

PHILIPS

CertaFlux

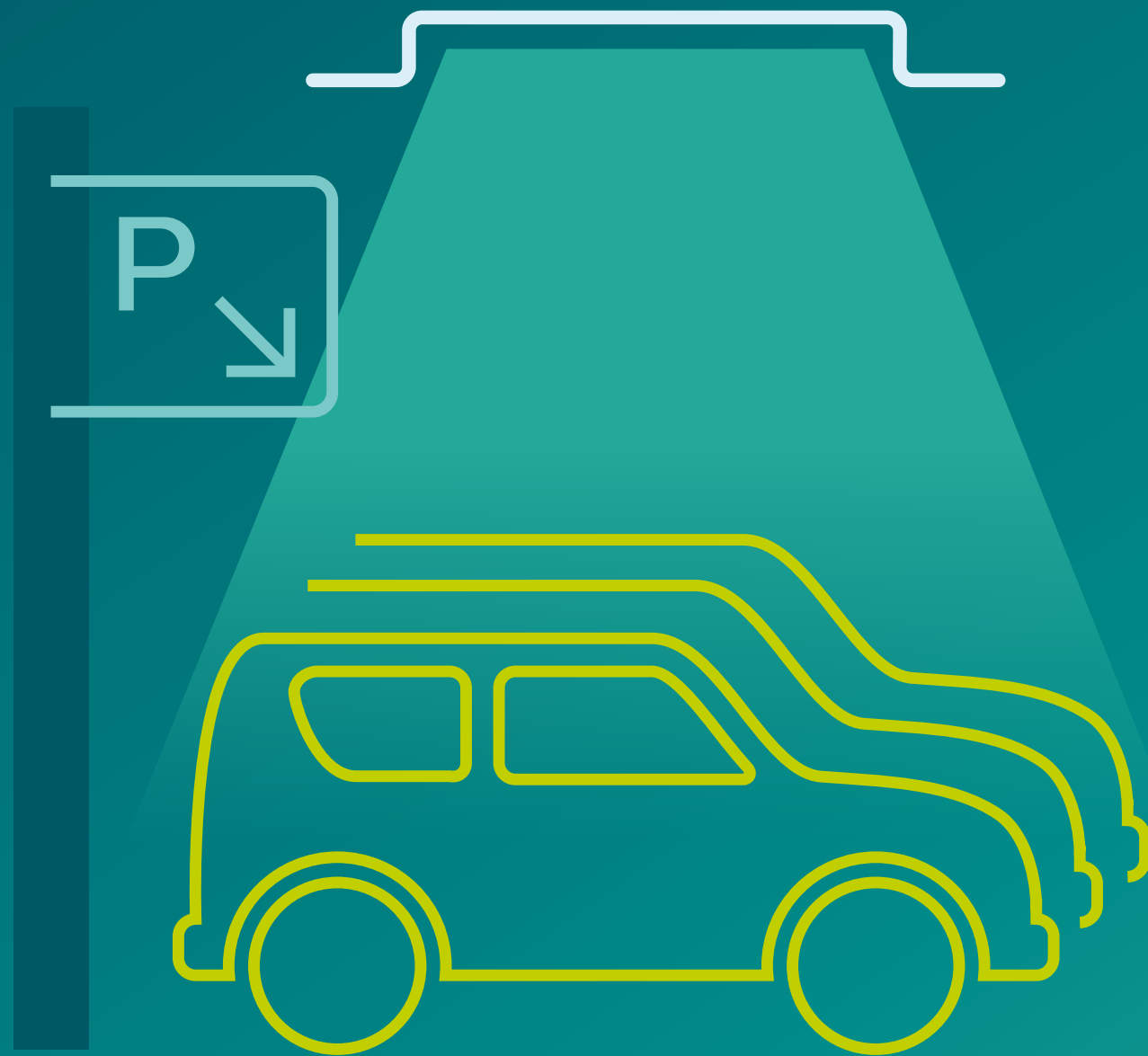
LED Systems

Linear & Area



Sometimes good
can be **great**

CertaFlux LED systems are designed to enable
LED luminaires for high volume markets



The performance of LED lighting has surpassed that of traditional fluorescent solutions and it keeps getting better. While our Fortimo range continually extends the performance boundaries for high-end applications, the CertaFlux range focuses on offering the most cost-efficient solution for indoor LED lighting in general applications.

