



Underwater

ATLANTIS UNDERWATER LED FIXTURE Class III IP68 IK10

The Atlantis Underwater series is specially designed to light pools, fountains and water features with high power LED light. The series is made of 316L stainless steel to withstand salt water and chlorine. Standard finish is polished stainless steel to avoid collection of dirt and algae, but a brushed finish is also possible. The series comes as recessed, surface mount or spots. The spots are heavy duty with stainless steel brackets for sturdy fixing. The bodies are filled with cast resin and a specially developed potted power cable is used to effectively bond with the cast resin and stop any water ingress. The low voltage electronic LED driver is housed in the base of the fixture. The LEDs used come in 3 different tones of white, as well as blue, red, green, amber or RGB. Several lenses from 6 to 40 degrees are available to choose from to achieve the desired light effect.

Frame

316L Stainless Steel

Body

316L Stainless Steel

Recessing Tube

Aluminium

Gaskets

Silicone

Diffusers

Tempered Glass

Screws

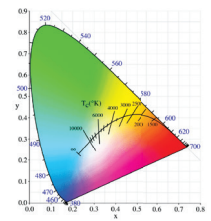
Stainless Steel

Mounting Brackets

316L Stainless Steel

“Customization” is EMFA’s standard

EMFA offers many combinations for each fixture, as all fixtures are made in house. A combination of 2 finishes of stainless steel, 8 LED colors, 2 wattages, and 5 or more lenses and reflectors are available to make the fixture suitable for the required application. This is done without increasing lead-time and is available for large as well as small quantities.



LEDs

Only highest quality LEDs such as Cree and Seoul Semiconductor are used in production allowing for maximum lumen output and maximum lifetime. Most LEDs run on 350mA or 700mA depending on how much light output is required. The white color temperature binning is 200K at most, and always on the same x,y coordinates on the CIE diagram in accordance with Energy Star. This ensures consistent supply of the same color temperature over time. As LEDs are constantly developing and becoming more efficient, lumen output given in this catalogue are current as of March 2014. At 2700K, 3300K, and 4500K LED lumen output per led is 75lm; at 6000K the lumen output per led is 115lm. Total Lighting Output as printed in this catalogue is the actual light output of the entire fixture. The minimum CRI of the LEDs used is 85 with a majority of products over 90.

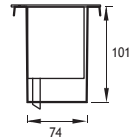
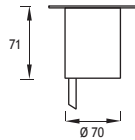
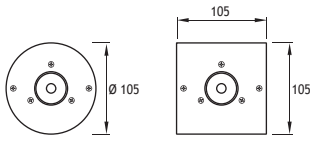
Thermal Management

All fixtures are designed to withstand ambient temperatures of at least 50°C. The LEDs are mounted on metal core pcbs, which are mounted the aluminium body of the fixture so that the entire fixture acts as a heat sink. Extensive testing is performed in EMFA’s laboratory to ensure these values are maintained so that the lifetime of the LED is not compromised.

ATLANTIS 1 UNDERWATER RECESSED LED FIXTURES

Class III IP68 IK10

With Recessing Tube



Aluminum recessing tube

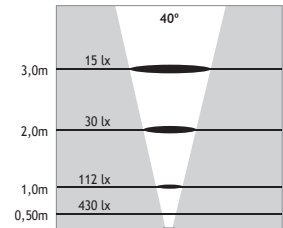
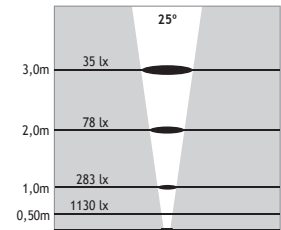
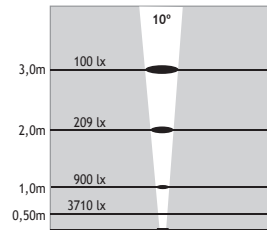


- Voltage** : 12V AC or DC (24V AC or DC on request)
- Lens** : 10°, 25°, 40°
- Diffuser** : 8 mm Clear Glass (Frosted Glass on request)
- Cable** : Potted 5 m 2x0,75 H03 VV-F

1 x 350 mA (1 W) LED

- Warm White
- Natural White
- Cool White
- Blue
- Red
- Amber
- Green

Total Lighting Output	Code No		
	Round	Square	
3300 K	70 lm	421101	421111
4500 K	70 lm	421106	421116
6000 K	82 lm	421107	421117
		421102	421112
		421103	421113
		421104	421114
		421105	421115

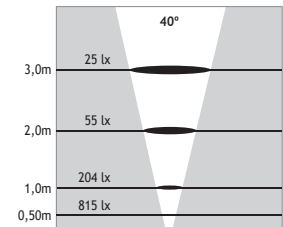
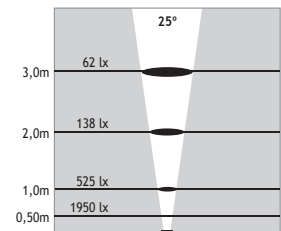
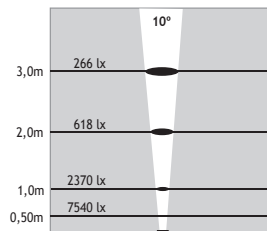


Lux levels for 3300K & 4500K

1 x 700 mA (3 W) LED

- Warm White
- Natural White
- Cool White
- Blue
- Red
- Amber
- Green

Total Lighting Output	Code No		
	Round	Square	
3300 K	150 lm	421201	421211
4500 K	150 lm	421202	421212
6000 K	165 lm	421203	421213
		421204	421214
		421205	421215
		421206	421216
		421207	421217

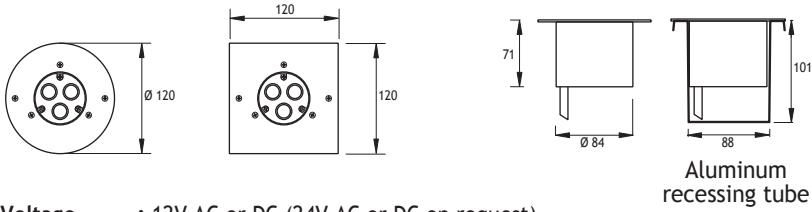


Lux levels for 3300K & 4500K

ATLANTIS 2 UNDERWATER RECESSED LED FIXTURES

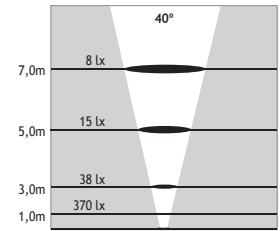
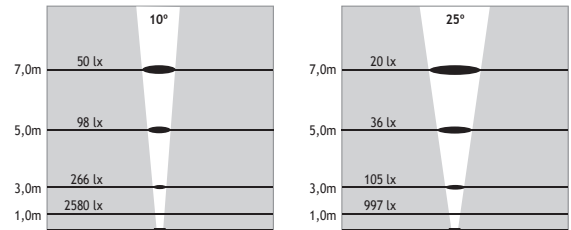
Class III IP68 IK10

With Recessing Tube



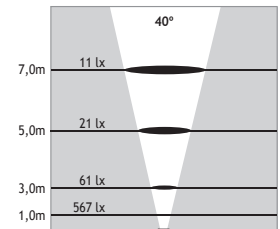
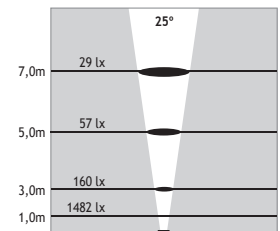
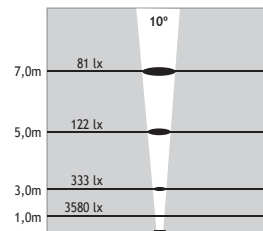
Voltage : 12V AC or DC (24V AC or DC on request)
Lens : 10°, 25°, 40°
Diffuser : 8 mm Clear Glass (Frosted Glass on request)
Cable : Potted 5 m 2x0,75 H03 VV-F

3 x 350 mA (3 W) LED		Total Lighting Output	Code No	
			Round	Square
☀ Warm White	3300 K	210 lm	421121	421131
☀ Natural White	4500 K	210 lm	421126	421136
☀ Cool White	6000 K	252 lm	421127	421137
🌊 Blue			421122	421132
🔴 Red			421123	421133
🟡 Amber			421124	421134
🟢 Green			421125	421135



Lux levels for 3300K & 4500K

3 x 700 mA (9 W) LED		Total Lighting Output	Code No	
			Round	Square
☀ Warm White	3300 K	450 lm	421301	421311
☀ Natural White	4500 K	450 lm	421302	421312
☀ Cool White	6000 K	540 lm	421303	421313
🌊 Blue			421304	421314
🔴 Red			421305	421315
🟡 Amber			421306	421316
🟢 Green			421307	421317

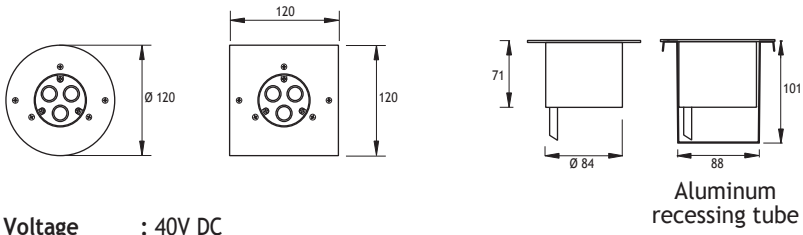


Lux levels for 3300K & 4500K

ATLANTIS 2 UNDERWATER RECESSED RGB LED FIXTURE

Class III IP68 IK10

With Recessing Tube

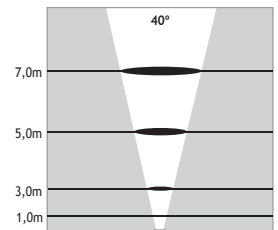
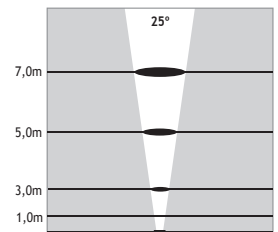


- Voltage** : 40V DC
- Lens** : 25° or 40°
- Diffuser** : 8 mm Clear Glass (Frosted Glass on request)
- Cable** : Potted 10 m 4x0,75 H03 VV-F

