

## PLANONLIGHT LED

Ready for duty in  
the toughest industrial and  
system environments.

[www.restlessmachines.com](http://www.restlessmachines.com)



**hagnleone**  
LIGHTING



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*DMG MORI and other machine manufacturers have been relying for years on **the quality of PLANONLIGHT LED.***

Hagnleone has supplied approximately 30 million LEDs in PLANONLIGHT luminaires now in use with machine tool producers.

# PLANONLIGHT LED.

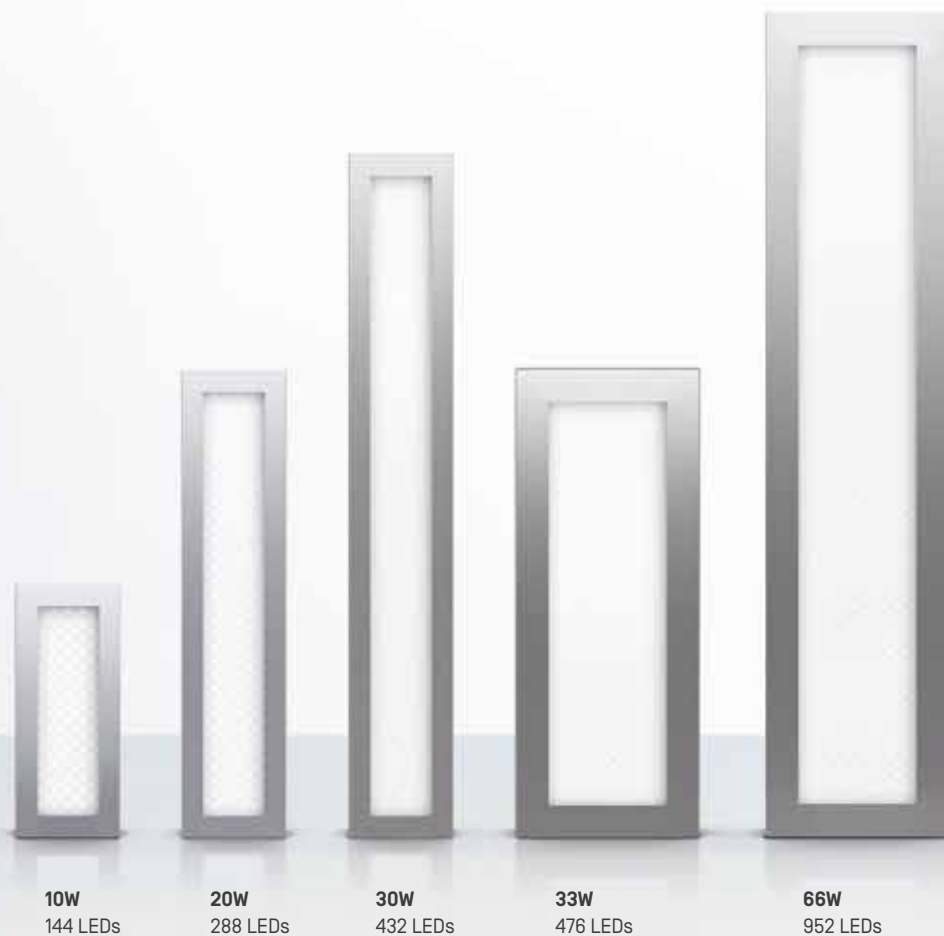
Offering the highest level of function, versatility and aesthetics.

**Giving you more flexibility and independence**, because they are temperature-independent and space-saving.

**Helping our environment** through energy-saving, lead- and mercury-free LED light sources.

**Guaranteeing you safety and quality** with shadow-free and dazzle-free, high-contrast daylight quality.

**Reducing your costs** with a 24 volt connector, since no additional mains adaptor is required. Perfect, therefore, for use in machines.



## PLANONLIGHT LED:

<b>10W</b>	<b>Item no. 20290</b> / [L x W x H] 241 x 97 x 28 mm
<b>10W/F</b>	<b>Item no. 10399</b> / [L x W x H] 272 x 132 x 28 mm
<b>20W</b>	<b>Item no. 20291</b> / [L x W x H] 441 x 97 x 28 mm
<b>20W/F</b>	<b>Item no. 10400</b> / [L x W x H] 472 x 132 x 28 mm
<b>30W</b>	<b>Item no. 20292</b> / [L x W x H] 641 x 97 x 28 mm
<b>30W/F</b>	<b>Item no. 10401</b> / [L x W x H] 672 x 132 x 28 mm

<b>33W</b>	<b>Item no. 20293</b> / [L x W x H] 421 x 171 x 28 mm
<b>33W/F</b>	<b>Item no. 10402</b> / [L x W x H] 451 x 205 x 28 mm
<b>66W</b>	<b>Item no. 20294</b> / [L x W x H] 771 x 171 x 28 mm
<b>66W/F</b>	<b>Item no. 10403</b> / [L x W x H] 801 x 205 x 28 mm

# The conditions are tough.

## The light precise – PLANONLIGHT LED.

**The new PLANONLIGHT LED delivers reliable service wherever precision light is needed under the toughest conditions.** Ambient temperatures around this attractive looking 24 Volt Industrial luminaire can fluctuate between -20 °C and + 55 °C. It is also fully sealed off against lubri-

cant oils and emulsions. A very shallow installed height of 28 mm makes it enormously efficient on space. Low surface temperatures prevent emulsions from baking in, and flat light surfaces make for easy cleaning.