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Fulfilling the needs of basic lighting requirements.”

Good quality of light

Show true to life colors

Philips CertaFlux LED modules are specified with a minimum Color Rendering Index (CRI) of 80, which is good for general linear lighting applications. The CRI is a measure of a light source's ability to faithfully reproduce colors compared to how a natural light source shows the colors.

Minimizing differences in color

CertaFlux Linear LED systems have a Standard Deviation of Color Matching (SDCM) of 4, thereby minimizing differences in color that are visible to the human eye and maintaining the right balance between cost and performance. SDCM relates to color shift and is measured in 'MacAdam Ellipses'. The lower the number of MacAdam ellipses, the better the color quality.

A choice of color temperatures

CertaFlux LED systems are available in three color temperatures, offering a choice of warm white (around 3000 K), neutral white (around 4000 K) and day light (around 6500 K) to suit most applications. Note that the CertaFlux LLS EaseSelect integrated driver/LED modules have a neutral white color temperature.

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The most cost-efficient solution for linear and area LED lighting.”

Cost effective systems

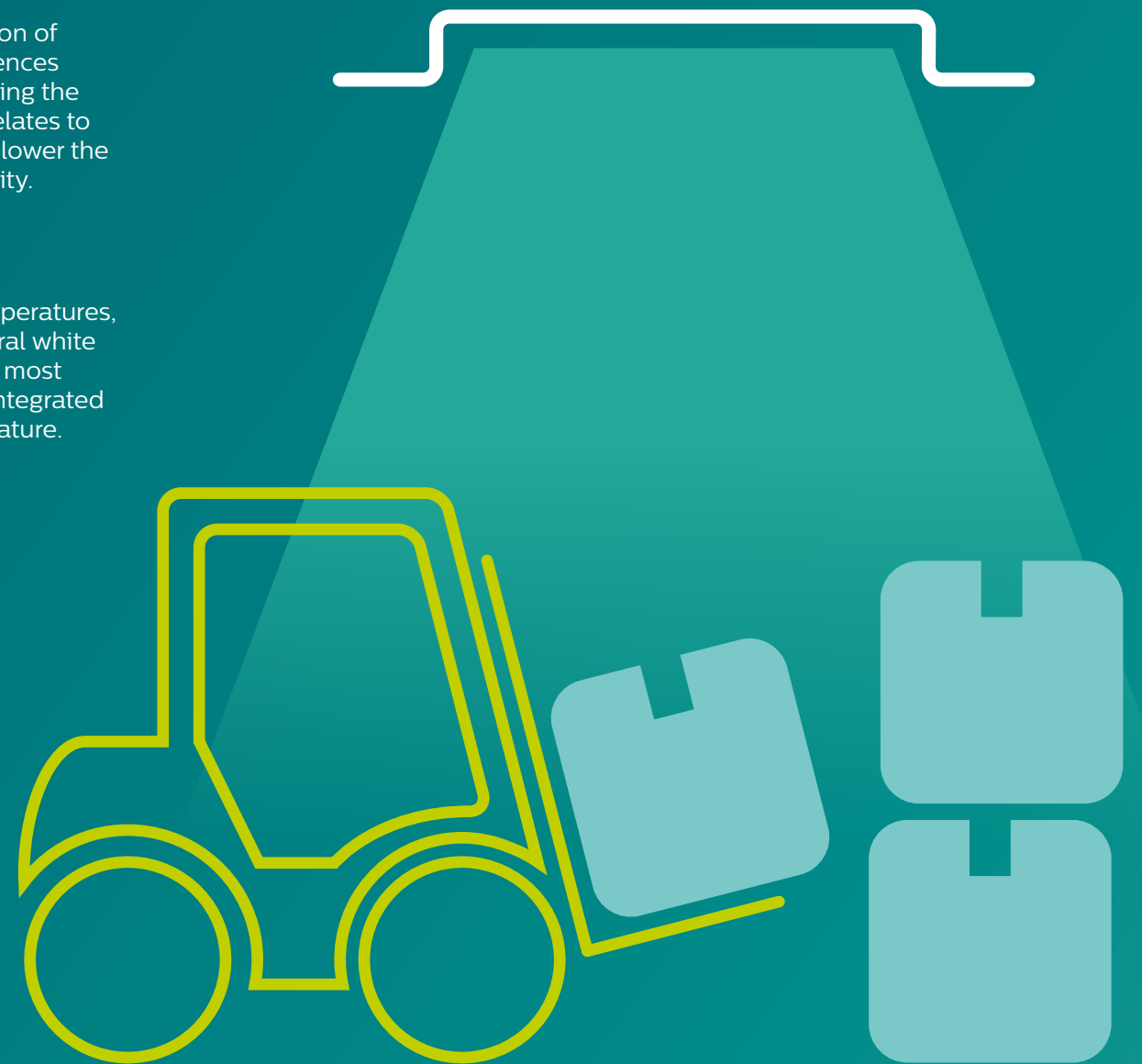
CertaDrive linear LED drivers

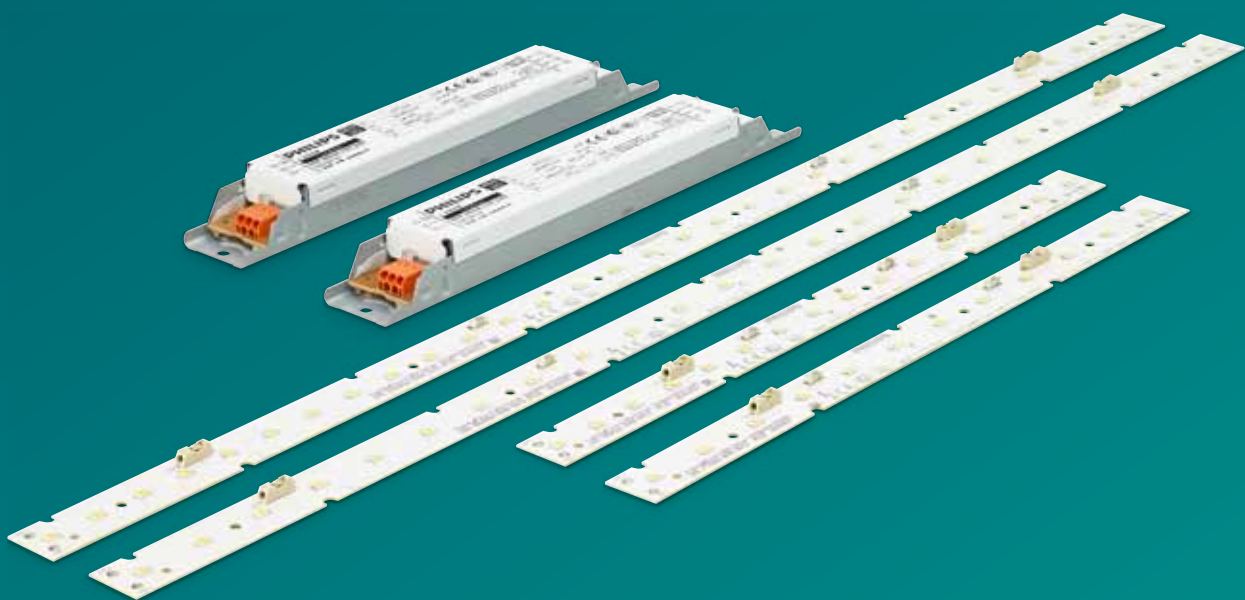
We believe that by designing the LED module and driver to work effectively with each other, the system is very reliable. The non-isolated fixed current CertaDrive linear LED driver portfolio is specifically designed to match the CertaFlux LED modules. The current and voltage of these drivers are optimized to operate with CertaFlux LED systems, and enable lumen packages to be selected for high-volume commodity products.

And if your application requires different settings than usually found in basic applications, our Xitanium non-isolated fixed output window drivers provide an ideal solution.

