



# LED Underwater – reliable landscape lighting for harmonious city living

## LED Underwater BCP170/171

People want to create a pleasant atmosphere around their property – something that will catch visitors' attention, make them feel good and want to come back again. They want to be able to create an appealing ambience at minimum cost, though without compromising on the quality of the lighting. Combining a robust, simple design with reliable performance, LED Underwater delivers a variety of attractive lighting effects to bring property landscapes to life. Fully IP68 to a depth of 3 meters, it offers a choice of beams and tones of white light for precision illumination of water features. A dedicated bracket ensures easy surface mounting.

### Benefits

- High reliability
- Wide choice of lighting effects
- Easy installation

### Features

- High-quality Luxeon Rebel LEDs and copper housing
- Lifetime over 25,000 hours (70% lumen maintenance) @ Ta=35 °C
- Robust design – IP68 protection for 3 m depth underwater and IK07 impact resistance
- Choice of beam angle (12 and 36°) and color temperature (warm white 3000 K and neutral white 4000 K)
- Compatible DMX control for RGB version

# LED Underwater BCP170/171

## Application

- Underwater application in:
- Parks and gardens
- Squares and plazas
- Residential areas

## Specifications

|  |   |
|--|---|
| <b>Type</b>                              | BCP170  |
| <b>Light source</b>                      | Integral LED-module   |
| <b>Power</b>                             | 18 W  |
| <b>Beam angle</b>                        | 12 or 36°   |
| <b>Luminous flux</b>                     | BCP170 LED400: > 370 lm<br>BCP170 LED600: > 550 lm              |
| <b>Luminaire efficacy</b>                | BCP170 LED400: 21 lm/W<br>BCP170 LED600: WW-38 lm/W, NW-44 lm/W |
| <b>Correlated Color</b>                  | 3000 or 4000 K, RGB   |
| <b>Temperature</b>                       |   |
| <b>Color Rendering Index</b>             | WW: 85, NW: 70 (mono white)                                     |
| <b>Maintenance of lumen output - L70</b> | 25,000 hours at 35°C  |
| <b>Operating temperature range</b>       | -20°C < T   |
| <b>Driver</b>                            | Built-in (self ballasted LED-module)                            |
| <b>Mains voltage</b>                     | 12 V DC   |
| <b>Dimming</b>                           | No  |

|                              |   |
|------------------------------|---|
| <b>Controls system input</b> | BCP170 LED400 (RGB) will be compatible with DMX512 controllers  |
| <b>Optical element</b>       | Acrylic lens  |
| <b>Optical cover</b>         | Glass, tempered   |
| <b>Material</b>              | Housing: copper<br>Optical: acrylic lens<br>Cover: tempered glass<br>Gasket: silicone rubber, heat-resistant<br>Bracket: stainless        |
| <b>Color</b>                 | Housing: Black nickle   |
| <b>Connection</b>            | Push in connector in 4 poles (BCP170 LED400) or 2 poles (BCP170 LED600) which core area > 1.5 mm  |
| <b>Maintenance</b>           | No internal cleaning required   |
| <b>Installation</b>          | Surface mounted, ground floor or wall<br>Operating temperature: - 20°C < T<br>Max 3 m depth underwater<br>Adjustable tilt angle: 0 to 90° |
| <b>Cable gland</b>           | 1 x M20   |

## Versions



# LED Underwater BCP170/171

## Application Conditions

|                   |              |
|-------------------|--------------|
| Maximum dim level | Programmable |
|-------------------|--------------|

## Approval and Application

|                              |      |
|------------------------------|------|
| Mech. impact protection code | IK07 |
|------------------------------|------|

## Controls and Dimming

|          |     |
|----------|-----|
| Dimmable | Yes |
|----------|-----|

## General Information

|                          |   |
|--------------------------|---|
| CE mark                  | CE mark                                     |
| Optical cover/lens type  | Tempered glass                              |
| Driver included          | No  |
| Flammability mark        | For mounting on normally flammable surfaces |
| Lamp family code         | LED-HP                                      |
| Light source replaceable | No  |

