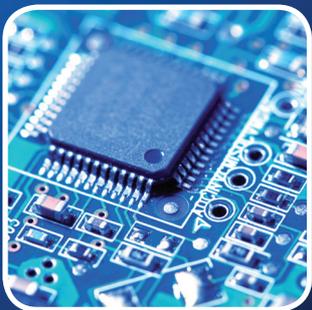


# Machine Vision Lighting



# Machine Vision Lighting

If you need a machine vision system that maximizes throughput and performs consistently, your lighting is critical. The optimum illumination will:

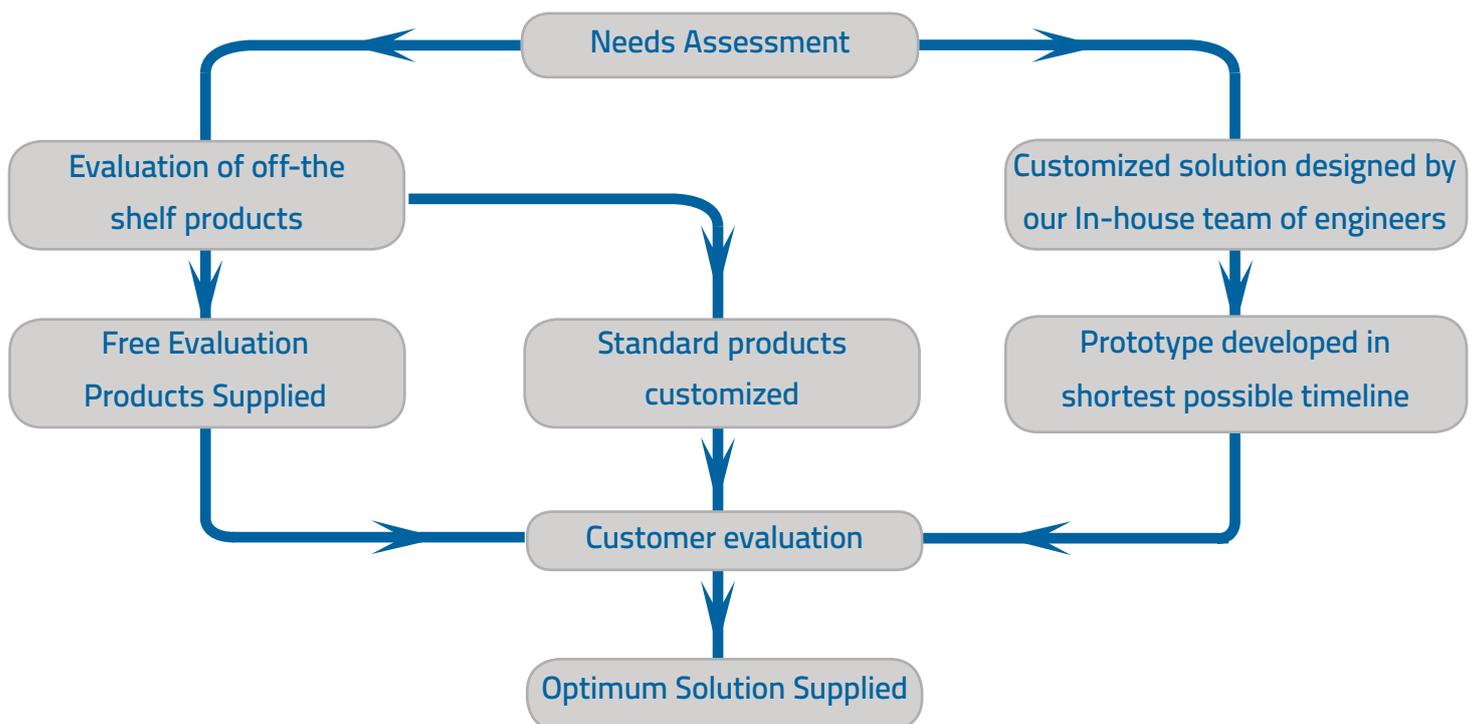
- Improve image quality
- Increase throughput
- Deliver consistent performance over time

With more than 20 years of experience developing machine vision lighting for a wide range of applications, ProPhotonix has the expertise to deliver the optimum solution for your vision system.

## A Unique Approach To Machine Vision Lighting

Our unique approach to machine vision lighting starts with a needs assessment from one of our expert Applications Engineers. They will work with you to identify the best solution for your specific lighting needs, providing free evaluation products and supporting you in selecting the optimum solution from our range of market leading LED and laser products. If customization of off-the shelf products or a complete turnkey custom solution is necessary, we will design and manufacture a lighting solution tailored to your application needs.

This approach ensures that you receive the most cost-effective solution in the shortest possible timeline.



If you have a **challenging lighting application** and would like to **talk to our experts**, contact us at [sales@prophotonix.com](mailto:sales@prophotonix.com)

# LIGHTING SOLUTIONS



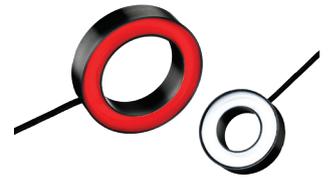
**SPECBRIGHT  
LED SPOTLIGHTS**



**SPECBRIGHT  
LED LINELIGHTS**



**SPECBRIGHT  
LED AREALIGHTS**



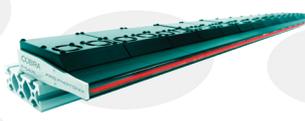
**SPECBRIGHT  
LED RINGLIGHTS**

- Extremely bright & compact
- Chip-on-board technology
- UV, visible, and near-IR

- Superior uniformity
- Seamless integration and mounting
- Continuous wave or pulsed mode