### FOR THE TOUGHEST CONDITIONS:

- 100 % oil-proof (protection class IP68 + IP69k)
- Resistant to numerous different lubricants
- Ambient temperatures from -20 °C to +55 °C

### EASY TO CLEAN:

- Low surface temperatures
- Emulsions do not bake in
- Extended, powerful luminosity

### HIGH LUMINOSITY – DAYLIGHT QUALITY:

- Glare- and shadow-free with up to 952 LEDs per luminaire
- Free of intrusive stroboscopic effects
- High-contrast visibility (light colour 6500 K)

### AVAILABLE IN SPECIAL VERSIONS:

- Built-in and surface-mounted versions
- Inside spot for focussing light
- Customised versions

### ABSOLUTELY MAINTENANCE-FREE:

- Tested to UL and IEC standards
- 100,000 units installed in the field

### WHEREVER IT MATTERS:



Completely sealed off against oil and emulsion.



Insensitive to temperature.



Inside spot focusses and amplifies part of the luminaire's light.

# Requirements differ – as do our products

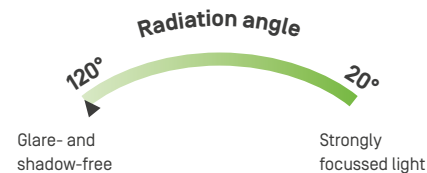
The **PLANONLIGHT LED series offer particularly bright LED illumination, flat surfaces, a high level of imperviousness (IP69k), shallow installation heights and a very long lifespan.** Hagnleone offers three Planonlight series

with varying strengths of focussed light in order to fulfil customer requirements relating to dazzle levels, while providing very powerful lighting.

## PLANONLIGHT LED:

The original PLANONLIGHT LED series. Glare- and shadow-free on account of a very high number of LEDs. The PLANONLIGHT LED 66W is, for instance, fitted with 952 LEDs. The original PLANONLIGHT LED is also unique in the LED luminaire market in terms of its contrast for use in difficult visibility situations. The original PLANONLIGHT LED has a light colour of approximately 6500 K.

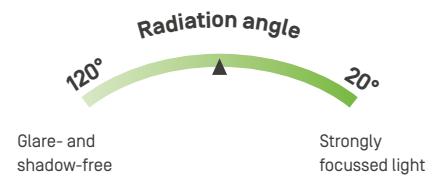
- **Glare- and shadow-free**
- **Very large number of LEDs**
- **Wide angle of light from a flat source**



## PLANONLIGHT LED *eco*:

Our efficient PLANONLIGHT LED eco edition, featuring – as an example – just 48 x 60° Power LEDs in one PLANONLIGHT LED 27W version, is especially suitable for use in machines that do not require dazzle-free or shadow-free light. This very powerful, efficient version of the PLANONLIGHT LED otherwise offers all of the benefits of the familiar standard version.

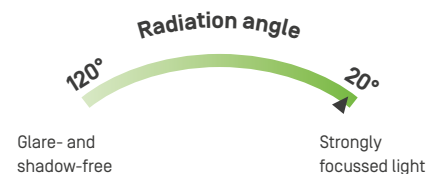
- **High efficiency**
- **Partially glare- and shadow-free**
- **Medium light focussing**



## PLANONLIGHT LED *pro*:

PLANONLIGHT LED pro is suitable for use in machines that have highly specialised requirements in terms of mechanical dimensions and radiation angle. The PLANONLIGHT LED 10W pro has installed dimensions of just 310 x 58 x 37.7 mm combined with very powerful light which is focussed using lenses. It can work wonders in intricate machine settings.

- **For constricted spaces**
- **Extremely small installed dimensions**
- **Highly focussed light**



# Your partner for intelligent LED lighting solutions. For industry and commerce.

What's the use of the best idea if it's never put into practice? That's why part of Hagnleone's special philosophy is not only to find the best solution for each customer's situation,

but also to implement it consistently down to the last detail. Contact us – we will gladly advise you.  
**Hagnleone** – flexible, innovative and diverse.

## SIGNAL LUMINAIRES

Signal luminaires for machines that offer you the maximum level of safety and visibility in your production processes, thanks to their sophisticated LED security. Many customers enjoy their own CI-compliant signal luminaires.

## MACHINE LUMINAIRES – IP68 + IP69K

Designed for extremely tough environments inside machine tools. Proven by the hundreds of thousands and offering unique light quality and a wide range of designs.

## LUMINAIRES FOR WORKPLACES AND SYSTEMS ENGINEERING – IP54

Smoothly dimmable flat luminaires offering daylight quality for industrial use. Lengths according to customer requirements; uninterrupted illuminated surfaces up to 6 metres long.

## CUSTOM INDUSTRIAL SOLUTIONS

Our experience enables us to complete engineering orders involving mechanical and electronic custom solutions in the shortest possible time in collaboration with our customers. Tailor-made, unique, individual, good-looking.

## GENERAL LIGHTING FOR INDUSTRY AND COMMERCE

An energy-efficient, tailor-made range of lights for a variety of uses and exacting conditions in industrial and commercial use, indoors and out. From consulting, to installation.

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LIGHTING