9 x 350 mA (9 W) RGB LED



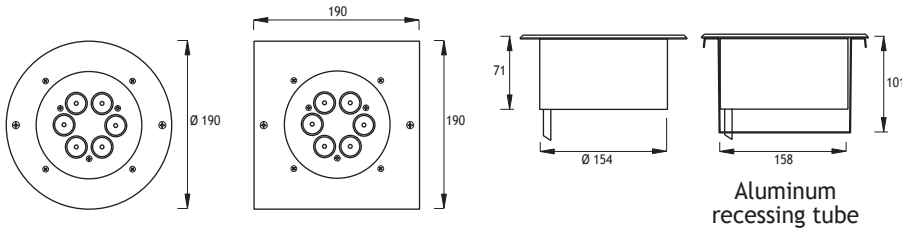
Code No	
Round	Square
421141	421151



ATLANTIS 5 UNDERWATER RECESSED LED FIXTURES

Class III IP68 IK10

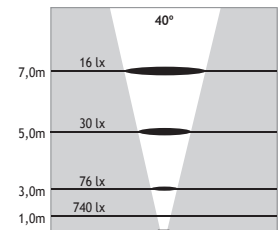
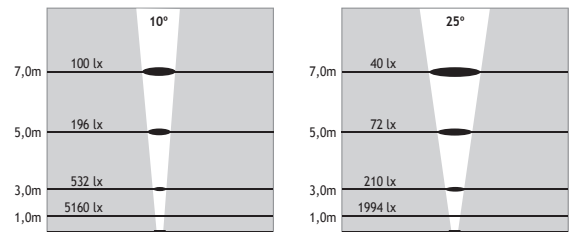
With Recessing Tube



- Voltage** : 24V AC or DC
- Lens** : 10°, 25°, 40°
- Diffuser** : 8 mm Clear Glass (Frosted Glass on request)
- Cable** : Potted 5 m 2x0,75 H03 VV-F

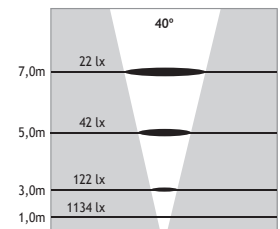
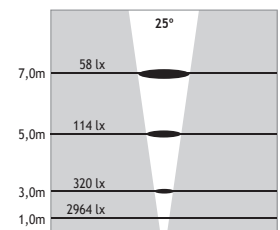
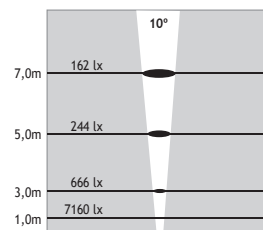


	Total Lighting Output	Code No	
		Round	Square
6 x 350 mA (6 W) LED			
☀ Warm White 3300 K	420 lm	405301	405311
☀ Natural White 4500 K	420 lm	405306	405316
☀ Cool White 6000 K	505 lm	405307	405317
🌊 Blue		405302	405312
🔴 Red		405303	405313
🟡 Amber		405304	405314
🟢 Green		405305	405315



Lux levels for 3300K & 4500K

	Total Lighting Output	Code No	
		Round	Square
6 x 700 mA (18 W) LED			
☀ Warm White 3300 K	900 lm	421801	421811
☀ Natural White 4500 K	900 lm	421802	421812
☀ Cool White 6000 K	1080 lm	421803	421813
🌊 Blue		421804	421814
🔴 Red		421805	421815
🟡 Amber		421806	421816
🟢 Green		421807	421817

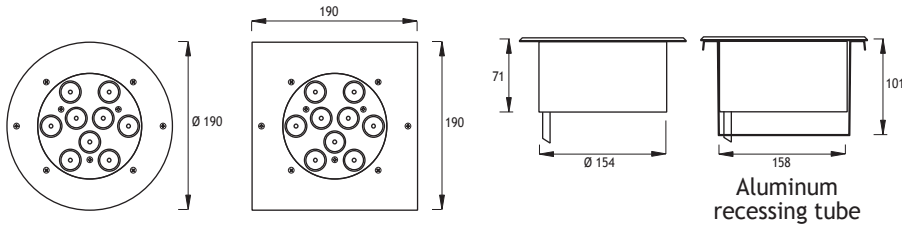


Lux levels for 3300K & 4500K

ATLANTIS 5 UNDERWATER RECESSED LED FIXTURES

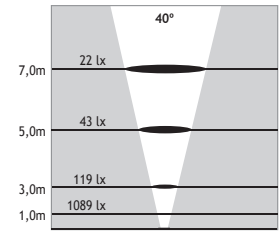
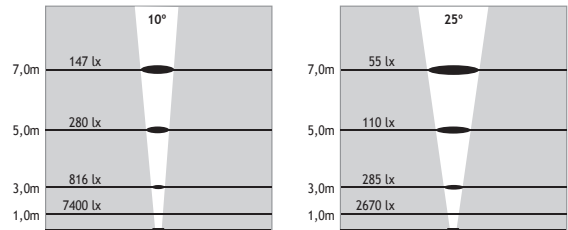
Class III IP68 IK10

With Recessing Tube



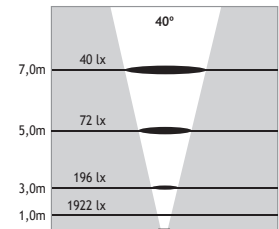
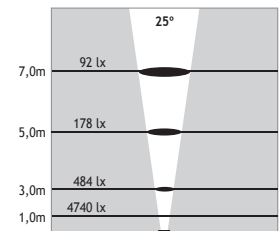
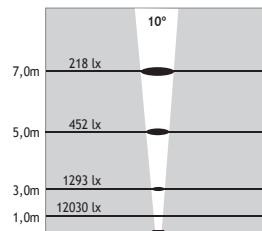
- Voltage** : 24V AC or DC
- Lens** : 10°, 25°, 40°
- Diffuser** : 8 mm Clear Glass (Frosted Glass on request)
- Cable** : Potted 5 m 2x0,75 H03 VV-F

9 x 350 mA (9 W) LED		Total Lighting Output	Code No	
			Round	Square
☀ Warm White	3300 K	630 lm	405321	405331
☁ Natural White	4500 K	630 lm	405326	405336
☀ Cool White	6000 K	756 lm	405327	405337
🌊 Blue			405322	405332
🔴 Red			405323	405333
🟡 Amber			405324	405334
🟢 Green			405325	405335



Lux levels for 3300K & 4500K

9 x 700 mA (27 W) LED		Total Lighting Output	Code No	
			Round	Square
☀ Warm White	3300 K	1350 lm	421821	421831
☁ Natural White	4500 K	1350 lm	421822	421832
☀ Cool White	6000 K	1620 lm	421823	421833
🌊 Blue			421824	421834
🔴 Red			421825	421835
🟡 Amber			421826	421836
🟢 Green			421827	421837

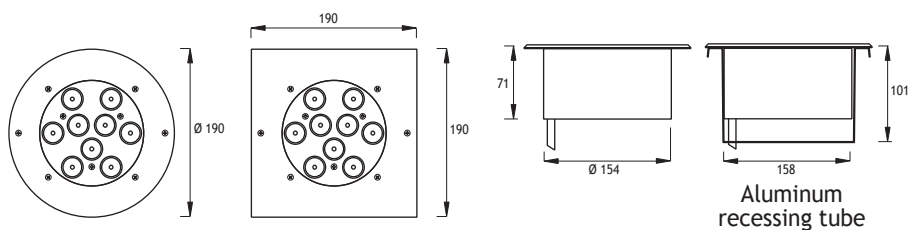


Lux levels for 3300K & 4500K

ATLANTIS 27

UNDERWATER RECESSED RGB LED FIXTURE Class III IP68 IK10

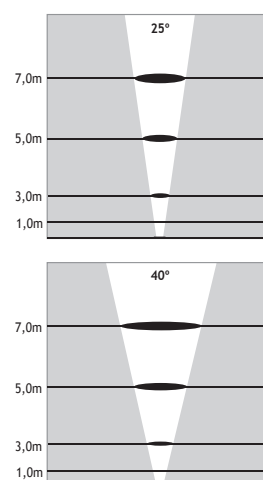
With Recessing Tube



Voltage : 40V DC
Lens : 25° or 40°
Diffuser : 8 mm Clear Glass (Frosted Glass on request)
Cable : Potted 10 m 4x0,75 H03 VV-F

27 x 350 mA (30 W) RGB LED

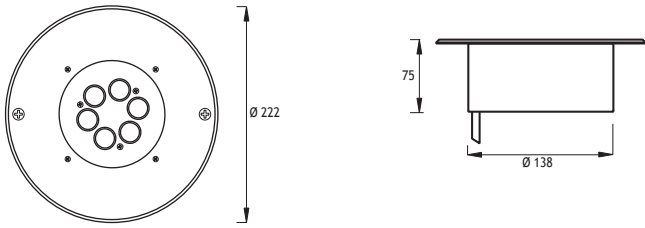
Code No
 Round Square
 405341 405351



ATLANTIS 27

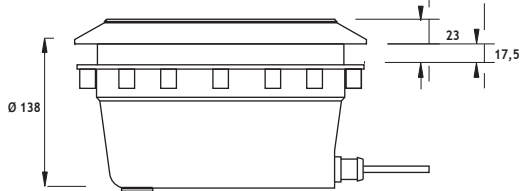
SWIMMING POOL LED FIXTURE Class III IP68 IK10

With Plastic Recessing Tube



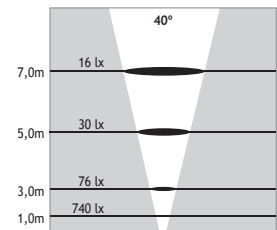
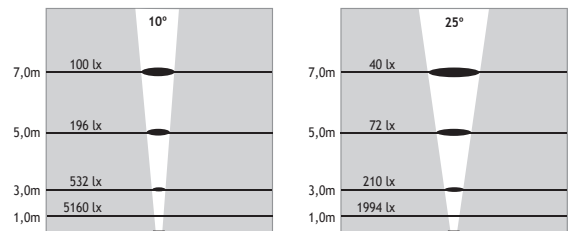
- Voltage** : 24V AC or DC
- Lens** : 10°, 25°, 40°
- Diffuser** : 8 mm Clear Glass (Frosted Glass on request)
- Cable** : Potted 10 m 2x0,75 H03 VV-F

LIGHTING NICHE SET



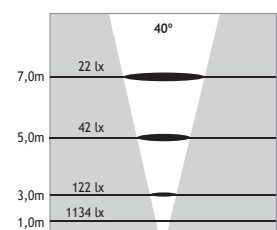
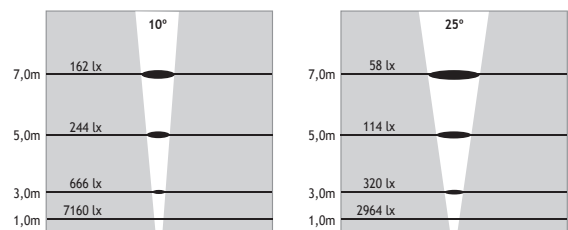
CODE NO 953701