## General Information

| Order Code   | Full Product Name             | Luminaire light beam spread | Light source color |
|--------------|-------------------------------|-----------------------------|--------------------|
| 911401602102 | BCP170 9LED NW 12V 36 IP68    | 36°                         | 740 neutral white  |
| 911401602202 | BCP170 9LED WW 12V 36 IP68    | 36°                         | 830 warm white     |
| 911401602302 | BCP170 9LED RGB 12V 12 IP68   | 12°                         | RGB                |
| 911401602402 | BCP170 9LED NW 12V 12 IP68    | 12°                         | 740 neutral white  |
| 911401602502 | BCP170 9LED WW 12V 12 IP68    | 12°                         | 830 warm white     |
| 911401602602 | BCP170 9LED RGB 12V 36 IP68   | 36°                         | RGB                |
| 911401619902 | BCP170 9LED WW 12V 12 IP68 C  | 12°                         | 830 warm white     |
| 911401620002 | BCP170 9LED WW 12V 36 IP68 C  | 36°                         | 830 warm white     |
| 911401620102 | BCP170 9LED NW 12V 12 IP68 C  | 12°                         | 740 neutral white  |
| 911401620202 | BCP170 9LED NW 12V 36 IP68 C  | 36°                         | 740 neutral white  |
| 911401620302 | BCP170 9LED RGB 12V 12 IP68 C | 12°                         | RGB                |
| 911401620402 | BCP170 9LED RGB 12V 36 IP68 C | 36°                         | RGB                |

## Initial Performance (IEC Compliant)

| Order Code   | Full Product Name           | Init. Corr. Color Temperature | Init. Color     |                       |
|--------------|-----------------------------|-------------------------------|-----------------|-----------------------|
|              |                             |                               | Rendering Index | Initial luminous flux |
| 911401602102 | BCP170 9LED NW 12V 36 IP68  | 4000 K                        | >70             | 870 lm                |
| 911401602202 | BCP170 9LED WW 12V 36 IP68  | 3000 K                        | >80             | 790 lm                |
| 911401602302 | BCP170 9LED RGB 12V 12 IP68 | -                             | Not applicable  | 370 lm                |
| 911401602402 | BCP170 9LED NW 12V 12 IP68  | 4000 K                        | >70             | 790 lm                |
| 911401602502 | BCP170 9LED WW 12V 12 IP68  | 3000 K                        | >80             | 700 lm                |
| 911401602602 | BCP170 9LED RGB 12V 36 IP68 | -                             | Not applicable  | 370 lm                |

| Order Code   | Full Product Name             | Init. Corr. Color Temperature | Init. Color     |                       |
|--------------|-------------------------------|-------------------------------|-----------------|-----------------------|
|              |                               |                               | Rendering Index | Initial luminous flux |
| 911401619902 | BCP170 9LED WW 12V 12 IP68 C  | 3000 K                        | >80             | 700 lm                |
| 911401620002 | BCP170 9LED WW 12V 36 IP68 C  | 3000 K                        | >80             | 790 lm                |
| 911401620102 | BCP170 9LED NW 12V 12 IP68 C  | 4000 K                        | >70             | 790 lm                |
| 911401620202 | BCP170 9LED NW 12V 36 IP68 C  | 4000 K                        | >70             | 870 lm                |
| 911401620302 | BCP170 9LED RGB 12V 12 IP68 C | -                             | Not applicable  | 370 lm                |
| 911401620402 | BCP170 9LED RGB 12V 36 IP68 C | -                             | Not applicable  | 370 lm                |

## Mechanical and Housing

| Order Code   | Full Product Name           | Color            |
|--------------|-----------------------------|------------------|
| 911401602102 | BCP170 9LED NW 12V 36 IP68  | Silver and black |
| 911401602202 | BCP170 9LED WW 12V 36 IP68  | Silver and black |
| 911401602302 | BCP170 9LED RGB 12V 12 IP68 | Silver and black |
| 911401602402 | BCP170 9LED NW 12V 12 IP68  | Silver and black |
| 911401602502 | BCP170 9LED WW 12V 12 IP68  | Silver and black |
| 911401602602 | BCP170 9LED RGB 12V 36 IP68 | Silver and black |

| Order Code   | Full Product Name             | Color         |
|--------------|-------------------------------|---------------|
| 911401619902 | BCP170 9LED WW 12V 12 IP68 C  | Copper-bronze |
| 911401620002 | BCP170 9LED WW 12V 36 IP68 C  | Copper-bronze |
| 911401620102 | BCP170 9LED NW 12V 12 IP68 C  | Copper-bronze |
| 911401620202 | BCP170 9LED NW 12V 36 IP68 C  | Copper-bronze |
| 911401620302 | BCP170 9LED RGB 12V 12 IP68 C | Copper-bronze |
| 911401620402 | BCP170 9LED RGB 12V 36 IP68 C | Copper-bronze |

