



**PHILIPS**

OEM LED catalogue

January 2019



# OEM LED

## catalogue 2019







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# Our range

## LED Modules and LED Drivers

Philips has designed these families of Systems and Drivers, each with their features and benefits, to help you in designing luminaires for a variety of application. Get to know these products better with this latest catalogue, and we are certain that they will meet your OEM needs.

### **Fortimo** LED Modules

Fortimo LED Modules bring you maximum performance and compatibility. Engineered to be robust, they are highly reliable and of exceptional light quality. The energy-efficient range of portfolio can cover downlight, spotlight, linear and outdoor LED light engines for use in indoor and outdoor luminaires. Standard local system warranty from Philips applies.

### **Xitanium** LED Drivers

Our popular Xitanium LED Drivers are reliable, robust and offer much needed flexibility through the operating window and its smart features. They are designed and manufactured for indoor and outdoor applications, available in various form factors with fixed light output, dimming and programmable versions. A unique characteristic of the Xitanium LED Drivers is that it actually allows one to carry out late stage programming and drivers configuration, which is very helpful in the production process.

### **CertaFlux** LED Modules

CertaFlux LED Modules offer basic product performance and functionalities, with a quality of light that is good enough to meet the market needs for basic, general lighting. They are designed for luminaires targeted at high volume markets. These LED Modules come complete with standard local system warranty.

### **CertaDrive** LED Drivers

CertaDrive LED Drivers are designed to meet the market needs for basic lighting. These are ideal for high volume manufacturing and design, suitable for applications to be put together along with CertaFlux LED Modules. Offering basic specifications, such as specific current and voltage settings, they are basic but efficient and dependable. Each driver comes with standard local warranty.



# Just released

As with every year, the passionate team at Philips endeavors to bring you a series of new product introductions that are relevant to your design and business needs.

## LED Indoor Modules – Spotlight



### Fortimo SLM Gen7

Fortimo SLM Gen7 continues to focus on the combination of Quality of Light and Energy efficacy and miniaturization in a future proof and backwards compatible portfolio. This results in an extensive portfolio of lumen ranges, CCTs and spectra. In parallel, +8% efficacy is achieved in average Vs Gen 6

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### Fortimo SLM Gen7 Premium Color

With continuous enhancement of quality of light, Fortimo SLM Gen7 Premium Color range brings excellent experiences of shoppers with best displayed merchandise in fashion retail.

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## Retail Display Lighting



### CertaFlux RDL Gen1

Discount and price-fighter retail chains focus on costs. They leverage purchasing power to deliver value, and the customer expects affordable prices and a functional shopping experience. The lighting must support this image, which is where the Philips CertaFlux RDL portfolio comes in. It has established itself as an energy-efficient way to deliver the quality of light this cost-sensitive retail sector is looking for, especially in cooler and shelf applications.

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### Fortimo LEDFlex Gen1 (Coming Soon)

Fortimo LEDFlex gen 1 combined with our premium white spotlighting solutions the InteGrade LED system premium white gen 3 will enable you to create a single look and feel for the whole store, for the ultimate shopping experience.

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## LED Indoor Modules – Spotlight



### CertaFlux SLM Holders

After CertaFlux SLM Gen1 CoB, compatible holders are released. The holders will help to maximum easy design in customers sides. 4 SKUs are included in the family

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## LED Outdoor Modules



### Fortimo FastFlex IP66

Fortimo FastFlex IP66 (FFIP) Modules offering best-in-class energy efficacy are designed to provide a total IP solution perfect for easy design-in in outdoor as well as industry applications

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# Just released

## LED Drivers – Smart Electronics



### Xitanium SR Outdoor 150W/75W IP67 Drivers Xitanium SR Outdoor 150W IP67 Drivers Connector version

With these new SR outdoor drivers you can build connected solutions in outdoor together with our SR Certified outdoor partners that offer city management systems

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### IR Dongle (Accessories)

After launching LV/isolated drivers we have now completed the range of linear SR drivers by introducing a full portfolio of HV/non-isolated linear drivers with SR functionality

See page 109

## LED Drivers – Outdoor Drivers



### Xitanium Lite Programmable 220W/150/100W IP67 drivers Xitanium Lite Programmable 65W IP67 driver

Designed to delivery high-end performance and configurability via SimpleSet, IP67 LED Driver for harsh outdoor application

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## LED Drivers – Smart Electronics



### EasyAir Outdoor Module SNO110

The EasyAir outdoor module offers a simple method to switch on/off the light, regulate the light and enables a very accurate DynaDimmer schedule. Settings can easily be configured by SimpleSet or via the secured Bluetooth connection. The module fits on the new universal SR outdoor connector and enables customers to offer flexible and future proof solutions.

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### Bridgebox and Accessories

The wireless bridge box and accessories communicate with each other by Zigbee protocol which can easily realize the wireless connect system for local and remote control purpose.

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## LED Drivers – Indoor Point Drivers



### Xitanium Track Adaptor Drivers (3 circuits)

Track Adaptor Driver is a great innovation to minimize the track light luminaire in a most reliable and cost effect way.

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### CertaDrive LPF 14W-20W

Extend the low power factor portfolio into 14W to 20W which give customer more flexibility.

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# Just released

## LED Drivers – Indoor Linear Drivers



### Xitanium 30-44W 1-10V Single Current Isolated driver, Independent

Reliable and robust 1-10V dimmable driver, dim down to 5%, with industry leading performance and single current output for optimized cost

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## LED Lamps - Tube



### Essential LEDtube T5

Philips Essential LEDtube T5 helps customers to achieve up to 50% energy savings and significant maintenance cost reduction

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### Sensor LEDtube

Philips sensor LEDtube helps customers to achieve up to 60% energy savings and significant maintenance cost reduction

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## LED Lamps - Spot



### High Lumen MR16

Philips high lumen LED MR16 brings out the true beauty of the merchandise by intense light with small form factor. It provides the right light to emphasize the merchandise and create bright and refreshing shopping environment. Not only its superior light quality, its innovative, trim-less V-groove lens will suit any kind of store interior without creating techy look. It is a hasslefree retrofit solution. It fits most of luminaires to make re-lamping and renovation projects as easy as possible.

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### LED Capsules

Philips LED Capsules create a warm, sparkling and comfortable ambience for hotels, homes and hospitality venues, the new small form factor makes them the ideal retrofit solution for Halogen capsules without having to change your luminaire. Dimmable and non-dimmable models are available for your careful selection to meet various application needs.

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## LED Lamps - Bulb



### Philips LEDstick

Philips LEDstick deliver high quality light in a compact design ideal for downlights and slim luminaire applications, making it ideal for general lighting applications in the retail and hospitality industry by offering their guests a differentiating ambience and unique experience in public area

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# LED Modules

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### Downlight Modules

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CertaFlux DLM EaseSelect Gen1	21
Fortimo DLM Flex Gen2	22
CertaFlux DLM Slim	24
CertaFlux DLM EaseSelect Ceiling Light	26

### Spotlight Modules

Fortimo SLM Gen6 CrispWhite	30
Fortimo SLM Gen6 – Food WarmWhite and Food PremiumRed	32
<b>New!</b> Fortimo SLM Gen7	34
Fortimo SLM Gen7 Premium White	37
Fortimo SLM Gen7 Premium Color	39
Fortimo SLM holders	40
Fortimo SLM EaseSelect Gen1	41
CertaFlux SLM Gen1	42
<b>New!</b> CertaFlux SLM holders	45

### Retail Display Lighting

<b>New!</b> InteGrade LED System Gen3 - Premium White Range	49
<b>New!</b> InteGrade LED System Gen3 -Standard Color Range	52
<b>New!</b> InteGrade LED System High Flux Gen3	58
<b>New!</b> CertaFlux RDL LED System Gen1	60
<b>New!</b> PrimeSet RDL 500/510 LED System Gen1	62
<b>New!</b> PrimeSet LDM524 LED System Gen1	64
<b>Coming Soon!</b> Fortimo LEDFlex Gen1	65

## Linear Modules

Fortimo LED Line Gen4	68
Fortimo LED Line HighFlux Gen3	70
Fortimo LED Strip Gen4 – 0.5ft, 1ft, 2ft	72
Fortimo LED Strip Gen4 – 4ft, 5ft	75
Fortimo LED Square Gen2	80
CertaFlux LED Square	82
CertaFlux LED Strip Gen3	85
<b>Coming Soon!</b> CertaFlux LED Strip Gen4	87

## Outdoor Modules

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## Industrial Modules



























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# LED Modules portfolio

Our range of Philips LED Modules are categorized for you to match your business requirements with ease. Refer to each range description to find out more.

	Downlight Modules	Spotlight Modules	Linear Modules	Outdoor Modules	Industrial Modules
 <b>Statement</b> Connected and programmable		Fortimo SLM Gen6 CrispWhite  1211 1208 1205 1203 1202  Fortimo SLM Gen6 - Food WarmWhite and Food PremiumRed  1211 1208			
 <b>Performance</b> Flexible and future-proof	Fortimo DLM EaseSelect Gen1   Fortimo DLM Flex Gen2   Fortimo DLM EaseSelect Gen2 	Fortimo SLM Gen7 Standard  1216 1211 1208 1205 1203 1202  Fortimo SLM Gen7 PremiumWhite  1216 1211 1208 1205 1203 1202  Fortimo SLM Gen7 Premium Color  1211 1208 1205 1203 1202  Fortimo SLM EaseSelect Gen1 	Fortimo LED Line Gen4   Fortimo LED Line HighFlux Gen3   Fortimo LED Strip Gen4  0.5ft, 1ft, 2ft 4ft, 5ft  Fortimo LED Square Gen2 	Fortimo FastFlex Gen 4   Fortimo FastFlex IP66 	Fortimo High Bay 
 <b>Entry</b> Foundation	Certaflex DLM Slim  4 inch 6 inch 8 inch  Certaflex DLM EaseSelect Ceiling Light 	Certaflex SLM Gen1  1208 1205 1204 1203 1202 1201	Certaflex LED Square   Certaflex LED Strip Gen3 	Certaflex PLM 	Certaflex PLM 



# Downlight Modules

**Perfect downlighting** can be achieved for offices, malls, hospitality and public buildings. Offering light of high quality, minimal glare and a high level of flexibility, our downlight systems can be easily integrated into your designs.





# Fortimo DLM EaseSelect Gen2

Downlight

Fortimo DLM EaseSelect is a high performance driver on board (DoB) solution, delivering an excellent quality of light with low flicker. Having an integrated driver and the same mechanical footprint as existing DLM solutions (DLM Flex), enables easy and hassle free design-in. The Fortimo brand promise brings with it the assurance of quality, reliability and performance. Comparing to Gen1, Fortimo DLM ES Gen2 has improved in Output current ripple (Max 4%).

### Features

- Low flicker (Max 4% for output current Ripple)
- Ease of design – in
- Cost-effective solution
- High system Lm/W of 116 for high end project needs
- Long life-time: 50,000 hours
- Excellent color consistency of 3 SDCM
- Full portfolio with all typical downlight lumen packages (1100 lm, 2000 lm, 3000 lm) and different CCTs (3000K, 4000K)

### Benefits

- Excellent cost-performance
- Suitable for compact heat sink designs
- Long lasting
- Covers all downlight applications and ambiance needs
- Simple and easy to maintain

### Applications

- Offices
- Public buildings
- Retail



Fortimo DLM EaseSelect Gen2

### Product specifications

Product type	Light output@ typical	Module power@ 230V	Module efficacy@ typical	Color temperature	Color rendering	Color consistency	Tc life	B50/L70 at Tc Life	Order code
	lm	W	lm/W	K	Ra	SDCM	°C	Hours	12NC
Fortimo DLM ES 1100/830 G2	1080	9.5	114	3000	> 80	3	70	> 50,000	929001435506
Fortimo DLM ES 1100/840 G2	1100	9.5	116	4000	> 80	3	70	> 50,000	929001435606
Fortimo DLM ES 2000/830 G2	1930	17.5	110	3000	> 80	3	70	> 50,000	929001435706
Fortimo DLM ES 2000/840 G2	2000	17.5	114	4000	> 80	3	70	> 50,000	929001435806
Fortimo DLM ES 3000/830 G2	2850	26.5	108	3000	> 80	3	70	> 50,000	929001435906
Fortimo DLM ES 3000/840 G2	3000	26.5	113	4000	> 80	3	70	> 50,000	929001436006

# CertaFlux DLM EaseSelect Gen1

Downlight

Certaflux DLM EaseSelect brings with it good performance in a cost effective driver on board (DoB) solution, delivering a high quality of light with low flicker. Having an integrated driver, enables easy and hassle free design-in.

### Features

- Low flicker
- Ease of design – in
- Cost-effective solution
- Good enough Lm/W upto >100lm/w, more initial cost driven projects (CertaFlux)
- Long life-time: 35,000 hours
- Excellent color consistency of 3 SDCM
- Full portfolio with all typical downlight lumen packages (1100 lm, 2000 lm, 3000 lm) and different CCTs (3000K, 4000K, 6500K)

### Benefits

- Excellent cost-performance
- Suitable for compact heat sink designs
- Long lasting
- Covers all downlight applications and ambiance needs
- Simple and easy to maintain

### Applications

- Offices
- Public buildings
- Retail



Certaflux DLM EaseSelect Gen1

### Product specifications

Product type	Light output	Module power	Module efficacy	Color temperature	Color rendering	Color consistency	Tc life	B50/L70 at Tc Life	Order code
	lm	W	lm/W	K	Ra	SDCM	°C	Hours	12NC
CertaFlux DLM ES 1100/830 G1	1080	11.4	95	3000	> 80	3	70	> 35,000	929000997880
CertaFlux DLM ES 1100/840 G1	1130	11.1	102	4000	> 80	3	70	> 35,000	929000997980
CertaFlux DLM ES 1100/865 G1	1130	11.1	102	6500	> 80	3	70	> 35,000	929000998080
CertaFlux DLM ES 2000/830 G1	1930	21.7	89	3000	> 80	3	70	> 35,000	929000998180
CertaFlux DLM ES 2000/840 G1	2020	21.3	95	4000	> 80	3	70	> 35,000	929000998280
CertaFlux DLM ES 2000/865 G1	2020	21.3	95	6500	> 80	3	70	> 35,000	929000998380
CertaFlux DLM ES 3000/830 G1	2770	31	89	3000	> 80	3	70	> 35,000	929000998480
CertaFlux DLM ES 3000/840 G1	2956	31	95	4000	> 80	3	70	> 35,000	929000998580
CertaFlux DLM ES 3000/865 G1	2956	31	95	6500	> 80	3	70	> 35,000	929000998680



# Fortimo DLM Flex Gen2

## Downlight

Being the trend setter in high performance LED downlighting with the Fortimo DLM range, Philips introduced the next generation of the Fortimo LED DLM Flex family. Being backwards compatible with the previous generation, Fortimo LED DLM Flex Gen2 enables further optimization of existing as well as new flexible downlight luminaire designs.

### Features

- Range of 1100 to 5000lm
- Offer includes PCB only version, shallow housing and high housing
- Compatible with both high performance, full flexibility window drivers and high value-for-money CertaDrive drivers
- Backwards compatibility and up to 162lm/W at an improved Tc of 75°C
- Better glare performance vs CoB solutions
- CRI >80 and perfect colour stability over lifetime
- Color temperatures: 3000K, 4000K, 5000K and 6500K

### Benefits

- Full flexibility and design freedom based on a full portfolio
- Easy design-in based on outstanding efficiencies & high robustness
- High quality of light
- A reliable & flexible system proposition offering peace of mind

### Applications

- Offices
- Public buildings
- Hospitality
- Retail



Fortimo DLM Flex Gen2

### Product specifications

Product type	Light output	Module efficacy@ low-housing	Module efficacy@ high-housing	Color temperature	Color rendering	Color consistency	Tc life	B50/L70 at Tc Life	Order code
	lm	lm/W	lm/W	K	Ra	SDCM	°C	Hours	12NC
Fortimo LED DLM Flex 1100/830 Gen2	1100	115	93	3000	> 80	3	75	> 50,000	929001503880
Fortimo LED DLM Flex 1100/840 Gen2	1100	127	104	4000	> 80	3	75	> 50,000	929001503980
Fortimo LED DLM Flex 1100/850 Gen2	1100	127	104	5000	> 80	3	75	> 50,000	929001508380
Fortimo LED DLM Flex 1100/865 Gen2	1100	127	104	6500	> 80	3	75	> 50,000	929001504080
Fortimo LED DLM Flex 2000/830 Gen2	2000	113	91	3000	> 80	3	75	> 50,000	929001504180
Fortimo LED DLM Flex 2000/840 Gen2	2000	125	102	4000	> 80	3	75	> 50,000	929001504280
Fortimo LED DLM Flex 2000/850 Gen2	2000	125	102	5000	> 80	3	75	> 50,000	929001508480
Fortimo LED DLM Flex 2000/865 Gen2	2000	125	102	6500	> 80	3	75	> 50,000	929001504380
Fortimo LED DLM Flex 3000/830 Gen2	3000	115	94	3000	> 80	3	75	> 50,000	929001504480
Fortimo LED DLM Flex 3000/840 Gen2	3000	127	105	4000	> 80	3	75	> 50,000	929001504580
Fortimo LED DLM Flex 3000/850 Gen2	3000	127	105	5000	> 80	3	75	> 50,000	929001508580
Fortimo LED DLM Flex 3000/865 Gen2	3000	127	105	6500	> 80	3	75	> 50,000	929001504680
Fortimo LED DLM Flex 5000/830 Gen2	5000	110	88	3000	> 80	3	75	> 50,000	929001504780
Fortimo LED DLM Flex 5000/840 Gen2	5000	122	99	4000	> 80	3	75	> 50,000	929001504880
Fortimo LED DLM Flex 5000/850 Gen2	5000	122	99	5000	> 80	3	75	> 50,000	929001508680
Fortimo LED DLM Flex 5000/865 Gen2	5000	122	99	6500	> 80	3	75	> 50,000	929001504980

\* Module efficacy is calculated for the typical lm output. For more detailed specifications (including lifetime), please check the datasheets or the Easy Design-in Tool.

Fortimo LED DLM Flex Cover Shallow housing	929000908506
Fortimo LED DLM Flex High Cover High housing	929000927806
Fortimo LED DLM Flex cable 600mm Cable	929000910706

### Compatible LED Drivers

The Fortimo LED DLM portfolio is compatible with multiple Xitanium LED drivers. Xitanium LED drivers are available as a builtin or independent driver, dimmable or with a fixed output. For a detailed overview of all available Xitanium indoor point drivers, please go to the Xitanium indoor point driver section at pages 126-134. To find the best driver module combination for your application, the "Easy Design-in Tool" is available via [philips.com/technology](http://philips.com/technology). Below table shows which Xitanium LED driver window is compatible by default with Fortimo LED DLM.

### Product specifications

Product type	1100 lm	2000 lm	3000 lm	5000 lm	Order code
					12NC
<b>Smart Point LED Drivers</b>					
Xitanium 20W WH 0.15-0.5A 54V TD/Is 230V	•	•			929000991706
Xitanium 36W/m 0.3-1.05A 54V TD 230V	•	•	•	•	929000969906
Xitanium 36W WH 0.3-1A 48V TD/Is 230V	•	•	•	•	929000969906
Xitanium 50W WH 0.7-1.5A 54V TD/Is 230V			•	•	929000904106
<b>Fixed Point LED Drivers</b>					
Xitanium 20W WH 0.15-0.5A 54V Is	•	•			929001413906
Xitanium 20W WH 0.15-0.5A 54V S	•	•			929001416506
Xitanium 20W/m 0.15-0.5A 48V 230V	•	•			929000893806
Xitanium 20W/m 0.15-0.5A 54V 230V	•	•			929001415006
Xitanium 36W/m 0.3-1.05A 48V 230V	•	•	•	•	929000881806
Xitanium 36W WH 0.3-1.05A 54V Is	•	•	•	•	929001414006
Xitanium 36W WH 0.3-1.05A 54 V S	•	•	•	•	929001416606
Xitanium 36W/m 0.3-1.05A 54V 230V	•	•	•	•	929001415106
Xitanium 43W/m 0.7-1.2A 54V 230V			•	•	929001415206
Xitanium 50W WH 0.7-1.5A 54V Is			•	•	929001416806
Xitanium 50W/m 0.7-1.5A 54V 230V			•	•	929001415306
Xitanium 50W/m 0.7-1.5A 48V 230V			•	•	929000934606
Xitanium 50W WH 0.7-1.5A 54V S			•	•	929001415306
<b>Fixed Peak Point LED Drivers</b>					
CertaDrive 15W 0.35A 42V I 230V	•				929000898106
CertaDrive 20W 0.5A 40V I 230V		•			929000898006
CertaDrive 30W 0.7A 42V I 230V G2			•		929001414280
CertaDrive 44W 1.05A 42V I 230V G2				•	929001414580
Xitanium 15W 0.35A 42V I 230V	•				929001410180
Xitanium 21W 0.5A 42V I 230V		•			929001410280
Xitanium 32W 0.7/0.75A 42V I 230V G2			•		929001418380
Xitanium 44W 1.0/1.05A 42V I 230V G2				•	929001418680

\* Check the Xitanium Indoor Point Driver portfolio on page 122 for all available drivers with the operating window you need.