Two-box and integrated solutions

There are two ranges: a linear and square LED module system that is designed for use with CertaDrive and Xitanium drivers, and the new CertaFlux LLS EaseSelect, which is a linear LED module with an integrated driver. In line with all EaseSelect products, these LLS modules simplify the design and assembly of luminaires and still deliver good light quality with no visible flicker or stroboscopic effects.





“Achieve a luminaire sales price that hits that sweet spot in market pricing.”

CertaFlux LED Strip

CertaFlux LED Strip systems deliver the performance, functionality and quality of light needed to satisfy the requirements of luminaires in basic lighting applications. The range has solution for different types of luminaires, including recessed and surface-mounted luminaires for offices, and trunking and profile luminaires for retail, waterproof and industrial applications. A linear LED system comprises one or more CertaFlux LED Strip module plus a non-isolated fixed current driver.

Product information (HV)

Commercial name	Order code EOC
CertaFlux LED Strip 1ft 775lm 830 HV3	87186967 28055 00
CertaFlux LED Strip 1ft 775lm 840 HV3	87186967 28079 00
CertaFlux LED Strip 1ft 775lm 865 HV3	87186967 28093 00
CertaFlux LED Strip 1ft 1100lm 830 HV3	87186967 28116 00
CertaFlux LED Strip 1ft 1100lm 840 HV3	87186967 28130 00
CertaFlux LED Strip 1ft 1100lm 865 HV3	87186967 28154 00
CertaFlux LED Strip 2ft 1550lm 830 HV3	87186967 28178 00
CertaFlux LED Strip 2ft 1550lm 840 HV3	87186967 28192 00
CertaFlux LED Strip 2ft 1550lm 865 HV3	87186967 28215 00
CertaFlux LED Strip 2ft 2200lm 830 HV3	87186967 28239 00
CertaFlux LED Strip 2ft 2200lm 840 HV3	87186967 28253 00
CertaFlux LED Strip 2ft 2200lm 865 HV3	87186967 28277 00

Non-isolated LED drivers (HV)

Driver type	Commercial name	CertaFlux LED Strip 1ft 775lm	CertaFlux LED Strip 1ft 1100lm	CertaFlux LED Strip 2ft 1550lm	CertaFlux LED Strip 2ft 2200lm	Order code (EOC)
Fixed current	CertaDrive 60W 360mA 170V 230V*	7, 8	5, 6	4	3	87186964 91782 00
	CertaDrive 44W 0.32A 137V 230V	-	4, 5	-	2	8718696 744031 00
	CertaDrive 40W 360mA 110V 230V*	5	4	-	2	87186964 91768 00
	CertaDrive 30W 330mA 82V 230V*	4	3	2	-	87186964 91744 00
	CertaDrive 30W 0.29A 102V 230V	4, 5	-	2	-	8718696 744017 00

