



The ultimate underwater lamp from WaterVision. "Seeing is believing!"



Why they need to be seen to be believed

With its NanoPower® series, WaterVision optimises the lighting effect in the water. This is in contrast to the WaterVision Kelvin® series, which is optimised for the best lumen/watt ratio, as is usual with underwater lighting. **But does more light really lead to better visibility?**

With NanoPower, WaterVision strives to optimise the lighting effect in water to offer:

1. **Safety:** a higher contrast between swimmers and their surroundings leads to better visibility of the swimmer, especially in the peripheral vision.
2. **Light efficiency:** by (a) minimising light attenuation in the water and (b) keeping the light in the water for as long as possible, the lighting effect is significantly improved.
3. **Good distribution of the light:** with a minimum of lamps it is still possible to clearly light all corners of the swimming pool.
4. **Pleasant light:** (a) minimal glare in and above water and (b) light composition that makes people feel comfortable.
5. **Total lighting effect in all facets:** roughly 90% of pools can be divided into three categories: stainless steel pools, pools tiled with hard-glazed tiles and outdoor natural pools. WaterVision offers optimised floodlights for each category.

Lumen values are therefore not representative of the optimal light effect in the water. That's why we say: "Seeing is believing". We would also be happy to put you in touch with one of our many satisfied NanoPower users, so that they can share their experiences with you.

- Fewer lamps
- Lower energy consumption
- More light
- Good visibility
- Improved safety
- Quick installation
- Sustainable
- Proven quality
- Since 2004
- Made in Holland

The NanoPower colours

NanoPower lamps are available in the three natural colours of water: Mediterranean Blue, Bright White and Spring White. These light colours provide different effects and atmospheric experiences. Every indoor or outdoor pool can usually be (invisibly) matched with an optimal colour and experience. Below, you can find advice on which colour best matches in different situations:

NanoPower® colours	Race pools	Recreation pools	Instruction pools	Outside pools	Divepools	Whirlpools
Mediterranean Blue	✓✓✓	✓✓✓	✓✓✓	✓✓✓	✓✓✓	✓✓✓
Bright White	✓✓✓	✓	✓✓	✓	✓✓✓	✓
Spring White	✗	✗	✗	✓✓✓	✗	✗

Where is NanoPower used?

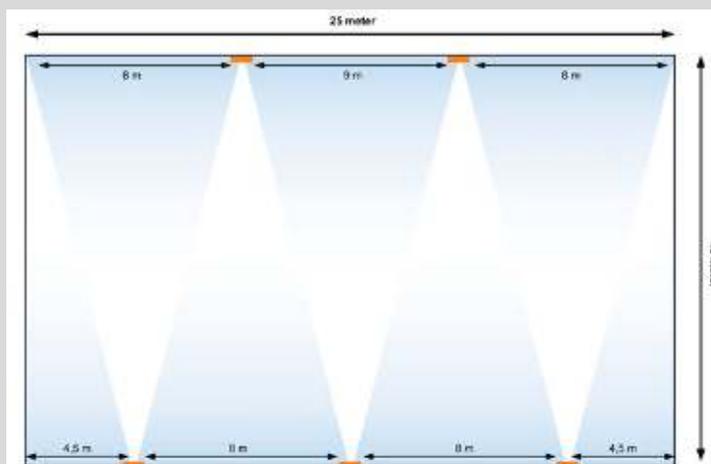
NanoPower comes into its own when light has to pass through water over longer distances (>7m). This is generally in pools larger than 100m². With NanoPower, the opposite pool wall is lit, as a rule. Typically, when the two lamps shine opposite each other, the middle of the pool is lit most intensely. For smaller pools, we recommend the Wv15 Kelvin series of underwater floodlights