# CertaFlux DLM Slim

## Downlight

Certaflux DLM Slim module provides a very easy to use solution for downlight application with affordable cost but no sacrifice on light quality. The module is integrated with optical and heatsink which help to make the product extremely easy to use. Optimized diffuser gives uniform light. Whole portfolio is fully compatible with Philips Drivers and with high flexibility in lm/w and S/W. 6500K is added in the family

### Features

- Provides 600lm/1000lm/2000lm lum package
- Optimized diffuser provides good uniformity
- Up to 130lm/W @ module level
- CRI >80 and good colour stability over lifetime
- Fully compatible with Philips Certa Drivers
- Color temperatures: 3000K, 4000K, 5000K, 6500K

### Benefits

- Easy to Use
- Flexible in Flux package with different combination with different drivers
- Good light of Quality

### Applications

- Offices
- Public buildings
- Hospitality
- Retail



### Product specifications

Product type	Light output	Module power	Module efficacy	Color temperature	Color rendering	Color consistency	Tc life	B50/L70 at Tc Life	Order code
	lm	W	lm/W	K	Ra	SDCM	°C	Hours	12NC
CertaFlux DLM Slim 600lm 830 4"	630	6.9	91	~3000	> 80	6	70	> 25,000	929001443280
CertaFlux DLM Slim 600lm 840 4"	640	6.9	92	~4000	> 80	6	70	> 25,000	929001443380
CertaFlux DLM Slim 600lm 850 4"	640	6.9	92	~5000	> 80	6	70	> 25,000	929001443480
CertaFlux DLM Slim 600lm 865 4"	640	6.9	92	~6500	> 80	6	70	> 25,000	929001462280
CertaFlux DLM Slim 1000lm 830 4"	980	10	98	~3000	> 80	6	80	> 25,000	929001443580
CertaFlux DLM Slim 1000lm 840 4"	1040	10	104	~4000	> 80	6	80	> 25,000	929001443680
CertaFlux DLM Slim 1000lm 850 4"	1040	10	104	~5000	> 80	6	80	> 25,000	929001443780
CertaFlux DLM Slim 1000lm 865 4"	1040	10	104	~6500	> 80	6		> 25,000	929001462380
CertaFlux DLM Slim 1000lm 830 6"	1070	10.2	105	~3000	> 80	6	70	> 25,000	929001443880
CertaFlux DLM Slim 1000lm 840 6"	1150	10.2	113	~4000	> 80	6	70	> 25,000	929001443980
CertaFlux DLM Slim 1000lm 850 6"	1150	10.2	113	~5000	> 80	6	70	> 25,000	929001444080
CertaFlux DLM Slim 1000lm 865 6"	1150	10.2	113	~6500	> 80	6		> 25,000	929001462480
CertaFlux DLM Slim 2000lm 830 6"	2010	20.6	97	~3000	> 80	6	80	> 25,000	929001444180
CertaFlux DLM Slim 2000lm 840 6"	2140	20.6	104	~4000	> 80	6	80	> 25,000	929001444280
CertaFlux DLM Slim 2000lm 850 6"	2140	20.6	104	~5000	> 80	6	80	> 25,000	929001444380
CertaFlux DLM Slim 2000lm 865 6"	2140	20.6	104	~6500	> 80	6		> 25,000	929001462580
CertaFlux DLM Slim 2000lm 830 8"	2000	16.9	119	~3000	> 80	6	70	> 25,000	929001444480
CertaFlux DLM Slim 2000lm 840 8"	2130	16.9	126	~4000	> 80	6	70	> 25,000	929001444580
CertaFlux DLM Slim 2000lm 850 8"	2100	16.9	130	~5000	> 80	6	70	> 25,000	929001444680
CertaFlux DLM Slim 2000lm 865 8"	2100	16.9	130	~6500	> 80	6	70	> 25,000	929001462680

\* Module Light output and efficacy is calculated @ typical. Measurement precision for flux +/-5%, Measurement precision for efficacy +/- 6%. For more detailed specifications (including lifetime) please approach local sales team.



### Compatible LED Drivers

The Certaflux DLM Slim is compatible with multiple CertaLED drivers. For more details, please approach local sales team.

### Product specifications

Product type	600lm 4"	1000lm 4"	1000lm 6"	2000lm 6"	2000lm 8"	Order code
						12NC
CertaDrive 6W 0.15A 40V LPF I 230V	•					929001411780
CertaDrive 8W 0.2A 40V LPF I 230V	•					929001409980
CertaDrive 10W 0.25A 40V LPF I 230V		•	•			929001410006
CertaDrive 12W 0.3A 40V LPF I 230V		•	•			929001409506
CertaDrive 15W 0.35A 42V I 230V			•			929000898106
CertaDrive 20W 0.5A 40V I 230V				•	•	929000898006
CertaDrive 8W 0.2A 40V I 230V	•					929000956080
CertaDrive 15W 0.35A 42V I 230V						929000898106
CertaDrive 25W 0.6A 42V I 230V				•	•	929001414180
CertaDrive 30W 0.7A 42V I 230V				•	•	929001414280
Xitanium 20W WH 0.15 -0.5A 54V TD/Is 230V	•	•	•	•	•	929000991706
Xitanium 36W WH 0.3-1A 54V TD/Is 230V		•	•	•	•	929000969906
Xitanium 36W/m 0.3-1.05A 54V TD 230V			•	•	•	929001419106

\* For latest compatible driver list, please always help to check with local sales team.



# CertaFlux DLM EaseSelect Ceiling Light

Downlight

CertaFlux DLM ES Ceiling Light is a perfect solution for wide-diameter ceiling light application. This solution combines LED technology and driver with optical distribution. The system offers two lumen packages: 1500lm and 1900lm, along with two color temperatures: 3000K and 6500K. External optics ensure good uniformity of light distribution, and the design of this ceiling light ensures good heat management thus no need for an external heat sink. A standard Philips systems warranty is available for this product with a lifetime of 25,000 hours. An optimal choice to consider for a fast return on investment with a payback period estimated to be less than 1.5 years.

## Features

- Two lumen output: 1500lm and 1900lm
- Efficiency levels surpassing TLE 32W
- High quality white light CRI 80
- 25,000 hours lifetime

## Benefits

- Easy design-in
- >50% energy savings
- Standard warranty available

## Applications

- Ceiling light for residential application, to replace TLE32/54 and TLE32/865



CertaFlux DLM EaseSelect Ceiling Light

## Product specifications

Product type	Light output	Module power	Module efficacy	Color temperature	Color rendering	Color consistency	Tc max	B50/L70 at Tc Life	Order code
	lm	W	lm/W	K	Ra	SDCM	°C	Hours	12NC
Certaflux DLM ES 1500/830 CL G1	1379	14.8	93	3000	> 80	5	< 80	25,000	9290 009 94080
Certaflux DLM ES 1500/865 CL G1	1500	14.7	102	6500	> 80	5	< 80	25,000	9290 009 94180
Certaflux DLM ES 1900/830 CL G1	1748	18.4	95	3000	> 80	5	< 85	25,000	9290 009 94480
Certaflux DLM ES 1900/865 CL G1	1900	18.3	104	6500	> 80	5	< 85	25,000	9290 009 94580
Certaflux DLM ES 1500/830 CLC G1	1379	14.8	93	3000	> 80	5	< 80	25,000	9290 009 94280
Certaflux DLM ES 1500/865 CLC G1	1500	14.7	102	4000	> 80	5	< 80	25,000	9290 009 94380
Certaflux DLM ES 1900/830 CLC G1	1748	18.4	95	3000	> 80	5	< 85	25,000	9290 009 94680
Certaflux DLM ES 1900/865 CLC G1	1900	18.3	104	4000	> 80	5	< 85	25,000	9290 009 94780





# Spotlight Modules

**Because retail is detail.** With the Fortimo LED SLM portfolio, Philips offers the ideal combination of high quality spotlighting with state-of-the-art performance and energy efficiency.





# Fortimo SLM Gen6 CrispWhite

Spotlight

Fortimo LED SLM CrispWhite is a unique solution that offers an unparalleled rendering of intense white and warm, deep colors within one light source. Fortimo SLM CrispWhite is ideal for use in fashion lighting applications, where the white colors in the fabric and material truly stand out from the display. The CrispWhite portfolio is available in all Fortimo LED SLM Gen5 CoB sizes.

### Features

- The perfect mix of Crisp White Light and warm colours in one LED source
- CRI 90
- Zhaga form factor
- Tc life of up to 85°C
- Extend to 6.5mm LES size from Gen5
- Philips standard systems warranty applies

### Benefits

- Outstanding quality of light
- Easy design-in
- Very good efficiencies
- Excellent beam control and small reflector design
- A reliable and flexible system proposition

### Applications

- Retail
- CrispWhite works best for: paper, garment and textiles



Fortimo SLM Gen6 CrispWhite

### Product specifications

Product type	Light output	Module power	Module efficacy	Color temperature	Color rendering	Color consistency	Tc life	B50/L70 at Tc Life	Order code
	lm	W	lm/W	K	Ra	SDCM	°C	Hours	12NC
Fortimo SLM C 930 CW 1202 L06 1215 G6	640	7.0	91	3000	> 90	3	85	> 50,000	9290 014 54306
Fortimo SLM C 930 CW 1203 L09 1619 G6	980	10.6	92	3000	> 90	3	85	> 50,000	9290 014 55706
Fortimo SLM C 930 CW 1205 L13 2024 G6	1710	17.3	99	3000	> 90	3	85	> 50,000	9290 014 59906
Fortimo SLM C 930 CW 1208 L15 2024 G6	2540	25.9	98	3000	> 90	3	85	> 50,000	9290 014 47106
Fortimo SLM C 930 CW 1211 L19 2828 G6	4110	42.4	97	3000	> 90	3	85	> 50,000	9290 014 48506

\* Module efficacy is calculated for the typical lm output. For more detailed specifications (including lifetime), please check the datasheets online or the Easy Design-in tool.  
 \*\* The CoB size defines the compatibility with the Fortimo SLM Holders. The CoB size is also given in the name of the Holder (see page 40).

### Compatible LED Drivers

The Fortimo LED SLM portfolio is compatible with multiple Xitanium LED drivers. Xitanium LED drivers are available as a built-in or independent driver, dimmable or with a fixed output. For a detailed overview of all available Xitanium indoor point drivers, please go to the Xitanium indoor point driver section at pages 70 - 79. To find the best driver module combination for your application, the Easy Design-in Tool is available via [philips.com/technology](http://philips.com/technology). Below table shows which Xitanium LED driver window is compatible by default with Fortimo LED SLM.

### Product specifications

Product type	CoB					Order code
	1202	1203	1205	1208	1211	
<b>Smart Point LED Drivers</b>						
Xitanium 36W/m 0.3-1.05A 54V TD 230V			•	•		929001419106
Xitanium 20W WH 0.15-0.5A 54V TD/Is 230V	•	•	•			929000991706
Xitanium 36W WH 0.3-1A 54V TD/Is 230V			•	•		929000969906
Xitanium 50W WH 0.7-1.5A 54V TD/Is 230V				•	•	929000991806
<b>Fixed Point LED Drivers</b>						
Xitanium 20W WH 0.15-0.5 54V Is	•	•	•			929001413906
Xitanium 20W WH 0.15-0.5A 54V S	•	•	•			929001416506
Xitanium 36W WH 0.3-1.05A 54V Is			•	•		929001414006
Xitanium 36W WH 0.3-1.05A 54V S			•	•		929001416606
Xitanium 50W WH 0.7-1.5A 54V Is				•	•	929001416806
Xitanium 50W WH 0.7-1.5A 54V S				•	•	929001416706
Xitanium 20W/m 0.15-0.5A 54V 230V	•	•	•			929001415006
Xitanium 20W/m 0.15-0.5A 48V 230V	•	•	•			929000893806
Xitanium 36W/m 0.3-1.05A 54V 230V		•	•	•		929001415106
Xitanium 36W/m 0.3-1.05A 48V 230V			•	•		929000881806
Xitanium 50W/m 0.7-1.5A 54V 230V				•	•	929001415306
Xitanium 50W/m 0.7-1.5A 48V 230V				•	•	929000934606
<b>Fixed Peak Point LED drivers</b>						
Xitanium 16W/m 0.35A 46V SC 230V	•	•	•			929001412380
Xitanium 23W/m 0.5A 46V SC 230V	•	•	•	•	•	929001412480
Xitanium 32W/m 0.7A 46V SC 230V			•	•	•	929001412680
Xitanium 15W 0.35A 42V I 230V	•	•	•			929001410180
Xitanium 21W 0.5A 42V I 230V			•			929001410280
Xitanium 32W 0.7/0.75A 42V I 230V G2			•	•	•	929001418380
Xitanium 44W 1.0/1.05A 42V I 230V G2			•	•	•	929001418680

\* Check the Xitanium Indoor Point Driver portfolio on pages 126-134 for all available drivers with the operating window you need.  
 \*\* For more and latest combination, please always check the Easy Design-in Tool.



# Fortimo SLM Gen6 – Food WarmWhite and Food PremiumRed

Spotlight

Fortimo LED SLM Food WarmWhite and Fortimo LED SLM Food PremiumRed are dedicated propositions, geared towards fresh food applications. The Fortimo SLM Food WarmWhite offers a specific spectrum enhancing the appearance of fresh food such as bread, fruit and vegetables, whereas the Fortimo LED SLM Food PremiumRed specifically enhances the appearance of fresh meat. Both products are best in class light quality solutions.



1211 1208  
Fortimo SLM Gen6 – Food WarmWhite and Food PremiumRed

**Product specifications**

Product type	Light output	Module power	Module efficacy	Color temperature	Color rendering	Color consistency	Tc life	B50/L70 at Tc Life	Order code
	lm	W	lm/W	K	Ra	SDCM	°C	Hours	12NC
Fortimo SLM C 925 FWW 1208 L15 2024 G6	2170	25.5	85	Food Warm White	> 92	3	85	> 50,000	9290 014 52680
Fortimo SLM C 930 FPR 1208 L15 2024 G6	2250	25.5	88	Food Premium Red	> 87	3	85	> 50,000	9290 014 52980
Fortimo SLM C 925 FWW 1211 L19 2828 G6	3460	41.6	84	Food Warm White	> 92	3	85	> 50,000	9290 014 52280
Fortimo SLM C 930 FPR 1211 L19 2828 G6	3620	41.6	85	Food Premium Red	> 87	3	85	> 50,000	9290 014 52580

\* Module efficacy is calculated for the typical lm output. For more detailed & latest specifications (including lifetime) please always check the datasheets online or the Easy Design-in Tool.

\*\* The CoB size defines the compatibility with the Fortimo SLM Holders. The CoB size is also given in the name of the Holder (see page 33).

**Compatible LED Drivers**

The Fortimo LED SLM portfolio is compatible with multiple Xitanium LED drivers. Xitanium LED drivers are available as a built-in or independent driver, dimmable or with a fixed output. For a detailed overview of all available Xitanium indoor point drivers, please go to the Xitanium indoor point driver section at pages 126-134. To find the best driver module combination for your application, the Easy Design-in Tool is available via [philips.com/technology](http://philips.com/technology). Below table shows which Xitanium LED driver window is compatible by default with Fortimo LED SLM.

**Product specifications**

Product type	CoB				Order code
	FWW 1208	FPR 1208	FWW 1211	FPR 1211	12NC
Xitanium 36W/m 0.3-1.05A 54V TD 230V	•	•			929001419106
Xitanium 36W WH 0.3-1A 54V TD/Is 230V	•	•			929000969906
Xitanium 50W WH 0.7-1.5A 54V TD/Is 230V	•	•	•	•	929000991806
Xitanium 36W WH 0.3-1.05A 54V Is	•	•			929001414006
Xitanium 36W WH 0.3-1.05A 54V S	•	•			929001416606
Xitanium 36W/m 0.3-1.05A 54V 230V	•	•			929001415106
Xitanium 36W/m 0.3-1.05A 48V 230V	•	•			929000881806
Xitanium 50W WH 0.7-1.5A 54V Is	•	•	•	•	929001416806
Xitanium 50W WH 0.7-1.5A 54V S	•	•	•	•	929001416706
Xitanium 50W/m 0.7-1.5A 48V 230V	•	•	•	•	929000934606
Xitanium 50W/m 0.7-1.5A 54V 230V	•	•	•	•	929001415306
Xitanium 43W/m 0.7-1.2A 54V 230V	•	•	•	•	929001412480
Xitanium 32W 0.7/0.75A 42V I 230V	•	•			929001412680

\* Check the Xitanium Indoor Point Driver portfolio on pages 126-134 for all available drivers with the operating window you need.

\*\* For more and latest combination, please always check the Easy Design-in Tool.





# Fortimo SLM Gen7

Spotlight

Fortimo SLM Gen7 continues to focus on the combination of Quality of Light and Energy efficacy and miniaturization in a future proof and backwards compatible portfolio. This results in an extensive portfolio of lumen ranges, CCTs and spectra. In parallel, +8% efficacy is achieved in average Vs Gen 6. Please also check the online Easy Design-in Tool for your perfect system combination(www.easydesigntool.com).

### Features

- Broad portfolio in terms of CCT 2700K, 3000K, 3500K, 4000K, 5000K, 5700K & CRI 80, 90 available
- Flexibility to select a different lumen output between 800 and 10000lm
- Small LES size for narrow beam angles and small reflector design
- Separation of CoB and holders to increase reactivity and speed improved understandability of the portfolio
- System Proposition (CoB+Holder+Driver)
- Pre-configured system propositions both in high lm/W and lm/\$
- Large choice of drivers available, including DALI dimming, Xitanium, Certaflux
- 50,000 hours lifetime @ Tc life

### Benefits

- Best quality of light for all applications
- Standard/Permium White/ availalbe
- Excellent beam control and small reflector design
- Flexibility to optimize luminaire performance
- A reliable & flexible system approach
- Philips Standard warranty applies

### Applications

- Retail
- Industry and outdoor



### Product specifications

Product type	Light output	Module power	Module efficacy	Color temperature	Color rendering	Color consistency	Tc life	B50/L70 at Tc Life	Order code
	lm	W	lm/W	K	Ra	SDCM	°C	Hours	12NC
Fortimo SLM C 827 1202 L06 1215 G7	1320	12.8	103	2700	> 80	3	85	> 50,000	929001581806
Fortimo SLM C 830 1202 L06 1215 G7	1400	12.8	109	3000	> 80	3	85	> 50,000	929001581906
Fortimo SLM C 835 1202 L06 1215 G7	1460	12.8	114	3500	> 80	3	85	> 50,000	929001582006
Fortimo SLM C 840 1202 L06 1215 G7	1500	12.8	117	4000	> 80	3	85	> 50,000	929001582106
Fortimo SLM C 927 1202 L06 1215 G7	1110	12.8	86	2700	> 90	3	85	> 50,000	929001582406
Fortimo SLM C 930 1202 L06 1215 G7	1200	12.8	93	3000	> 90	3	85	> 50,000	929001582506
Fortimo SLM C 827 1203 L09 1619 G7	1490	10.3	144	2700	> 80	3	85	> 50,000	929001583806
Fortimo SLM C 830 1203 L09 1619 G7	1520	10.3	147	3000	> 80	3	85	> 50,000	929001583906
Fortimo SLM C 835 1203 L09 1619 G7	1560	10.3	151	3500	> 80	3	85	> 50,000	929001584006
Fortimo SLM C 840 1203 L09 1619 G7	1610	10.3	156	4000	> 80	3	85	> 50,000	929001584106
Fortimo SLM C 850 1203 L09 1619 G7	1610	10.3	156	5000	> 80	3	85	> 50,000	929001584206
Fortimo SLM C 927 1203 L09 1619 G7	1240	10.3	120	2700	> 90	3	85	> 50,000	929001584406
Fortimo SLM C 930 1203 L09 1619 G7	1280	10.3	124	3000	> 90	3	85	> 50,000	929001584506
Fortimo SLM C 730 1204 L09 1619 G7	2951	25.7	115	3000	> 70	3	75	> 50,000	929001585306
Fortimo SLM C 740 1204 L09 1619 G7	3108	25.7	121	4000	> 70	3	75	> 50,000	929001585406
Fortimo SLM C 827 1204 L09 1619 G7	2636	25.7	102	2700	> 80	3	75	> 50,000	929001585806
Fortimo SLM C 830 1204 L09 1619 G7	2775	25.7	108	3000	> 80	3	75	> 50,000	929001585906
Fortimo SLM C 835 1204 L09 1619 G7	2831	25.7	110	3500	> 80	3	75	> 50,000	929001586006
Fortimo SLM C 840 1204 L09 1619 G7	2886	25.7	112	4000	> 80	3	75	> 50,000	929001586106
Fortimo SLM C 850 1204 L09 1619 G7	2886	25.7	112	5000	> 80	3	75	> 50,000	929001586206
Fortimo SLM C 857 1204 L09 1619 G7	2873	25.7	112	5700	> 80	3	75	> 50,000	929001586306
Fortimo SLM C 927 1204 L09 1619 G7	2220	25.7	86	2700	> 90	3	75	> 50,000	929001586406
Fortimo SLM C 930 1204 L09 1619 G7	2276	25.7	88	3000	> 90	3	75	> 50,000	929001586506
Fortimo SLM C 827 1205 L13 2024 G7	2540	17.2	148	2700	> 80	3	85	> 50,000	929001587806
Fortimo SLM C 830 1205 L13 2024 G7	2640	17.2	154	3000	> 80	3	85	> 50,000	929001587906
Fortimo SLM C 835 1205 L13 2024 G7	2690	17.2	157	3500	> 80	3	85	> 50,000	929001588006

### Product specifications

Product type	Light output	Module power	Module efficacy	Color temperature	Color rendering	Color consistency	Tc life	B50/L70 at Tc Life	Order code
	lm	W	lm/W	K	Ra	SDCM	°C	Hours	12NC
Fortimo SLM C 840 1205 L13 2024 G7	2750	17.2	160	4000	> 80	3	85	> 50,000	929001588106
Fortimo SLM C 850 1205 L13 2024 G7	2750	17.2	160	5000	> 80	3	85	> 50,000	929001588206
Fortimo SLM C 927 1205 L13 2024 G7	2110	17.2	123	2700	> 90	3	85	> 50,000	929001588406
Fortimo SLM C 930 1205 L13 2024 G7	2190	17.2	128	3000	> 90	3	85	> 50,000	929001588506
Fortimo SLM C 827 1208 L15 2024 G7	3800	25.4	149	2700	> 80	3	85	> 50,000	929001589806
Fortimo SLM C 830 1208 L15 2024 G7	3950	25.4	155	3000	> 80	3	85	> 50,000	929001589906
Fortimo SLM C 835 1208 L15 2024 G7	4030	25.4	159	3500	> 80	3	85	> 50,000	929001590006
Fortimo SLM C 840 1208 L15 2024 G7	4110	25.4	162	4000	> 80	3	85	> 50,000	929001590106
Fortimo SLM C 850 1208 L15 2024 G7	4120	25.4	162	5000	> 80	3	85	> 50,000	929001590206
Fortimo SLM C 857 1208 L15 2024 G7	4100	25.4	161	5700	> 80	3	85	> 50,000	929001590306
Fortimo SLM C 927 1208 L15 2024 G7	3150	25.4	124	2700	> 90	3	85	> 50,000	929001590406
Fortimo SLM C 930 1208 L15 2024 G7	3270	25.4	129	3000	> 90	3	85	> 50,000	929001590506
Fortimo SLM C 827 1211 L19 2828 G7	6110	41.6	147	2700	> 80	3	85	> 50,000	929001591806
Fortimo SLM C 830 1211 L19 2828 G7	6280	41.6	151	3000	> 80	3	85	> 50,000	929001591906
Fortimo SLM C 835 1211 L19 2828 G7	6410	41.6	154	3500	> 80	3	85	> 50,000	929001592006
Fortimo SLM C 840 1211 L19 2828 G7	6630	41.6	159	4000	> 80	3	85	> 50,000	929001592106
Fortimo SLM C 850 1211 L19 2828 G7	6630	41.6	159	5000	> 80	3	85	> 50,000	929001592206
Fortimo SLM C 857 1211 L19 2828 G7	6610	41.6	159	5700	> 80	3	85	> 50,000	929001592306
Fortimo SLM C 927 1211 L19 2828 G7	5070	41.6	122	2700	> 90	3	85	> 50,000	929001592406
Fortimo SLM C 930 1211 L19 2828 G7	5310	41.6	128	3000	> 90	3	85	> 50,000	929001592506
Fortimo SLM C 827 1216 L23 2828 G7	8030	55.0	146	2700	> 80	3	85	> 50,000	929001593806
Fortimo SLM C 830 1216 L23 2828 G7	8220	55.0	149	3000	> 80	3	85	> 50,000	929001593906
Fortimo SLM C 835 1216 L23 2828 G7	8380	55.0	152	3500	> 80	3	85	> 50,000	929001594006
Fortimo SLM C 840 1216 L23 2828 G7	8700	55.0	158	4000	> 80	3	85	> 50,000	929001594106
Fortimo SLM C 850 1216 L23 2828 G7	8710	55.0	158	5000	> 80	3	85	> 50,000	929001594206
Fortimo SLM C 857 1216 L23 2828 G7	8680	55.0	158	5700	> 80	3	85	> 50,000	929001594306
Fortimo SLM C 927 1216 L23 2828 G7	6660	55.0	121	2700	> 90	3	85	> 50,000	929001594406
Fortimo SLM C 930 1216 L23 2828 G7	6930	55.0	126	3000	> 90	3	85	> 50,000	929001594506

\* Module efficacy is calculated for the typical lm output. For more detailed and latest specifications (including lifetime) please always check the datasheets online or the Easy Design-in Tool.

