

Amora Series

for OEM Illumination



Work side by side with our team of experts and benefit from CoolLED's world renowned OEM technology.

Your partner

Long-term success starts with understanding your needs early, so the first step is to determine:

- Your technical requirement and whether it aligns with what CoolLED is able to offer.
- Commercial requirements.
- Project timescales.

Once we make a commitment, we deliver on all levels. This is demonstrated by our consistently positive customer feedback and metrics such as our on-time delivery record of 99%.

Solution development

After presenting you with a solution outline in terms of performance, likely costs and timeline, we then undergo solution development.

- Paper-based evaluation can be misleading. Drawing from our off-the-shelf product range allows us to quickly prototype and test this initial proposal to establish baselines around performance such as irradiance and control speeds.
- We will work with you to tweak and tune the solution, so it aligns with your feedback.

This ensures we are working with you at every stage when it comes to your requirements, and therefore working towards the same goals.

Long-term success

Progressing into a successful long-term collaboration involves agreeing additional factors such as delivery volumes and compliance requirements. CoolLED is known for its market-leading support and warranty, and all solutions include:

- Three years fully comprehensive warranty.
- Swap out of faulty units rather than repair in first year.
- Support/warranty management via our ISO 9001:2015 validated support team.

As technology advances, we can also address future evolution of the custom light source in line with your product lifecycles.



Access the latest LED illumination technology to give your instrument the edge

CoolLED's OEM technology is centred on the Amora Series: our proven off-the-shelf product range adapted to offer unparalleled customisation opportunities. This provides you with an efficient and low-risk solution, while also addressing the specific needs of your application.

SPECTRAL COVERAGE

Spectral coverage

Whether you need to excite a defined fluorophore set or illuminate between a broad range, we've got you covered:

- The choice of LEDs is increasing all the time, currently covering from 340 – 850 nm
- Choose from two to eight discrete LED channels
- Range of filter options for maximum compatibility, from no filters to inline excitation filters supplied by CoolLED or by you

LIGHT DELIVERY

Light delivery

Interfacing the light source to your instrument depends on optimising mechanical coupling and optical configuration, and we offer several options:

- Industry-standard liquid light guide
- Direct fit involving opto-mechanical adaptors for a cost-effective increase in irradiance
- Ask us about other options such as fibre bundles

CONTROL & CONNECTIVITY

Control and connectivity

LED illumination is renowned for the range of sophisticated control options available, and we will aim to achieve your exact requirements based around:

- Simple on/off per channel
- Global (white light) level on/off
- Individual and global irradiance control options

This could be achieved through USB (Windows, GUI and serial command language), TTL for high-speed switching (0-5 V <20 μ s), or Analogue for high-speed switching and irradiance control (0-10 V, 0-50 kHz). Breakout cables are also available to interface to your system.

PERFORMANCE CRITERIA

Performance criteria

CoolLED illumination technology offers powerful, homogenous illumination with a range of repeatable control options. We will develop a solution to match performance with your system requirements, such as:

- Irradiance (mW/mm²) at the sample plane as a measure of light output
- Homogeneity
- Stability of high-speed switching

COMPLIANCE & CERTIFICATION

Compliance and certification

Design and manufacture are performed to the highest standards in line with ISO 9001:2015 certification. We have many years of experience in providing Illumination Systems meeting a range of compliance and certification needs, such as:

- Supplying customers who manufacture FDA-approved instruments
- Complying with directives and standards (CE, LVD, EMC etc.)

For more information on how CoolLED products can help you, contact us now:

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