PHILIPS

CRI 90


# It’s time to **show your true colors**

# Step-up to **new building requirements**

Your employees' health and well-being are important, and you of course want to create the best conditions to encourage creativity and optimal output. Lighting plays a big part in that.

We are introducing a new specification for the European portfolio of Philips luminaires for office applications, a phase-over from CRI 80 to CRI 90.


**Why make a shift to CRI 90?**
With office lighting design high on many organizations' agenda, the new CRI 90 luminaires support designing for health and well-being as defined by the WELL Building Standard.

With the introduction of our CRI 90, also the $R_9$ increases to ≥ 50 which meets the color quality requirements from WELL v1 feature 58. Plus, the transition from CRI 80 to CRI 90 does not entail any significant loss of energy efficiency (lumen/Watt) and no reduction of lumen output.

Well-compliant color quality – Efficiency and lumen output

# Two good reasons

## Live up to world-class standards

The WELL Building Standard, launched in 2014, is leading the global movement to transform buildings and communities in ways that help people thrive. It explores how design, operations and behaviors within the places where we live, work, learn and play can be optimized to advance human health and well-being. Lighting is one of the seven concepts in this global rating system.

The new CRI 90 portfolio also meets the additional requirement on red rendering: additionally $R_9 \geq 50$. It is fully compatible with efficient lighting automation with daylight and occupancy sensors (why put the light on when there's no one there?). CRI 90 takes lighting-led well-being to the next level.

### $R_9 \geq 50$ requirement explained

The WELL Building Standard requires that next to the standard set of test color samples as measured via the CRI, an additional red color test sample ($R_9$) is rendered in a good way. $R_9$ represents how red objects are rendered in comparison to the reference light source. User tests have shown that people find the color appearance of reddish objects very important. Red also has a positive impact on skin tones.

## Efficiency and lumen output

Switching to CRI 90 will without a doubt make your office a more pleasant place to work, and support employee well-being. Indeed, this marks a unique achievement in the lighting industry as there is no significant loss of energy efficiency (lumen/Watt), and no reduction of lumen output, when transitioning to CRI 90. Energy efficiency remains same as in the CRI 80 portfolio within ± 3% tolerance. So there's really no reason not to upgrade.

Standard CRI 80

Our CRI 90

## Why does CRI 90 better meet the WELL standard than CRI 80?

Color Quality is one of the features of the ‘Light’ concept within the WELL Building Standard. It indicates: “Color quality impacts visual appeal and can either contribute to or detract from occupant comfort. Poor color quality can reduce visual acuity and the accurate rendering of illuminated objects. For instance, foods, human skin tones and plants may appear dull or unsaturated under lights that have low color quality metrics.”

Our higher CRI 90 spec means colors are rendered more faithfully compared with our CRI 80 products.

Please note:
Printed colors, or those displayed on monitors, may vary from the actual appearance of colors when illuminated.

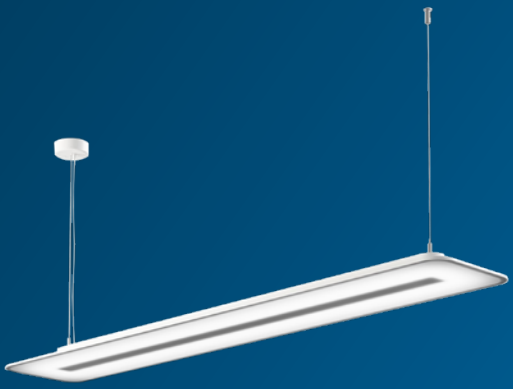
## A bright place to work

Most office lighting today is CRI 80, so the shift to CRI 90 marks a change in lighting quality – and we are implementing this improved CRI across our office portfolio in Europe as the new standard. See the next page for the applicable luminaires.

“**Lighting can be used to create modern, flexible and comfortable working environments** that foster creativity and innovation.”

PowerBalance

FlexBlend



SmartBalance

TrueLevel

TrueLine

LuxSpace*

*CRI 90 available for configuration



www.lighting.philips.com