### Compatible LED Drivers

The Fortimo LED SLM portfolio is compatible with multiple Xitanium & Certa LED drivers. For a detailed overview of all available indoor point drivers, pls go to the xitanium indoor point driver section at pages 126-134 or the certa indoor point driver section at pages 132-134. To find the best driver module combination for your application, the Easy Design-in Tool is available via philips.com/technology. Below table shows which Xitanium and Certa LED driver window is compatible by default with Fortimo LED SLM.

### Product specifications

Product type	CoB							Order code
	1202	1203	1204	1205	1208	1211	1216	
<b>Smart Point LED Drivers</b>								
Xitanium 36W/m 0.3-1.05A 54V TD 230V			•	•	•			929001419106
Xitanium 20W WH 0.15-0.5A 54V TD/ls 230V	•	•	•	•				929000991706
Xitanium 36W WH 0.3-1A 54V TD/ls 230V			•	•	•			929000969906
Xitanium 50W WH 0.7-1.5A 54V TD/ls 230V					•	•	•	929000991806
<b>Fixed Point LED Drivers</b>								
Xitanium 20W WH 0.15-0.5A 54V ls	•	•	•	•				929001413906
Xitanium 20W WH 0.15-0.5A 54V S	•	•	•	•				929001416506
Xitanium 36W WH 0.3-1.05A 54V ls			•	•	•			929001414006
Xitanium 36W WH 0.3-1.05A 54V S			•	•	•			929001416606
Xitanium 50W WH 0.7-1.5A 54V ls					•	•	•	929001416806
Xitanium 50W WH 0.7-1.5A 54V S					•	•	•	929001416706
Xitanium 20W/m 0.15-0.5A 54V 230V	•	•	•	•				929001415006
Xitanium 20W/m 0.15-0.5A 48V 230V	•	•	•	•				929000893806



**Product specifications**

Product type	CoB							Order code
	1202	1203	1204	1205	1208	1211	1216	
<b>Fixed Point LED Drivers</b>								
Xitanium 36W/m 0.3-1.05A 54V 230V		•	•	•	•			929001415106
Xitanium 36W/m 0.3-1.05A 48V 230V			•	•	•			929000881806
Xitanium 50W/m 0.7-1.5A 54V 230V					•	•	•	929001415306
Xitanium 50W/m 0.7-1.5A 48V 230V					•	•	•	929000934606
<b>Fixed Peak Point LED Drivers</b>								
Xitanium 16W/m 0.35A 46V SC 230V	•	•	•	•				929001412380
Xitanium 23W/m 0.5A 46V SC 230V	•	•	•	•	•	•	•	929001412480
Xitanium 32W/m 0.7A 46V SC 230V			•	•	•	•	•	929001412680
Xitanium 15W 0.35A 42V I 230V	•	•	•	•				929001410180
Xitanium 21W 0.5A 42V I 230V			•	•				929001410280
Xitanium 32W 0.7/0.75A 42V I 230V G2			•	•	•	•	•	929001418380
Xitanium 44W 1.0/1.05A 42V I 230V G2			•	•	•	•	•	929001418680
CertaDrive 10W 0.25A 40V LPF I 230V	•	•						929001410006
CertaDrive 12W 0.3A 40V LPF I 230V	•	•						929001409506
CertaDrive 15W 0.35A 42V I 230V	•	•	•	•	•			929000898106
CertaDrive 20W 0.5A 40V I 230V	•	•	•	•	•			929000898006
CertaDrive 30W 0.7A 42V I 230V G2			•	•	•	•		929001414280
CertaDrive 34W 0.8A 42V I 230V G2			•	•	•	•		929001414380
CertaDrive 38W 0.9A 42V I 230V G2			•	•	•	•	•	929001414480
CertaDrive 44W 1.05A 42V I 230V G2			•	•	•	•	•	929001414580

\* Check the Xitanium indoor point driver portfolio on page 102 for all available drivers with the operating window you need.  
 \*\* For more & latest combination, please always check the Easy Design-in Tool.

# Fortimo SLM Gen7 Premium White

Spotlight

Fortimo SLM Gen7 Premium White Range continuous to focus on the combination of Quality of Light and . Energy efficacy and miniaturization in a future proof and backwards compatible portfolio. This results in an extensive portfolio of lumen ranges, and spectra. In parallel, +8% efficacy is achieved in average Vs Gen 6. Please also check the online Easy Design-in Tool for your perfect system combination(www.easydesigntool.com).

**Features**

- Flexibility to select a different lumen output between 800 and 10000lm
- Broad portfolio in terms of CCT 3000K, 3500K, 4000K & CRI 80, 90 available
- Small LES size for narrow beam angles and small reflector design
- Separation of CoB and holders to increase reactiveness and speed improved understandability of the portfolio
- System Proposition (CoB+Holder+Driver)

- Pre-configured system propositions both in high lm/W and lm/\$
- Large choice of drivers available, including DALI dimming, Xitanium, Certaflux
- 50,000 hours lifetime @ Tc life

- Excellent beam control and small reflector design
- Flexibility to optimize luminaire performance
- A reliable & flexible system approach
- Philips Standard warranty applies

**Benefits**

- Best quality of light for all applications
- Standard/Premium White/ available

**Applications**

- Retail
- Industry & Outdoor



**Product specifications**

Product type	Light output	Module power	Module efficacy	Color temperature	Color rendering	Color consistency	Tc life	B50/L70 at Tc Life	Order code
	lm	W	lm/W	K	Ra	SDCM	°C	Hours	12NC
Fortimo SLM C 830 PW 1202 L06 1215 G7	1400	12.8	109	3000	> 80	3	85	> 50,000	929001582606
Fortimo SLM C 930 PW 1202 L06 1215 G7	1200	12.8	93	3000	> 90	3	85	> 50,000	929001582706
Fortimo SLM C 935 PW 1202 L06 1215 G7	1270	12.8	99	3500	> 90	3	85	> 50,000	929001582806
Fortimo SLM C 940 PW 1202 L06 1215 G7	1300	12.8	101	4000	> 90	3	85	> 50,000	929001582906
Fortimo SLM C 830 PW 1203 L09 1619 G7	1510	10.3	146	3000	> 80	3	85	> 50,000	929001584606
Fortimo SLM C 930 PW 1203 L09 1619 G7	1280	10.3	124	3000	> 90	3	85	> 50,000	929001584706
Fortimo SLM C 935 PW 1203 L09 1619 G7	1350	10.3	131	3500	> 90	3	85	> 50,000	929001584806
Fortimo SLM C 940 PW 1203 L09 1619 G7	1390	10.3	135	4000	> 90	3	85	> 50,000	929001584906
Fortimo SLM C 830 PW 1204 L09 1619 G7	2771	25.7	108	3000	> 80	3	75	> 50,000	929001586606
Fortimo SLM C 930 PW 1204 L09 1619 G7	2320	25.7	90	3000	> 90	3	75	> 50,000	929001586706
Fortimo SLM C 935 PW 1204 L09 1619 G7	2451	25.7	95	3500	> 90	3	75	> 50,000	929001586806
Fortimo SLM C 940 PW 1204 L09 1619 G7	2518	25.7	98	4000	> 90	3	75	> 50,000	929001586906
Fortimo SLM C 830 PW 1205 L13 2024 G7	2570	17.2	150	3000	> 80	3	85	> 50,000	929001588606
Fortimo SLM C 930 PW 1205 L13 2024 G7	2190	17.2	128	3000	> 90	3	85	> 50,000	929001588706
Fortimo SLM C 935 PW 1205 L13 2024 G7	2300	17.2	134	3500	> 90	3	85	> 50,000	929001588806
Fortimo SLM C 940 PW 1205 L13 2024 G7	2360	17.2	138	4000	> 90	3	85	> 50,000	929001588906
Fortimo SLM C 830 PW 1208 L15 2024 G7	3840	25.4	151	3000	> 80	3	85	> 50,000	929001590606
Fortimo SLM C 930 PW 1208 L15 2024 G7	3270	25.4	129	3000	> 90	3	85	> 50,000	929001590706
Fortimo SLM C 935 PW 1208 L15 2024 G7	3440	25.4	135	3500	> 90	3	85	> 50,000	929001590806
Fortimo SLM C 940 PW 1208 L15 2024 G7	3530	25.4	139	4000	> 90	3	85	> 50,000	929001590906
Fortimo SLM C 830 PW 1211 L19 2828 G7	6190	41.6	149	3000	> 80	3	85	> 50,000	929001592606
Fortimo SLM C 930 PW 1211 L19 2828 G7	5310	41.6	128	3000	> 90	3	85	> 50,000	929001592706
Fortimo SLM C 935 PW 1211 L19 2828 G7	5540	41.6	133	3500	> 90	3	85	> 50,000	929001592806
Fortimo SLM C 940 PW 1211 L19 2828 G7	5720	41.6	137	4000	> 90	3	85	> 50,000	929001592906



## Product specifications

Product type	Light output	Module power	Module efficacy	Color temperature	Color rendering	Color consistency	Tc life	B50/L70 at Tc Life	Order code
	lm	W	lm/W	K	Ra	SDCM	°C	Hours	12NC
Fortimo SLM C 830 PW 1216 L23 2828 G7	8130	55.0	148	3000	> 80	3	85	> 50,000	929001594606
Fortimo SLM C 930 PW 1216 L23 2828 G7	6930	55.0	126	3000	> 90	3	85	> 50,000	929001594706
Fortimo SLM C 935 PW 1216 L23 2828 G7	7270	55.0	132	3500	> 90	3	85	> 50,000	929001594806
Fortimo SLM C 940 PW 1216 L23 2828 G7	7470	55.0	136	4000	> 90	3	85	> 50,000	929001594906

\* Module efficacy is calculated for the typical lm output. For more detailed and latest specifications (including lifetime) please always check the datasheets online or the Easy Design-in Tool.

## Compatible LED Drivers

The Fortimo LED SLM portfolio is compatible with multiple Xitanium & Certa LED drivers. For a detailed overview of all available indoor point drivers, pls go to the xitanium indoor point driver section at pages 126-134 or the certa indoor point driver section at pages 132-134. To find the best driver module combination for your application, the Easy Design-in Tool is available via [philips.com/technology](http://philips.com/technology). Below table shows which Xitanium and Certa LED driver window is compatible by default with Fortimo LED SLM

## Product specifications

Product type	CoB							Order code
	1202	1203	1204	1205	1208	1211	1216	12NC
<b>Smart Point LED Drivers</b>								
Xitanium 36W/m 0.3-1.05A 54V TD 230V			•	•	•			929001419106
Xitanium 20W WH 0.15-0.5A 54V TD/Is 230V	•	•	•	•				929000991706
Xitanium 36W WH 0.3-1A 54V TD/Is 230V			•	•	•			929000969906
Xitanium 50W WH 0.7-1.5A 54V TD/Is 230V					•	•	•	929000991806
<b>Fixed Point LED Drivers</b>								
Xitanium 20W WH 0.15-0.5 54V Is	•	•	•	•				929001413906
Xitanium 20W WH 0.15-0.5A 54V S	•	•	•	•				929001416506
Xitanium 36W WH 0.3-1.05A 54V Is			•	•	•			929001414006
Xitanium 36W WH 0.3-1.05A 54V S			•	•	•			929001416606
Xitanium 50W WH 0.7-1.5A 54V Is					•	•	•	929001416806
Xitanium 50W WH 0.7-1.5A 54V S					•	•	•	929001416706
Xitanium 20W/m 0.15-0.5A 54V 230V	•	•	•	•				929001415006
Xitanium 20W/m 0.15-0.5A 48V 230V	•	•	•	•				929000893806
Xitanium 36W/m 0.3-1.05A 54V 230V		•	•	•	•			929001415106
Xitanium 36W/m 0.3-1.05A 48V 230V			•	•	•			929000881806
Xitanium 50W/m 0.7-1.5A 54V 230V					•	•	•	929001415306
Xitanium 50W/m 0.7-1.5A 48V 230V					•	•	•	929000934606
<b>Fixed Peak Point LED Drivers</b>								
Xitanium 16W/m 0.35A 46V SC 230V	•	•	•	•				929001412380
Xitanium 23W/m 0.5A 46V SC 230V	•	•	•	•	•	•	•	929001412480
Xitanium 32W/m 0.7A 46V SC 230V			•	•	•	•	•	929001412680
Xitanium 15W 0.35A 42V I 230V	•	•	•	•				929001410180
Xitanium 21W 0.5A 42V I 230V			•	•				929001410280
Xitanium 32W 0.7/0.75A 42V I 230V G2			•	•	•	•	•	929001418380
Xitanium 44W 1.0/1.05A 42V I 230V G2			•	•	•	•	•	929001418680
CertaDrive 10W 0.25A 40V LPF I 230V	•	•						929001410006
CertaDrive 12W 0.3A 40V LPF I 230V	•	•						929001409506
CertaDrive 15W 0.35A 42V I 230V	•	•	•	•	•			929000898106
CertaDrive 20W 0.5A 40V I 230V	•	•	•	•	•			929000898006
CertaDrive 30W 0.7A 42V I 230V G2			•	•	•	•		929001414280
CertaDrive 34W 0.8A 42V I 230V G2			•	•	•	•		929001414380
CertaDrive 38W 0.9A 42V I 230V G2			•	•	•	•	•	929001414480
CertaDrive 44W 1.05A 42V I 230V G2			•	•	•	•	•	929001414580

\*\* Check the Xitanium indoor point driver portfolio on page 102 for all available drivers with the operating window you need.

\*\* For more & latest combination, please always check the Easy Design-in Tool."

## Fortimo SLM Gen7 Premium Color

Spotlight

Fortimo LED SLM continues to focus on the combination of Quality of Light and performance. By offering the CoB separate from the holder, even more flexibility in possible system combinations and specifications is achieved. This results in an extensive portfolio of lumen ranges, CCT's and spectra's. Please also check the online Easy Design-in Tool for your perfect system combination ([www.easydesigntool.com](http://www.easydesigntool.com)).

## Features

- Optimized Spectrum to give true vivid color
- Covers CoB size from 1203, 1205, 1208, 1211, 1216
- Specific in 930 CCT
- Separation of CoB and holders to increase reactivity and speed improved understandability of the portfolio
- High Tc of up to 95 for simple heat management
- Pre-configured system propositions both in high lm/W and lm/\$
- Large choice of drivers available, including DALI dimming
- Philips standard systems warranty applies

## Benefits

- Together with Premium White to deliver best quality of light for all applications
- Flexibility to optimize luminaire performance
- A reliable & flexible system proposition

## Applications

- Retail
- Industry & Outdoor





## Fortimo SLM holders

Spotlight

Fortimo LED SLM Gen6 CoBs and holders can be ordered separately. This results in even flexibility and an even more extensive product portfolio. Optimized holders are available for spot and downlight applications. For pre-cabled luminaire designs holders with Poke-in connectors can be ordered. Every holder type is available for every CoB size. CoB compatibility is defined by the CoB size. New Zhaga Poke in holder and 35mm Poke in holder are introduced.



Fortimo SLM Holders

### Product specifications

Product type	Type	CoB count	Wire length mm	Wire type mm <sup>2</sup>	LES	Order code 12NC
Fortimo SLM H PI 1215 35 G1	Poke in	1202	N/A	0.3-0.75	L6.5	9290 015 38106
Fortimo SLM H 1619 G1	Standard	1203	600	0.5	L09	9290 009 93580
Fortimo SLM H DL 1619 G1	Down light	1203	600	0.5	L09	9290 009 93680
Fortimo SLM H ZP 1619 G1	Zhaga Poke in	1203	N/A	0.3-0.75	L09	9290 014 51980
Fortimo SLM H PI 1619 G1	Poke in	1203	N/A	0.3-0.75	L09	9290 009 93780
Fortimo SLM H 2024 G1	Standard	1204, 1205, 1208	600	0.5	L13, L15	9290 009 80703
Fortimo SLM H DL 2024 G1	Down light	1204, 1205, 1208	600	0.5	L13, L15	9290 009 80803
Fortimo SLM H ZP 2024 G1	Zhaga Poke in	1204, 1205, 1208	N/A	0.3-0.75	L13, L15	9290 014 52080
Fortimo SLM H PI 2024 G1	Poke in	1204, 1205, 1209	N/A	0.3-0.75	L13, L15	9290 009 80903
Fortimo SLM H 2828 G1	Standard	1211	600	0.5	L19	9290 009 81003
Fortimo SLM H DL 2828 G1	Down light	1211	600	0.5	L19	9290 009 81103
Fortimo SLM H ZP 2828 G1	Zhaga Poke in	1211	N/A	0.3-0.75	L19	9290 014 52180
Fortimo SLM H PI 2828 G1	Poke in	12,111,216	N/A	0.3-0.75	L19,L23	9290 009 81203

## Fortimo SLM EaseSelect Gen1

Spotlight

Quality of light is key in retail lighting. The need for miniaturization is continuously pushing LED technology for smaller luminaires, often jeopardizing important specifications as flicker, lifetime and reliability. Fortimo LED SLM EaseSelect offers an integrated portfolio that combines the high quality standards of a Philips Fortimo/Xitanium system with the possibility for a luminaire design without a driver box.

### Features

- Low flicker (4% ripple)
- Ease of design-in
- System efficacy of up to 115lm/W
- Long life-time: 50,000 hours
- Excellent color consistency of 3 SDCM
- Same LES and holder types as standard SLM Modules (Zhaga)
- Full portfolio with all typical downlight lumen packages (1100lm, 2000lm, 3000lm), different CCTs (Premium White, 4000K) and CRI (80Ra, 90Ra)

### Benefits

- Suitable for compact heat sink designs
- Diameter of 70mm and max 90mm incl. heatsink for up to 3000Lm
- No driver box needed anymore
- Small LES enabling small reflectors even with small beams
- Heatsink part of the solution
- No cabling needed
- No thermal pad hassle with the CoB
- Simple and easy to maintain

### Applications

- Offices
- Public buildings
- Retail



Fortimo SLM EaseSelect Gen1

### Product specifications

Product type	Light output lm	Module power W	Module efficacy lm/W	Color temperature K	Color rendering Ra	Color consistency SDCM	Tc life °C	B50/L70 at Tc Life Hours	Order code 12NC
Fortimo SLM ES 1100 830 PW L09 G1	1190	12.5	95	3000	> 80	3	85	> 50,000	929 001500580
Fortimo SLM ES 1100 840 L09 G1	1190	10.9	109	4000	> 80	3	85	> 50,000	929 001500680
Fortimo SLM ES 1100 930 PW L09 G1	1030	12.3	84	3000	> 90	3	85	> 50,000	929 001500780
Fortimo SLM ES 2000 830 PW L13 G1	2150	21.5	100	3000	> 80	3	85	> 50,000	929 001500880
Fortimo SLM ES 2000 840 L13 G1	2150	18.5	116	4000	> 80	3	85	> 50,000	929 001500980
Fortimo SLM ES 2000 930 PW L13 G1	1880	21.6	87	3000	> 90	3	85	> 50,000	929 001501080
Fortimo SLM ES 3000 830 PW L15 G1	2860	26.5	108	3000	> 80	3	88	> 50,000	929 001501180
Fortimo SLM ES 3000 840 L15 G1	3110	25.9	120	4000	> 80	3	88	> 50,000	929 001501280
Fortimo SLM ES 3000 930 PW L15 G1	2510	26.7	94	3000	> 90	3	88	> 50,000	929 001501380

# CertaFlux SLM Gen1

## Spotlight

Certaflux LED SLM Gen1 is a new CoB family from Philips. This range provides a more affordable CoB solution to customers with wide portfolio, and fully compatible with our Philips Drivers. Please also check the online Easy Design-in Tool for your perfect system combination([www.easydesigntool.com](http://www.easydesigntool.com))

### Features

- Lumen packages from 400lm to 5000lm
- Broad portfolio in terms of CCT 2700K, 3000K, 3500K, 4000K, 5000K and CRI 80, 90 available
- Up to >130lm/W at 85°C Tc
- High Tc of up to 95°C for simple heat management
- Pre-configured system propositions both in high lm/W and lm/S
- Large choice of drivers available, including DALI dimming
- Philips standard systems warranty applies

### Benefits

- Good quality of light for all applications
- Flexibility to optimize luminaire performance
- A reliable and flexible system proposition

