

PHILIPS

CRI 90



It's time to
**show your
true colours**

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 productivity. Lighting plays a big part in that.

We are introducing a new specification to our state-of-the-art 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 organisations' 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, the R_g also increases to ≥ 50 which meets the colour 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.

Another consideration is the National Construction Code (NCC) which is an Australian performance-based code. It sets the minimum required level for the safety, health, amenity, accessibility and sustainability of buildings.

Section J, Energy Efficiency, Part J6 covers artificial lighting and power energy efficiency provisions. Maximum Illumination Power Density (IPD) allowances are given here, with an Adjustment Factor for Light Colour - CRI 90. The new provisions will apply from May 2020.

Well-compliant colour quality – Efficiency and lumen output

Two good reasons

Build WELL

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 optimised 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 for red rendering: $R_9 \geq 50$. 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 colour samples as measured via the CRI, an additional red colour 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 colour 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 the same as in the CRI 80 portfolio within $\pm 3\%$ 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?

Colour Quality is one of the features of the 'Light' concept within the WELL Building Standard. It indicates: "Colour quality impacts visual appeal and can either contribute to or detract from occupant comfort. Poor colour 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 colour quality metrics."

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

Please note:

Printed colours, or those displayed on monitors, may vary from the actual appearance of colours 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 Pacific office portfolio as the new standard. See the next page for the applicable luminaires.

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



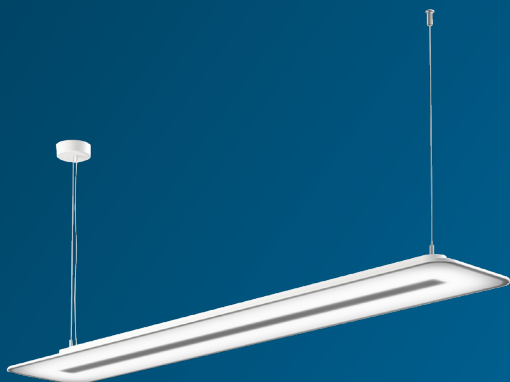
Luminaire ranges including CRI 90 variants.



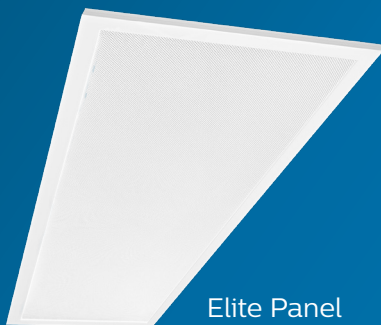
PowerBalance Elite



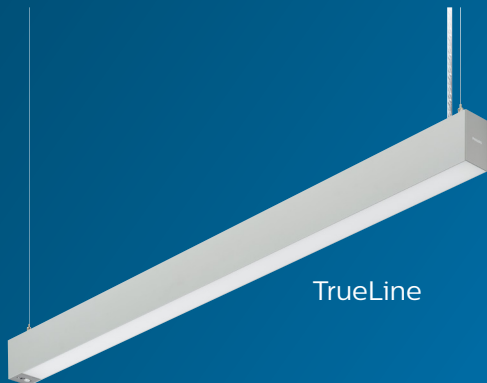
FlexBlend



SmartBalance



Elite Panel



TrueLine



LuxSpace

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