Durable and robust

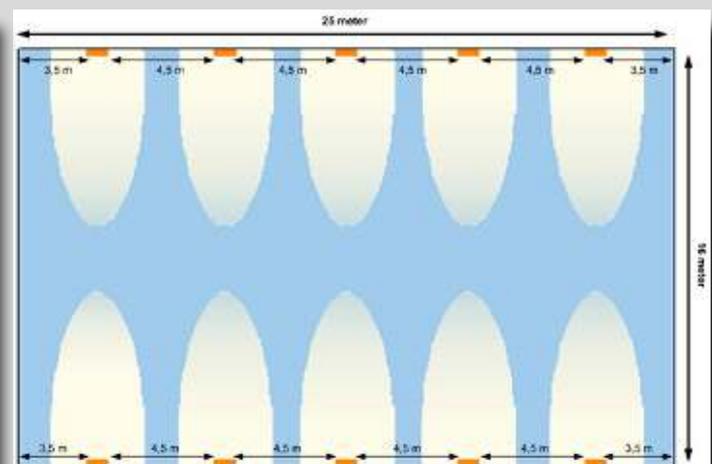
The timeless and characteristic design of the WV15 fittings has remained unchanged and unrivalled since 2004. All WaterVision LED engines up to 200 Watt fit in the same housing. You may choose for yourself whether to take a different colour or changing colours. This makes replacing and upgrading the lamps easy and economical. Not only does this save time but it also saves considerably on costs. The fitting is durable and by reusing it, you help to protect the environment.

How many NanoPower lamps do I need?

The example below shows how many NanoPower® lamps are recommended for a 25 metre pool, compared to LED lamps from the Kelvin series.



5x WaterVision NanoPower LED Bright White 60 watt

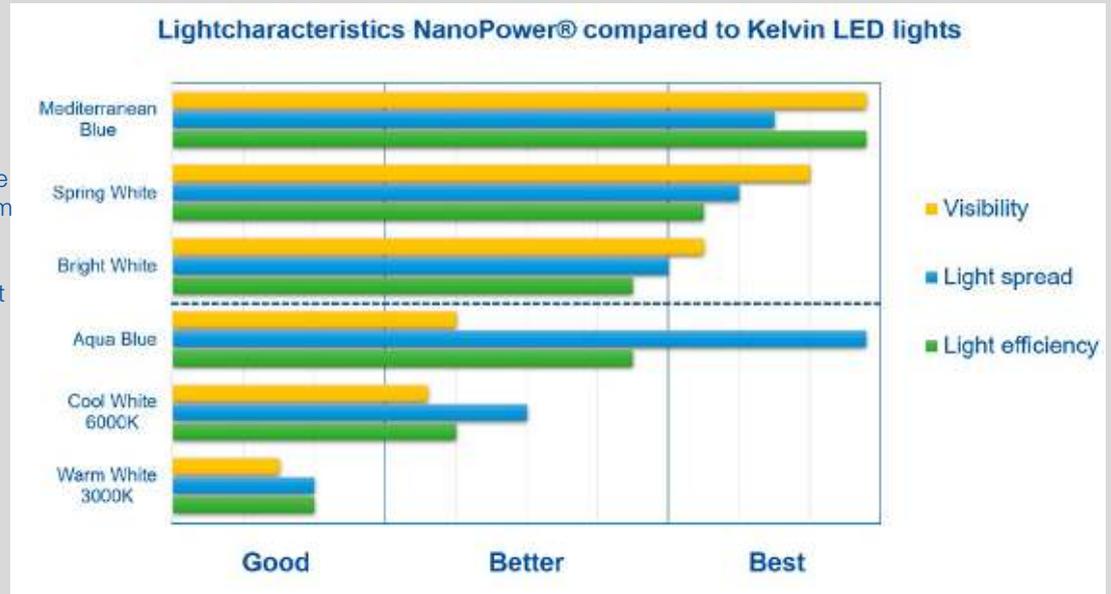


10x WaterVision Kelvin white 3000K LED lights 60 watt



Light characteristics

The illustration alongside shows how the different NanoPower colours perform compared to the Kelvin LED lighting colours (Warm White, Cool White and Aqua Blue). The comparison is based on the properties of visibility, light distribution and light efficiency.



“The light from the WaterVision lamps shines far through the water and reflects against the walls, so that the pool is evenly lit. Swimmers underwater are more easily visible making it less tiring for the supervisors.”

- Jos van Gennip, accommodation manager De Tongelreep, Eindhoven

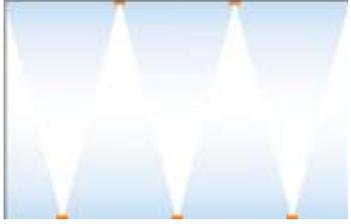


On-site demo?

Nothing is more convincing than a practical demonstration. WaterVision has a demonstration team that can show you the effect in your own pool. Interested? Please feel free to contact us.

The NanoPower packages

The WV15 NanoPower LED underwater floodlights are available in four standard colours; Mediterranean Blue, Bright White and Spring White. We have put together the following packages for the most common swimming pool configurations.