### Applications

- Retail
- Hospitality
- Office



### Product specifications

Product type	Light output	Module power	Module efficacy	Color temperature	Color rendering	Color consistency	Tc max	B50/L70 at Tc Life	Order code
	lm	W	lm/W	K	Ra	SDCM	(°C)	Hours	12NC
CertaFlux SLM C 827 1201 L06 1313 G1	413	3.4	120	2700	> 80	3	85	> 50,000	929001438480
CertaFlux SLM C 830 1201 L06 1313 G1	433	3.4	126	3000	> 80	3	85	> 50,000	929001438580
CertaFlux SLM C 835 1201 L06 1313 G1	441	3.4	129	3500	> 80	3	85	> 50,000	929001438680
CertaFlux SLM C 840 1201 L06 1313 G1	450	3.4	131	4000	> 80	3	85	> 50,000	929001438780
CertaFlux SLM C 860 1201 L06 1313 G1	450	3.4	131	6000	80	3	85	>50,000	929001472306
CertaFlux SLM C 850 1201 L06 1313 G1	450	3.4	131	5000	> 80	3	85	> 50,000	929001438880
CertaFlux SLM C 927 1201 L06 1313 G1	342	3.4	100	2700	> 90	3	85	> 50,000	929001438980
CertaFlux SLM C 930 1201 L06 1313 G1	359	3.4	105	3000	> 90	3	85	> 50,000	929001439080
CertaFlux SLM C 935 1201 L06 1313 G1	377	3.4	110	3500	> 90	3	85	> 50,000	929001439180
CertaFlux SLM C 940 1201 L06 1313 G1	385	3.4	112	4000	> 90	3	85	> 50,000	929001439280
CertaFlux SLM C 827 1202 L09 1515 G1	850	6.9	124	2700	> 80	3	85	> 50,000	929001439380
CertaFlux SLM C 830 1202 L09 1515 G1	889	6.9	129	3000	> 80	3	85	> 50,000	929001439480
CertaFlux SLM C 835 1202 L09 1515 G1	907	6.9	132	3500	> 80	3	85	> 50,000	929001439580
CertaFlux SLM C 840 1202 L09 1515 G1	925	6.9	134	4000	> 80	3	85	> 50,000	929001439680
CertaFlux SLM C 850 1202 L09 1515 G1	925	6.9	134	5000	> 80	3	85	> 50,000	929001439780
CertaFlux SLM C 860 1202 L09 1515 G1	925	6.9	134	6000	80	3	85	>50,000	929001472406
CertaFlux SLM C 927 1202 L09 1515 G1	702	6.9	102	2700	> 90	3	85	> 50,000	929001439880
CertaFlux SLM C 930 1202 L09 1515 G1	738	6.9	107	3000	> 90	3	85	> 50,000	929001439980
CertaFlux SLM C 935 1202 L09 1515 G1	773	6.9	113	3500	> 90	3	85	> 50,000	929001440080
CertaFlux SLM C 940 1202 L09 1515 G1	790	6.9	115	4000	> 90	3	85	> 50,000	929001440180

### Product specifications

Product type	Light output	Module power	Module efficacy	Color temperature	Color rendering	Color consistency	Tc max	B50/L70 at Tc Life	Order code
	lm	W	lm/W	K	Ra	SDCM	(°C)	Hours	12NC
CertaFlux SLM C 827 1203 L09 1515 G1	1428	12.2	117	2700	> 80	3	85	> 50,000	929001440280
CertaFlux SLM C 830 1203 L09 1515 G1	1496	12.2	123	3000	> 80	3	85	> 50,000	929001440380
CertaFlux SLM C 835 1203 L09 1515 G1	1525	12.2	125	3500	> 80	3	85	> 50,000	929001440480
CertaFlux SLM C 840 1203 L09 1515 G1	1554	12.2	128	4000	> 80	3	85	> 50,000	929001440580
CertaFlux SLM C 850 1203 L09 1515 G1	1554	12.2	128	5000	> 80	3	85	> 50,000	929001440680
CertaFlux SLM C 860 1203 L09 1515 G1	1556	12.1	128	6000	80	3	85	>50,000	929001472506
CertaFlux SLM C 927 1203 L09 1515 G1	1181	12.2	97	2700	> 90	3	85	> 50,000	929001440780
CertaFlux SLM C 930 1203 L09 1515 G1	1241	12.2	102	3000	> 90	3	85	> 50,000	929001440880
CertaFlux SLM C 935 1203 L09 1515 G1	1302	12.2	107	3500	> 90	3	85	> 50,000	929001440980
CertaFlux SLM C 940 1203 L09 1515 G1	1331	12.2	109	4000	> 90	3	85	> 50,000	929001441080
CertaFlux SLM C 827 1204 L12 1818 G1	1915	15.6	123	2700	80	3	85	>50,000	929001472906
CertaFlux SLM C 830 1204 L12 1818 G1	2016	15.6	129	3000	> 80	3	85	> 50,000	929001441180
CertaFlux SLM C 835 1204 L12 1818 G1	2055	15.6	132	3500	> 80	3	85	> 50,000	929001441280
CertaFlux SLM C 840 1204 L12 1818 G1	2096	15.6	135	4000	> 80	3	85	> 50,000	929001441380
CertaFlux SLM C 850 1204 L12 1818 G1	2096	15.6	135	5000	> 80	3	85	> 50,000	929001441480
CertaFlux SLM C 860 1204 L12 1818 G1	2096	15.6	135	6000	80	3	85	>50,000	929001472606
CertaFlux SLM C 930 1204 L12 1818 G1	1672	15.6	107	3000	> 90	3	85	> 50,000	929001441580
CertaFlux SLM C 935 1204 L12 1818 G1	1754	15.6	113	3500	> 90	3	85	> 50,000	929001441680
CertaFlux SLM C 940 1204 L12 1818 G1	1795	15.6	115	4000	> 90	3	85	> 50,000	929001441780
CertaFlux SLM C 827 1205 L12 1818 G1	2354	19.0	124	2700	80	3	85	>50,000	929001473006
CertaFlux SLM C 830 1205 L12 1818 G1	2478	20.7	130	3000	> 80	3	85	> 50,000	929001441880
CertaFlux SLM C 835 1205 L12 1818 G1	2528	20.7	133	3500	> 80	3	85	> 50,000	929001441980
CertaFlux SLM C 840 1205 L12 1818 G1	2577	20.7	135	4000	> 80	3	85	> 50,000	929001442080
CertaFlux SLM C 850 1205 L12 1818 G1	2577	20.7	135	5000	> 80	3	85	> 50,000	929001442180
CertaFlux SLM C 860 1205 L12 1818 G1	2578	19.0	135	6000	80	3	85	>50,000	929001472706
CertaFlux SLM C 927 1205 L12 1818 G1	2008	19.0	106	2700	90	3	85	>50,000	929001473306
CertaFlux SLM C 930 1205 L12 1818 G1	2056	20.7	108	3000	> 90	3	85	> 50,000	929001442280
CertaFlux SLM C 935 1205 L12 1818 G1	2156	20.7	113	3500	> 90	3	85	> 50,000	929001442380
CertaFlux SLM C 940 1205 L12 1818 G1	2205	20.7	116	4000	> 90	3	85	> 50,000	929001442480
CertaFlux SLM C 950 1205 L12 1818 G1	2231	19.0	117	5000	90	3	85	>50,000	929001473506
CertaFlux SLM C 827 1208 L14 1818 G1	3496	27.5	127	2700	80	3	85	>50,000	929001473106
CertaFlux SLM C 830 1208 L14 1818 G1	3680	29.9	134	3000	> 80	3	85	> 50,000	929001442580
CertaFlux SLM C 835 1208 L14 1818 G1	3753	29.9	136	3500	> 80	3	85	> 50,000	929001442680
CertaFlux SLM C 840 1208 L14 1818 G1	3827	29.9	139	4000	> 80	3	85	> 50,000	929001442780
CertaFlux SLM C 850 1208 L14 1818 G1	3827	29.9	139	5000	> 80	3	85	> 50,000	929001442880
CertaFlux SLM C 860 1208 L14 1818 G1	3827	27.5	139	6000	80	3	85	>50,000	929001472806
CertaFlux SLM C 927 1208 L14 1818 G1	2981	27.5	108	2700	90	3	85	>50,000	929001473406
CertaFlux SLM C 930 1208 L14 1818 G1	3054	29.9	111	3000	> 90	3	85	> 50,000	929001442980
CertaFlux SLM C 935 1208 L14 1818 G1	3201	29.9	116	3500	> 90	3	85	> 50,000	929001443080
CertaFlux SLM C 940 1208 L14 1818 G1	3276	29.9	119	4000	> 90	3	85	> 50,000	929001443180
CertaFlux SLM C 950 1208 L14 1818 G1	3312	27.5	120	5000	90	3	85	>50,000	929001473606

\* Module efficacy is calculated for the typical lm output. For more detailed and latest specifications (including lifetime) please always check the datasheets online or the Easy Design-in Tool.



### Compatible LED Drivers

The Fortimo LED SLM portfolio is compatible with multiple Xitanium LED drivers. Xitanium LED drivers are available as a built-in or independent driver, dimmable or with a fixed output. For a detailed overview of all available Xitanium indoor point drivers, please go to the Xitanium indoor point driver section at pages 126-134. To find the best driver module combination for your application, the Easy Design-in Tool is available via [philips.com/technology](http://philips.com/technology). Below table shows which Xitanium LED driver window is compatible by default with Fortimo LED SLM.

#### Product specifications

Product type	CoB						Order code 12NC
	1201	1202	1203	1204	1205	1208	
Xitanium 10W/m 0.35A 30V SC 230V		•	•	•			929001412280
Xitanium 16W/m 0.35A 46V SC 230V		•	•	•			929001412380
Xitanium 23W/m 0.5A 46V SC 230V			•	•	•		929001412480
Xitanium 28W/m 0.6A 46V SC 230V			•	•	•	•	929001418706
Xitanium 32W/m 0.7A 46V SC 230V				•	•	•	929001412680
Xitanium 20 W/m 0.15-0.5 A 48 V 230 V	•	•	•				929000893806
Xitanium 36W/m 0.3-1.05A 48V 230V			•	•	•	•	929000881806
Xitanium 15W 0.35A 42V I 230V	•	•	•				929001410180
Xitanium 21W 0.5A 42V I 230V			•	•	•		929001410280
Xitanium 27W 0.6/0.65A 42V I 230V G2			•	•	•	•	929001418280
Xitanium 32W 0.7/0.75A 42V I 230V G2				•	•	•	929001418380
Xitanium 36W 0.8/0.85A 42V I 230V G2				•	•	•	929001418580
Xitanium 40W 0.9/0.95A 42V I 230V G2						•	929001419380
Xitanium 44W 1.0 1.05A 42V I 230V G2						•	929001418680
CertaDrive 6W 0.15A 40V LPF I 230V	•	•					929001411780
CertaDrive 8W 0.2A 40V I 230V CN		•					929000956080
CertaDrive 8W 0.2A 40V LPF I 230V		•					929001409980
CertaDrive 10W 0.25A 40V I 230V CN		•	•				929000956180
CertaDrive 10W 0.25A 40V LPF I 230V		•	•				929001410006
CertaDrive 12W 0.3A 40V 230V CN		•	•				929000953580
CertaDrive 12W 0.3A 40V LPF I 230V		•	•				929001409506
CertaDrive 15W 0.35A 42V I 230V			•	•			929000898106
CertaDrive 20W 0.5A 40V I 230V			•	•			929000898006
CertaDrive 25W 0.6A 42V I 230V G2				•	•	•	929001414180
CertaDrive 30W 0.7A 42V I 230V G2				•	•	•	929001414280
CertaDrive 34W 0.8A 42V I 230V G2					•	•	929001414380
CertaDrive 38W 0.9A 42V I 230V G2					•	•	929001414480
CertaDrive 44W 1.05A 42V I 230V G2						•	929001414580

\* Check the indoor point driver portfolio on page 102 for all available drivers with the operating window you need.

\*\* For more and latest combination, please always check the Easy Design-in Tool.

## CertaFlux SLM holders

Spotlight

Certaflux SLM holders will further enhance easy design for our certaflux SLM CoB family. Optimized and compacted designed holders with reliable performance can enhance more flexible design. It also provides upto 3 year warranty with Certaflux SLM CoB + Holders.



#### Product specifications

Product type	Type	CoB count	LES	Diameter mm	Order code 12NC
Certaflux SLM H PI 1313	Poke in	1201	L06	30	929001431680
Certaflux SLM H PI 1515	Poke in	1202/1203	L09	32	929001431780
Certaflux SLM H PI 1818	Poke in	1204/1205/1208	L12/L14	35	929001431880
Certaflux SLM H 1818	Wiring	1204/1205/1208	L12/L14	35	929001431980

# Retail Display Lighting

**Lighting products, brightening faces.**  
Ultimate shopping experience.







With the  
**premium**  
light quality

Retail

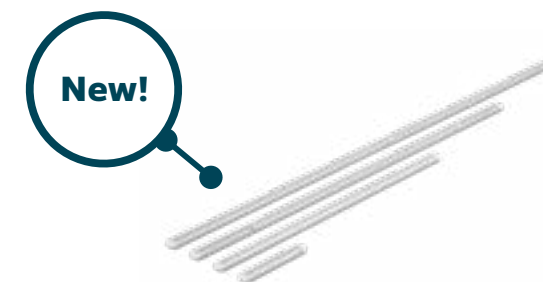
## InteGrade LED System Gen3 - Premium White Range

The InteGrade LED system gen 3 has been designed for ultimate product attractiveness through a combination of a superior light quality, best light distribution and state-of-art efficacy. This range offers two color range: premium white color range and standard color range.

Premium white color range offers an optimized color spectrum enabling enhanced white performance and astonishing lively rich colors for superior visual display of the merchandize with typical CRI 93 while providing an outstanding efficacy up to 125 lm/W to enable lower power consumption. Standard color range enables product colors look natural by means of its specially formulated CRI 90 LEDs, including the food version featuring a single color line of light.

The third generation of the very successful InteGrade range includes the brand new canopy version featuring a slim and miniaturized design with a breakthrough optical design enabling a perfect uniform light distribution in the chillers. Furthermore new InteGrade engine and fixture narrow beam vision provides higher lumen levels and yet maintaining its slim design suitable for aesthetic integration in the applications like chiller doors, where there is no room to place a sizable lighting solution. What is more exciting is InteGrade high flux is available also in premium white to combine the best of both worlds: high flux with premium white takes the product visibility and product attractiveness to the ultimate level, and stimulates the desire to buy.

Moreover an ultimate shopping experience can be created by the combination of the InteGrade LED system premium white and already available premium white spot lighting solutions enabling one look and feel in the store. InteGrade LED engines have been designed to match the most common application lengths, reducing the number of components needed per installation; yet maintaining the outstanding flexibility that its modular approach offers, enabling the creation of odd size lighting solutions to match every project specification. Thanks to a range of engine lengths, fixtures, accessories like mounting profiles, mounting clips, power cables, and Philips constant voltage LED drivers the InteGrade LED system gen 3 offers maximum design flexibility and plug and play simplicity to enable a vast variety of innovative systems with style, modernity and functionality according the needs of the stores.



The key need of food and fashion retailers is to make merchandise shine at the point-of-purchase while consuming less power. That's why we have developed our InteGrade LED system gen 3 portfolio that bring unrivaled product visibility, attractiveness and efficiency.



### Premium light quality, throughout the store

Our new InteGrade gen 3 family offers you superior visual display with best-in-class efficiency. And you can lower energy costs at the same time. We offer two color range: Premium white color range and standard color range. Premium white color lights up shoppers' desire with an optimized color spectrum for enhanced white performance and astonishingly lively rich color with typical CRI 93 while providing an outstanding efficacy up to 125 lm/W to enable lower power consumption. Combined with our premium white spotlighting solutions the InteGrade LED system premium white gen 3 enables you to create a single look and feel for the whole store, for the ultimate shopping experience.

Standard color range enables product colors look natural by means of its specially formulated CRI 90 LEDs, including the food version featuring a single color line of light.

Also great news: InteGrade high flux family, with its breathtaking performance. Its exceptional uniform light distribution brings the light right down to the lowest shelf. The bright, high-quality light displays products more attractively even when behind a glass door. Its miniaturized design means the light source itself is placed out of sight, which further maximizes attention on the products. InteGrade high flux is now available in premium white to combine the best of both worlds.

### Maximum design flexibility

We offer you maximum design flexibility thanks to a range of engine lengths, color temperatures, accessories and Philips constant voltage LED drivers. The modular components fit together easily to simplify design-in and ensure hassle-free installation.

### Suitable for Retail

For shelf lighting

#### Product specifications

Product type	Power consumption	Lumen	Color rendering index	Correlated color temperature*	Order code
	W (typical ± 20%)	lm (typical ± 20%)	K	min. CRI	GPC
<b>InteGrade Engine Value Premium White Gen 3</b>					
InteGrade engine Va 140mm 930 PW G3	0.8	85	93	3000	929001567506
InteGrade engine Va 575mm 930 PW G3	3.4	380	93	3000	929001567606
InteGrade engine Va 855mm 930 PW G3	4.9	550	93	3000	929001567706
InteGrade engine Va 1150mm 930 PW G3	6.7	760	93	3000	929001567806
InteGrade engine Va 140mm 940 PW G3	0.8	90	93	4000	929001567906
InteGrade engine Va 575mm 940 PW G3	3.4	420	93	4000	929001568006
InteGrade engine Va 855mm 940 PW G3	4.9	600	93	4000	929001568106
InteGrade engine Va 1150mm 940 PW G3	6.7	840	93	4000	929001568206
<b>InteGrade Engine Vision Premium White Gen 3</b>					
InteGrade engine Vi 140mm 930 PW G3	1.6	170	93	3000	929001568306
InteGrade engine Vi 575mm 930 PW G3	6.9	750	93	3000	929001568406
InteGrade engine Vi 855mm 930 PW G3	10.1	1090	93	3000	929001568506
InteGrade engine Vi 1150mm 930 PW G3	13.8	1500	93	3000	929001568606
InteGrade engine Vi 140mm 940 PW G3	1.6	180	93	4000	929001568706
InteGrade engine Vi 575mm 940 PW G3	6.9	800	93	4000	929001568806
InteGrade engine Vi 855mm 940 PW G3	10.1	1160	93	4000	929001568906
InteGrade engine Vi 1150mm 940 PW G3	13.8	1600	93	4000	929001569006

\* Correlated color temperature within 5 SDCM range



## For canopy lighting

## Product specifications

Product type	Power consumption	Lumen	Color rendering index	Correlated color temperature*	Order code
	W (typical ± 20%)	lm (typical ± 20%)	K	min. CRI	GPC
<b>InteGrade Engine Uniform Beam Value Premium White Gen 3</b>					
InteGrade engine UB Va 855mm 930 PW G3	9.6	940	93	3000	929001626606
InteGrade engine UB Va 1150mm 930 PW G3	12.8	1250	93	3000	929001626806
InteGrade engine UB Va 855mm 940 PW G3	9.6	1025	93	4000	929001626706
InteGrade engine UB Va 1150mm 940 PW G3	12.8	1350	93	4000	929001626906
<b>InteGrade Engine Uniform Beam Vision Premium White Gen 3</b>					
InteGrade engine UB Vi 140mm 930 PW G3	2.5	250	93	3000	929001572506
InteGrade engine UB Vi 575mm 930 PW G3	10	1000	93	3000	929001569706
InteGrade engine UB Vi 855mm 930 PW G3	15	1500	93	3000	929001569806
InteGrade engine UB Vi 1150mm 930 PW G3	20	2000	93	3000	929001569906
InteGrade engine UB Vi 140mm 940 PW G3	2.5	280	93	4000	929001572606
InteGrade engine UB Vi 575mm 940 PW G3	10	1100	93	4000	929001570006
InteGrade engine UB Vi 855mm 940 PW G3	15	1650	93	4000	929001570106
InteGrade engine UB Vi 1150mm 940 PW G3	20	2200	93	4000	929001570206

\* Correlated color temperature within 5 SDCM range

## For chillers with doors

## Product specifications

Product type	Power consumption	Lumen	Color rendering index	Correlated color temperature*	Order code
	W (typical ± 20%)	lm (typical ± 20%)	K	min. CRI	GPC
<b>InteGrade Engine Narrow Beam Value Premium White Gen 3</b>					
InteGrade engine NB Va 140mm 930 PW G3	1	115	93	3000	929001569106
InteGrade engine NB Va 575mm 930 PW G3	4.5	500	93	3000	929001569206
InteGrade engine NB Va 1430mm 930 PW G3	11	1230	93	3000	929001569306
InteGrade engine NB Va 140mm 940 PW G3	1	120	93	4000	929001569406
InteGrade engine NB Va 575mm 940 PW G3	4.5	530	93	4000	929001569506
InteGrade engine NB Va 1430mm 940 PW G3	11	1300	93	4000	929001569606
<b>InteGrade Engine Narrow Beam Vision Premium White Gen 3</b>					
InteGrade engine NB Vi 140mm 930 PW G3	2.7	280	93	3000	929001605406
InteGrade engine NB Vi 1430mm 930 PW G3	27.2	2850	93	3000	929001571706
InteGrade engine NB Vi 140mm 940 PW G3	2.7	300	93	4000	929001605506
InteGrade engine NB Vi 1430mm 940 PW G3	27.2	3100	93	4000	929001571806
<b>InteGrade Fixture Narrow Beam Value Premium White Gen 3</b>					
InteGrade F NB Va 1500mm 930 PW SD G3	11	1230	93	3000	929001572006
InteGrade F NB Va 1500mm 930 PW CTR G3	22	2460	93	3000	929001572106
InteGrade F NB Va 1500mm 940 PW SD G3	11	1300	93	4000	929001572206
InteGrade F NB Va 1500mm 940 PW CTR G3	22	2600	93	4000	929001572306
<b>InteGrade Fixture Narrow Beam Vision Premium White Gen 3</b>					
InteGrade F NB Vi 1500mm 930 PW SD G3	26.2	2850	93	3000	929001570306
InteGrade F NB Vi 1500mm 930 PW CTR G3	52.4	5700	93	3000	929001570406
InteGrade F NB Vi 1500mm 940 PW SD G3	26.3	3100	93	4000	929001570506
InteGrade F NB Vi 1500mm 940 PW CTR G3	52.6	6200	93	4000	929001570606

\* Correlated color temperature within 5 SDCM range

## For canopy and chillers with doors

## Product specifications

Product type	Power consumption	Lumen	Color rendering index	Correlated color temperature*	Order code
	W (typical ± 20%)	lm (typical ± 20%)	K	min. CRI	GPC
<b>InteGrade Engine High Flux Value Premium White Gen 3</b>					
InteGrade engine HF 140mm 930 PW G3	4.4	400	93	3000	929001605606
InteGrade engine HF 575mm 930 PW G3	17.5	1575	93	3000	929001605706
InteGrade engine HF 1150mm 930 PW G3	34.9	3150	93	3000	929001605806
InteGrade engine HF 140mm 940 PW G3	4	400	93	4000	929001605906
InteGrade engine HF 575mm 940 PW G3	16.1	1575	93	4000	929001606006
InteGrade engine HF 1150mm 940 PW G3	32.2	3150	93	4000	929001606106

\* Correlated color temperature within 5 SDCM range

Note: InteGrade high flux engines are not standalone engines and they might need to be integrated with a heatsink for thermal management and to achieve 50 khrs lifetime.

