DATA SHEET

PX 278

PxAqua 3
Wide

Product description

PxAqua 3 Wide LED lamp is designed for underwater lighting.
Moreover, it can be used to illuminate the interior and architectural details.

The lamp uses three high-performance LEDs LUXEON ® Rebel power of 1 W each, what ensures its excellent lighting performance. It can be equipped with the optics of different beam angles - 10°, 25° and 45°. Additionally, the lamp can be fitted with LEDs of other colors from the conventional RGB. The lamp operates at 350 mA current power supply, but optionally in underwater applications it can run power 700 mA, and then get more lighting power (approx. 3x3W).

To control the lamp you need to use e.g. PX172 LED driver. In such case it allows simultaneous connection of up to 12 PX278 lamps. Moreover you need to remember that different LED drivers can control only specified maximal number of LED lamps in according to power supply and other technical parameters. The PX278 is designated mostly for underwater applications as well as indoor or outdoor applications.

Technical data

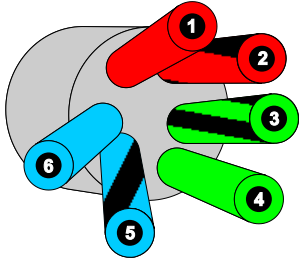|	
Type	PX 278
Power supply	for RGB version: 3 x 350 mA (or 3x700 mA - underwater ver.) for monochrome version: 1 x 350 mA (or 1x700 mA - underwater version)
IP Rating	IP68
Beam angles	25° (typical) 10° / 45° (on a request)
Brightness (for 25° lens in 1 meter dist.)	aprox. 1000 lux (white LED color)
The number of possible colors	16 milions (theoretically for RGB lamp)
Dimensions:	Diameter: 74 mm Height: 29 mm Height with cable gland: 44 mm

Wire connection

Sample example connection wire for RGB or monochrome lamp:

The cables should be connected in the correct order of colors. Full red wire goes to terminal R + red with black stripe to terminal R -.

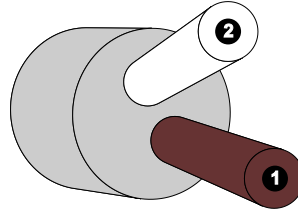Analogously green (terminal G) and blue wire (terminal B).

LEDs should be connected only in series. Number of LED lamps depends on the driver and power supply.

For RGB lamp

1. RED + (red)
2. RED - (red with black stripe)
3. GREEN - (green with black stripe)
4. GREEN + (green)
5. BLUE - (blue with black stripe)
6. BLUE + (blue)

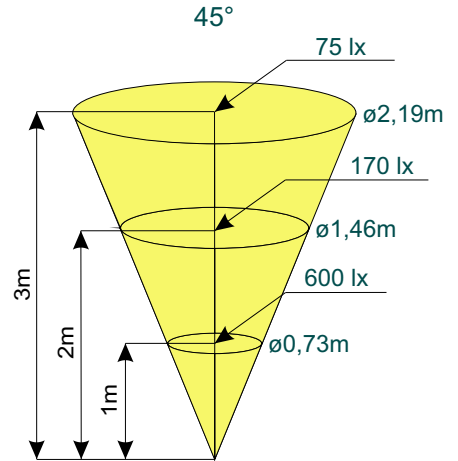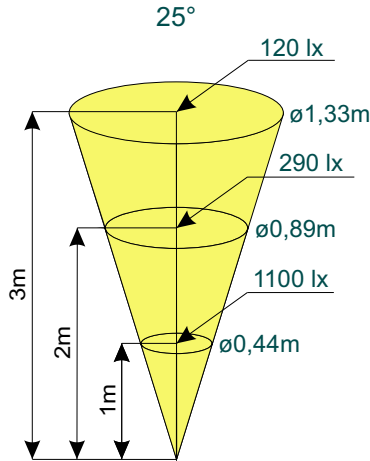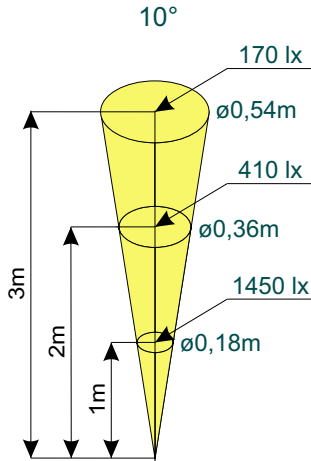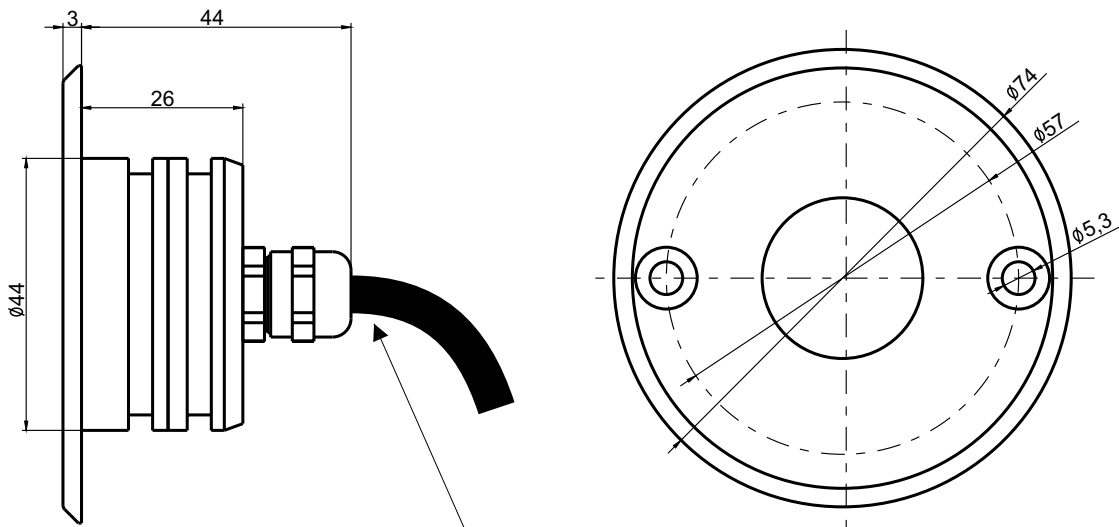**For monochrome lamp**

1. + (brown)
2. − (white)

Light distribution for 700mA power supply - white warm LEDs (WWW):

Beam angle

10°

- 170 lx — ø0,54m
- 410 lx — ø0,36m
- 1450 lx — ø0,18m
- 3m / 2m / 1m

25°

- 120 lx — ø1,33m
- 290 lx — ø0,89m
- 1100 lx — ø0,44m
- 3m / 2m / 1m

45°

- 75 lx — ø2,19m
- 170 lx — ø1,46m
- 600 lx — ø0,73m
- 3m / 2m / 1m

Technical drawing

3 | 44 | 26 | ø44 | ø74 | ø57 | ø5,3

Note!!!

When preparing the hole for mounting the lamp you need to leave enough space for cable gland (it goes out from back part of lamp casing)