Swimming pool 25 metres by 16 metres (400m ²)			
P5090-05 Mediterranean Blue chlorinated water package with 5 pool lights	5x WV15 NanoPower 60 Watt Mediterranean Blue (V1503090) including 5 metre cable per lamp 1x 320 Watt driver in housing (V0069)	5x 	
P5095-05 Bright White chlorinated water package with 5 pool lights	5x WV15 NanoPower 60 Watt Bright White (V1503095) including 5 metre cable per lamp 1x 320 Watt driver in housing (V0069)	1x 	
P5089-10 Mediterranean Blue chlorinated water package with 10 pool lights	10x WV15 NanoPower 30 Watt Mediterranean Blue (V1503089) including 5 metre cable per lamp 1x 320 Watt driver in housing (V0069)	10x 	
P5094-10 Bright White chlorinated water package with 10 pool lights	10x WV15 NanoPower 30 Watt Bright White (V1503094) including 5 metre cable per lamp 1x 320 Watt driver in housing (V0069)	1x 	
Swimming pool 25 metres by 21 metres (525m ²)			
P5090-07 Mediterranean Blue chlorinated water package with 7 pool lights	7x WV15 NanoPower 60 Watt Mediterranean Blue (V1503090) including 5 metre cable per lamp 2x 320 Watt driver in housing (V0069)	7x 	
P5095-07 Bright White chlorinated water package with 7 pool lights	7x WV15 NanoPower 60 Watt Bright White (V1503095) including 5 metre cable per lamp 2x 320 Watt driver in housing (V0069)	2x 	
P5089-14 Mediterranean Blue chlorinated water package with 14 pool lights	14x WV15 NanoPower 30 Watt Mediterranean Blue (V1503089) including 5 metre cable per lamp 2x 320 Watt driver in housing (V0069)	14x 	
P5094-14 Bright White chlorinated water package with 14 pool lights	14x WV15 NanoPower 30 Watt Bright White (V1503094) including 5 metre cable per lamp 2x 320 Watt driver in housing (V0069)	2x 	

Self-assembly? It's easy:

We have put together the part list below for ordering WV NanoPower lamps. You just need to make the following choices:

- Water type: chlorinated water or salt water/seawater
- Enclosure¹: rounded edge or flat
- Cable length: 5 metres as standard. Can be increased in increments of 5 metres

Parts list WV15 NanoPower - Series 2022

Description	Wattage	Part nr.
WV15 NanoPower Mediterranean Blue	30 W	V1505089
	60 W	V1505090
	80 W	V505091
WV15 NanoPower Mediterranean Blue for stainless steel pools	60 W	V1505107
	80 W	V1505108
WV15 NanoPower Bright White	40 W	V1505094
	60 W	V1505095
	80 W	V1505096
WV15 NanoPower Bright White for stainless steel pools	30 W	V1505102
	60 W	V1505103
	80 W	V1505104
WV15 NanoPower Spring White	30 W	V1505099
	60 W	V1505100
	80 W	V1505101

(1) Enclosure

The WV15 Kelvin lamps are available with a rounded edge (see picture on the next page) or flat. The use of a flat lamp is advisable in pools with a movable floor or where there are rapids, etc.

Prefer a different colour? Or would you like changing colours? No problem; the WV15 Color series offers other options.

Visit our website to see our best NanoPower projects!

Parts list WV15 accessories

Part nr. chlorinated water	Part nr. salt water	Description
V0059	V0120	Stainless steel flush-mounting box with narrow flange
V0106	V0132	Stainless steel flush-mounting box with broad flange
V0052		Flange ring for flush-mounting (in tiles)
V0015	V0018	Stainless steel mounting bracket
V0152		Plastic mounting ring for mounting without box
V0141		2-pole welded injection-moulded parts for quick mounting to existing cables
V0142		6-pole welded injection-moulded parts for quick mounting to existing cables
V0005		80 Watt LED driver in 24V (DC) housing
V0069		320 Watt LED driver in 24V (DC) housing
V0128		590 Watt LED driver in 24V (DC) housing



Stainless steel flush-mounting box with narrow flange
Part nr. V0059 and V0120
Size: Ø228 x 45mm x 12mm



Stainless steel flush-mounting box with broad flange
Part nr. V0106 and V0132
Size: Ø228 x 45mm x 50mm