## Constant voltage drivers

## Product specifications

Product	Order code GPC
LED Power driver 20W 24V	929000654006
LED Power driver 80W 24V	929000653906
LED Power driver 100W 24V 100/240V	929001430080
LED Power Driver 75W - 24V PP ItG-N plug*	929000869613
Xitanium 77W 100-277V 3.2A XI077C32OV024FNS1M *	929001708113
Xitanium 100W 100-277V 4.1A XI100C41OV024FNS1M*	929000771913
LED driver outdoor 100W 100-240V 24V**	929000485303

\* Only for NAM region

\*\* Only for Japan

## Accessories

## Product specifications

Product	Order code GPC
<b>Clips</b>	
InteGrade mounting clip shelf arm V2	929000957806
InteGrade engine clip shelf arm G2	929001516006
InteGrade engine mounting clip G2	929001516106
InteGrade mounting clip under shelf	929000643903
InteGrade engine clip magnetic	929001624606
InteGrade mounting clip canopy	929001571106
InteGrade engine clip mullion side	929001624506
InteGrade engine clip mullion center	929001624406
InteGrade mounting clip for T style prof	929000853213
<b>Profiles</b>	
InteGrade profile 875mm(34")	929000643413
InteGrade profile 1175mm(46")	929000643313
InteGrade profile 2000mm(79")	929000654413
InteGrade profile 2000mm(79") F style	929000654313
InteGrade profile 2000mm(79") L style	929000654513
InteGrade prof 2000mm(79") T style CTR	929000853013
InteGrade profile 2000mm(79") T style SD	929000853113
InteGrade profile 2356mm (93") M style	929000871313

## Accessories

## Product specifications

Product	Order code GPC
<b>Power cables - to connect engine to driver</b>	
InteGrade power cable 0.7m white	929001625306
InteGrade power cable 1m(39") black	929000641014
InteGrade power cable 2.5m(98") black	929000641114
InteGrade cable 1m(39") black angle	929000644614
InteGrade cable 2.5m(98") black angle	929000644814
InteGrade power cable 1m(39") white	929000645614
InteGrade power cable 1.85m white	929001625206
InteGrade power cable 2.5m(98") white	929000644514
InteGrade cable 1m(39") white angle	929000644714
InteGrade cable 2.5m(98") white angle	929000644914
InteGrade power cable 3m black angle	929001650106
InteGrade power cable 6m white	929001624806
InteGrade spacer cable 113mm white	929001625106
InteGrade spacer cable 0.3m black	929001625006
InteGrade spacer cable 0.5m black	929000645014
InteGrade spacer cable 0.5m white	929000645114
InteGrade spacer cable M 0.7m 5.5c black	929001624706
InteGrade extension cab 1.5m(59")black	929000874413
InteGrade Y cable black	929000874313
<b>Other accessories</b>	
InteGrade engine lock inline	929000643713
InteGrade connector	929000959106
InteGrade magnet for M style profile	929000871413
InteGrade rotational bracket	929000874613



# InteGrade LED System Gen3 – Standard Color Range

Retail

The InteGrade LED system gen 3 has been designed for ultimate product attractiveness through a combination of a superior light quality, best light distribution and state-of-art efficacy. This range offers two color range: premium white color range and standard color range.

Premium white color range offers an optimized color spectrum enabling enhanced white performance and astonishing lively rich colors for superior visual display of the merchandize with typical CRI 93 while providing an outstanding efficacy up to 125 lm/W to enable lower power consumption. Standard color range enables product colors look natural by means of its specially formulated CRI 90 LEDs, including the food version featuring a single color line of light.

The third generation of the very successful InteGrade range includes the brand new canopy version featuring a slim and miniaturized design with a breakthrough optical design enabling a perfect uniform light distribution in the chillers. Furthermore new InteGrade engine and fixture narrow beam vision provides higher lumen levels and yet maintaining its slim design suitable for aesthetic integration in the applications like chiller doors, where there is no room to place a sizable lighting solution.

InteGrade LED engines have been designed to match the most common application lengths, reducing the number of components needed per installation; yet maintaining the outstanding flexibility that its modular approach offers, enabling the creation of odd size lighting solutions to match every project specification. Thanks to a range of engine lengths, fixtures, accessories like mounting profiles, mounting clips, power cables, and Philips constant voltage LED drivers the InteGrade LED system gen 3 offers maximum design flexibility and plug and play simplicity to enable a vast variety of innovative systems with style, modernity and functionality according the needs of the stores.



For shelf lighting

## Product specifications

Product type	Power consumption	Lumen	Color rendering index	Correlated color temperature*	Order code
	W (typical ± 20%)	lm (typical ± 20%)	K	min. CRI	GPC
<b>InteGrade Engine Value Gen 3</b>					
InteGrade engine Va 140mm 930 G3	0.9	85	90	3000	929001574606
InteGrade engine Va 575mm 930 G3	3.9	380	90	3000	929001574706
InteGrade engine Va 855mm 930 G3	5.7	550	90	3000	929001574806
InteGrade engine Va 1150mm 930 G3	7.8	760	90	3000	929001574906
InteGrade engine Va 140mm 935 G3	0.8	80	90	3500	929001641006
InteGrade engine Va 575mm 935 G3	3.6	355	90	3500	929001641106
InteGrade engine Va 855mm 935 G3	5.2	510	90	3500	929001641206
InteGrade engine Va 1150mm 935 G3	7.2	710	90	3500	929001641306
InteGrade engine Va 140mm 940 G3	0.9	90	90	4000	929001575006
InteGrade engine Va 575mm 940 G3	3.9	420	90	4000	929001575106
InteGrade engine Va 855mm 940 G3	5.7	600	90	4000	929001575206
InteGrade engine Va 1150mm 940 G3	7.8	840	90	4000	929001575306
InteGrade engine Va 140mm 956 G3	1	105	90	5600	929001617906
InteGrade engine Va 575mm 956 G3	3.9	420	90	5600	929001618006
InteGrade engine Va 855mm 956 G3	5.8	630	90	5600	929001618106
InteGrade engine Va 1150mm 956 G3	7.8	840	90	5600	929001618206
InteGrade engine Va 140mm WWR G3	0.7	70	90		929001575406
InteGrade engine Va 575mm WWR G3	3.2	310	90		929001575506
InteGrade engine Va 855mm WWR G3	4.7	450	90		929001575606
InteGrade engine Va 1150mm WWR G3	6.4	620	90		929001575706

\* Correlated color temperature within 5 SDCM range

For shelf lighting

## Product specifications

Product type	Power consumption	Lumen	Color rendering index	Correlated color temperature*	Order code
	W (typical ± 20%)	lm (typical ± 20%)	K	min. CRI	GPC
<b>InteGrade Engine Vision Gen 3</b>					
InteGrade engine Vi 140mm 930 G3	1.7	170	90	3000	929001575806
InteGrade engine Vi 575mm 930 G3	7.3	750	90	3000	929001575906
InteGrade engine Vi 855mm 930 G3	10.7	1090	90	3000	929001576006
InteGrade engine Vi 1150mm 930 G3	14.6	1500	90	3000	929001576106
InteGrade engine Vi 140mm 935 G3	1.6	155	90	3500	929001641406
InteGrade engine Vi 575mm 935 G3	6.9	680	90	3500	929001641506
InteGrade engine Vi 855mm 935 G3	10.1	990	90	3500	929001641606
InteGrade engine Vi 1150mm 935 G3	13.8	1365	90	3500	929001641706
InteGrade engine Vi 140mm 940 G3	1.7	180	90	4000	929001576206
InteGrade engine Vi 575mm 940 G3	7.3	800	90	4000	929001576306
InteGrade engine Vi 855mm 940 G3	10.7	1160	90	4000	929001576406
InteGrade engine Vi 1150mm 940 G3	14.6	1600	90	4000	929001576506
InteGrade engine Vi 140mm 956 G3	1.9	200	90	5600	929001618306
InteGrade engine Vi 575mm 956 G3	7.4	800	90	5600	929001618406
InteGrade engine Vi 855mm 956 G3	11.1	1200	90	5600	929001618506
InteGrade engine Vi 1150mm 956 G3	14.9	1600	90	5600	929001618606
InteGrade engine Vi 140mm WWR G3	1.5	150	90		929001576606
InteGrade engine Vi 575mm WWR G3	6.6	650	90		929001576706
InteGrade engine Vi 855mm WWR G3	9.7	950	90		929001576806
InteGrade engine Vi 1150mm WWR G3	13.2	1300	90		929001576906
InteGrade engine Vi HL 140mm 935 G3**	2.4	240	90	3500	929001651506
InteGrade engine Vi HL 575mm 935 G3**	9.6	950	90	3500	929001651606
InteGrade engine Vi HL 855mm 935 G3**	14.4	1425	90	3500	929001651706
InteGrade engine Vi HL 1150mm 935 G3**	19.2	1875	90	3500	929001651806

\* Correlated color temperature within 5 SDCM range  
Only fo NAM region

## Suitable for Retail

For canopy lighting

## Product specifications

Product type	Power consumption	Lumen	Color rendering index	Correlated color temperature*	Order code
	W (typical ± 20%)	lm (typical ± 20%)	K	min. CRI	GPC
<b>InteGrade Engine Uniform Beam Value Gen 3</b>					
InteGrade engine UB Va 855mm 930 G3	9.4	890	90	3000	929001603706
InteGrade engine UB Va 1150mm 930 G3	13	1200	90	3000	929001603806
InteGrade engine UB Va 855mm 940 G3	9.4	970	90	4000	929001603906
InteGrade engine UB Va 1150mm 940 G3	13	1300	90	4000	929001604006
InteGrade engine UB Va 855mm WWR G3	7.9	700	90		929001604106
InteGrade engine UB Va 1150mm WWR G3	11	900	90		929001604206

\* Correlated color temperature within 5 SDCM range



### Suitable for Retail

For canopy lighting

#### Product specifications

Product type	Power consumption	Lumen	Color rendering index	Correlated color temperature*	Order code
	W (typical ± 20%)	lm (typical ± 20%)	K	min. CRI	GPC
<b>InteGrade Engine Uniform Beam Vision Gen 3</b>					
InteGrade engine UB Vi 140mm 930 G3	2.6	240	90	3000	929001578506
InteGrade engine UB Vi 575mm 930 G3	10	950	90	3000	929001578606
InteGrade engine UB Vi 855mm 930 G3	15	1450	90	3000	929001578706
InteGrade engine UB Vi 1150mm 930 G3	20	1950	90	3000	929001578806
InteGrade engine UB Vi 140mm 935 G3	2.4	245	90	3500	929001642106
InteGrade engine UB Vi 575mm 935 G3	9.6	990	90	3500	929001642006
InteGrade engine UB Vi 855mm 935 G3	14.4	1500	90	3500	929001641906
InteGrade engine UB Vi 1150mm 935 G3	19.2	1975	90	3500	929001641806
InteGrade engine UB Vi 140mm 940 G3	2.6	260	90	4000	929001578906
InteGrade engine UB Vi 575mm 940 G3	10	1050	90	4000	929001579006
InteGrade engine UB Vi 855mm 940 G3	15	1600	90	4000	929001579106
InteGrade engine UB Vi 1150mm 940 G3	20	2100	90	4000	929001579206
InteGrade engine UB Vi 140mm WWR G3	1.9	175	90		929001579306
InteGrade engine UB Vi 575mm WWR G3	7.5	700	90		929001579406
InteGrade engine UB Vi 855mm WWR G3	11	1050	90		929001579506
InteGrade engine UB Vi 1150mm WWR G3	15	1400	90		929001579606

\* Correlated color temperature within 5 SDCM range

For chillers with doors

#### Product specifications

Product type	Power consumption	Lumen	Color rendering index	Correlated color temperature*	Order code
	W (typical ± 20%)	lm (typical ± 20%)	K	min. CRI	GPC
<b>InteGrade Engine Narrow Beam Value Gen 3</b>					
InteGrade engine NB Va 140mm 930 G3	1.2	125	90	3000	929001577006
InteGrade engine NB Va 575mm 930 G3	4.8	500	90	3000	929001577106
InteGrade engine NB Va 1430mm 930 G3	11.9	1230	90	3000	929001577206
InteGrade engine NB Va 140mm 940 G3	1.2	130	90	4000	929001577306
InteGrade engine NB Va 575mm 940 G3	4.8	530	90	4000	929001577406
InteGrade engine NB Va 1430mm 940 G3	11.9	1300	90	4000	929001577506
InteGrade engine NB Va 140mm 956 G3	1.1	120	90	5600	929001618706
InteGrade engine NB Va 575mm 956 G3	4.3	480	90	5600	929001618806
InteGrade engine NB Va 1430mm 956 G3	10.7	1200	90	5600	929001618906
InteGrade engine NB Va 140mm WWR G3	1.3	125	90		929001577606
InteGrade engine NB Va 575mm WWR G3	5.1	500	90		929001577706
InteGrade engine NB Va 1430mm WWR G3	12.7	1230	90		929001577806
<b>InteGrade Engine Narrow Beam Vision Gen 3</b>					
InteGrade engine NB Vi 140mm 930 G3	2.7	260	90	3000	929001605106
InteGrade engine NB Vi 1430mm 930 G3	27.3	2600	90	3000	929001580306
InteGrade engine NB Vi 140mm 940 G3	2.7	280	90	4000	929001605206
InteGrade engine NB Vi 1430mm 940 G3	27.3	2800	90	4000	929001580406
InteGrade engine NB Vi 140mm WWR G3	2.7	260	90		929001605306
InteGrade engine NB Vi 1430mm WWR G3	26.6	2600	90		929001580506
<b>InteGrade Fixture Narrow Beam Value Gen 3</b>					
InteGrade F NB Va 1500mm 930 SD G3	11.7	1230	90	3000	929001577906
InteGrade F NB Va 1500mm 930 CTR G3	23.4	2460	90	3000	929001578006
InteGrade F NB Va 1500mm 940 SD G3	11.7	1300	90	4000	929001578106
InteGrade F NB Va 1500mm 940 CTR G3	23.4	2600	90	4000	929001578206
InteGrade F NB Va 1500mm 956 SD G3	10.7	1200	90	5600	929001619006
InteGrade F NB Va 1500mm 956 CTR G3	21.3	2400	90	5600	929001619106





## For chillers with doors

## Product specifications

Product type	Power consumption	Lumen	Color rendering index	Correlated color temperature*	Order code
	W (typical ± 20%)	lm (typical ± 20%)	K	min. CRI	GPC
<b>InteGrade Fixture Narrow Beam Value Gen 3</b>					
InteGrade F NB Va 1500mm WWR SD G3	12.7	1230	90		929001578306
InteGrade F NB Va 1500mm WWR CTR G3	25.5	2460	90		929001578406
InteGrade F NB Va 1500mm WWR SD G3	12.7	1230	90		929001578306
InteGrade F NB Va 1500mm WWR CTR G3	25.5	2460	90		929001578406
<b>InteGrade Fixture Narrow Beam Vision Gen 3</b>					
InteGrade F NB Vi 1500mm 930 SD G3	26.1	2600	90	3000	929001579706
InteGrade F NB Vi 1500mm 930 CTR G3	52.3	5200	90	3000	929001579806
InteGrade F NB Vi 1500mm 940 SD G3	26.2	2800	90	4000	929001579906
InteGrade F NB Vi 1500mm 940 CTR G3	52.4	5600	90	4000	929001580006
InteGrade F NB Vi 1500mm WWR SD G3	26.6	2600	90		929001580106
InteGrade F NB Vi 1500mm WWR CTR G3	53.2	5200	90		929001580206

\* Correlated color temperature within 5 SDCM range

## For canopy and chillers with doors

## Product specifications

Product type	Power consumption	Lumen	Color rendering index	Correlated color temperature*	Order code
	W (typical ± 20%)	lm (typical ± 20%)	K	min. CRI	GPC
<b>InteGrade Engine High Flux Gen 3</b>					
InteGrade engine HF 140mm 930 G3	4.4	375	90	3000	929001622106
InteGrade engine HF 575mm 930 G3	17.5	1550	90	3000	929001622206
InteGrade engine HF 1150mm 930 G3	35	3100	90	3000	929001622306
InteGrade engine HF 140mm 940 G3	3.9	400	90	4000	929001622406
InteGrade engine HF 575mm 940 G3	15.5	1575	90	4000	929001622506
InteGrade engine HF 1150mm 940 G3	31.1	3150	90	4000	929001622606
InteGrade engine HF 140mm WWR G3	4.4	375	90		929001622706
InteGrade engine HF 575mm WWR G3	17.5	1500	90		929001622806
InteGrade engine HF 1150mm WWR G3	35.1	3000	90		929001622906

\* Correlated color temperature within 5 SDCM range

Note: InteGrade high flux engines are not standalone engines and they might need to be integrated with a heatsink for thermal management and to achieve 50 khrs lifetime.

## Constant voltage drivers

## Product specifications

Product	Order code GPC
LED Power driver 20W 24V	929000654006
LED Power driver 80W 24V	929000653906
LED Power driver 100W 24V 100/240V	929001430080
LED Power Driver 75W - 24V PP ItG-N plug*	929000869613
Xitanium 77W 100-277V 3.2A XI077C320V024FNS1M *	929001708113
Xitanium 100W 100-277V 4.1A XI100C410V024FNS1M*	929000771913
LED driver outdoor 100W 100-240V 24V**	929000485303

\* Only for NAM region

\*\* Only for Japan

## Accessories

## Product specifications

Product	Order code GPC
<b>Clips</b>	
InteGrade mounting clip shelf arm V2	929000957806
InteGrade engine clip shelf arm G2	929001516006
InteGrade engine mounting clip G2	929001516106
InteGrade mounting clip under shelf	929000643903
InteGrade engine clip magnetic	929001624606
InteGrade mounting clip canopy	929001571106
InteGrade engine clip mullion side	929001624506
InteGrade engine clip mullion center	929001624406
InteGrade mounting clip for T style prof	929000853213
<b>Profiles</b>	
InteGrade profile 875mm(34")	929000643413
InteGrade profile 1175mm(46")	929000643313
InteGrade profile 2000mm(79")	929000654413
InteGrade profile 2000mm(79") F style	929000654313
InteGrade profile 2000mm(79") L style	929000654513
InteGrade prof 2000mm(79") T style CTR	929000853013
InteGrade profile 2000mm(79") T style SD	929000853113
InteGrade profile 2356mm (93") M style	929000871313
<b>Power cables - to connect engine to driver</b>	
InteGrade power cable 0.7m white	929001625306
InteGrade power cable 1m(39") black	929000641014
InteGrade power cable 2.5m(98") black	929000641114
InteGrade cable 1m(39") black angle	929000644614
InteGrade cable 2.5m(98") black angle	929000644814
InteGrade power cable 1m(39") white	929000645614
InteGrade power cable 1.85m white	929001625206
InteGrade power cable 2.5m(98") white	929000644514
InteGrade cable 1m(39") white angle	929000644714
InteGrade cable 2.5m(98") white angle	929000644914
InteGrade power cable 3m black angle	929001650106
InteGrade power cable 6m white	929001624806
InteGrade spacer cable 113mm white	929001625106
InteGrade spacer cable 0.3m black	929001625006
InteGrade spacer cable 0.5m black	929000645014
InteGrade spacer cable 0.5m white	929000645114
InteGrade spacer cable M 0.7m 5.5c black	929001624706
InteGrade extension cab 1.5m(59")black	929000874413
InteGrade Y cable black	929000874313

## Accessories

## Product specifications

Product	Order code GPC
<b>Other accessories</b>	
InteGrade engine lock inline	929000643713
InteGrade connector	929000959106
InteGrade magnet for M style profile	929000871413
InteGrade rotational bracket	929000874613

# InteGrade LED System High Flux Gen3

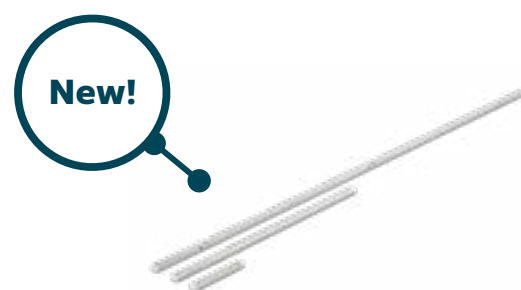
Retail

The InteGrade LED system high flux takes the very successful InteGrade range to a whole new level of specifications beyond imagination. InteGrade LED system high flux has been designed for ultimate product visibility and superior visual display of the merchandize by means of an outstanding bright light distribution combined with a miniaturized unobtrusive design directing the customer focus on the merchandize.

This new range offers a breathtaking performance with superb lumen and lux levels and an exceptional uniform light distribution due to its revolutionary optics that brings light right down to the lowest shelf at the canopy application. InteGrade high flux is now available in premium white to combine the best of both worlds: high flux with premium white takes the product attractiveness to the ultimate level, and stimulates the desire to buy. Next to premium white version, InteGrade high flux has also standard color range with specially formulated CRI 90 LEDs to enable product colors look natural.

InteGrade LED engines have been designed to match the most common application lengths, reducing the number of components needed per installation; yet maintaining the outstanding flexibility that its modular approach offers, enabling the creation of odd size lighting solutions to match every project specification. Thanks to a range of engine lengths, accessories and Titanium constant voltage LED power drivers the InteGrade LED system high flux offers maximum design flexibility and plug and play simplicity to enable a vast variety of innovative systems with style, modernity and functionality according the needs of the stores.

Note that InteGrade high flux engines are not standalone engines and they might need be integrated with a heatsink for thermal management to achieve 50 khrs lifetime. The cabinet framework can be used for that. Our design-in service is available to support you.