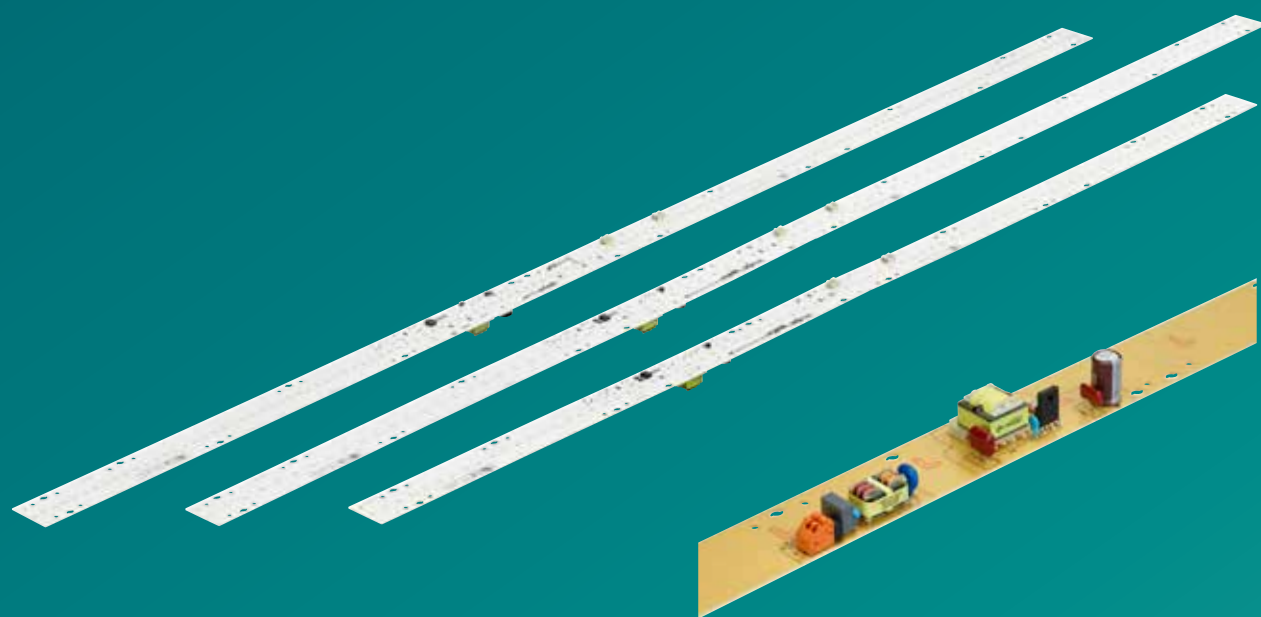
Note: Configurations with drivers marked* will give a slightly higher-than-typical flux. Please consult the online Easy Design-in Tool for all possible system configuration, available via philips.com/technology.

Key features of CertaFlux LED Strip:

- LED module efficiency up to 149 lm/W
- Long life-time: >50,000 hours
- High color rendering (CRI >80)
- Color consistency of 4 SDCM
- Choice of color temperatures (3000 K, 4000 K and 6500 K)
- One-foot (280 mm) and two-foot (560 mm) lengths
- Two lumen packages: 775 lm and 1100 lm per foot
- Small LED module width of only 20 mm
- Wide temperature (Tc) range from -40 °C to +85 °C
- Push-in connectors enabling automated wiring
- Three year system warranty



“Linear LED system with **matching light engines and drivers in one**”



CertaFlux LLS EaseSelect

CertaFlux LLS EaseSelect is Philips' linear driver-on-board solution, light engines and corresponding drivers in one. Having an integrated driver not only simplifies design-in and part exchange, but it also speeds up the overall assembly process. The net results for you as OEM are lower manufacturing costs.

The design is ideal for OEMs with focus on the entry/trade segment of the market, especially for waterproof applications such as car parks, storage rooms and industrial applications. CertaFlux LLS EaseSelect has a light output of 4500lm or 6750lm, 1150mm (2 x 575mm) and 1450mm (2 x 725mm) non-isolated design, with integrated single current driver. The dimensions have been optimized to minimize dark ends in the luminaire.

Product information (HV)