Flange ring for flush-mounting
Part nr. V0052
Size: Ø279 x 24mm



Plastic mounting ring for mounting without box
Part nr. V0152
Size: Ø340 x 25mm



Stainless steel mounting bracket
Part nr. V0015 and V0018
Size: 178 x 20 x 88mm



Welded injection-moulded parts
Part nr. V0141 and V0142



80 Watt LED driver in 24V (DC) housing
Part nr. V0005
Size: 254(h) x 180(w) x 62(d)mm



320 Watt LED driver in 24V (DC) housing
Part nr. V0069
Size: 400(h) x 200(w) x 80(d)mm



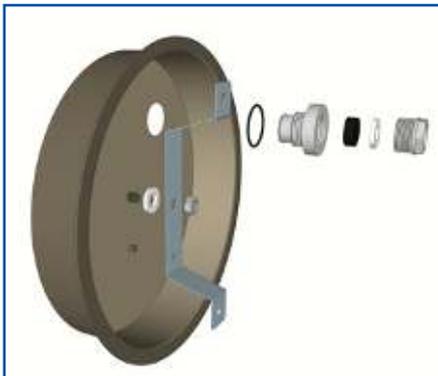
590 Watt LED driver in 24V (DC) housing
Part nr. V0128
Size: 400(h)x300(w)x155(d)mm

Easy to install

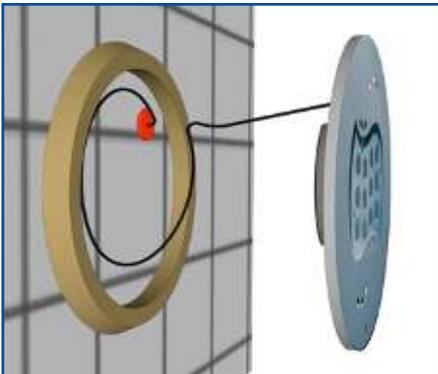
The WV15 NanoPower® underwater floodlight can be installed easily and quickly, and has the following properties:

- Fits on almost all commonly used boxes.
- Can be flush-mounted to the wall.
- Can be mounted with or without a mounting box.
- Can be mounted on the bottom and walls of the swimming pool.
- No active components needed around the perimeter of the pool.
- All connected parts have clamp connectors to enable quick mounting.
- Fully protected against installation errors, such as short circuits, accidentally swapping the positive and negative poles, damaging the cable, etc.

Wall mounting with flush-mounting box



Wall mounting with mounting ring



Dimensions WV15



Dimensions WV15 flat



Technical specifications

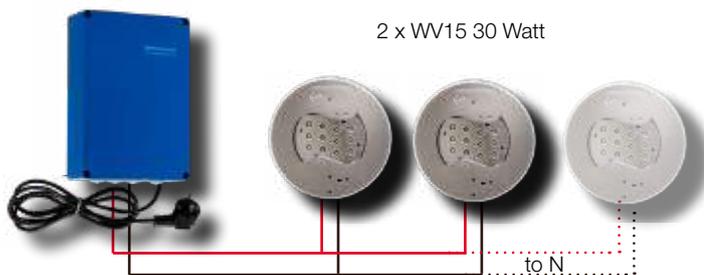
Part	Value
Operating voltage	24V (DC)
LED driver	Integrated in the lamp housing
Output	30W, 60W, 80W
Light output	NanoPower®-principle
Application	Swimming pools
Lighting colours	Bright White, Spring White, Mediterranean Blue,
Ambient temperature (C)	-20° to +42° (standard).
Safety features	Multiple safety features protect against overheating, voltage peaks and electromagnetic effects. Impact- and vibration-proof.
Cable	5 m (standard), 10, 15, 20 and 25 m x 2x1 mm ² . Cable cover Ø7 mm.
Material	Chlorinated water: stainless steel 316L / 1.4404 Salt water: stainless steel 904L / 1.4539 with wear- and impact-resistant acrylate light window
Optics	- Multimirror® wide angle clear - Multimirror® frosted

Part	Value
Housing	- Standard - Flat
Protection class	IP68; hermetically sealed, water seal at cable inlet.
Dimensions	Ø 265 mm x 24 mm
Dimmable	Optional
Safety class	III
Warranty	2 years
Conformity	CE
Country of origin	Netherlands



Installation diagrams

24V / 80 Watt driverto N Watt



24V / 320 Watt driverto N Watt





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