6 x 350 mA (6 W) LED		Total Lighting Output	Code No
Warm White	3300 K	420 lm	405471
Natural White	4500 K	420 lm	405476
Cool White	6000 K	505 lm	405477
Blue			405472
Red			405473
Amber			405474
Green			405475



Lux levels for 3300K & 4500K

6 x 700 mA (18 W) LED		Total Lighting Output	Code No
Warm White	3300 K	900 lm	421701
Natural White	4500 K	900 lm	421702
Cool White	6000 K	1080 lm	421703
Blue			421704
Red			421705
Amber			421706
Green			421707

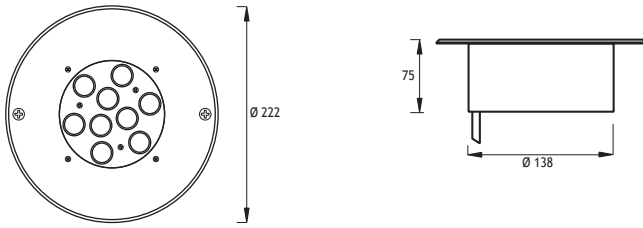


Lux levels for 3300K & 4500K

ATLANTIS 27

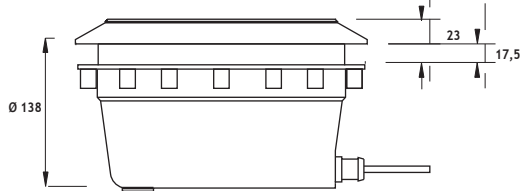
SWIMMING POOL LED FIXTURE Class III IP68 IK10

With Plastic Recessing Tube



- Voltage** : 24V AC or DC
- Lens** : 10°, 25°, 40°
- Diffuser** : 8 mm Clear Glass (Frosted Glass on request)
- Cable** : Potted 10 m 2x0,75 H03 VV-F

LIGHTING NICHE SET



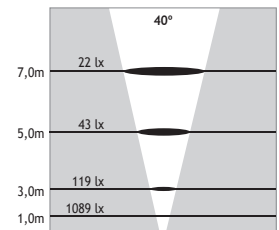
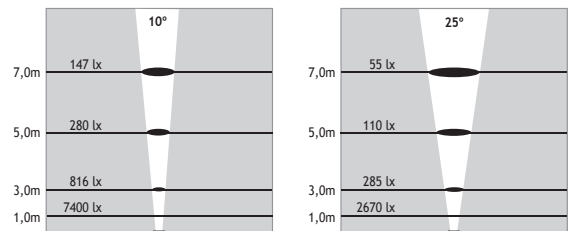
CODE NO 953701

9 x 350 mA (9 W) LED

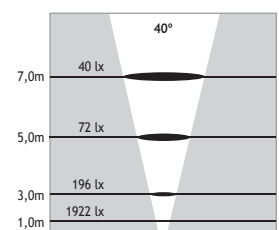
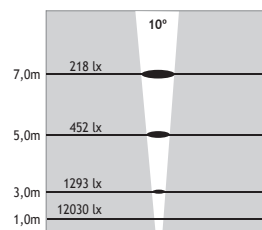
		Total Lighting Output	Code No
☀ Warm White	3300 K	630 lm	405481
☀ Natural White	4500 K	630 lm	405486
☀ Cool White	6000 K	756 lm	405487
🌊 Blue			405482
🔴 Red			405483
🟡 Amber			405484
🟢 Green			405485

9 x 700 mA (27 W) LED

		Total Lighting Output	Code No
☀ Warm White	3300 K	1350 lm	421711
☀ Natural White	4500 K	1350 lm	421712
☀ Cool White	6000 K	1620 lm	421713
🌊 Blue			421714
🔴 Red			421715
🟡 Amber			421716
🟢 Green			421717



Lux levels for 3300K & 4500K

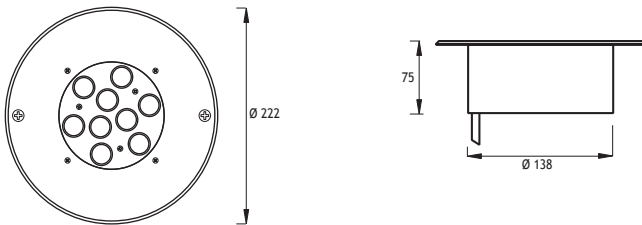


Lux levels for 3300K & 4500K

ATLANTIS 27

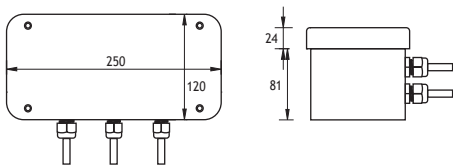
SWIMMING POOL RGB LED FIXTURE Class III IP68 IK10

- Body**
316L Stainless Steel Pipe
- Frame**
4 mm Polished Stainless Steel
- Screws**
316L Stainless Steel
- Diffuser**
8 mm Clear Glass
- Gasket**
Silicone
- Remote Gear Box**
240 VAC Class I
Control by DMX, remote control or push button



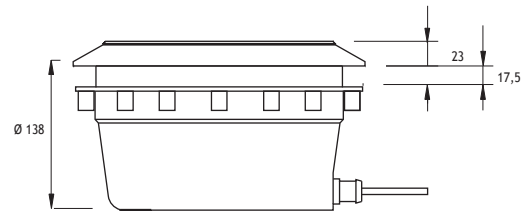
- Voltage** : 40V DC Class III
- Lens** : 25°, 40°
- Diffuser** : 8 mm Clear Glass (Frosted Glass on request)
- Cable** : Potted 10 m 4x0,75 H03 VV-F
(Up to 100 m possible)

27 x 350 mA (30 W) RGB LED
 CODE NO 425311 ROUND FRAME ● ● ●

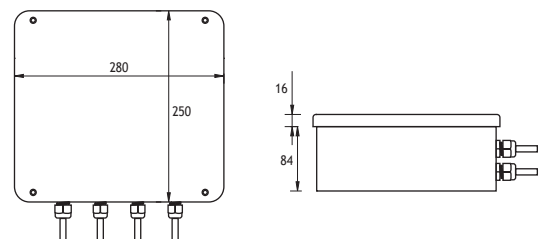


CODE NO 953702
 SLIM IP 65 CONTROL BOX (For Max. 1 RGBox)
 GLASS REINFORCED POLYESTER BODY

LIGHTING NICHE SET



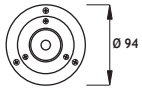
CODE NO 953701
 LIGHTING NICHE SET (POLYPROPYLENE)



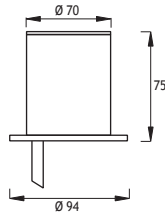
CODE NO 953703
 WIDE IP 65 CONTROL BOX (For Max. 3 RGBoxes)
 GLASS REINFORCED POLYESTER BODY

ATLANTIS 1 UNDERWATER SURFACE MOUNTED LED FIXTURES

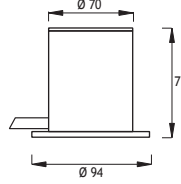
Class III IP68 IK10



Cable exits from bottom



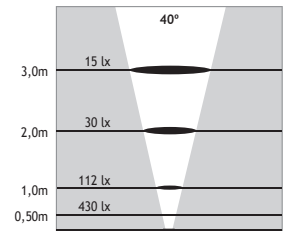
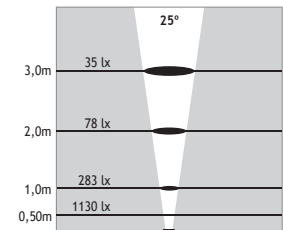
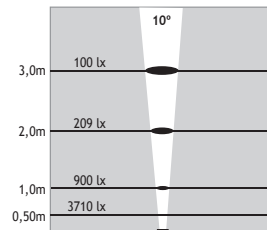
Cable exits from side



Voltage : 24V AC or DC
Lens : 10°, 25°, 40°
Diffuser : 8 mm Clear Glass (Frosted Glass on request)
Cable : Potted 5 m 2x0,75 H03 VV-F

1 x 350 mA (1 W) LED

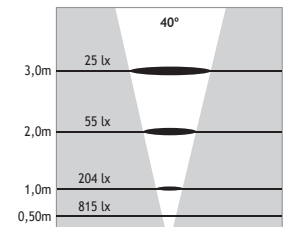
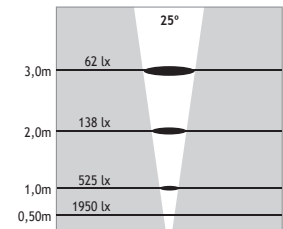
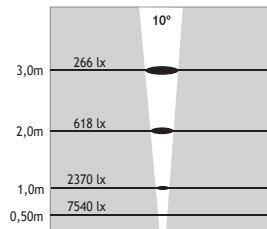
		Total Lighting Output	Code No
Warm White	3300 K	70 lm	405361
Natural White	4500 K	70 lm	405366
Cool White	6000 K	82 lm	405367
Blue			405362
Red			405363
Amber			405364
Green			405365



Lux levels for 3300K & 4500K

1 x 700 mA (3 W) LED

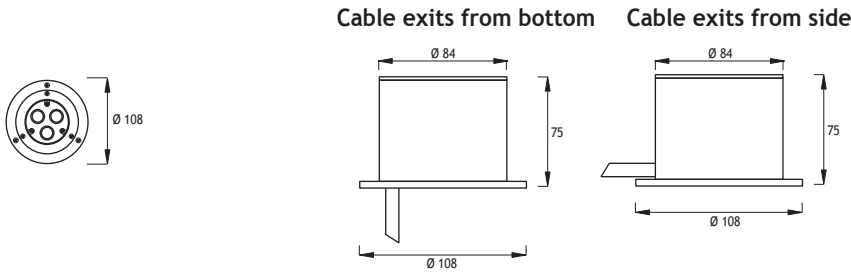
		Total Lighting Output	Code No
Warm White	3300 K	150 lm	421321
Natural White	4500 K	150 lm	421322
Cool White	6000 K	165 lm	421323
Blue			421324
Red			421325
Amber			421326
Green			421327



Lux levels for 3300K & 4500K

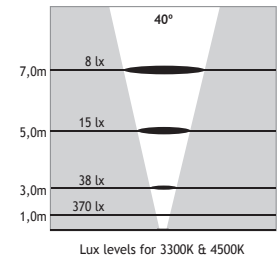
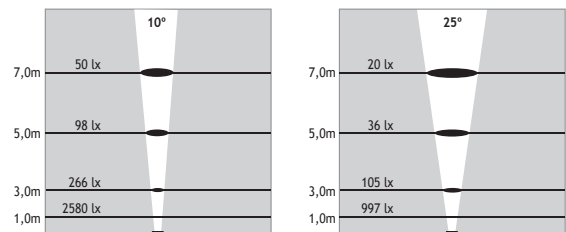
ATLANTIS 2 UNDERWATER SURFACE MOUNTED LED FIXTURES

