.17	0.16	0.16	0.17	0.16	0.17	
-70	9.87	9.65	9.25	8.66	7.96	7.15	6.22	5.29	4.38	3.26	2.10	1.23	0.59	0.37	0.23	0.16	0.17	0.17	
-60	24.0	23.6	22.8	21.5	19.9	18.1	16.1	13.7	11.3	8.94	6.75	4.61	2.66	1.33	0.44	0.23	0.16	0.17	
-50	40.3	39.3	37.7	35.6	33.2	30.5	27.4	23.9	20.4	16.6	12.5	8.99	5.92	2.98	1.17	0.35	0.16	0.17	
-40	70.0	66.7	62.1	56.6	50.7	44.8	39.6	34.5	29.5	24.4	19.4	14.2	9.24	5.42	2.26	0.47	0.16	0.17	
-30	195	169	134	106	83.7	67.5	55.3	45.6	37.8	31.4	25.3	19.3	12.7	7.46	3.28	0.71	0.19	0.17	
-20	776	661	480	294	173	109	77.5	59.4	46.2	37.0	29.8	22.8	15.7	9.18	4.35	1.05	0.21	0.17	
-10	1349	1245	1029	706	379	188	107	72.7	53.8	41.3	32.6	25.0	17.5	10.3	5.01	1.32	0.23	0.17	
0	1538	1468	1243	903	507	246	127	79.9	56.9	43.3	33.7	25.8	18.1	10.7	5.23	1.41	0.23	0.17	
10	1386	1247	1020	709	399	203	111	72.8	52.7	41.1	32.3	24.6	17.2	10.3	5.03	1.31	0.23	0.17	
20	844	720	530	338	203	122	81.2	58.5	45.5	36.7	29.0	21.9	15.1	9.17	4.45	1.06	0.22	0.17	
30	231	202	162	123	92.3	71.2	55.7	45.2	37.5	30.8	24.3	18.2	12.4	7.39	3.56	0.75	0.20	0.17	
40	75.8	72.5	67.3	60.8	52.6	44.8	38.7	33.8	29.0	23.9	18.8	13.7	9.26	5.45	2.34	0.52	0.18	0.17	
50	41.5	40.6	38.7	36.1	33.2	30.2	27.0	23.8	20.3	16.4	12.6	9.10	5.96	3.46	1.17	0.40	0.17	0.17	
60	23.9	23.3	22.4	21.3	20.0	18.3	16.2	13.7	11.3	9.04	6.93	4.82	2.96	1.30	0.54	0.27	0.18	0.17	
70	10.2	9.96	9.54	8.94	8.23	7.40	6.42	5.37	4.20	3.12	2.24	1.34	0.69	0.46	0.31	0.20	0.18	0.17	
80	1.32	1.26	1.19	1.10	0.94	0.78	0.61	0.50	0.43	0.39	0.34	0.29	0.24	0.22	0.22	0.20	0.19	0.17	
90	0.25	0.24	0.23	0.23	0.23	0.23	0.23	0.24	0.24	0.24	0.23	0.23	0.24	0.24	0.25	0.22	0.19	0.17	
100	0.40	0.40	0.39	0.39	0.39	0.38	0.36	0.35	0.35	0.33	0.32	0.30	0.30	0.29	0.28	0.24	0.20	0.17	
110	0.77	0.76	0.74	0.71	0.67	0.63	0.59	0.55	0.51	0.47	0.44	0.40	0.37	0.34	0.30	0.26	0.21	0.17	
120	1.70	1.64	1.56	1.45	1.32	1.19	1.06	0.93	0.81	0.69	0.61	0.53	0.46	0.41	0.34	0.27	0.22	0.17	
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.61	1.32	1.07	0.86	0.69	0.57	0.48	0.37	0.28	0.22	0.17	
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.62	1.22	0.92	0.70	0.53	0.39	0.29	0.22	0.17	
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.66	1.19	0.81	0.56	0.40	0.29	0.22	0.17	
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.31	0.84	0.56	0.40	0.29	0.22	0.17	
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.26	0.81	0.53	0.37	0.29	0.22	0.17	
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.09	0.70	0.46	0.34	0.28	0.22	0.17	

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:23DEG  
Operators:  
Test Date:2018-01-29

g Range: 0 - 120DEG  
g Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.402  
Humidity:56%  
Test Distance:10.580m [K=1.0000]  
Remarks: