WV15 NanoPower®
LED underwater floodlights - Series 2024

WaterVision
MORE LIGHT   LESS ENERGY

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

NanoPower®

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

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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:

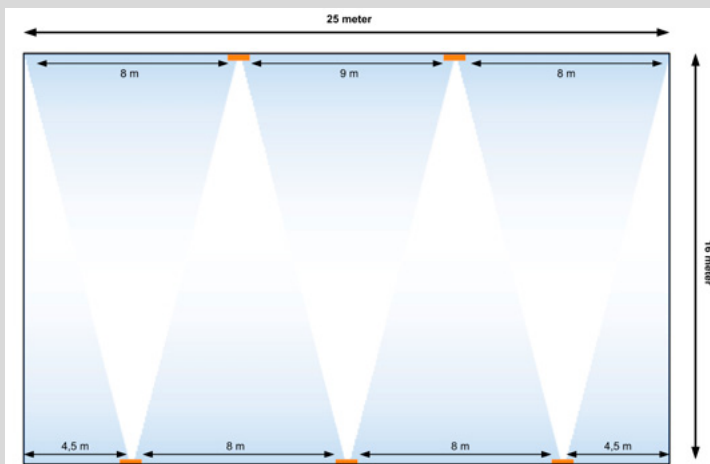| NanoPower® colours	Race pools	Recreation pools	Instruction pools	Outside pools	Divepools	Whirlpools
Mediterranean Blue	✓✓✓	✓✓✓	✓✓✓	✓✓✓	✓✓✓	✓✓✓
Bright White	✓✓✓	✓	✓✓	✓	✓✓✓	✓
Spring White	✗	✗	✗	✓✓✓	✗	✗

Where is NanoPower used?
NanoPower comes into its own when the light has to run through the water over greater distances (>7m). Generally in pools larger than 100m2. With NanoPower, as a rule, the opposite swimming pool wall is illuminated. As a result, the pool is also evenly lit in the middle. For smaller pools we recommend the WV15 Kelvin series pool light.
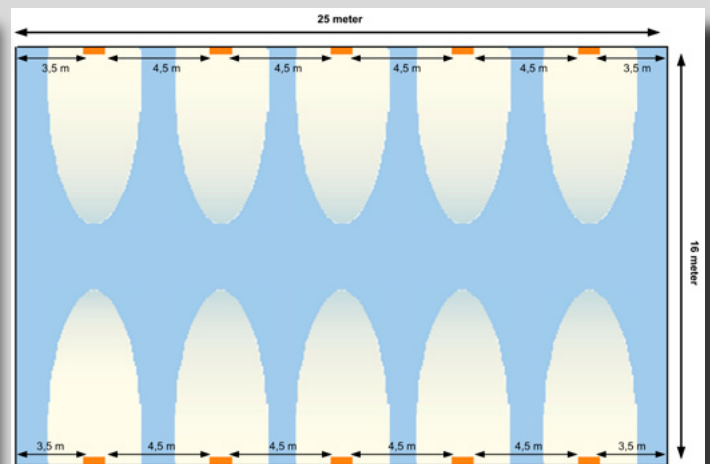
Durable and robust
The timeless and distinctive design of the WV15 luminaires has not changed since 2004 and is therefore a proven product. All WaterVision LED engines up to 200 Watt fit in the same housing. The fixture is not a wearing part and with reuse you also contribute to saving the environment.

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.

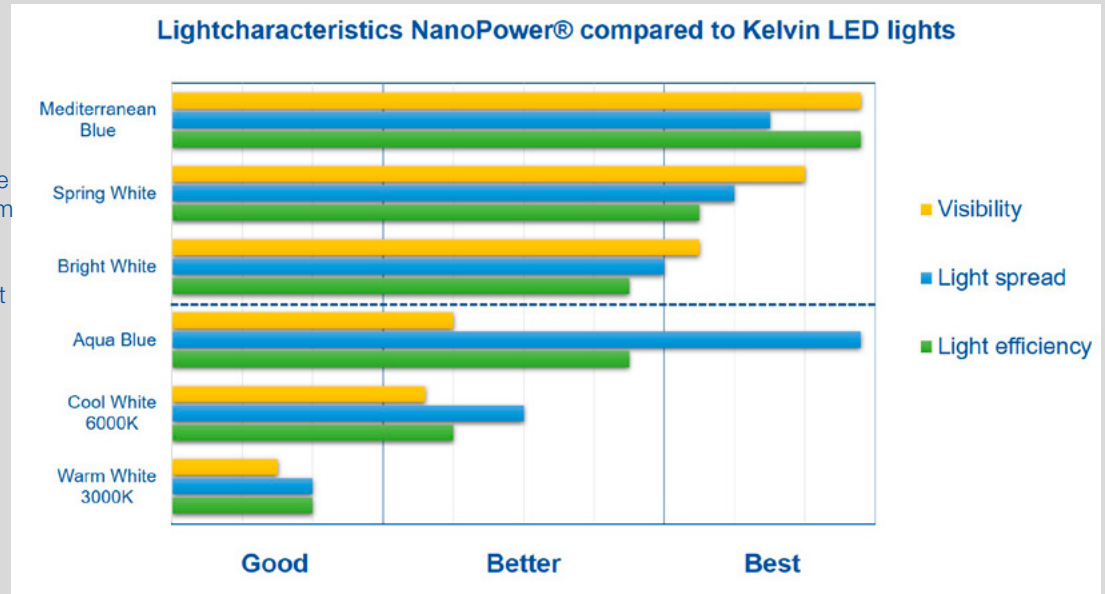5x WaterVision NanoPower LED Bright White 60 watt

10x WaterVision Kelvin white 3000K LED lights 60 watt

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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.

Lightcharacteristics NanoPower® compared to Kelvin LED lights

"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.

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The One-Click-Pool-Light-Planner
WaterVision has developed an advanced tool that shows exactly how many underwater lights are required for your specific pool. This takes into account the size of the swimming pool and the material of which the swimming pool is made.

With just one simple click you will find the right advice. The placement of the lamps, the installation schedule and the specifications texts are visualized.

[Download the One-Click-Pool-Light-Planner]

Article list WV15 NanoPower - Series 2024

Description	Wattage	Part nr.
WV15 NanoPower Mediterranean Blue	30 W	V1507089
	60 W	V1507090
	80 W	V506091
WV15 NanoPower Mediterranan Blue for stainless steel pools	60 W	V1507107
	80 W	V1507108
WV15 NanoPower Bright White	40 W	V1507094
	60 W	V1507095
	80 W	V1507096
WV15 NanoPower Bright White for stainless steel pools	30 W	V1507102
	60 W	V1507103
	80 W	V1507104
WV15 NanoPower Spring White	30 W	V1507099
	60 W	V1507100
	80 W	V1507101

(*)
The WV15 NanoPower® lamps are available with a flat (2mm) rim, a 13mm rim and a 26mm rim. The flat fixture is recommended in swimming pools with a movable bottom, or in rapids, etc. The 26mm fixture is ideally suited for swimming pools without a built-in pot. The lamp is then mounted directly on the pool wall. All fittings are available for both chlorine and salt water.

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Parts list WV15 accessories

Part nr.	Description
V0059	Recessed housing Ø250mm x 45mm with 12mm flange for stainless steel pools
V0106	Recessed housing Ø338mm x 45mm, with 50mm flange for concrete pools
V0168	Recessed housing Ø254mm x 50mm with flange set for liner or prefab pool
V0052	Plastic tile ring for 13mm WV15 fixture
V0191	Plastic tile ring for 2mm WV15 fixture
V0015	Stainless steel mounting bracket
V0141	2-pole welded injection-moulded parts for quick mounting to existing cables (only when cables cannot be replaced)
V0142	6-pole welded injection-moulded parts for quick mounting to existing cables (only when cables cannot be replaced)
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

Recessed housing for stainless steel pools
Part nr. V0059 and V0120
Size: Ø228 x 45mm x 12mm

Recessed housing for concrete pools
Part nr. V0106 and V0132
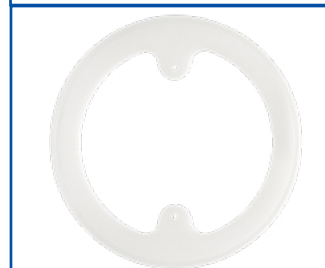Size: Ø228 x 45mm x 50mm

Recessed houding for liner and prefab pools
Part nr.: V0168
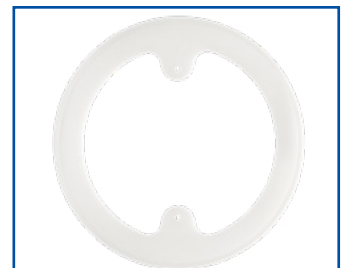Size: Ø254mm x 50mm.

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

Welded injection-moulded parts
Part nr. V0141 and V0142

Plastic tile ring for 13mm WV15
Part nr. V0052
Size: Ø279 x 24mm

Plastic tile ring for 2mm WV15
Part nr. V0191
Size: Ø280 x 10mm

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
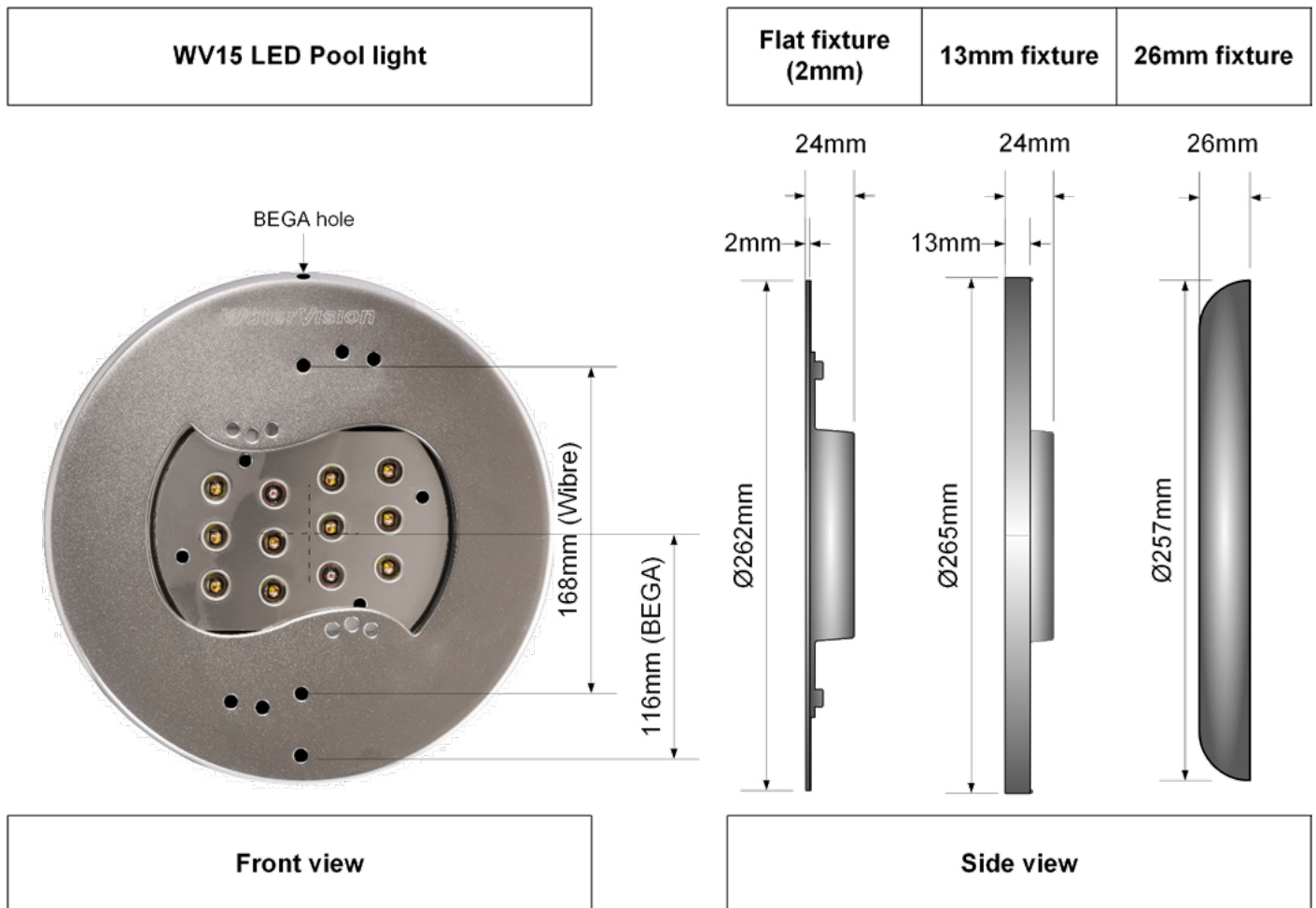Part nr. V0069
Size: 400(h) x 200(w) x 80(d)mm

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

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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.

WV15 - three different fixtures

WV15 LED Pool light

BEGA hole

168mm (Wibre)
116mm (BEGA)

Front view

Flat fixture (2mm)	13mm fixture	26mm fixture
24mm	24mm	26mm
2mm	13mm	
Ø262mm	Ø265mm	Ø257mm

Side view

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Technical specifications

Part	Value
Operating voltage	24V (DC)
LED driver	Integrated in the lamp housing
Output	20W, 30W, 40W, 60W, 80W, 120W
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 mm2. Cable coverØ7 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	1. fixture with 2mm rim 2. fixture with 13mm rim 3. fixture with 26mm rim
Protection class	IP68; hermetically sealed, water seal at cable inlet.
Dimensions	2mm rim: Ø262 mm x 24 mm 13mm rim: Ø265 mm x 24 mm 26mm rim: Ø257 mm x 26 mm
Dimmable	Optional
Safety class	III
Warranty	2 years
Conformity	CE
Country of origin	Netherlands

CE | EU-PRODUCT MADE IN NL | III | IP68 | 24Vdc | 5m

Installation diagrams

24V / 80 Watt driver ....to N Watt

2 x WV15 30 Watt

to N

24V / 320 Watt driver ....to N Watt

4 x WV15 80 Watt

to N

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