Class III IP68 IK10

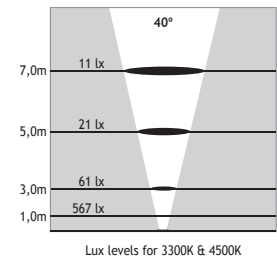
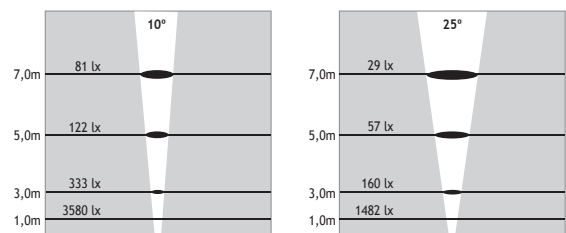


Voltage : 12V AC or DC (24 AC or DC on request)
Lens : 10°, 25°, 40°
Diffuser : 8 mm Clear Glass (Frosted Glass on request)
Cable : Potted 5 m 2x0,75 H03 VV-F

3 x 350 mA (3 W) LED		Total Lighting Output	Code No
Warm White	3300 K	210 lm	405371
Natural White	4500 K	210 lm	405376
Cool White	6000 K	252 lm	405377
Blue			405372
Red			405373
Amber			405374
Green			405375



3 x 700 mA (9 W) LED		Total Lighting Output	Code No
Warm White	3300 K	450 lm	421331
Natural White	4500 K	450 lm	421332
Cool White	6000 K	540 lm	421333
Blue			421334
Red			421335
Amber			421336
Green			421337

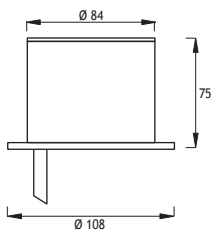


ATLANTIS 2 UNDERWATER SURFACE MOUNTED RGB LED FIXTURES

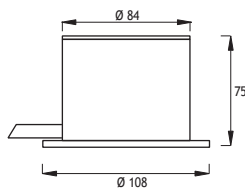
Class III IP68 IK10



Cable exits from bottom



Cable exits from side

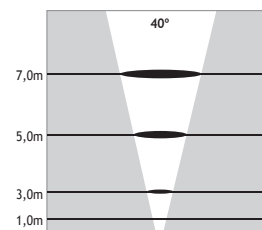
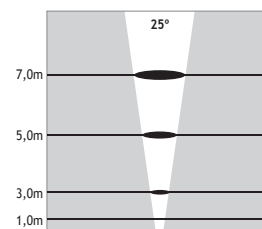


- Voltage** : 40V DC
- Lens** : 25°, 40°
- Diffuser** : 8 mm Clear Glass (Frosted Glass on request)
- Cable** : Potted 10 m 4x0,75 H03 VV-F

9 x 350 mA (9 W) RGB LED



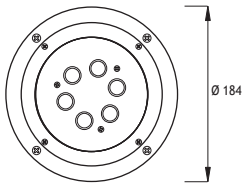
Code No
405201



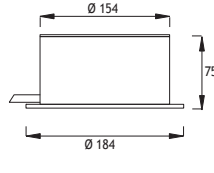
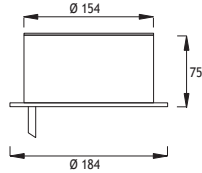
ATLANTIS 5

UNDERWATER SURFACE MOUNTED LED FIXTURES

Class III IP68 IK10

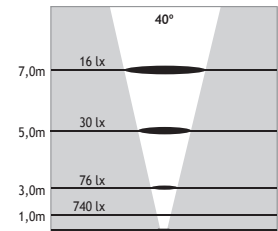
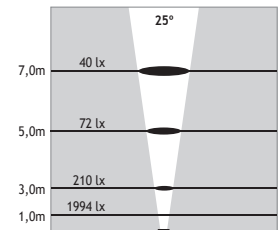
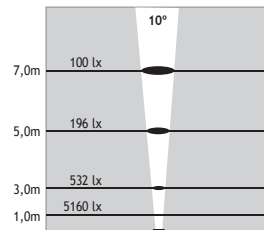


Cable exits from bottom Cable exits from side



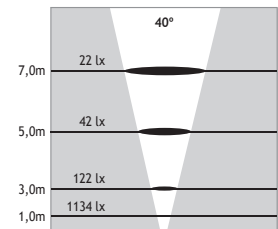
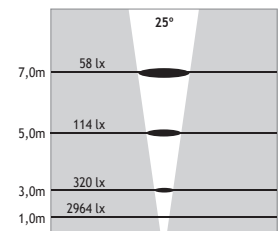
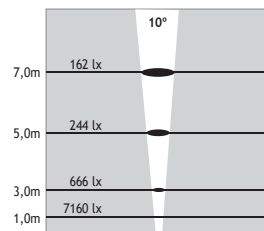
Voltage : 24V AC or DC on request
Lens : 10°, 25°, 40°
Diffuser : 8 mm Clear Glass (Frosted Glass on request)
Cable : Potted 5 m 2x0,75 H03 VV-F

6 x 350 mA (6 W) LED		Total Lighting Output	Code No
Warm White	3300 K	420 lm	405381
Natural White	4500 K	420 lm	405386
Cool White	6000 K	540 lm	405387
Blue			405382
Red			405383
Amber			405384
Green			405385



Lux levels for 3300K & 4500K

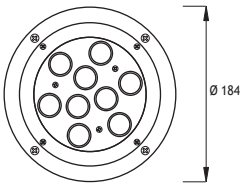
6 x 700 mA (18 W) LED		Total Lighting Output	Code No
Warm White	3300 K	900 lm	421841
Natural White	4500 K	900 lm	421842
Cool White	6000 K	1080 lm	421843
Blue			421844
Red			421845
Amber			421846
Green			421847



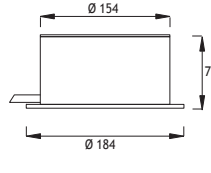
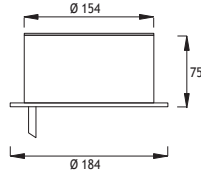
Lux levels for 3300K & 4500K

ATLANTIS 5 UNDERWATER SURFACE MOUNTED LED FIXTURES

Class III IP68 IK10

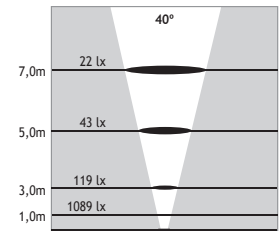
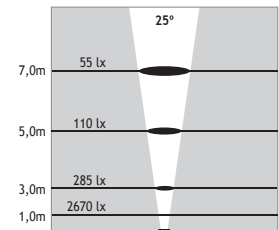
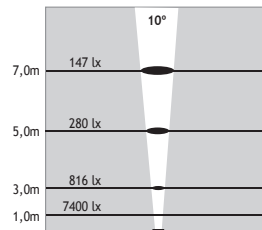


Cable exits from bottom Cable exits from side



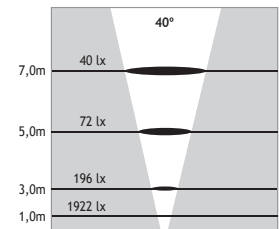
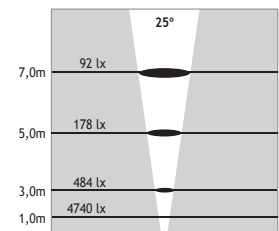
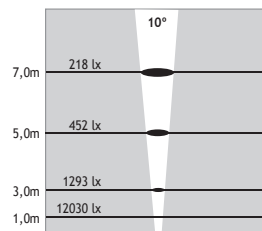
Voltage : 24V AC or DC on request
Lens : 10°, 25°, 40°
Diffuser : 8 mm Clear Glass (Frosted Glass on request)
Cable : Potted 5 m 2x0,75 H03 VV-F

9 x 350 mA (9 W) LED		Total Lighting Output	Code No
Warm White	3300 K	630 lm	405391
Natural White	4500 K	630 lm	405396
Cool White	6000 K	756 lm	405397
Blue			405392
Red			405393
Amber			405394
Green			405395



Lux levels for 3300K & 4500K

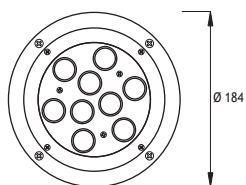
9 x 700 mA (27 W) LED		Total Lighting Output	Code No
Warm White	3300 K	1350 lm	421851
Natural White	4500 K	1350 lm	421852
Cool White	6000 K	1620 lm	421853
Blue			421854
Red			421855
Amber			421856
Green			421857



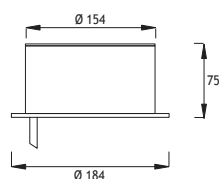
Lux levels for 3300K & 4500K

ATLANTIS 27

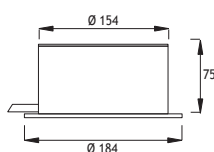
UNDERWATER SURFACE MOUNTED RGB LED FIXTURE Class III IP68 IK10



Cable exits from bottom



Cable exits from side

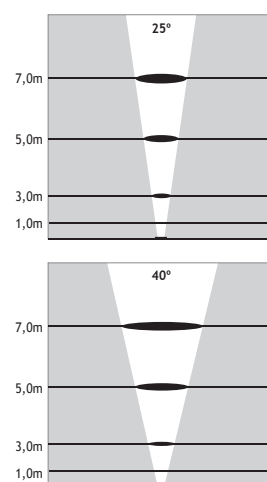


- Voltage : 40V DC
- Lens : 25°, 40°
- Diffuser : 8 mm Clear Glass (Frosted Glass on request)
- Cable : Potted 10 m 4x0,75 H03 VV-F

27 x 350 mA (30 W) RGB LED

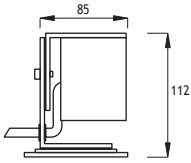


Code No
405411



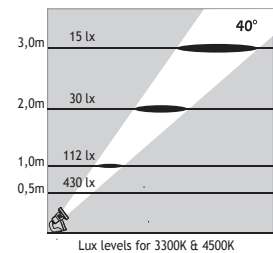
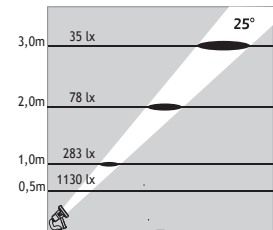
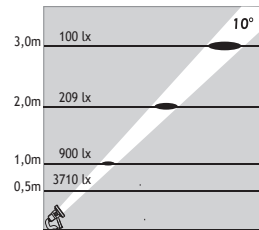
ATLANTIS 1 UNDERWATER LED SPOTS