For canopy and chillers with doors

## Product specifications

Product type	Power consumption	Lumen	Color rendering index	Correlated color temperature*	Order code
	W (typical ± 20%)	lm (typical ± 20%)	K	min. CRI	GPC
<b>InteGrade Engine High Flux Gen 3</b>					
InteGrade engine HF 140mm 930 G3	4.4	375	90	3000	929001622106
InteGrade engine HF 575mm 930 G3	17.5	1550	90	3000	929001622206
InteGrade engine HF 1150mm 930 G3	35	3100	90	3000	929001622306
InteGrade engine HF 140mm 940 G3	3.9	400	90	4000	929001622406
InteGrade engine HF 575mm 940 G3	15.5	1575	90	4000	929001622506
InteGrade engine HF 1150mm 940 G3	31.1	3150	90	4000	929001622606
InteGrade engine HF 140mm WWR G3	4.4	375	90		929001622706
InteGrade engine HF 575mm WWR G3	17.5	1500	90		929001622806
InteGrade engine HF 1150mm WWR G3	35.1	3000	90		929001622906
<b>InteGrade Engine High Flux Premium Whitw Gen 3</b>					
InteGrade engine HF 140mm 930 PW G3	4.4	400	93	3000	929001605606
InteGrade engine HF 575mm 930 PW G3	17.5	1575	93	3000	929001605706
InteGrade engine HF 1150mm 930 PW G3	34.9	3150	93	3000	929001605806
InteGrade engine HF 140mm 940 PW G3	4	400	93	4000	929001605906
InteGrade engine HF 575mm 940 PW G3	16.1	1575	93	4000	929001606006
InteGrade engine HF 1150mm 940 PW G3	32.2	3150	93	4000	929001606106

\* Correlated color temperature within 5 SDCM range

Note: InteGrade high flux engines are not standalone engines and they might need to be integrated with a heatsink for thermal management and to achieve 50 khrs lifetime.



## Constant voltage drivers

### Product specifications

Product	Order code GPC
LED Power driver 20W 24V	929000654006
LED Power driver 80W 24V	929000653906
LED Power driver 100W 24V 100/240V	929001430080
LED Power Driver 75W - 24V PP ItG-N plug*	929000869613
Xitanium 77W 100-277V 3.2A XI077C320V024FNSIM *	929001708113
Xitanium 100W 100-277V 4.1A XI100C410V024FNSIM*	929000771913
LED driver outdoor 100W 100-240V 24V**	929000485303

\* Only for NAM region  
\*\* Only for Japan

## Accessories

### Product specifications

Product	Order code GPC
InteGrade power cable 1m(39") black	929000641014
InteGrade power cable 2.5m(98") black	929000641114
InteGrade cable 1m(39") black angle	929000644614
InteGrade power cable 1m(39") white	929000645614
InteGrade power cable 2.5m(98") white	929000644514
InteGrade cable 1m(39") white angle	929000644714
InteGrade engine lock inline	929000643713
InteGrade connector	929000959106



# CertaFlux RDL LED System Gen1

New!

Retail

Discount and price-fighter retail chains focus on costs. They leverage purchasing power to deliver value, and the customer expects affordable prices and a functional shopping experience. The lighting must support this image, which is where the Philips CertaFlux RDL portfolio comes in. It has established itself as an energy-efficient way to deliver the quality of light this cost-sensitive retail sector is looking for, especially in cooler and shelf applications.

CertaFlux RDL portfolio is optimized for standard applications lengths with options for main cooler applications. A carefully-selected range of accessories is also available including glare shields, mounting clips and cables.

The quality of light and performance are everything a retail discounter needs. With a CRI of >80 and a lumen efficacy up to 120 lm per watt, CertaFlux RDL illuminates products with a uniform, attractive light. What's more, the LEDs have minimal output degradation and color shift over time, so the light remains consistent throughout their long service life.



## For shelf lighting

### Product specifications

Product type	Power consumption	Lumen	Color rendering index	Correlated color temperature*	Order code
	W (typical ± 20%)	lm (typical ± 20%)	K	min. CRI	GPC
<b>CertaFlux RDL Shelf Gen 1</b>					
CertaFlux RDL shelf 575mm 830 G1	3	370	80	3000	929001665006
CertaFlux RDL shelf 855mm 830 G1	4.7	550	80	3000	929001665106
CertaFlux RDL shelf 1150mm 830 G1	6.2	740	80	3000	929001665206
CertaFlux RDL shelf 575mm 835 G1	3	370	80	3500	929001665306
CertaFlux RDL shelf 855mm 835 G1	4.7	550	80	3500	929001665406
CertaFlux RDL shelf 1150mm 835 G1	6.2	740	80	3500	929001665506
CertaFlux RDL shelf 575mm 840 G1	3	370	80	4000	929001665606
CertaFlux RDL shelf 855mm 840 G1	4.7	550	80	4000	929001665706
CertaFlux RDL shelf 1150mm 840 G1	6.2	740	80	4000	929001665806
CertaFlux RDL shelf 575mm MC G1	3	278	80		929001665906
CertaFlux RDL shelf 855mm MC G1	4.7	413	80		929001666006
CertaFlux RDL shelf 1150mm MC G1	6.2	555	80		929001666106

\* Correlated color temperature within 5 SDCM range  
\* MC : meat color

## For canopy lighting

### Product specifications

Product type	Power consumption	Lumen	Color rendering index	Correlated color temperature*	Order code
	W (typical ± 20%)	lm (typical ± 20%)	K	min. CRI	GPC
<b>CertaFlux RDL Canopy Gen 1</b>					
CertaFlux RDL canopy 575mm 830 G1	8.6	1000	80	3000	929001667406
CertaFlux RDL canopy 855mm 830 G1	12.9	1500	80	3000	929001667506
CertaFlux RDL canopy 1150mm 830 G1	17.2	2000	80	3000	929001667606
CertaFlux RDL canopy 575mm 835 G1	8.6	1000	80	3500	929001667706
CertaFlux RDL canopy 855mm 835 G1	12.9	1500	80	3500	929001667806
CertaFlux RDL canopy 1150mm 835 G1	17.2	2000	80	3500	929001667906
CertaFlux RDL canopy 575mm 840 G1	8.6	1000	80	4000	929001668006
CertaFlux RDL canopy 855mm 840 G1	12.9	1500	80	4000	929001668106
CertaFlux RDL canopy 1150mm 840 G1	17.2	2000	80	4000	929001668206
CertaFlux RDL canopy 575mm MC G1	8.6	700	80		929001668306
CertaFlux RDL canopy 855mm MC G1	12.9	1050	80		929001668406
CertaFlux RDL canopy 1150mm MC G1	17.2	1400	80		929001668506

\* Correlated color temperature within 5 SDCM range  
\* MC : meat color

## For chillers with doors

### Product specifications

Product type	Power consumption	Lumen	Color rendering index	Correlated color temperature*	Order code
	W (typical ± 20%)	lm (typical ± 20%)	K	min. CRI	GPC
<b>CertaFlux RDL Vertical with Glareshield Gen 1</b>					
CertaFlux RDL vrt 1500mm 830 SD WGS G1	9.4	1155	80	3000	929001666206
CertaFlux RDL vrt 1500mm 830 CTR WGS G1	19.8	2420	80	3000	929001666506
CertaFlux RDL vrt 1500mm 840 SD WGS G1	9.4	1155	80	4000	929001666306
CertaFlux RDL vrt 1500mm 840 CTR WGS G1	19.8	2420	80	4000	929001666606
CertaFlux RDL vrt 1500mm MC SD WGS G1	12.8	1090	80		929001666406
CertaFlux RDL vrt 1500mm MC CTR WGS G1	26.5	2260	80		929001666706
CertaFlux RDL vrt 1650mm 830 SD WGS G1	10.8	1270	80	3000	929001666806
CertaFlux RDL vrt 1650mm 830 CTR WGS G1	21.6	2640	80	3000	929001667106
CertaFlux RDL vrt 1650mm 840 SD WGS G1	10.8	1270	80	4000	929001666906
CertaFlux RDL vrt 1650mm 840 CTR WGS G1	21.6	2640	80	4000	929001667206
CertaFlux RDL vrt 1650mm MC SD WGS G1	14.2	1200	80		929001667006
CertaFlux RDL vrt 1650mm MC CTR WGS G1	28.9	2480	80		929001667306

\* Correlated color temperature within 5 SDCM range  
\* MC : meat color

## Constant voltage drivers

### Product specifications

Product	Order code GPC
LED Power driver 80W 24V	929000653906
LED Power driver 100W 24V 100/240V	929001430080
LED Power Driver 75W - 24V PP ItG-N plug*	929000869613
CertaDrive 35W/24VDC 220-240V	929001424006
CertaDrive 60W/24VDC 220-240V	929001424106
CertaDrive 100W/24VDC 220-240V	929001424206
CertaDrive 120W/24VDC 220-240V	929001424306
Xitanium 77W 100-277V 3.2A XI077C320V024FNS1M *	929001708113
Xitanium 100W 100-277V 4.1A XI100C410V024FNS1M*	929000771913
LED driver outdoor 100W 100-240V 24V**	929000485303

\* Only for NAM region  
\*\* Only for Japan

## Accessories

### Product specifications

Product	Order code GPC
<b>Clips</b>	
CertaFlux RDL clip canopy 0° surface	929000957806
CertaFlux RDL clip canopy 30° surface	929001516006
CertaFlux RDL clip shelf front	929001516106
CertaFlux RDL clip shelf arm	929000643903
CertaFlux RDL clip shelf magnetic	929001624606
<b>Power cables - to connect engine to driver</b>	
InteGrade power cable 0.7m white	929001625306
InteGrade power cable 1m(39") black	929000641014
InteGrade power cable 2.5m(98") black	929000641114
InteGrade cable 1m(39") black angle	929000644614
InteGrade cable 2.5m(98") black angle	929000644814
InteGrade power cable 1m(39") white	929000645614
InteGrade power cable 1.85m white	929001625206
InteGrade power cable 2.5m(98") white	929000644514
InteGrade cable 1m(39") white angle	929000644714
InteGrade cable 2.5m(98") white angle	929000644914
InteGrade power cable 3m black angle	929001650106
InteGrade power cable 6m white	929001624806
InteGrade spacer cable 113mm white	929001625106
InteGrade spacer cable 0.3m black	929001625006
InteGrade spacer cable 0.5m black	929000645014
InteGrade spacer cable 0.5m white	929000645114
InteGrade spacer cable M 0.7m 5.5c black	929001624706
InteGrade extension cab 1.5m(59")black	929000874413
InteGrade Y cable black	929000874313

# PrimeSet RDL 500/510 LED system Gen1

Retail

Philips LED lighting for freezer cases is a sustainable and energy-efficient way to create an enjoyable shopping experience for customers – while at the same time supporting retailers' brand values. RDL500 and RDL510 modules can be vertically integrated in full-height glass-door refrigeration cabinets.



RDL 500/510

## Suitable for Retail

### Product specifications

Product type	Power consumption	Lumen	Color rendering index	Correlated color temperature*	Order code
	W (typical ± 20%)	lm (typical ± 20%)	K	min. CRI	GPC
<b>RDL500 Value</b>					
PrimeSet RDL 500 1200 mm (47") 841 G1	7.9	900	85	4100	929000891106
PrimeSet RDL 500 1200 mm (47") 856 G1	9	1000	85	5600	929000891006
PrimeSet RDL 500 1500 mm (59") 841 G1	9.9	1200	85	4100	929000890706
PrimeSet RDL 500 1500 mm (59") 856 G1	11.7	1300	85	5600	929000890606
PrimeSet RDL 500 1700 mm (67") 841 G1	11	1300	85	4100	929000890306
PrimeSet RDL 500 1700 mm (67") 856 G1	12.9	1400	85	5600	929000890206
<b>RDL500 Vision</b>					
PrimeSet RDL 500 Vision 1200 mm (47") 841 G1	15.4	1900	85	4100	929001501806
PrimeSet RDL 500 Vision 1200 mm (47") 856 G1	17	2000	85	5600	929001501906
PrimeSet RDL 500 Vision 1500 mm (59") 841 G1	19.4	2200	85	4100	929000934106
PrimeSet RDL 500 Vision 1500 mm (59") 856 G1	22	2400	85	5600	929000934006
PrimeSet RDL 500 Vision 1700 mm (67") 841 G1	21.9	2500	85	4100	929000933906
PrimeSet RDL 500 Vision 1700 mm (67") 856 G1	24.7	2700	85	5600	929000933806
<b>RDL510 Vision</b>					
PrimeSet RDL 510 Vision 750 mm (30") 841 G1	9.3	1100	85	4100	929000934506
PrimeSet RDL 510 Vision 750 mm (30") 856 G1	10.2	1200	85	5600	929000934406
PrimeSet RDL 510 Vision 850 mm (34") 841 G1	10.8	1300	85	4100	929001502006
PrimeSet RDL 510 Vision 850 mm (34") 856 G1	12	1400	85	5600	929001502106
PrimeSet RDL 510 Vision 950 mm (37") 841 G1	11.8	1400	85	4100	929000934306
PrimeSet RDL 510 Vision 950 mm (37") 856 G1	12.9	1500	85	5600	929000934206

\* Correlated color temperature within 5 SDCM range

## Constant voltage drivers

### Product specifications

Product	Order code GPC
LED Power driver 20W 24V	929000654006
LED Power driver 80W 24V	929000653906
LED Power driver 100W 24V 100/240V	929001430080
Xitanium 77W 100-277V 3.2A XI077C320V024FNSIM *	929001708113
Xitanium 100W 100-277V 4.1A XI100C410V024FNSIM*	929000771913
LED driver outdoor 100W 100-240V 24V**	929000485303

\* Only for NAM region

\*\* Only for Japan

## Accessories

### Product specifications

Product	Order code GPC
<b>Profiles</b>	
PrimeSet RDL-mount prof CTR 750mm	929000894006
PrimeSet RDL-mount prof CTR 850mm	929001507306
PrimeSet RDL-mount prof CTR 950mm	929000894106
PrimeSet RDL-mount prof CTR 1200mm	929000894206
PrimeSet RDL-mount prof CTR 1500mm	929000894306
PrimeSet RDL-mount prof CTR 1700mm	929000894406
PrimeSet RDL-mount prof SD 750mm	929000894706
PrimeSet RDL-mount prof SD 850mm	929001507406
PrimeSet RDL-mount prof SD 950mm	929000894806
PrimeSet RDL-mount prof SD 1200mm	929000894906
PrimeSet RDL-mount prof SD 1500mm	929000895006
PrimeSet RDL-mount prof SD 1700mm	929000895106
PrimeSet RDL-mount prof CTR 1200mm-47" B*	929000897706
PrimeSet RDL-mount prof CTR 1500mm-59" B*	929000894506
PrimeSet RDL-mount prof CTR 1700mm-67" B*	929000894606
PrimeSet RDL-mount prof SD 1200mm-47" B*	929000897806
PrimeSet RDL-mount prof SD 1500mm-59" B*	929000895206
PrimeSet RDL-mount prof SD 1700mm-67" B*	929000895306
<b>Power cables - to connect engine to driver</b>	
PrimeSet RDL - centre cable 1m (39") B	929000892706
PrimeSet RDL - side cable 1m (39") B	929000892806
PrimeSet RDL - centre cable 2.5m (98") B	929000957206
PrimeSet RDL - side cable 2.5m (98") B	929000957306

\* Only for NAM region





# PrimeSet LDM524 LED System Gen1

Retail

Philips LED lighting for well & serve-over cases is a sustainable and energy-efficient way to create an enjoyable shopping experience for customers – while at the same time supporting retailers' brand values.



## Suitable for Retail

### Product specifications

Product type	Power consumption	Lumen	Color rendering index	Correlated color temperature*	Order code
	W (typical ± 20%)	lm (typical ± 20%)	K	min. CRI	GPC
<b>LDM524 Value (standard color range)</b>					
PrimeSet Value LDM 524 850mm (33") 840	10	1100	85	4000	929000969806
PrimeSet Value LDM 524 850mm (33") 856	10	1100	85	5600	929000969706
PrimeSet Value LDM 524 1175mm (46") 840	13	1500	85	4000	929000969606
PrimeSet Value LDM 524 1175mm (46") 856	13	1500	85	5600	929000969506
<b>LDM524 Vision (standard color range)</b>					
PrimeSet Vision LDM 524 250mm (10") 830	4	400	85	3000	929000969306
PrimeSet Vision LDM 524 250mm (10") 840	4	400	85	4000	929000969206
PrimeSet Vision LDM 524 250mm (10") WWR	2.7	250	90		929001600206
PrimeSet Vision LDM 524 850mm (33") 830	15	1600	85	3000	929000969006
PrimeSet Vision LDM 524 850mm (33") 840	15	1700	85	4000	929000968906
PrimeSet Vision LDM 524 850mm (33") WWR	11	1000	90		929001600106
PrimeSet Vision LDM 524 1175mm (46") 830	20	2100	85	3000	929000968706
PrimeSet Vision LDM 524 1175mm (46") 840	20	2100	85	4000	929000968606
PrimeSet Vision LDM 524 1175mm (46") WWR	15	1400	90		929001600006

\* Correlated color temperature within 5 SDCM range

### Product specifications

Product type	Power consumption	Lumen	Color rendering index	Correlated color temperature*	Order code
	W (typical ± 20%)	lm (typical ± 20%)	K	min. CRI	GPC
<b>LDM524 Value (premium white range)</b>					
PrimeSet Value LDM 524 850mm 940 PW	10.4	1100	93	4000	929001626506
PrimeSet Value LDM 524 1175mm 940 PW	13.9	1500	93	4000	929001626406
<b>LDM524 Vision (premium white range)</b>					
PrimeSet Vision LDM 524 250mm(10") 930 PW	4	400	93	3000	929001626306
PrimeSet Vision LDM 524 850mm(33") 930 PW	16.4	1600	93	3000	929001626106
PrimeSet Vision LDM 524 1175mm(46") 930 PW	21.9	2100	93	3000	929001625906
PrimeSet Vision LDM 524 250mm(10") 940 PW	3.8	400	93	4000	929001626206
PrimeSet Vision LDM 524 850mm(33") 940 PW	15.1	1600	93	4000	929001626006
PrimeSet Vision LDM 524 1175mm(46") 940 PW	20.1	2100	93	4000	929001625806

\* Correlated color temperature within 5 SDCM range

## Constant voltage drivers

### Product specifications

Product	Order code GPC
LED Power driver 20W 24V	929000654006
LED Power driver 80W 24V	929000653906
LED Power driver 100W 24V 100/240V	929001430080
Xitanium 77W 100-277V 3.2A XI077C320V024FNSIM *	929001708113
Xitanium 100W 100-277V 4.1A XI100C410V024FNSIM*	929000771913
LED driver outdoor 100W 100-240V 24V**	929000485303

\* Only for NAM region

\*\* Only for Japan

## Accessories

### Product specifications

Product	Order code GPC
Mounting profile 850mm	929000977206
Mounting profile 1175mm	929000977306
Mounting profile 45degr 850mm	929000977506
Mounting profile 45degr 1175mm	929000977606
Mounting clips	929000605913

# Fortimo LEDFlex Gen1

Retail

LED innovations in the pre-launch phase. Extending RDL business from Refrigeration Display Lighting to Retail Display Lighting!

Fortimo LEDFlex Gen 1 combined with our premium white spotlighting solutions the InteGrade LED System Premium White Gen 3 will enable you to create a single look and feel for the whole store, for the ultimate shopping experience.



# Linear Modules

**Enabling design of high-performance linear LED luminaires.** Ideal for recessed and surface mounted office luminaires, trunking, waterproof or high bay.





# Fortimo LED Line Gen4

Linear

Fortimo LED Line Systems are designed to produce pure white light for general lighting applications with high efficiency levels. The Fortimo LED Line portfolio consists of three main ranges of products, which have been differentiated by the number of rows of LEDs on the module. The Fortimo LED Line 1R System, with one row of LEDs on the module, is ideal for applications requiring beam shaping and where light is intended to fall on a vertical surface, such as racking or shelves. The Fortimo LED Line 1R and 3R Systems have been designed to produce high efficiency, pure white light, for general lighting applications where diffuse lighting on the horizontal plane is key.

