Technical Reference / System Guide

This information sheet details the current nominal performance parameters of the Aqualux LED range. This information is subject to change at any time based on our desire to continually improve product performance. Please check our website for the latest version of this guide.

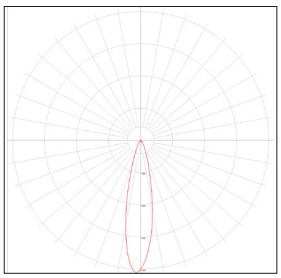
	Lumen Output (lm)[1]	Wattage (W) [1]	Input Voltage [3]	LED Chipsets
X01	50	1	11 ~ 28V AC / DC	CREE XP-C/XP-E/XB-D
X03	120	2.5	11 ~ 28V AC / DC	CREE XT-E / XR-C
X06	220	3	11 ~ 28V AC / DC	CREE XB-D / MX-6
X12	320	4.5	11 ~ 28V AC / DC	CREE MK-R / MC-E / XB-D
D12	50 ~ 320[2]	4.5	24V AC / DC	CREE MK-R

1. Nominal values given for lumen output and wattages will vary based on the particular optical configuration (lens or diffuser choice), LED colour temperature and input voltage.
2. The maximum & minimum output of the dimmable driver will vary based on the exact dimmer selected & power source used. 0% dimming is not currently possible.
3. Check specific luminaire specification before completing system design.

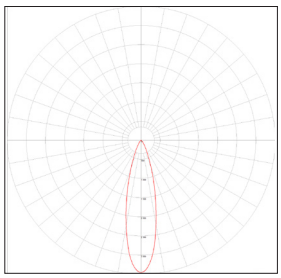
Optical

Aqualux fittings can generally be configured with a choice of optical lenses. The images and photometric charts below show the difference between the standard choices. In some products a diffuse or frosted option is available - this delivers a much broader, non-focussed light.

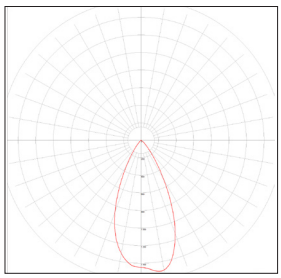
X12 Narrow



X12 Medium



X12 Wide



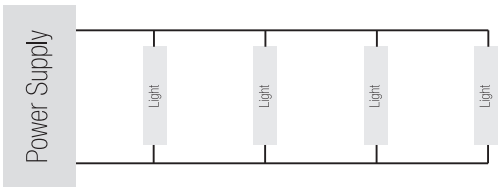
Power Supply

Aquatran AQO SELV

All Aqualux LED fittings are designed to be used with the Aquatran AQO SELV power supply. This is a standard magnetic step-down transformer and provides superior reliability over the long-term.

Parallel Wiring

All Aqualux LED luminaires are designed to be wired in parallel. This is the most common electrical wiring approach used for standard residential & commercial installations.



In AC circuits there is no polarity.
If using a DC supply with Aqualux fittings, polarity does not apply as our driver will automatically correct..

24V AC : Ideal System Voltage

> Aqualux luminaires can be used with the appropriate power supply on any voltage within the range specifed in the above table.
> 24V is the preferred voltage for voltage drop and LED supply reasons. If you can choose, choose 24V AC.
> 12V system compatibility is provided for mixed system, LED / halogen applications.

Aqualux Lighting
1300-662-644
www.aqualux.com.au