

A woman in a brown dress holding a tablet in a modern office setting with large windows and a computer monitor in the background.

**PHILIPS**

Fortimo

LED modules

Square



Ideal solution for  
**high-performance**  
LED office luminaires

For today, for tomorrow

# Fortimo LED Square systems are ideal for **recessed, surface mounted and suspended office luminaires**

Fortimo LED Square systems comprise white light LED modules with square outer dimensions. They deliver high energy efficiency and high quality of homogeneous light. In combination with the Xitanium drivers, they provide the flexibility to adjust current settings to differentiate in terms of lumen output, efficacy and lifetime. Fortimo LED Square systems are ideal for office applications where the luminaires require a very homogeneous exit surface window. They are suitable for recessed, surface mounted and suspended office luminaires.

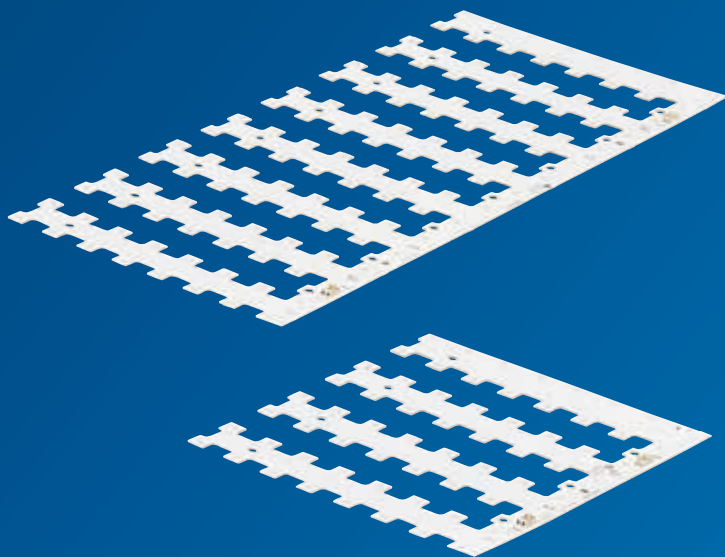


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**Fortimo LED systems offer the freedom to differentiate** on lumen output, efficacy and lifetime”

# Key features and benefits

## Fortimo LED Square modules



LED module efficacy up to 178 lumens per watt

Long lifetime >50,000 hours

High color rendering index (CRI >80 & CRI >90)

Excellent color consistency of 3 SDCM

Choice of 3000, 4000 and 6500 K color temperatures

Two lumen packages: 1250 lm and 2500 lm

Tunable lumen output, efficacy and lifetime

Wide temperature (Tc) range from -40 to +80 °C

Push-in connectors enabling automated wiring

Five-year system warranty

### Fortimo LED Square

The Fortimo LED Square is a high performance solution offering best-in-class efficacy up to 178 lumens per watt. The rectangular Fortimo LED Square 2500 lm (260 x 520 mm) is designed to reduce material and assembly cost for the OEM, compared to the 260 x 250 mm design. Fortimo LED Square 1250 lm is designed for non-standard luminaire shapes. The footprint however is compatible and the LED pitch remains unchanged.







# High quality of white light

## **Good color rendering index**

Color rendering index (CRI) indicates a light source's ability to reveal the colors of objects faithfully in comparison with a natural light source. Philips LED Square modules are specified with a minimum CRI of 80. This CRI is more than adequate for general lighting applications. Fortimo LED Square 1250lm is also available in CRI90. Light sources with a high CRI are recommended color-critical applications, such as in printing industry, hospitals or art galleries.

## **3 SDCM**

Fortimo linear LED systems achieve a 3 in terms of Standard Deviation of Color Matching (SDCM). SDCM relates to color shift and is measured in 'MacAdam Ellipses'.

Many LEDs are at the 4 to 7 step level, where it is possible to perceive differences in color between LEDs that are supposed to have the same color. Most fluorescent tubes also fall into this zone. The lower the number, the better the color quality. Fortimo LED Square's low score of 3 SDCM minimizes differences in color and maintains the right balance between cost and performance.

## **A range of color temperatures**

Fortimo LED Square systems are available in three color temperatures, offering a choice of warm white, neutral white and daylight to cover most applications.

- Warm white (around 3000 K)
- Neutral white (around 4000 K)
- Daylight (around 6500 K)



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**Fortimo LED Square systems are ideal for office applications** where the luminaires require a very homogeneous exit surface window.”

# Complementary system components

## **Xitanium Drivers**

At Philips we believe that the LED module and driver should be designed for each other, making the system even more reliable. Our Philips system warranty ensures that in the event of a failure or malfunction you only have to contact one supplier to resolve the problem. Xitanium window drivers offer the freedom to adjust current settings and to differentiate in terms of lumen output, efficacy and lifetime. The corresponding linear Xitanium driver portfolio includes isolated and non-isolated drivers, in fixed light output, 1-10 V and DALI versions.

## **High voltage versus low voltage**

The Fortimo LED Square portfolio offers a choice of isolated (low-voltage) or non-isolated (high-voltage) systems. With non-isolated LED systems, the luminaire must be a Class I luminaire so that there is no possibility of any accidental contact with the live parts in the system. A non-isolated system has the advantage of being more efficient,

cheaper and the driver has shorter dimensions. An isolated system allows you to make open-louvered Class II luminaires.

## **Compatibility**

It is possible to combine modules in the same luminaire; a system can be made up of a combination of modules. A typical Fortimo LED Square system consists of:

- A number of Fortimo LED modules
- One Xitanium LED driver
- Wires from driver to module, between modules and return end wires.

# The **Easy Design-in Tool**

Create your ideal configuration in minutes. Design the optimal LED system in the fastest, most simple way.

The Easy Design-in Tool is a powerful, time-saving way to speed up the work of those who design or define LED systems. It's a true solution composer and is ideal for all those involved in delivering added-value LED solutions right through the supply chain.

**Check out our tool online!**

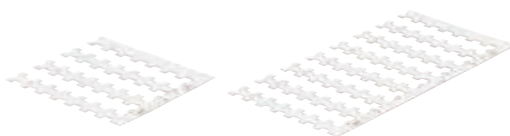
Visit [philips.com/easydesignintool](https://philips.com/easydesignintool)





# Product and ordering information

## Fortimo LED Square



Product name	Order code
	<b>EOC</b>
Fortimo LED Square 1250lm 830 HV/LV2	87186966 73386 00
Fortimo LED Square 1250lm 840 HV/LV2	87186966 73829 00
Fortimo LED Square 1250lm 865 HV/LV2	87186966 73843 00
Fortimo LED Square 1250lm 930 HV/LV2	87186967 08811 00
Fortimo LED Square 1250lm 940 HV/LV2	87186967 08835 00
Fortimo LED Square 2500lm 830 HV/LV2	87186966 73867 00
Fortimo LED Square 2500lm 840 HV/LV2	87186966 73904 00
Fortimo LED Square 2500lm 865 HV/LV2	87186966 73942 00

For more information see datasheet

## Fortimo and Xitanium – **partners in performance**

Luminaire performance is determined by the sum of its component parts, each carefully designed or selected to meet specific application requirements. In addition to the Fortimo LED lighting modules featured here, we also offer an extensive range of Xitanium LED drivers. Pair components from these complementary families and you'll benefit from design-in simplicity, flexibility, compatibility and exceptionally long life. You'll also enjoy the convenience of dealing with just one knowledgeable supplier of these vital luminaire components.



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