## Features

- State-of-the-art LED Module efficacy of up to 178 lm/W
- Long life-time: >50,000 hours
- High color rendering (CRI >80 and >90)
- Excellent color consistency of 3 SDCM
- Color temperatures: 3000K, 3500K, 4000K, 5000K and 6500K
- Two LED row : 1R, 3R
- Zhaga compliant

## Benefits

- Increased energy efficiency
- Temperature (Tc) range from -40 °C to +80 °C
- Applicable for all fluorescent luminaires replacement
- Smart system with Xitanium Driver
- Five year system warranty

## Applications

- Offices
- Industry



Fortimo LED Line Gen4

## Product specifications

Product type	Light output*	Power consumption*	Module efficacy*	Color temperature	Color rendering index	Tc life	HV/LV	Lifetime	LED Row	Connector position	Order code
	lm	W	lm/W	SDCM	Ra	°C		Hours			12NC
Fortimo LED Line 1ft 1100lm 830 1R HV4	1046	6.3	167	3000	80	80	HV	50000	1	Front	929001542306
Fortimo LED Line 1ft 1100lm 840 1R HV4	1100	6.3	176	4000	80	80	HV	50000	1	Front	929001542406
Fortimo LED Line 1ft 1100lm 850 1R HV4	1111	6.3	178	5000	80	80	HV	50000	1	Front	929001542506
Fortimo LED Line 1ft 1100lm 865 1R HV4	1100	6.3	178	6500	80	80	HV	50000	1	Front	929001547006
Fortimo LED Line 1ft 1100lm 830 1R LV4	1046	6.3	167	3000	80	80	LV	50000	1	Front	929001542606
Fortimo LED Line 1ft 1100lm 835 1R LV4	1078	6.3	176	3500	80	80	LV	50000	1	Front	929001542706
Fortimo LED Line 1ft 1100lm 840 1R LV4	1100	6.3	178	4000	80	80	LV	50000	1	Front	929001542806
Fortimo LED Line 1ft 1100lm 850 1R LV4	1111	6.3	178	5000	80	80	LV	50000	1	Front	929001547106
Fortimo LED Line 2ft 2200lm 830 1R HV4	2094	12.5	167	3000	80	80	HV	50000	1	Front	929001542906
Fortimo LED Line 2ft 2200lm 840 1R HV4	2200	12.5	176	4000	80	80	HV	50000	1	Front	929001543006
Fortimo LED Line 2ft 2200lm 850 1R HV4	2222	12.5	178	5000	80	80	HV	50000	1	Front	929001543106
Fortimo LED Line 2ft 2200lm 865 1R HV4	2200	12.5	176	6500	80	80	HV	50000	1	Front	929001543206
Fortimo LED Line 2ft 2200lm 830 1R LV4	2092	12.5	167	3000	80	80	LV	50000	1	Front	929001543306
Fortimo LED Line 2ft 2200lm 835 1R LV4	2155	12.5	176	3500	80	80	LV	50000	1	Front	929001543406
Fortimo LED Line 2ft 2200lm 840 1R LV4	2200	12.5	178	4000	80	80	LV	50000	1	Front	929001543506
Fortimo LED Line 2ft 2200lm 850 1R LV4	2224	12.5	176	5000	80	80	LV	50000	1	Front	929001543606
Fortimo LED Line 1ft 650lm 830 3R HV4	604	3.7	164	3000	80	80	HV	50000	3	Front	929001543706
Fortimo LED Line 1ft 650lm 840 3R HV4	650	3.7	176	4000	80	80	HV	50000	3	Front	929001543806
Fortimo LED Line 1ft 650lm 850 3R HV4	650	3.7	176	5000	80	80	HV	50000	3	Front	929001543906
Fortimo LED Line 1ft 650lm 830 3R LV4	604	3.7	164	3000	80	80	LV	50000	3	Front	929001544006
Fortimo LED Line 1ft 650lm 840 3R LV4	650	3.7	176	4000	80	80	LV	50000	3	Front	929001544106
Fortimo LED Line 1ft 650lm 850 3R LV4	650	3.7	176	5000	80	80	LV	50000	3	Front	929001544206
Fortimo LED Line 1ft 1100lm 830 3R HV4F	1047	6.3	177	3000	80	80	HV	50000	3	Front	929001544306
Fortimo LED Line 1ft 1100lm 840 3R HV4F	1100	5.9	187	4000	80	80	HV	50000	3	Front	929001544406
Fortimo LED Line 1ft 1100lm 850 3R HV4F	1112	5.9	188	5000	80	80	HV	50000	3	Front	929001544506
Fortimo LED Line 1ft 1100lm 930 3R HV4F	1046	7.3	144	3000	90	80	HV	50000	3	Front	929001544606
Fortimo LED Line 1ft 1100lm 940 3R HV4F	1100	7.3	151	4000	90	80	HV	50000	3	Front	929001544706
Fortimo LED Line 2ft 2200lm 830 3R HV4	2094	11.8	177	3000	80	80	HV	50000	3	Front	929001544806
Fortimo LED Line 2ft 2200lm 840 3R HV4	2200	11.8	187	4000	80	80	HV	50000	3	Front	929001544906
Fortimo LED Line 2ft 2200lm 850 3R HV4	2224	11.8	188	5000	80	80	HV	50000	3	Front	929001545006
Fortimo LED Line 1ft 1100lm 830 3R LV4	1047	6.3	177	3000	80	80	LV	50000	3	Front	929001545106
Fortimo LED Line 1ft 1100lm 835 3R LV4	1099	6	182	3500	80	80	LV	50000	3	Front	929001545206
Fortimo LED Line 1ft 1100lm 840 3R LV4	1100	5.9	187	4000	80	80	LV	50000	3	Front	929001545306
Fortimo LED Line 1ft 1100lm 850 3R LV4	1112	5.9	188	5000	80	80	LV	50000	3	Front	929001545406
Fortimo LED Line 1ft 1100lm 830 3R HV4B	1047	6.3	177	3000	80	80	HV	50000	3	Back	929001545506
Fortimo LED Line 1ft 1100lm 840 3R HV4B	1100	5.9	187	4000	80	80	HV	50000	3	Back	929001545606
Fortimo LED Line 1ft 1100lm 850 3R HV4B	1112	5.9	188	5000	80	80	HV	50000	3	Back	929001545706

## Non-isolated LED Drivers (HV)

### Product specifications

Driver type/Product type	# of LED Modules in series					Order code
	1R Systems 1ft 1100lm HV	1R Systems 2ft 2200lm HV	3R Systems 1ft 1100lm HV	3R Systems 2ft 2200lm HV	3R Systems 1ft 650lm HV	
<b>Fixed Output</b>						
Xitanium 35W 0.08-0.35A 150V S 230V	2-4	1-2	2-4	1-2	3-5	929001506406
Xitanium 36W 0.12-0.4A 115V 230V	2-3	1	2-3	1	3-4	929000950606
Xitanium 60W 0.08-0.35A 220V S 230V	4-9	2-4	3-7	1-3	3-7	929001509106
Xitanium 60W 0.08-0.35A 300V S 230V	3-7	1-3	4-9	2-4	5-10	929001506506
Xitanium 75W 0.12-0.4A 220V 230V	4-7	2-3	4-7	2-3	6-7	929000950706
<b>1-10V</b>						
Xitanium 17W 0.12-0.4A 54V 1-10V 230V	1		1		3-4	929000684803
Xitanium 36W 0.12-0.4A 115V 1-10V 230V	2-3	1	2-3	1	6-7	929000953606
Xitanium 75W 0.12-0.4A 220V 1-10V 230V	4-7	2-3	4-7	2-3		929000953706
<b>DALI</b>						
Xitanium 17W 0.12-0.4A 54V TD 230V	1		1			929000684703
Xitanium 35W 0.08-0.35A 150V TD 230V	2-4	1-2	2-4	1-2	3-5	929000993306
Xitanium 35W 0.08-0.35A 150V TD/16 230V	2-4	1-2	2-4	1-2	3-5	929000993106
Xitanium 36W 0.12-0.40A 110V TD 230V	2-3	1	2-3	1	5	929000852203
Xitanium 60W 0.08-0.35A 300V TD 230V	4-9	2-4	4-9	2-4	5-10	929000993406
Xitanium 60W 0.08-0.35A 300V TD/16 230V	4-9	2-4	4-9	2-4	5-10	929000993206
Xitanium 75W 0.12-0.40A 215V TD 230V	4-6	2-3	4-7	2-3	6-7	929000852103
<b>Industry (Fixed output and DALI)</b>						
Xitanium 100W 0.15-0.5A 300V iXt 230V	5-9	2-4	5-9	2-4		929001506606
Xitanium 110W 0.2-0.6A 215V TD 230V iXt	5-6	2-3	6-7**	3**		929000877306
Xitanium 150W 0.2-0.7A 300V TD 230V iXt	7-9	3-4	8-10**	4-5**		929000893306
Xitanium 150W 0.2-0.7A 300V iXt 230V	7-9	3-4	8-10**	4-5**		929001506706

## Isolated LED Drivers (LV)

### Product specifications

Driver type/ Product type	# of LED Modules in series				Order code
	1R Systems 1ft 1100lm HV	1R Systems 2ft 2200lm HV	3R Systems 1ft 1100lm HV	3R Systems 1ft 650lm HV	
<b>Fixed Output</b>					
Xitanium 36W 0.3-1A 54V 230V	2-4	1,2	2-5	4-7	929000958706
Xitanium 75W 0.7-2A 54V 230V	4-9	2-4	4-10	6-15	929000958806
<b>1-10V</b>					
Xitanium 36W 0.3-1A 54V 1-10V 230V	2-4	1,2	2-5	4-7	929000854003
Xitanium 75W 0.7-2A 54V 1-10V 230V	4-9	2-4	4-10	6-15	929000863503
<b>DALI</b>					
Xitanium 36W 0.3-1A 54V TD 230V	2-4	1,2	2-5	4-7	9290 015 03606
Xitanium 75W 0.7-2.0A 54V TD 230V	4-9	2-4	4-10	6-15	9290 015 03706
<b>SR drivers</b>					
Xitanium 36W 0.3-1A 54V SR 230V			2-5	3-7	9290 015 16306
Xitanium 75W 0.7-2A 54V SR 230V			4-10	6-15	9290 015 05006

Note: The overview shows system configurations of the Fortimo LED Modules achieving nominal lumen output. Configurations marked\* will give a slightly higher-than-typical flux, configurations marked\*\* will give a slightly lower-than-typical flux (about 90% typical flux) with 200mA output of drivers. Please consult the online Easy Design-in Tool for all possible system configuration, available via [philips.com/technology](http://philips.com/technology).

# Fortimo LED Line HighFlux Gen3

Linear

Fortimo LED Line HighFlux Systems consist of Linear LED Modules with high lumens per foot, high energy efficiency and a high quality of light. Fortimo LED Line HighFlux Systems are designed to enable LED lighting at higher application heights where more light is needed, such as trunking, battens and high-bay applications in warehouses, factories or large-format retail stores. These smart systems come complete with the Xitanium iXt Drivers offering the flexibility to adjust current settings to differentiate on lumen output, efficacy and lifetime in extreme temperature conditions.

### Features

- High Tc life range from -40°C to +90°C enables extreme ambient temperatures in the lighting application
- LED Module efficacy of up to 160 lm/W
- Long life-time: >50,000 hours
- Excellent color consistency of 3 SDCM
- Zhaga compliant

### Benefits

- Enabling luminaires for high and rough application heights
- Excellent thermal performance
- High product performance
- Easy design-in
- Flexible specification due to smart Xitanium Drivers with Five year system warranty

### Applications

- Warehouses
- Factories
- Big retail stores
- Cold storage



Fortimo LED Line HighFlux Gen3

### Product specifications

Product type	Light output*	Power consumption	Module *efficacy*	Color temperature	Color rendering index	Tc life	HV/LV	Lifetime	LED Row	Order code
	lm	W	lm/W	SDCM	Ra	°C		Hours	12NC	
Fortimo LED Line 1ft 2000lm 830 1R HV3	1902	12	159	3000	80	90	HV	50000	1	929001541006
Fortimo LED Line 1ft 2000lm 840 1R HV3	2000	12	167	4000	80	90	HV	50000	1	929001541106
Fortimo LED Line 1ft 2000lm 850 1R HV3	2020	12	169	5000	80	90	HV	50000	1	929001541206
Fortimo LED Line 1ft 2000lm 865 1R HV3	2000	12	167	6500	80	90	HV	50000	1	929001541306
Fortimo LED Line 2ft 4000lm 830 1R HV3	3804	24	159	3000	80	90	HV	50000	1	929001541406
Fortimo LED Line 2ft 4000lm 835 1R HV3	3922	24	164	3500	80	90	HV	50000	1	929001541506
Fortimo LED Line 2ft 4000lm 840 1R HV3	4000	24	167	4000	80	90	HV	50000	1	929001541606
Fortimo LED Line 2ft 4000lm 850 1R HV3	4040	24	169	5000	80	90	HV	50000	1	929001541706
Fortimo LED Line 2ft 4000lm 865 1R HV3	2000	24	167	6500	80	90	HV	50000	1	929001541806
Fortimo LED Line 1ft 2000lm 830 3R HV3	1901	11.2	169	3000	80	90	HV	50000	3	929001541906
Fortimo LED Line 1ft 2000lm 840 3R HV3	2000	11.2	178	4000	80	90	HV	50000	3	929001542006
Fortimo LED Line 1ft 2000lm 850 3R HV3	2019	11.2	180	5000	80	90	HV	50000	3	929001542106
Fortimo LED Line 1ft 2000lm 865 3R HV3	2000	11.2	178	6500	80	90	HV	50000	3	929001542206



### Non-isolated LED Drivers (HV)

#### Product specifications

Driver type/Product type	# of LED Modules in series		Order code
	1R Systems 1ft 2000lm HV	1R Systems 2ft 4000lm HV	
<b>Fixed Output</b>			
Xitanium 35W 0.08-0.35A 150V S 230V	2-3*	1*	929001506406
Xitanium 36W 0.12-0.4A 115V 230V	2-3	1	929000950606
Xitanium 60W 0.08-0.35A 220V S 230V	2-5*	1-2*	929001509106
Xitanium 60W 0.08-0.35A 300V S 230V	4-5*	2*	929001506506
Xitanium 75W 0.12-0.4A 220V 230V	4-6	2-3	929000950706
<b>1-10V</b>			
Xitanium 17W 0.12-0.4A 54V 1-10V 230V	1	N/A	929000684803
Xitanium 36W 0.12-0.4A 115V 1-10V 230V	2-3	1	929000953606
Xitanium 75W 0.12-0.4A 220V 1-10V 230V	4-6	2-3	929000953706
<b>DALI</b>			
Xitanium 17W 0.12-0.4A 54V TD 230V	1	N/A	929000684703
Xitanium 35W 0.08-0.35A 150V TD 230V	2-3*	1*	929000993306
Xitanium 35W 0.08-0.35A 150V TD/16 230V	2-3*	1*	929000993106
Xitanium 36W 0.12-0.40A 110V TD 230V	2-3	1	929000852203
Xitanium 60W 0.08-0.35A 300V TD 230V	4-5*	2*	929000993406
Xitanium 60W 0.08-0.35A 300V TD/16 230V	4-5*	2*	929000993206
Xitanium 75W 0.12-0.40A 215V TD 230V	4-6	2-3	929000852103
<b>Industry (Fixed output and DALI)</b>			
Xitanium 100W 0.15-0.5A 300V iXt 230V	4-8	2-4	929001506606
Xitanium 110W 0.2-0.6A 215V TD 230V iXt	4-7	2-3	929000877306
Xitanium 150W 0.2-0.7A 300V TD 230V iXt	5-9	2-4	929000893306
Xitanium 150W 0.2-0.7A 300V iXt 230V	4-9	2-4	929001506706

Note: The overview shows system configurations of the Fortimo LED Modules achieving nominal lumen output. Configurations marked\* will give a slightly higher-than-typical flux, configurations marked\*\* will give a slightly lower-than-typical flux (about 90% typical flux) with 350mA output of drivers. Please consult the online Easy Design-In Tool for all possible system configuration, available via [philips.com/technology](http://philips.com/technology).



# Fortimo LED Strip Gen4 – 0.5ft, 1ft, 2ft

Linear

Design is a major differentiator for you as a luminaire designer/manufacturer. But you cannot afford to compromise on the quality of light or to accept less than the best in terms of energy efficiency. This fourth generation of LED Strip makes sure you don't have to. Fortimo LED Strip allows you to design high-performance, slim linear LED luminaires without having to compromise on design freedom, quality of light, or total cost of ownership. The systems are ideal for use in luminaires for direct lighting in offices, banks, schools, public buildings, supermarkets and any applications where predominantly fluorescent lighting is used.

### Features

- State-of-the-art LED Module efficacy of up to 180 lm/W
- Long life-time: >50,000 hours
- High color rendering (CRI >80 and >90)
- Excellent color consistency of 3 SDCM
- Choice of color temperatures (3000K, 4000K, 5000K and 6500K)
- Three lumen packages: 650lm, 1100lm, 2000lm per foot
- Small LED Module width of only 20mm
- Enable both front and back-side connectors in 0.5ft and 2ft Module

### Benefits

- Tunable lumen output, efficacy and lifetime
- Wide temperature (Tc) range from -40 °C to +95 °C
- Push-in connectors enabling automated wiring
- Five year system warranty

### Applications

- Office
- School
- Bank
- Public buildings
- Supermarkets
- Industry



Fortimo LED Strip Gen4

### Product specifications

Product type	Light output*	Power consumption*	Module efficacy*	Color temperature	Color rendering index	Tc life	HV/LV	Lifetime	Connector position	Order code
	lm	W	lm/W	K	Ra	°C		Hours		12NC
Fortimo LED Strip 0.5ft 550lm 830 FC HV4	522	3.1	169	3000	80	70	HV	50000	Front	929001523406
Fortimo LED Strip 0.5ft 550lm 840 FC HV4	550	3.1	178	4000	80	70	HV	50000	Front	929001523506
Fortimo LED Strip 0.5ft 550lm 850 FC HV4	555	3.1	180	5000	80	70	HV	50000	Front	929001523606
Fortimo LED Strip 0.5ft 550lm 930 FC HV4	522	3.9	134	3000	90	70	HV	50000	Front	929001523706
Fortimo LED Strip 0.5ft 550lm 940 FC HV4	550	3.9	141	4000	90	70	HV	50000	Front	929001523806
Fortimo LED Strip 0.5ft 550lm 830 FC LV4	522	3.1	169	3000	80	70	LV	50000	Front	929001523906
Fortimo LED Strip 0.5ft 550lm 840 FC LV4	550	3.1	178	4000	80	70	LV	50000	Front	929001524006
Fortimo LED Strip 0.5ft 550lm 850 FC LV4	555	3.1	180	5000	80	70	LV	50000	Front	929001524106
Fortimo LED Strip 0.5ft 550lm 930 FC LV4	522	3.9	134	3000	90	70	LV	50000	Front	929001524206
Fortimo LED Strip 0.5ft 550lm 940 FC LV4	550	3.9	141	4000	90	70	LV	50000	Front	929001524306
Fortimo LED Strip 0.5ft 550lm 840 BC HV4	550	3.1	178	4000	80	70	HV	50000	Back	929001527606
Fortimo LED Strip 0.5ft 550lm 840 BC LV4	550	3.1	178	4000	80	70	HV	50000	Back	929001527706
Fortimo LED Strip 1ft 650lm 830 FC HV4	617	3.8	164	3000	80	70	HV	50000	Front	929001524406
Fortimo LED Strip 1ft 650lm 840 FC HV4	650	3.8	173	4000	80	70	HV	50000	Front	929001524506
Fortimo LED Strip 1ft 650lm 830 FC LV4	617	3.8	164	3000	80	70	LV	50000	Front	929001524606
Fortimo LED Strip 1ft 650lm 840 FC LV4	650	3.8	173	4000	80	70	LV	50000	Front	929001524706
Fortimo LED Strip 1ft 1100lm 830 FC HV4	1044	6.2	169	3000	80	70	HV	50000	Front	929001524806
Fortimo LED Strip 1ft 1100lm 840 FC HV4	1100	6.2	178	4000	80	70	HV	50000	Front	929001524906
Fortimo LED Strip 1ft 1100lm 850 FC HV4	1110	6.2	180	5000	80	70	HV	50000	Front	929001525006
Fortimo LED Strip 1ft 1100lm 865 FC HV4	1100	6.2	178	6500	80	70	HV	50000	Front	929001525106
Fortimo LED Strip 1ft 1100lm 930 FC HV4	1045	7.8	134	3000	90	70	HV	50000	Front	929001525206
Fortimo LED Strip 1ft 1100lm 940 FC HV4	1100	7.8	141	4000	90	70	HV	50000	Front	929001525306
Fortimo LED Strip 1ft 1100lm 830 FC LV4	1044	6.2	169	3000	80	70	LV	50000	Front	929001525406
Fortimo LED Strip 1ft 1100lm 840 FC LV4	1100	6.2	178	4000	80	70	LV	50000	Front	929001525506
Fortimo LED Strip 1ft 1100lm 850 FC LV4	1110	6.2	180	5000	80	70	LV	50000	Front	929001525606
Fortimo LED Strip 1ft 1100lm 865 FC LV4	1100	6.2	178	6500	80	70	LV	50000	Front	929001525706
Fortimo LED Strip 1ft 1100lm 930 FC LV4	1045	7.8	134	3000	90	70	LV	50000	Front	929001525806
Fortimo LED Strip 1ft 1100lm 940 FC LV4	1100	7.8	141	4000	90	70	LV	50000	Front	929001525906

### Product specifications

Product type	Light output*	Power consumption*	Module efficacy*	Color temperature	Color rendering index	Tc life	HV/LV	Lifetime	Connector position	Order code
	lm	W	lm/W	K	Ra	°C		Hours		12NC
Fortimo LED Strip 2ft 1300lm 830 FC HV4	1234	7.5	164	3000	80	70	HV	50000	Front	929001526006
Fortimo LED Strip 2ft 1300lm 840 FC HV4	1300	7.5	173	4000	80	70	HV	50000	Front	929001526106
Fortimo LED Strip 2ft 1300lm 830 FC LV4	1234	7.5	164	3000	80	70	LV	50000	Front	929001526206
Fortimo LED Strip 2ft 1300lm 840 FC LV4	1300	7.5	173	4000	80	70	LV	50000	Front	929001526306
Fortimo LED Strip 2ft 2200lm 830 FC HV4	2088	12.4	169	3000	80	70	HV	50000	Front	929001526406
Fortimo LED Strip 2ft 2200lm 840 FC HV4	2200	12.4	178	4000	80	70	HV	50000	Front	929001526506
Fortimo LED Strip 2ft 2200lm 850 FC HV4	2200	12.4	180	5000	80	70	HV	50000	Front	929001526606
Fortimo LED Strip 2ft 2200lm 865 FC HV4	2200	12.4	178	6500	80	70	HV	50000	Front	929001526706
Fortimo LED Strip 2ft 2200lm 930 FC HV4	2090	15.5	134	3000	90	70	HV	50000	Front	929001526806
Fortimo LED Strip 2ft 2200lm 940 FC HV4	2200	15.5	141	4000	90	70	HV	50000	Front	929001526906
Fortimo LED Strip 2ft 2200lm 830 FC LV4	2088	12.4	169	3000	80	70	LV	50000	Front	929001527006
Fortimo LED Strip 2ft 2200lm 840 FC LV4	2200	12.4	178	4000	80	70	LV	50000	Front	929001527106
Fortimo LED Strip 2ft 2200lm 850 FC LV4	2200	12.4	180	5000	80	70	LV	50000	Front	929001527206
Fortimo LED Strip 2ft 2200lm 865 FC LV4	2200	12.4	178	6500	80	70	LV	50000	Front	929001527306
Fortimo LED Strip 2ft 2200lm 930 FC LV4	2090	15.5	134	3000	90	70	LV	50000	Front	929001527406
Fortimo LED Strip 2ft 2200lm 940 FC LV4	2200	15.5	141	4000	90	70	LV	50000	Front	929001527506
Fortimo LED Strip 2ft 2200lm 840 BC HV4	2200	12.4	178	4000	80	70	HV	50000	Back	929001527806
Fortimo LED Strip 2ft 2200lm 840 BC LV4	2200	12.4	178	4000	80	70	HV	50000	Back	929001527906
Fortimo LED Strip 1ft 2000lm 830 FC HV4	2000	11.7	163	3000	80	90	HV	50000	Front	929001558706
Fortimo LED Strip 1ft 2000lm 840 FC HV4	2000	11.7	172	4000	80	90	HV	50000	Front	929001558906
Fortimo LED Strip 1ft 2000lm 850 FC HV4	2000	11.7	172	5000	80	90	HV	50000	Front	929001559006
Fortimo LED Strip 1ft 2000lm 865 FC HV4	2000	11.7	172	6500	80	90	HV	50000	Front	929001559106
Fortimo LED Strip 2ft 4000lm 830 FC HV4	4000	23.3	163	3000	80	90	HV	50000	Front	929001559206
Fortimo LED Strip 2ft 4000lm 840 FC HV4	4000	23.3	172	4000	80	90	HV	50000	Front	929001559406
Fortimo LED Strip 2ft 4000lm 850 FC HV4	4000	23.3	172	5000	80	90	HV	50000	Front	929001559506
Fortimo LED Strip 2ft 4000lm 865 FC HV4	4000	23.3	172	6500	80	90	HV	50000	Front	929001559606

\* Light output, power consumption and module efficacy are measured at Tc nom 45 °C.