**COBRA SLIM™**



**COBRA MAX™**



**LOTUS™**



**LOTUS  
WATER-COOLED™**

- Intensity: Now up to 2900 kLux
- Design: Slim and compact
- Field adjustable: focusing distance and diffusers
- Chip-On-Board: Extreme brightness and high uniformity
- Modular: available in any length
- Wavelengths: from UV to Visible and IR

- Robust, compact design with intensity control
- Intensity: Now up to 570 kLux
- 5 year lifetime
- Water-Cooled option available offering up to 570 kLux
- Available in any length up to 5 meters
- Available in a range of wavelengths



**3D PRO LASER™**



**3D PRO VARIABLE  
FOCUS LASER**



**3D PRO LASER™  
MINI**

- Compact, cylindrical form factor for easy mounting
- Excellent uniformity
- Line width of 30µm at 120mm
- Available options include: wavelengths, power levels, fan angles, intensity control & modulation

- Compact, cylindrical form factor for easy mounting
- Excellent uniformity
- Line width of 30µm at 120mm
- User adjustable focus for increased flexibility
- Available options include: wavelengths, power levels, fan angles, intensity control & modulation

- Compact, 10mm diameter cylindrical housing
- Lightweight
- Wavelengths from 405nm to 830nm
- Excellent uniformity
- Line width of 30µm at 120mm
- Available options include: power levels, fan angles, diffractive options, CW & TTL Modulation

## ProPhotonix Solutions

All of our solutions are designed to deliver high intensity and excellent uniformity providing maximum image quality and, ultimately, deliver maximum throughput. Ease of integration, optimized optics, high quality electronics and superior thermal management are central to our design process so that you can be certain that your system will perform quickly, reliably and consistently.

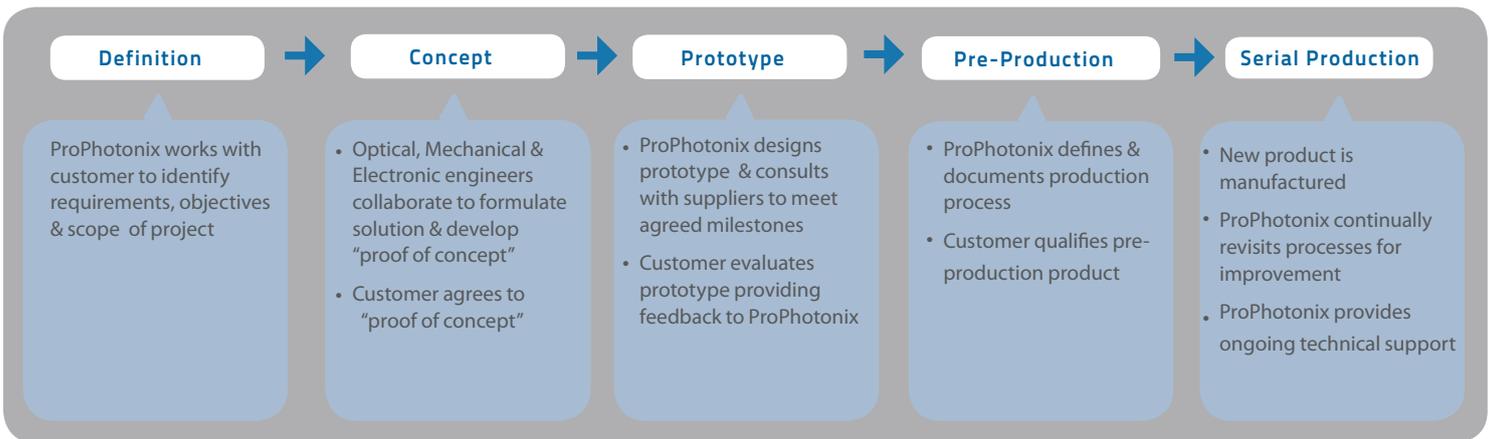
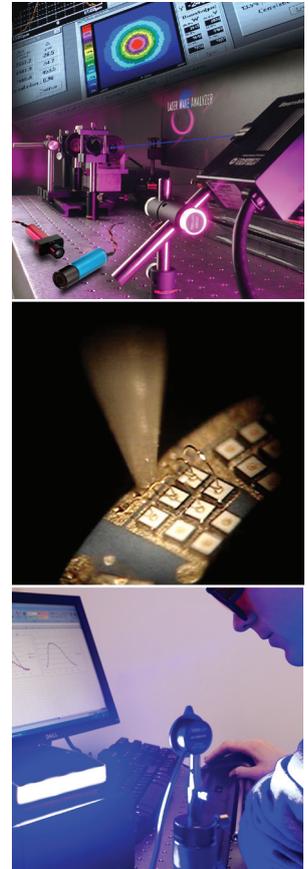
# Custom Solutions and Systems

Today's challenging applications often demand very detailed and exacting requirements that may not be available from off-the-shelf solutions. For over 20 years ProPhotonix has worked closely with customers to design LED and Laser solutions for their specific application needs. Our goal is to deliver the most precise, efficient and cost effective product for your application. We put all our resources and experience at your disposal to help you meet your targets.

At ProPhotonix our design process starts with the customer requirements. We recognize the importance of understanding every aspect of a customer's specification and our engineers collaborate directly with our customer to ensure that the correct specification is developed.

Once we agree on a full specification, ProPhotonix leverages the expertise of our in-house optical, electronic, thermal, mechanical and software engineers to develop a product concept for your approval. By working closely with our supply chain partners, we ensure prompt delivery of quality prototypes.

One of our key strengths at ProPhotonix is our ability to design and manufacture turnkey solutions. Our ISO certified production facilities offer the flexibility to produce highly complex products in both low and high volume for our global customers. Our processes and procedures ensure that we consistently deliver on time, every time.



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