Class III IP68 IK10

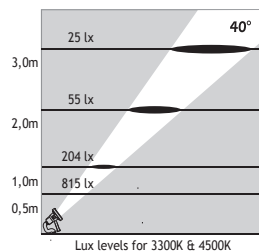
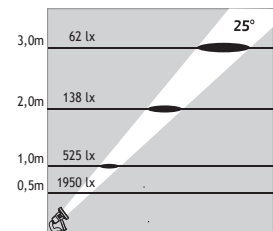
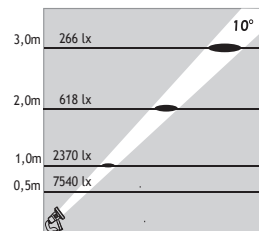


Voltage : 12V AC or DC (24V AC or DC on request)
Lens : 10°, 25°, 40°
Diffuser : 8 mm Clear Glass (Frosted Glass on request)
Cable : Potted 5 m 2x0,75 H03 VV-F

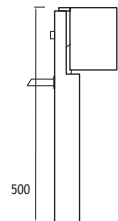
1 x 350 mA (1 W) LED		Total Lighting Output	Code No
Warm White	3300 K	70 lm	405421
Natural White	4500 K	70 lm	405426
Cool White	6000 K	82 lm	405427
Blue			405422
Red			405423
Amber			405424
Green			405425



1 x 700 mA (3 W) LED		Total Lighting Output	Code No
Warm White	3300 K	150 lm	405241
Natural White	4500 K	150 lm	405242
Cool White	6000 K	165 lm	405243
Blue			405244
Red			405245
Amber			405246
Green			405247

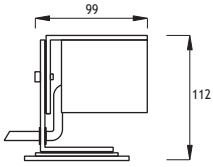


Available also with stainless steel picket for ground mounting



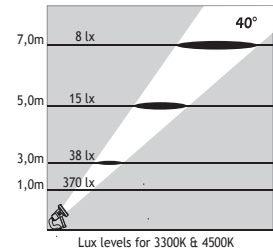
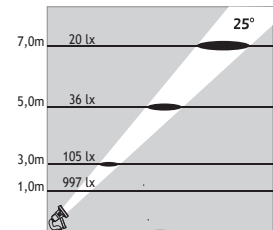
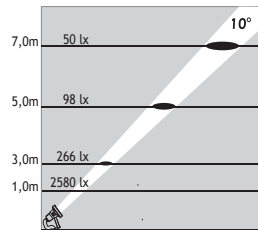
ATLANTIS 2 UNDERWATER LED SPOTS

Class III IP68 IK10

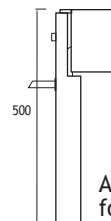
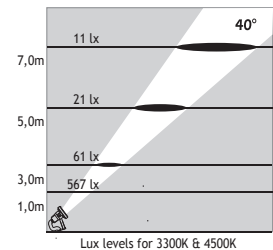
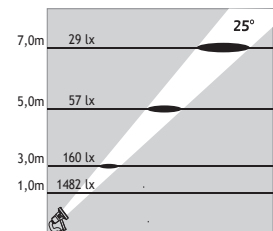
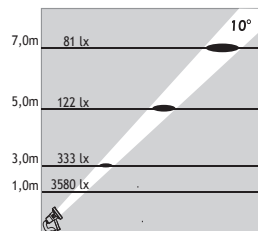


Voltage : 12V AC or DC (24V AC or DC on request)
Lens : 10°, 25°, 40°
Diffuser : 8 mm Clear Glass (Frosted Glass on request)
Cable : Potted 5 m 2x0,75 H03 VV-F

3 x 350 mA (3 W) LED		Total Lighting Output	Code No
Warm White	3300 K	210 lm	405251
Natural White	4500 K	210 lm	405252
Cool White	6000 K	252 lm	405253
Blue			405254
Red			405255
Amber			405256
Green			405257



3 x 700 mA (9 W) LED		Total Lighting Output	Code No
Warm White	3300 K	450 lm	421341
Natural White	4500 K	450 lm	421342
Cool White	6000 K	540 lm	421343
Blue			421344
Red			421345
Amber			421346
Green			421347

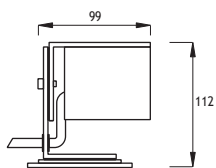


Available also with stainless steel picket for ground mounting

ATLANTIS 2

UNDERWATER RGB LED SPOT

Class III IP68 IK10



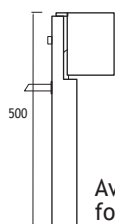
- Voltage : 40V DC
- Lens : 25°, 40°
- Diffuser : 8 mm Clear Glass (Frosted Glass on request)
- Cable : Potted 10 m 4x0,75 H03 VV-F

9 x 350 mA (9 W) RGB LED

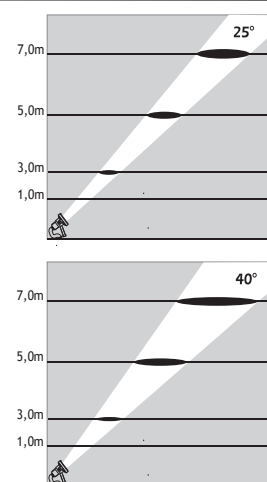
Code No
405431



RGB

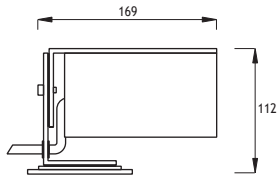
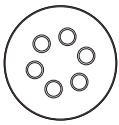


Available also with stainless steel picket
for ground mounting



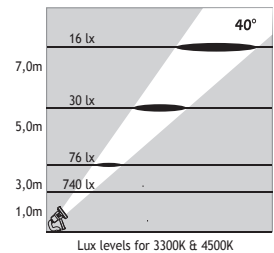
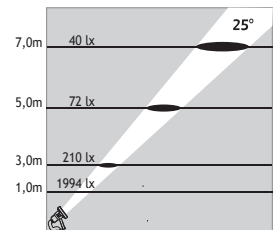
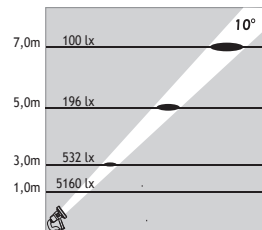
ATLANTIS 5 UNDERWATER LED SPOT

Class III IP68 IK10

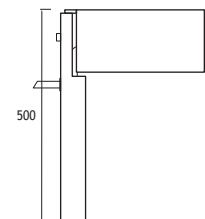
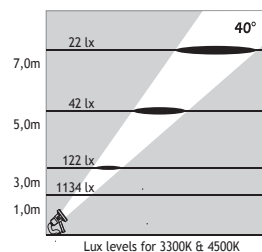
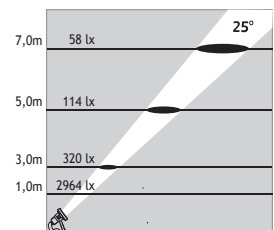
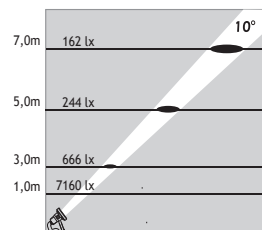


Voltage : 24V AC or DC on request
Lens : 10°, 25°, 40°
Diffuser : 8 mm Clear Glass (Frosted Glass on request)
Cable : Potted 5 m 2x0,75 H03 VV-F

6 x 350 mA (6 W) LED		Total Lighting Output	Code No
Warm White	3300 K	420 lm	405441
Natural White	4500 K	420 lm	405446
Cool White	6000 K	505 lm	405447
Blue			405442
Red			405443
Amber			405444
Green			405445



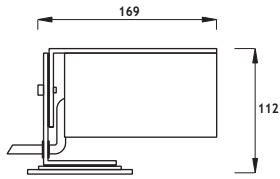
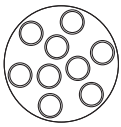
6 x 700 mA (18 W) LED		Total Lighting Output	Code No
Warm White	3300 K	900 lm	421861
Natural White	4500 K	900 lm	421862
Cool White	6000 K	1080 lm	421863
Blue			421864
Red			421865
Amber			421866
Green			421867



Available also with stainless steel picket for ground mounting

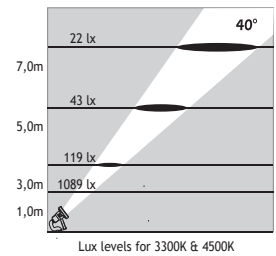
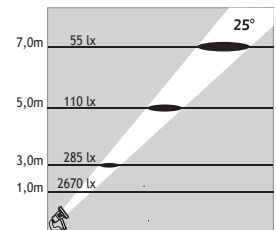
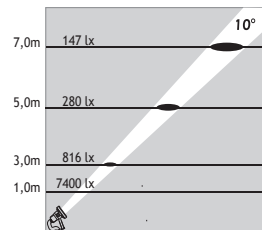
ATLANTIS 5 UNDERWATER LED SPOT

Class III IP68 IK10

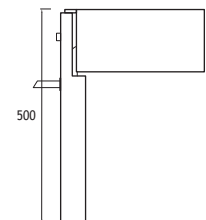
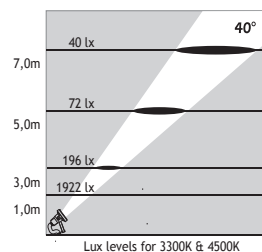
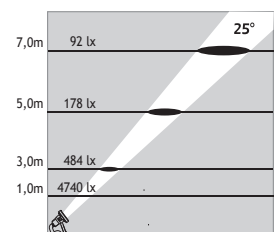
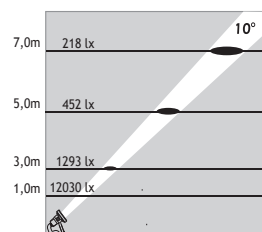


Voltage : 24V AC or DC on request
Lens : 10°, 25°, 40°
Diffuser : 8 mm Clear Glass (Frosted Glass on request)
Cable : Potted 5 m 2x0,75 H03 VV-F

9 x 350 mA (9 W) LED		Total Lighting Output	Code No
Warm White	3300 K	630 lm	405451
Natural White	4500 K	630 lm	405456
Cool White	6000 K	756 lm	405457
Blue			405452
Red			405453
Amber			405454
Green			405455



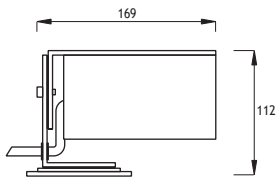
9 x 700 mA (27 W) LED		Total Lighting Output	Code No
Warm White	3300 K	1350 lm	421871
Natural White	4500 K	1350 lm	421872
Cool White	6000 K	1620 lm	421873
Blue			421874
Red			421875
Amber			421876
Green			421877



