



# Grow with Forge

Whatever the horticulture application,  
we'll manufacture your ideal LED lighting solution

# Custom LED solutions

## UTILISE LED TECHNOLOGY AND MAXIMISE YOUR YIELD

LED technology can be utilised to efficiently deliver artificial lighting that stimulates plant growth, nurtures development and maximises yield. As your manufacturing partner of choice, Forge go beyond LED

selection and population. With a carefully considered thermal, electronic and optic design, you'll walk away with exactly what you want.

## WHY CUSTOM LED?

With complete design flexibility, you can improve efficiencies, save money and get light exactly where you want it. What's more, you'll benefit from superior lifetime performance and you can incorporate your brand into the solution for greater impact.

- exceed  $\mu\text{mol}/\text{J}$  targets
- your branding
- improve lifetime

## WHY FORGE?

With over 25 years of knowledge and expertise, we bring you impressive LED solutions manufactured to the highest quality. We'll work with you to create the perfect solution for your application. Whether you need a custom optic that directs light to the

photosynthetically active region (PAR), a specific wavelength for maximum light absorption or simply a more efficient system, we'll manufacture your ideal solution.

- innovative design
- superior quality
- excellent service

We consider all the elements - PCB, LED, thermals and optics - as a complete solution to manufacture your ideal LED horticulture product. With access to a global LED portfolio, we can select the ideal LED with specific wavelengths within PAR for optimum growth. Combined with our knowledge and capabilities in the design and manufacturing of optics, the solution becomes more efficient and can even exceed your  $\mu\text{mol}/\text{J}$  targets.



Increased yield with consistent quality all year round. LEDs are ideal for interlighting, top lighting and multilayer cultivation.



Custom optic - designed specifically for your application giving you more efficient use of light.



We offer custom LED solutions at surprisingly good value. Save money with long-life, reliable solutions.



Support and enhance your corporate brand and style. We'll add your brand to your lighting products.



# The expertise you need

## LED SELECTION

With access to a global LED portfolio, we can select the ideal LED for your application. We consider:-

- Optimum growth
- Wavelength  $\mu\text{mol}/\text{nm}$
- $\mu\text{mol}/\text{J}$  efficiency target
- Cost targets

## TESTING

We'll test to make sure that the final manufactured solution meets your required targets, giving you the confidence of compliance ahead of industry-specific certification\*

\*not UKAS accredited

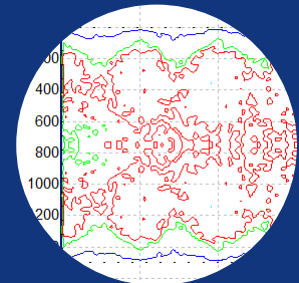
## CUSTOM OPTIC DESIGN

- Light focused entirely on the growing area
- PPFD targets achieved
- Greater efficiencies
- Streamline production
- Choice of materials - glass, silicone, metalised PMMA



optimum  
growth

$\mu\text{mol}/\text{nm}$



achieve  
PPFD  
targets

Call us today to discuss your application and get your hands on your own custom LED solution.



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