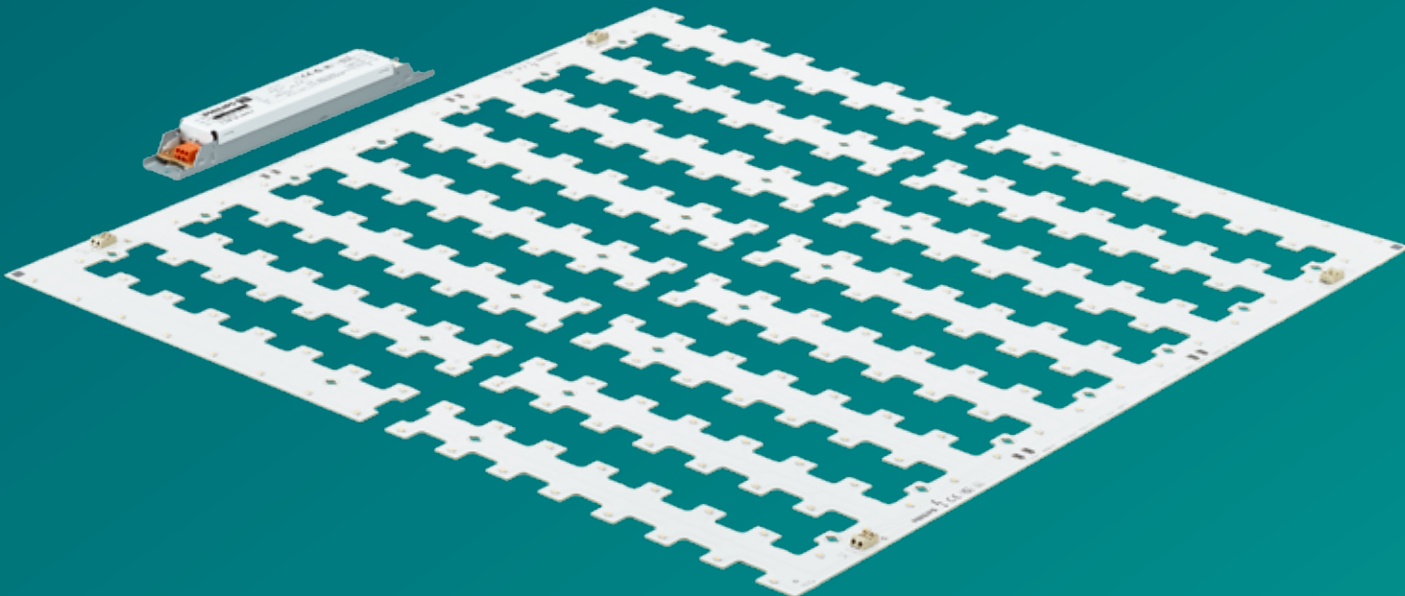
Commercial name	Order code EOC
CertaFlux LLS ES 1150mm 4500lm 840 HV2	871869674739100
CertaFlux LLS ES 1450mm 4500lm 840 HV2	871869674744500
CertaFlux LLS ES 1450mm 6750lm 840 HV2	871869674762900

Key features of CertaFlux LLS EaseSelect:

- 1150 mm and 1450 mm lengths
- LED system efficiency up to 142 lm/W
- Light output 4500 and 6750 lumen
- Life-time >50,000 hours
- Color Rendering Index (CRI) >80
- Color consistency 4 SDCM
- Neutral white color temperatures (4000 K)
- Operating temperature range -40°C to +85°C
- Push-in connectors enabling automated wiring
- Three-year system warranty



“CertaFlux LLS EaseSelect will **enable the lowest integral cost at luminaire level.**”



CertaFlux LED Square

CertaFlux LED Square systems are ideal for office applications where the luminaires require a very homogeneous exit surface window. Typical applications are recessed, surface mounted and suspended office luminaires.

The rectangular square (260 x 520mm) is designed to reduce material and assembly cost for the OEM, compared to the 260 x 250mm design of many other brands. The design of the LED module is backwards compatible and the LED pitch remains unchanged compared to the Fortimo LED Square 2500lm, enabling to have one luminaire design for both the high performance and cost oriented segment.

Product information (HV/LV)

Commercial name	Order code (EOC)
CertaFlux LED Square 2500lm 830 HV/LV1	87186965 95862 00
CertaFlux LED Square 2500lm 840 HV/LV1	87186965 96180 00
CertaFlux LED Square 2500lm 865 HV/LV1	87186965 96241 00

Non-isolated LED drivers (HV)

Driver type	Commercial name	LED Square 2500lm	Order code
		DSQ systems	EOC
Fixed current	CertaDrive 60W 360mA 170V 230V	3	87186964 91782 00
	CertaDrive 40W 360mA 110V 230V	2	87186964 91768 00

Note: Please consult the online Easy Design-in Tool for all possible system configuration, available via philips.com/technology.

Key features and benefits:

- LED module efficiency of up to 149 lm/W
- Long life-time: >50,000 hours
- High color rendering (CRI >80)
- Excellent color consistency of 4 SDCM
- Variation of color temperatures (3000K, 4000K and 6500K)
- Wide operating temperature (Tc) range from -40°C to +80°C
- Push-in connectors enabling automated wiring
- Three year system warranty



“Ideal for office applications where the luminaires require a very homogeneous exit surface window”



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