Available also with stainless steel picket for ground mounting

ATLANTIS 27

UNDERWATER RGB LED SPOT
Class III IP68 IK10

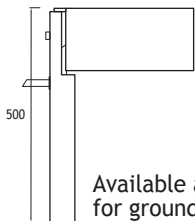


- Voltage : 40V DC
- Lens : 25°, 40°
- Diffuser : 8 mm Clear Glass (Frosted Glass on request)
- Cable : Potted 10 m 4x0,75 H03 VV-F

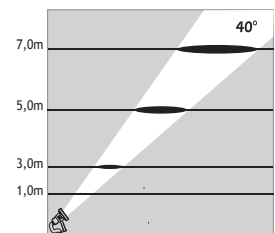
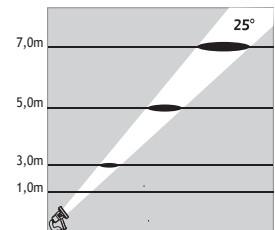
27 x 350 mA (30 W) RGB LED



Code No
405461



Available also with stainless steel picket
for ground mounting



INOX 1 UNDERWATER RECESSED

Class III IP68

EMFA's Inox 1 Underwater recessed fixtures is completely made of solid 316L stainless steel to withstand salt water and chlorine. The fixture is specially designed to light fountains and water features. A special factory sealed cable is used to avoid any ingress of water. The fixture comes with a round or square cover, and step-mounted or flush-mounted. Standard finish is polished stainless steel to avoid collection of dirt and algae, but a brushed finish is also possible. The recessing tube is also made completely of 316L stainless steel to avoid any corrosion.

Body

316L marine grade stainless steel

Frame

316L marine grade stainless steel

Diffuser

Tempered Glass

Gaskets

Silicone

Screws

316L marine grade stainless steel

Gland

316L Inox Recessing Tube

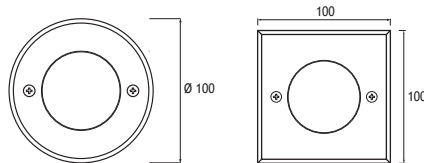
Lampholder : Gu 5.3

Reflector : -

Diffuser : 8 mm Tempered Glass

Transformer is not included.

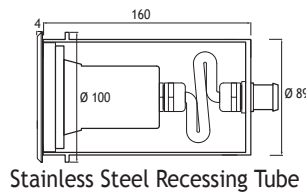
Remote transformer should be used.



HALOGEN 12V 50W

Step Mounted

Code No
Round Square
134211 134201



Stainless Steel Reccessing Tube



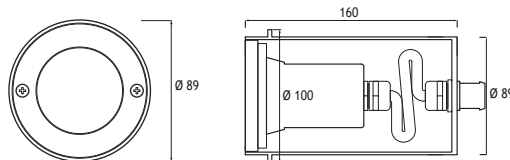
Lampholder : Gu 5.3

Reflector : -

Diffuser : Clear Glass

Transformer is not included.

Remote transformer should be used.



Stainless Steel Reccessing Tube



HALOGEN 12V 50W

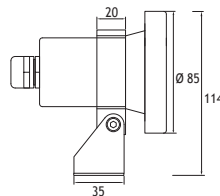
Flush Mounted

Code No
134221

INOX 1 UNDERWATER RECESSED Class III IP68

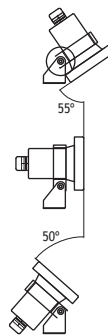
EMFA's Inox 1 Underwater spot is completely made of solid 316L stainless steel to withstand salt water and chlorine. The spot is specially designed to light fountains and water features. A special factory sealed cable is used to avoid any ingress of water. Standard finish is polished stainless steel to avoid collection of dirt and algae, but a brushed finish is also possible.

- Body**
316L marine grade stainless steel
- Frame**
316L marine grade stainless steel
- Diffuser**
Tempered Glass
- Gaskets**
Silicone
- Screws**
316L marine grade stainless steel
- Gland**
316L marine grade stainless steel



- Lampholder** : Gu 5.3
- Reflector** : -
- Diffuser** : Clear Glass
- Transformer is not included.
- Remote transformer should be used.

HALOGEN 12V 50W Code No
134101



MIRA ATLANTIS 1 UNDERWATER RECESSED LED FIXTURES

Class III IP68 IK10

The Mira Atlantis Underwater series brings together the rectangular LED fixture called Mira with the underwater feature of the Atlantis. Engineered completely from marine grade stainless steel, 316L, this range is designed to light pools, fountains and water features with efficient LED lighting. Standard finish is polished stainless steel to avoid collection of dirt and algae, but a brushed finish is also available on request. The series comes as recessed or surface mount. The surface mounted version has heavy-duty stainless steel adjustable brackets for sturdy fixing. The bodies are filled with cast resin and a specially developed potted power cable is used to effectively bond with the cast resin and stop any water ingress. The low voltage electronic LED driver is housed in the base of the fixture. The LEDs used come in 3 different tones of white, as well as blue, red, green, amber or RGB. Several lenses from 6 to 40 degrees are available to choose from to achieve the desired underwater the light effect.



Cover

316L Stainless steel

Body

Die cast aluminium

Diffusers

12 mm Tempered Glass

Gaskets

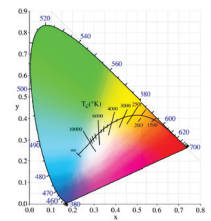
Silicone

Screws

316L Stainless steel

Recessing Box

Stainless steel



“Customization” is EMFA’s standard

EMFA offers many combinations for each fixture, as all fixtures are made in house. A combination of 2 finishes of stainless steel, 8 LED colors, 2 wattages, and 5 or more lenses and reflectors are available to make the fixture suitable for the required application. This is done without increasing lead-time and is available for large as well as small quantities.

LEDs

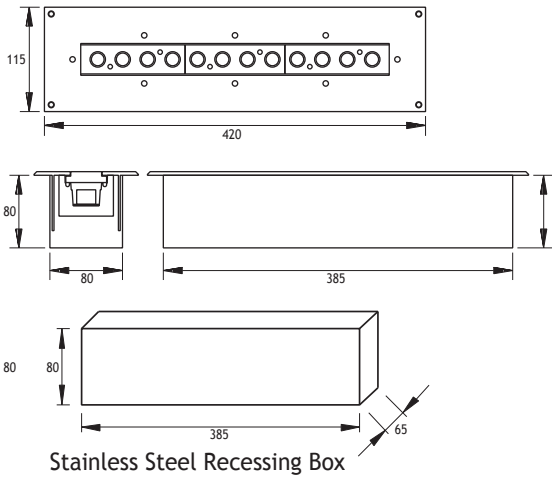
Only highest quality LEDs such as Cree and Seoul Semiconductor are used in production allowing for maximum lumen output and maximum lifetime. Most LEDs run on 350mA or 700mA depending on how much light output is required. The white color temperature binning is 200K at most, and always on the same x,y coordinates on the CIE diagram in accordance with Energy Star. This ensures consistent supply of the same color temperature over time. As LEDs are constantly developing and becoming more efficient, lumen output given in this catalogue are current as of March 2014. At 2700K, 3300K, and 4500K LED lumen output per led is 75lm; at 6000K the lumen output per led is 115lm. Total Lighting Output as printed in this catalogue is the actual light output of the entire fixture. The minimum CRI of the LEDs used is 85 with a majority of products over 90.

Thermal Management

All fixtures are designed to withstand ambient temperatures of at least 50°C. The LEDs are mounted on metal core pcbs, which are mounted the aluminium body of the fixture so that the entire fixture acts as a heat sink. Extensive testing is performed in EMFA’s laboratory to ensure these values are maintained so that the lifetime of the LED is not compromised.

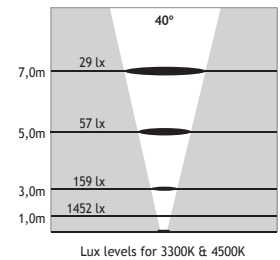
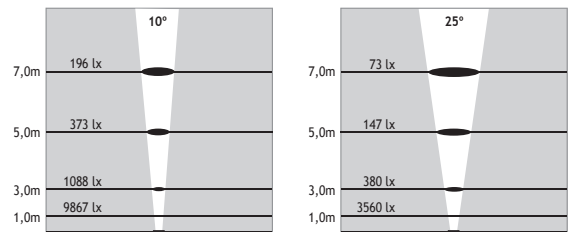
MIRA ATLANTIS 1 UNDERWATER RECESSED LED FIXTURES

Class III IP68 IK10



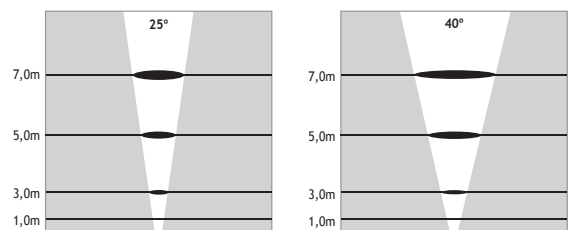
Voltage : 24V AC or DC
Lens : 10°, 25°, 40°
Diffuser : Clear Glass 12 mm (Frosted Glass on request)
Cable : Potted 5 m 2x0,75 H03 VV-F

		Total Lighting Output	Code No
12 x 350 mA (12 W) LED			
☀ Warm White	3300 K	840 lm	429001
☀ Natural White	4500 K	840 lm	429002
☀ Cool White	6000 K	1008 lm	429003
🔵 Blue			429004
🔴 Red			429005
🟡 Amber			429006
🟢 Green			429007



Voltage : 24V AC or DC
Lens : 25°, 40°
Diffuser : Clear Glass 12 mm (Frosted Glass on request)
Cable : Potted 10 m 4x0,75 H03 VV-F

27 x 350 mA (27 W) RGB LED	Code No
🔴 🟢 🟡	429011



MIRA ATLANTIS 1 UNDERWATER SURFACE MOUNTED LED FIXTURES

Class III IP68 IK10

The Mira Atlantis Underwater series brings together the rectangular LED fixture called Mira with the underwater feature of the Atlantis. Engineered completely from marine grade stainless steel, 316L, this range is designed to light pools, fountains and water features with efficient LED lighting. Standard finish is polished stainless steel to avoid collection of dirt and algae, but a brushed finish is also available on request. The series comes as recessed or surface mount. The surface mounted version has heavy-duty stainless steel adjustable brackets for sturdy fixing. The bodies are filled with cast resin and a specially developed potted power cable is used to effectively bond with the cast resin and stop any water ingress. The low voltage electronic LED driver is housed in the base of the fixture. The LEDs used come in 3 different tones of white, as well as blue, red, green, amber or RGB. Several lenses from 6 to 40 degrees are available to choose from to achieve the desired underwater the light effect.



Cover

316L Stainless steel

Body

Die cast aluminium

Diffusers

12 mm Tempered Glass

Gaskets

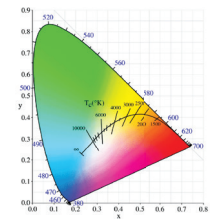
Silicone

Screws

316L Stainless steel

Mounting Brackets

316L Stainless steel



“Customization” is EMFA’s standard

EMFA offers many combinations for each fixture, as all fixtures are made in house. A combination of 2 finishes of stainless steel, 8 LED colors, 2 wattages, and 5 or more lenses and reflectors are available to make the fixture suitable for the required application. This is done without increasing lead-time and is available for large as well as small quantities.

LEDs

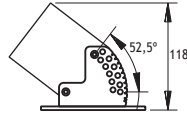
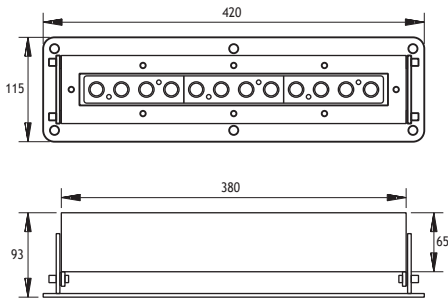
Only highest quality LEDs such as Cree and Seoul Semiconductor are used in production allowing for maximum lumen output and maximum lifetime. Most LEDs run on 350mA or 700mA depending on how much light output is required. The white color temperature binning is 200K at most, and always on the same x,y coordinates on the CIE diagram in accordance with Energy Star. This ensures consistent supply of the same color temperature over time. As LEDs are constantly developing and becoming more efficient, lumen output given in this catalogue are current as of March 2014. At 2700K, 3300K, and 4500K LED lumen output per led is 75lm; at 6000K the lumen output per led is 115lm. Total Lighting Output as printed in this catalogue is the actual light output of the entire fixture. The minimum CRI of the LEDs used is 85 with a majority of products over 90.

Thermal Management

All fixtures are designed to withstand ambient temperatures of at least 50°C. The LEDs are mounted on metal core pcbs, which are mounted the aluminium body of the fixture so that the entire fixture acts as a heat sink. Extensive testing is performed in EMFA’s laboratory to ensure these values are maintained so that the lifetime of the LED is not compromised.

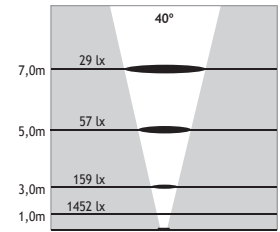
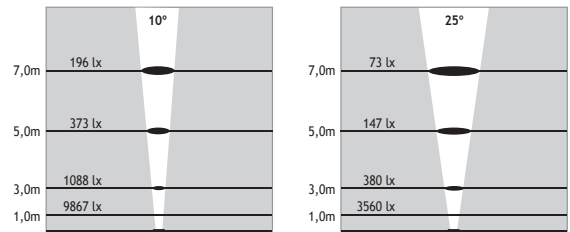
MIRA ATLANTIS 1

UNDERWATER SURFACE MOUNTED LED FIXTURES Class III IP68 IK10



Voltage : 24V AC or DC
Lens : 10°, 25°, 40°
Diffuser : Clear Glass 12 mm (Frosted Glass on request)
Cable : Potted 5 m 2x0,75 H03 VV-F

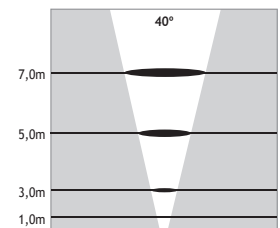
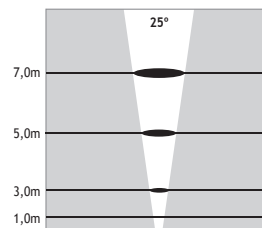
12 x 350 mA (12 W) LED		Total Lighting Output	Code No
☀ Warm White	3300 K	840 lm	429021
☀ Natural White	4500 K	840 lm	429022
☀ Cool White	6000 K	1008 lm	429023
🟦 Blue			429024
🟥 Red			429025
🟡 Amber			429026
🟢 Green			429027



Lux levels for 3300K & 4500K

Voltage : 24V AC or DC
Lens : 25°, 40°
Diffuser : Clear Glass 12 mm (Frosted Glass on request)
Cable : Potted 10 m 4x0,75 H03 VV-F

27 x 350 mA (27 W) RGB LED		Code No
🟥 🟢 🟦		429031



MIRA ATLANTIS 2 UNDERWATER RECESSED LED FIXTURES

Class III IP68 IK10

The Mira Atlantis Underwater series brings together the rectangular LED fixture called Mira with the underwater feature of the Atlantis. Engineered completely from marine grade stainless steel, 316L, this range is designed to light pools, fountains and water features with efficient LED lighting. Standard finish is polished stainless steel to avoid collection of dirt and algae, but a brushed finish is also available on request. The series comes as recessed or surface mount. The surface mounted version has heavy-duty stainless steel adjustable brackets for sturdy fixing. The bodies are filled with cast resin and a specially developed potted power cable is used to effectively bond with the cast resin and stop any water ingress. The low voltage electronic LED driver is housed in the base of the fixture. The LEDs used come in 3 different tones of white, as well as blue, red, green, amber or RGB. Several lenses from 6 to 40 degrees are available to choose from to achieve the desired underwater the light effect.



Cover

316L Stainless steel

Body

Die cast aluminium

Diffusers

12 mm Tempered Glass

Gaskets

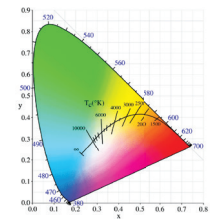
Silicone

Screws

316L Stainless steel

Recessing Box

Stainless steel



“Customization” is EMFA’s standard

EMFA offers many combinations for each fixture, as all fixtures are made in house. A combination of 2 finishes of stainless steel, 8 LED colors, 2 wattages, and 5 or more lenses and reflectors are available to make the fixture suitable for the required application. This is done without increasing lead-time and is available for large as well as small quantities.

LEDs

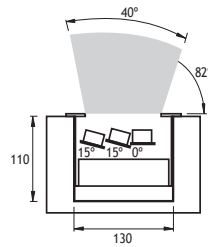
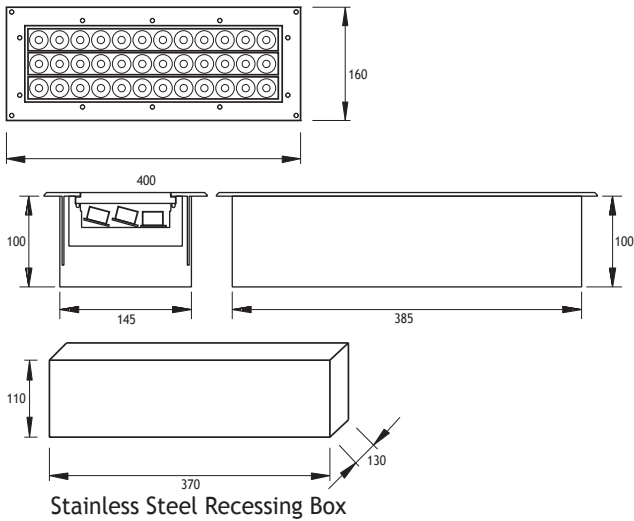
Only highest quality LEDs such as Cree and Seoul Semiconductor are used in production allowing for maximum lumen output and maximum lifetime. Most LEDs run on 350mA or 700mA depending on how much light output is required. The white color temperature binning is 200K at most, and always on the same x,y coordinates on the CIE diagram in accordance with Energy Star. This ensures consistent supply of the same color temperature over time. As LEDs are constantly developing and becoming more efficient, lumen output given in this catalogue are current as of March 2014. At 2700K, 3300K, and 4500K LED lumen output per led is 75lm; at 6000K the lumen output per led is 115lm. Total Lighting Output as printed in this catalogue is the actual light output of the entire fixture. The minimum CRI of the LEDs used is 85 with a majority of products over 90.

Thermal Management

All fixtures are designed to withstand ambient temperatures of at least 50°C. The LEDs are mounted on metal core pcbs, which are mounted the aluminium body of the fixture so that the entire fixture acts as a heat sink. Extensive testing is performed in EMFA’s laboratory to ensure these values are maintained so that the lifetime of the LED is not compromised.

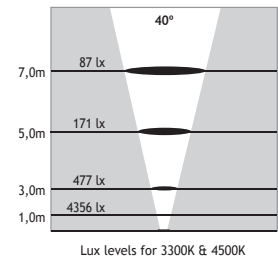
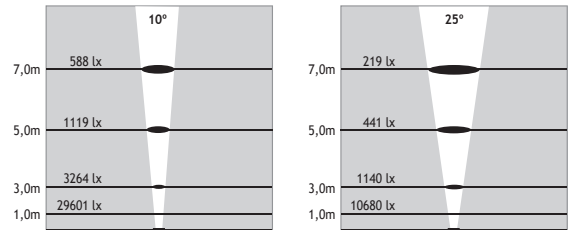
MIRA ATLANTIS 2 UNDERWATER RECESSED LED FIXTURES

Class III IP68 IK10



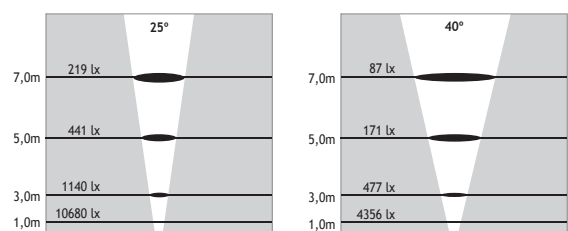
- Voltage** : 24V AC or DC
- Lens** : 10°, 25°, 40°
- Diffuser** : Clear Glass 12 mm (Frosted Glass on request)
- Cable** : Potted 5 m 2x0,75 H03 VV-F

		Total Lighting Output	Code No
36 x 350 mA (36 W) LED			
☀ Warm White	3300 K	2520 lm	429041
☁ Natural White	4500 K	2520 lm	429042
☀ Cool White	6000 K	3024 lm	429043
🌊 Blue			429044
🔴 Red			429045
🟡 Amber			429046
🟢 Green			429047



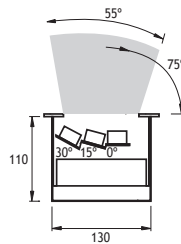
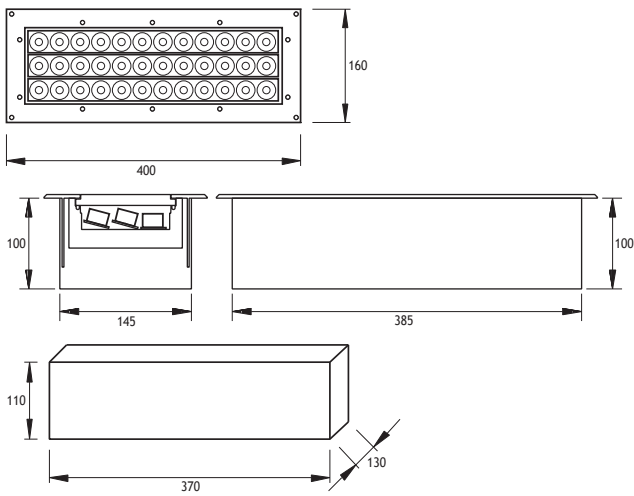
- Voltage** : 24V AC or DC
- Lens** : 25°, 40°
- Diffuser** : Clear Glass 12 mm (Frosted Glass on request)
- Cable** : Potted 10 m 4x0,75 H03 VV-F

	Code No
27 x 350 mA (27 W) RGB LED	
🔴 🟢 🟡	429051



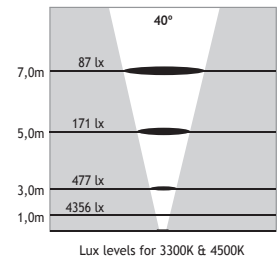
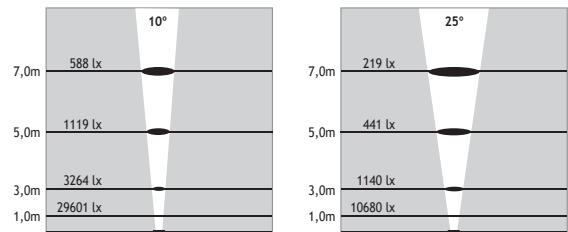
MIRA ATLANTIS 2 UNDERWATER RECESSED LED FIXTURES

Class III IP68 IK10

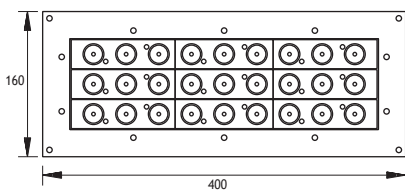


- Voltage** : 24V AC or DC
- Lens** : 10°, 25°, 40°
- Diffuser** : Clear Glass 12 mm (Frosted Glass on request)
- Cable** : Potted 5 m 2x0,75 H03 VV-F

		Total Lighting Output	Code No
36 x 350 mA (36 W) LED			
☀ Warm White	3300 K	2520 lm	429061
☀ Natural White	4500 K	2520 lm	429062
☀ Cool White	6000 K	3024 lm	429063
🌊 Blue			429064
🔴 Red			429065
🟡 Amber			429066
🟢 Green			429067

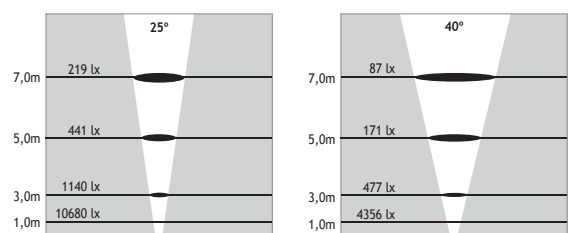


Lux levels for 3300K & 4500K



- Voltage** : 24V AC or DC
- Lens** : 25°, 40°
- Diffuser** : Clear Glass 12 mm (Frosted Glass on request)
- Cable** : Potted 10 m 4x0,75 H03 VV-F

	Code No
27 x 350 mA (27 W) RGB LED	
🟡 🟢 🟠	429071



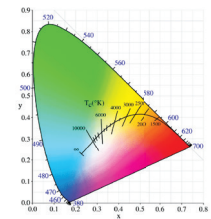
Lux levels for 3300K & 4500K



MIRA ATLANTIS 2 UNDERWATER SURFACE MOUNTED LED FIXTURES

Class III IP68 IK10

The Mira Atlantis Underwater series brings together the rectangular LED fixture called Mira with the underwater feature of the Atlantis. Engineered completely from marine grade stainless steel, 316L, this range is designed to light pools, fountains and water features with efficient LED lighting. Standard finish is polished stainless steel to avoid collection of dirt and algae, but a brushed finish is also available on request. The series comes as recessed or surface mount. The surface mounted version has heavy-duty stainless steel adjustable brackets for sturdy fixing. The bodies are filled with cast resin and a specially developed potted power cable is used to effectively bond with the cast resin and stop any water ingress. The low voltage electronic LED driver is housed in the base of the fixture. The LEDs used come in 3 different tones of white, as well as blue, red, green, amber or RGB. Several lenses from 6 to 40 degrees are available to choose from to achieve the desired underwater the light effect.



Cover

316L Stainless steel

Body

Die cast aluminium

Diffusers

12 mm Tempered Glass

Gaskets

Silicone

Screws

316L Stainless steel

Mounting Brackets

316L Stainless steel

“Customization” is EMFA’s standard

EMFA offers many combinations for each fixture, as all fixtures are made in house. A combination of 2 finishes of stainless steel, 8 LED colors, 2 wattages, and 5 or more lenses and reflectors are available to make the fixture suitable for the required application. This is done without increasing lead-time and is available for large as well as small quantities.

LEDs

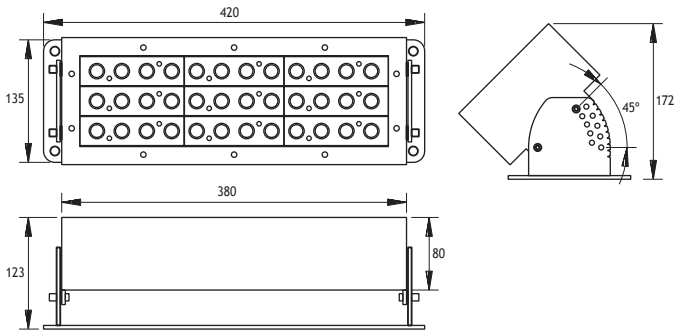
Only highest quality LEDs such as Cree and Seoul Semiconductor are used in production allowing for maximum lumen output and maximum lifetime. Most LEDs run on 350mA or 700mA depending on how much light output is required. The white color temperature binning is 200K at most, and always on the same x,y coordinates on the CIE diagram in accordance with Energy Star. This ensures consistent supply of the same color temperature over time. As LEDs are constantly developing and becoming more efficient, lumen output given in this catalogue are current as of March 2014. At 2700K, 3300K, and 4500K LED lumen output per led is 75lm; at 6000K the lumen output per led is 115lm. Total Lighting Output as printed in this catalogue is the actual light output of the entire fixture. The minimum CRI of the LEDs used is 85 with a majority of products over 90.

Thermal Management

All fixtures are designed to withstand ambient temperatures of at least 50°C. The LEDs are mounted on metal core pcbs, which are mounted the aluminium body of the fixture so that the entire fixture acts as a heat sink. Extensive testing is performed in EMFA’s laboratory to ensure these values are maintained so that the lifetime of the LED is not compromised.

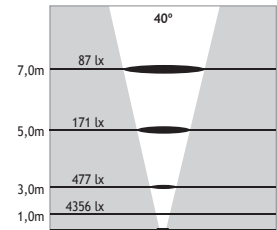
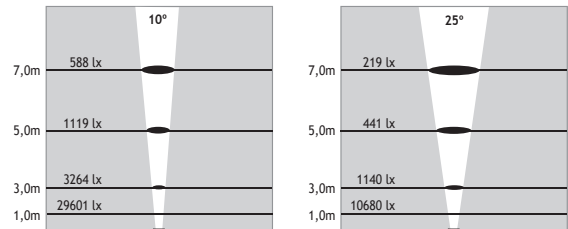
MIRA ATLANTIS 2 UNDERWATER SURFACE MOUNTED LED FIXTURES

Class III IP68 IK10



- Voltage** : 24V AC or DC
- Lens** : 10°, 25°, 40°
- Diffuser** : Clear Glass 12 mm (Frosted Glass on request)
- Cable** : Potted 5 m 2x0,75 H03 VV-F

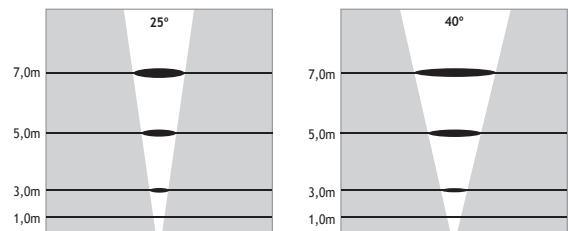
36 x 350 mA (36 W) LED		Total Lighting Output	Code No
☀ Warm White	3300 K	2520 lm	429081
☀ Natural White	4500 K	2520 lm	429082
☀ Cool White	6000 K	3024 lm	429083
🔵 Blue			429084
🔴 Red			429085
🟡 Amber			429086
🟢 Green			429087



Lux levels for 3300K & 4500K

- Voltage** : 24V AC or DC
- Lens** : 25°, 40°
- Diffuser** : Clear Glass 12 mm (Frosted Glass on request)
- Cable** : Potted 10 m 4x0,75 H03 VV-F

81 x 350 mA (81 W) RGB LED	Code No
🔴 🟢 🟡	429091



ASSOS UNDERWATER FIXTURES

Available in any of these RAL colors

7004	7016	9005	9016	6002	1015
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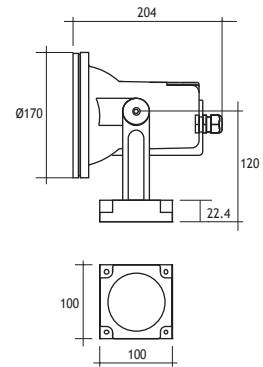
Body
Die cast aluminium
Paint
Black or white electrostatic powder.
(All other colours on request)
Gaskets
Silicone
Glands
1 or 2xPG 13.5 / 1 or 2xPG 16
Diffuser
Tempered press glass



Class III IP 68 IK 10

Lampholder : E27 fixed
Reflector : 70° (For incandescent lamps)
Diffuser : Press Glass

Code No
INCANDESCENT 40-100W 12V 130101
(HALOGEN PAR 30-75-100W)



Class III IP 68

Lampholder : E27 loose
Reflector : -
Diffuser : -
Transformer is not included.
Remote transformer should be used.

Code No
HALOGEN PAR 38 12-24V 130111
80-120W