### Non-isolated LED Drivers (HV)

**Product specifications**

Driver type/Product type	0.5ft 550lm CRI80	0.5ft 550lm CRI90	1ft 650lm CRI80	1ft 1100lm CRI80	1ft 1100lm CRI90	2ft 1300lm CRI80	2ft 2200lm CRI80	2ft 2200lm CRI90	1ft 2000lm CRI80	2ft 4000lm CRI80	Order code
<b>12NC</b>											
<b>Fixed output</b>											
Xitanium 36W 0.12-0.4A 115V 230V	5-9	5-8	5-8	3-4	3-4	3-4	2	2	2-3	1	929000950606
Xitanium 75W 0.12-0.4A 220V 230V	10-18	10-18	10-17	5-9	5-9	5-8	3-4	3-4	3-6	2-3	929000950706
Xitanium 35W 0.08-0.35A 150V S 230V	5-10	5-8	5-8	3-5	3-4	3-4	2	2	2-3	1	929001506406
Xitanium 60W 0.08-0.35A 300V S 230V	10-17	10-14	10-14	5-8	5-7	5-7	3-4	3	3-5	2	929001506506
Xitanium 60W 0.08-0.35A 220V S 230V	6-17	5-14	5-14	3-8	3-7	3-7	2-4	2-3	2-5	1-2	929001509106
<b>1-10V</b>											
Xitanium 17W 0.12-0.4A 54V 1-10V 230V	3-4	3-4	3-4	2	2	2	1	1	1	N/A	929000684803
Xitanium 36W 0.12-0.4A 115V 1-10V 230V	5-9	5-8	5-8	3-4	3-4	3-4	2	2	2-3	1	929000953606
Xitanium 75W 0.12-0.4A 220V 1-10V 230V	10-18	12-18	10-17	5-9	6-9	5-8	3-4	3-4	3-6	2-3	929000953706
<b>DALI</b>											
Xitanium 17W 0.12-0.4A 54V TD 230V	3-4	3-4	3-4	2	2	2	1	1	1	N/A	929000684703
Xitanium 36W 0.12-0.4A 110V TD 230V	5-9	5-8	5-8	3-4	3-4	3-4	2	2	2-3	1	929000852203
Xitanium 75W 0.12-0.4A 215V TD 230V	10-17	10-17	10-17	5-8	5-8	5-8	3-4	3-4	3-6	2-3	929000852103
Xitanium 35W 0.08-0.35A 150V TD/16 230V	5-10	5-8	5-8	3-5	3-4	3-4	2	2	2-3	1	929000993106
Xitanium 60W 0.08-0.35A 300V TD/16 230V	10-17	10-14	10-14	5-8	5-7	5-7	3-4	3	2-5	1-2	929000993206
<b>Fixed output for industry</b>											
Xitanium 100W 0.15-0.5A 300V iXt 230V	10-24	10-24	10-24	5-12	5-12	5-12	3-6	3-6	3-8	2-4	929001506606
Xitanium 150W 0.2-0.7A 300V iXt 230V	15-24	12-24	13-24	8-12	6-12	7-12	4-6	3-6	4-12	2-6	929001506706
<b>DALI for industry</b>											
Xitanium 110W 0.2-0.6A 215V TD 230V iXt	11-17	10-17	10-17	6-8	5-8	5-8	3-4	3-4	3-6	2-3	929000877306
Xitanium 150W 0.2-0.7A 300V TD 230V iXt	15-24	15-24	15-24	8-12	8-12	8-12	4-6	4-6	5-12	3-6	929000893306
Xitanium 100W 0.15-0.5A 300V iXt TD 230V	10-24	10-24	10-24	5-12	5-12	5-12	3-6	3-6	3-8	2-4	929001516406
Xitanium 150W 0.2-0.7A 300V iXt TD 230V	15-24	12-24	13-24	8-12	6-12	7-12	4-6	3-6	4-12	2-6	929001516506
<b>Single Output Current</b>											
Xitanium 40W 0.28A 142V 230V	N/A	N/A	11	N/A	N/A	6	N/A	N/A	N/A	N/A	929000805103
CertaDrive 30W 350mA 82V 230V	6*	6*	N/A	3*	3*	N/A	N/A	N/A	N/A	N/A	929000934806
CertaDrive 40W 240mA 160V 230V	12-13**	11-13**	11-12**	6**	6**	6**	3**	3**	N/A	N/A	929000934906
CertaDrive 30W 330mA 82V 230V	6-7*	6**	6	3*	3**	3	N/A	N/A	N/A	N/A	929000974806
CertaDrive 40W 360mA 110V 230V	8-9*	8-9*	8-9*	4*	4*	4*	2*	2*	N/A	N/A	929000974906
CertaDrive 60W 360mA 170V 230V	12-14*	12-13*	12-13*	6-7*	6*	6*	3*	3*	N/A	N/A	929000975006

### Isolated LED Drivers (LV)

**Product specifications**

Driver type/Product type	0.5ft 550lm CRI80	0.5ft 550lm CRI90	1ft 650lm CRI80	1ft 1100lm CRI80	1ft 1100lm CRI90	2ft 1300lm CRI80	2ft 2200lm CRI80	2ft 2200lm CRI90	Order code
<b>12NC</b>									
<b>Fixed output</b>									
Xitanium 36W 0.3-1A 54V 230V	4-10	4-8	4-9	2-5	2-4	2-4	1-2	1-2	929000958706
Xitanium 75W 0.7-2A 54V 230V	8-21	7-17	7-18	4-10	4-8	4-9	2-5	1-4	929000958806
<b>1-10V</b>									
Xitanium 36W 0.3-1A 54V 1-10V 230V	4-10	4-8	4-9	2-5	2-4	2-4	1-2	1-2	929000854003
Xitanium 75W 0.7-2A 54V 1-10V 230V	8-21	7-17	7-18	4-10	3-8	4-9	2-5	1-4	929000863503
<b>DALI</b>									
Xitanium 36W 0.3-1A 54V TD 230V	4-10	3-8	3-8	2-5	2-4	2-4	1-2	1-2	929001503606
Xitanium 75W 0.7-2.0A 54V TD 230V	8-21	7-17	7-18	4-10	4-8	4-9	2-5	2-4	929001503706

### Isolated LED Drivers (LV)

**Product specifications**

Driver type/Product type	0.5ft 550lm CRI80	0.5ft 550lm CRI90	1ft 650lm CRI80	1ft 1100lm CRI80	1ft 1100lm CRI90	2ft 1300lm CRI80	2ft 2200lm CRI80	2ft 2200lm CRI90	Order code
<b>12NC</b>									
<b>Single Output Current</b>									
CertaDrive 26W 0.6A 44V 230V	7**	5*-6**	5*-6**	N/A	3**	3**	N/A	N/A	929001411380
CertaDrive 27W 0.5A 54V 230V	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	929001411280
CertaDrive 30W 0.7A 44V 230V	8**	6*	6*-7**	4**	3*	3*	2**	N/A	929001411180
CertaDrive 38W 0.7A 54V 230V	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	929001411080
CertaDrive 40W 0.9A 44V 230V	10**	8**	8*-9**	5**	4**	4*	N/A	2**	929001410980
CertaDrive 44W 1.05A 42V 230V	10*-12**	8*-10**	9*-10**	5*-6**	4**-5*	5**	3**	2*	929001410880
<b>SR</b>									
Xitanium 36W 0.3-1A 54V SR 230V	4-10	3-8	3-8	2-5	2-4	2-4	1-2	1-2	929001516306
Xitanium 75W 0.7-2A 54V SR 230V	8-21	7-17	7-18	4-10	4-8	4-9	2-5	1-4	929001505006

Note: The overview shows system configurations of the Fortimo LED Modules achieving nominal lumen output. Configurations marked\* will give a slightly higher-than-typical flux, configurations marked\*\* will give a slightly lower-than-typical flux. Please consult the online Easy Design-in Tool for all possible system configuration, available via [philips.com/technology](http://philips.com/technology).



# Fortimo LED Strip Gen4 - 4ft, 5ft

Linear

Design is a major differentiator for you as a luminaire designer/manufacturer. But you cannot afford to compromise on the quality of light or to accept less than the best in terms of energy efficiency. This fourth generation of LED Strip makes sure you don't have to. Fortimo LED Strip allows you to design high-performance, slim linear LED luminaires without having to compromise on design freedom, quality of light, or total cost of ownership. The systems are ideal for use in luminaires for direct lighting in offices, banks, schools, public buildings, supermarkets and any applications where predominantly fluorescent lighting is used.

### Features

- State-of-the-art LED Module efficacy of up to 180 lm/W
- Long life-time: >50,000 hours
- High color rendering (CRI >80 and >90)
- Excellent color consistency of 3 SDCM
- Choice of color temperatures (3000K, 5000K and 6500K)
- Two lumen packages: 650 lm and 1100 lm per foot
- Small LED Module width of only 20mm
- Enable both front and back-side connectors

### Benefits

- Tunable lumen output, efficacy and lifetime
- Wide temperature (Tc) range from -40 °C to +80 °C
- Push-in connectors enabling automated wiring
- Five year system warranty

### Applications

- Office
- School
- Bank
- Public building
- Supermarket
- Industry



Fortimo LED Strip Gen4

### Product specifications

Product type	Light output*		Module efficacy*	Color temperature	Color rendering index	Tc life	HV/LV	Lifetime	Connector position	Order code
	lm	W								
Fortimo LED Strip 1150mm 2600lm 830 HV4F	2469	15	165	3000	80	70	HV	50000	Front	929001547406
Fortimo LED Strip 1150mm 2600lm 840 HV4F	2600	15	174	4000	80	70	HV	50000	Front	929001547506
Fortimo LED Strip 1150mm 2600lm 865 HV4F	2600	15	174	6500	80	70	HV	50000	Front	929001547606
Fortimo LED Strip 1150mm 2600lm 830 LV4F	2469	15	165	3000	80	70	LV	50000	Front	929001547706
Fortimo LED Strip 1150mm 2600lm 840 LV4F	2600	15	174	4000	80	70	LV	50000	Front	929001547806
Fortimo LED Strip 1150mm 2600lm 865 LV4F	2600	15	174	6500	90	70	LV	50000	Front	929001547906
Fortimo LED Strip 1150mm 2600lm 830 HV4B	2469	15	165	3000	90	70	HV	50000	Back	929001549806
Fortimo LED Strip 1150mm 2600lm 840 HV4B	2600	15	174	4000	80	70	HV	50000	Back	929001549906
Fortimo LED Strip 1150mm 2600lm 865 HV4B	2600	15	174	6500	80	70	HV	50000	Back	929001550006
Fortimo LED Strip 1150mm 2600lm 830 LV4B	2469	15	165	3000	80	70	LV	50000	Back	929001550106
Fortimo LED Strip 1150mm 2600lm 840 LV4B	2600	15	174	4000	80	70	LV	50000	Back	929001550206
Fortimo LED Strip 1150mm 2600lm 865 LV4B	2600	15	174	6500	80	70	LV	50000	Back	929001550306
Fortimo LED Strip 1150mm 4400lm 830 HV4F	4177	24.7	169	3000	90	70	HV	50000	Front	929001548006
Fortimo LED Strip 1150mm 4400lm 840 HV4F	4400	24.7	178	4000	80	70	HV	50000	Front	929001548106
Fortimo LED Strip 1150mm 4400lm 850 HV4F	4440	24.7	180	5000	90	70	HV	50000	Front	929001548206
Fortimo LED Strip 1150mm 4400lm 865 HV4F	4400	24.7	178	6500	80	70	HV	50000	Front	929001548306
Fortimo LED Strip 1150mm 4400lm 830 LV4F	4177	24.7	169	3000	80	70	LV	50000	Front	929001548406
Fortimo LED Strip 1150mm 4400lm 840 LV4F	4400	24.7	178	4000	80	70	LV	50000	Front	929001548506
Fortimo LED Strip 1150mm 4400lm 850 LV4F	4400	24.7	180	5000	80	70	LV	50000	Front	929001548606
Fortimo LED Strip 1150mm 4400lm 865 LV4F	4400	24.7	178	6500	80	70	LV	50000	Front	929001548706
Fortimo LED Strip 1150mm 4400lm 830 HV4B	4177	24.7	169	3000	80	70	HV	50000	Back	929001550406
Fortimo LED Strip 1150mm 4400lm 840 HV4B	4400	24.7	178	4000	80	70	HV	50000	Back	929001550506
Fortimo LED Strip 1150mm 4400lm 850 HV4B	4440	24.7	180	5000	80	70	HV	50000	Back	929001550606
Fortimo LED Strip 1150mm 4400lm 865 HV4B	4400	24.7	178	6500	80	70	HV	50000	Back	929001550706
Fortimo LED Strip 1150mm 4400lm 830 LV4B	4177	24.7	169	3000	80	70	LV	50000	Back	929001550806
Fortimo LED Strip 1150mm 4400lm 840 LV4B	4400	24.7	178	4000	80	70	LV	50000	Back	929001550906
Fortimo LED Strip 1150mm 4400lm 850 LV4B	4400	24.7	180	5000	80	70	LV	50000	Back	929001551006
Fortimo LED Strip 1150mm 4400lm 865 LV4B	4400	24.7	178	6500	80	70	LV	50000	Back	929001551106
Fortimo LED Strip 1450mm 3250lm 830 HV4F	3086	18.7	165	3000	90	70	HV	50000	Front	929001548806





## Product specifications

Product type	Light output*	Power consumption*	Module efficacy*	Color temperature	Color rendering index	Tc life	HV/LV	Lifetime	Connector position	Order code
	lm	W	lm/W	K	Ra	°C		Hours		12NC
Fortimo LED Strip 1450mm 3250lm 840 HV4F	3250	18.7	174	4000	80	70	HV	50000	Front	929001548906
Fortimo LED Strip 1450mm 3250lm 830 LV4F	3086	18.7	165	3000	90	70	LV	50000	Front	929001549006
Fortimo LED Strip 1450mm 3250lm 840 LV4F	3250	18.7	174	4000	80	70	LV	50000	Front	929001549106
Fortimo LED Strip 1450mm 3250lm 830 HV4B	3086	18.7	165	3000	80	70	HV	50000	Back	929001551206
Fortimo LED Strip 1450mm 3250lm 840 HV4B	3250	18.7	174	4000	80	70	HV	50000	Back	929001551306
Fortimo LED Strip 1450mm 3250lm 830 LV4B	3086	18.7	165	3000	80	70	LV	50000	Back	929001551406
Fortimo LED Strip 1450mm 3250lm 840 LV4B	3250	18.7	174	4000	80	70	LV	50000	Back	929001551506
Fortimo LED Strip 1450mm 5500lm 830 HV4F	5222	30.9	169	3000	80	70	HV	50000	Front	929001549206
Fortimo LED Strip 1450mm 5500lm 840 HV4F	5500	30.9	178	4000	80	70	HV	50000	Front	929001549306
Fortimo LED Strip 1450mm 5500lm 850 HV4F	5550	30.9	180	5000	80	70	HV	50000	Front	929001549406
Fortimo LED Strip 1450mm 5500lm 830 LV4F	5222	30.9	169	5000	90	70	LV	50000	Front	929001549506
Fortimo LED Strip 1450mm 5500lm 840 LV4F	5500	30.9	178	4000	80	70	LV	50000	Front	929001549606
Fortimo LED Strip 1450mm 5500lm 850 LV4F	5550	30.9	180	5000	90	70	LV	50000	Front	929001549706
Fortimo LED Strip 1450mm 5500lm 830 HV4B	5222	30.9	169	3000	80	70	HV	50000	Back	929001551606
Fortimo LED Strip 1450mm 5500lm 840 HV4B	5500	30.9	178	4000	80	70	HV	50000	Back	929001551706
Fortimo LED Strip 1450mm 5500lm 850 HV4B	5550	30.9	180	5000	80	70	HV	50000	Back	929001551806
Fortimo LED Strip 1450mm 5500lm 830 LV4B	5222	30.9	169	3000	80	70	LV	50000	Back	929001551906
Fortimo LED Strip 1450mm 5500lm 840 LV4B	5500	30.9	178	4000	80	70	LV	50000	Back	929001552006
Fortimo LED Strip 1450mm 5500lm 850 LV4B	5550	30.9	180	5000	80	70	LV	50000	Back	929001552106

## Non-isolated LED Drivers (HV)

## Product specifications

Driver type/Product type	# of LED Modules in series				Order code 12NC
	4ft 2600lm HV	4ft 4400lm HV	5ft 3250lm HV	5ft 5500lm HV	
<b>Fixed Output</b>					
Xitanium 36W 0.12-0.4A 115V 230V	2	1	1	1	929000950606
Xitanium 75W 0.12-0.4A 220V 230V	3-4	2	2-3	1	929000950706
Xitanium 35W 0.08-0.35A 150V S 230V	2	1	1	1	929001506406
Xitanium 60W 0.08-0.35A 300V S 230V	3-4	2	2-3	1	929001506506
Xitanium 60W 0.08-0.35A 220V S 230V	2-4	1-2	1-3	1	929001509106
<b>1-10V</b>					
Xitanium 17W 0.12-0.4A 54V 1-10V 230V	1	N/A	N/A	N/A	929000684803
Xitanium 36W 0.12-0.4A 115V 1-10V 230V	2	1	1	1	929000953606
Xitanium 75W 0.12-0.4A 220V 1-10V 230V	3-4	2	2-3	1	929000953706
<b>DALI</b>					
Xitanium 17W 0.12-0.4A 54V TD 230V	1	N/A	N/A	N/A	929000684703
Xitanium 36W 0.12-0.4A 110V TD 230V	2	1	1	N/A	929000852203
Xitanium 75W 0.12-0.4A 215V TD 230V	3-4	2	2-3	1	929000852103
Xitanium 35W 0.08-0.35A 150V TD/16 230V	2	1	1	1	929000993106
Xitanium 60W 0.08-0.35A 300V TD/16 230V	3-4	2	2-3	1	929000993206
<b>Industry (Fixed output and DALI)</b>					
Xitanium 100W 0.15-0.5A 300V iXt 230V	3-6	2-3	2-5	1-2	929001506606
Xitanium 150W 0.2-0.7A 300V iXt 230V	3-6	2-3	3-5	2	929001506706
Xitanium 100W 0.15-0.5A 300V iXt TD 230V	3-6	2-3	2-5	1-2	929001516406
Xitanium 150W 0.2-0.7A 300V iXt TD 230V	3-6	2-3	3-5	2	929001516506
<b>Single Output Current</b>					
Xitanium 40W 0.28A 142V 230V	3	N/A	N/A	N/A	929000805103
CertaDrive 30W 350mA 82V 230V	N/A	N/A	N/A	N/A	929000934806
CertaDrive 40W 240mA 160V 230V	3	N/A	N/A	N/A	929000934906
CertaDrive 30W 330mA 82V 230V	N/A	N/A	N/A	N/A	929000974806
CertaDrive 40W 360mA 110V 230V	2	1	2	1	929000974906
CertaDrive 60W 360mA 170V 230V	3	N/A	N/A	1	929000975006

## Isolated LED Drivers (LV)

## Product specifications

Driver type/Product type	# of LED Modules in series				Order code 12NC
	4ft 2600lm LV	4ft 4400lm LV	5ft 3250lm LV	5ft 5500lm LV	
<b>Fixed Output</b>					
Xitanium 36W 0.3-1A 54V 230V	1-2	1	1	1	9290 009 58706
Xitanium 75W 0.7-2A 54V 230V	2-4	1-2	2-3	1-2	9290 009 58806
<b>1-10V</b>					
Xitanium 36W 0.3-1A 54V 1-10V 230V		1		1	9290 008 54003
Xitanium 75W 0.7-2A 54V 1-10V 230V	1-2	1-2	1	1-2	9290 008 63503
<b>DALI</b>					
Xitanium 36W 0.3-1A 54V TD 230V	1-2	1	1	1	9290 015 03606
Xitanium 75W 0.7-2.0A 54V TD 230V	2-4	1-2	2-3	1-2	9290 015 03706
<b>Single Output Current</b>					
CertaDrive 26W 0.6A 44V 230V	2-4	N/A	2-3	N/A	9290 014 11380
CertaDrive 27W 0.5A 54V 230V		N/A		N/A	9290 014 11280
CertaDrive 30W 0.7A 44V 230V	2	1	N/A	N/A	9290 014 11180
CertaDrive 38W 0.7A 54V 230V	N/A	N/A	1	N/A	9290 0141 1080
CertaDrive 40W 0.9A 44V 230V	N/A	N/A	N/A	1	9290 014 10980
CertaDrive 44W 1.05A 42V 230V	N/A	N/A	N/A	N/A	9290 014 10880
<b>SR</b>					
Xitanium 36W 0.3-1A 54V SR 230V	N/A	1	N/A	1	9290 015 16306
Xitanium 75W 0.7-2A 54V SR 230V	2	1-2	N/A	1-2	9290 015 05006



# Fortimo LED Square Gen2

Linear

Fortimo LED Square Systems consist of white light LED Modules with square outer dimensions delivering high energy efficiency and high quality of homogeneous light. These smart systems are completed with the Xitanium Drivers offering the flexibility to adjust current settings to differentiate on lumen output, efficacy and lifetime. Fortimo LED Square Systems are ideal for office applications where the luminaires require very homogeneous exit surface window. Typical applications are recessed, surface mounted and suspended office luminaires.

## Features

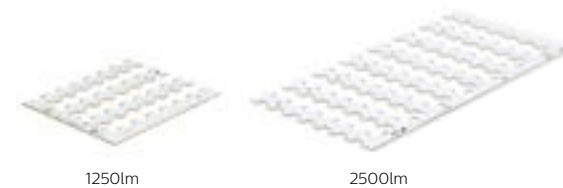
- Homogeneous exit windows for luminaires with depth of 4.5cm
- Module efficiency up to 176lm/W
- Quick mounting of modules with only 1 screw
- Tc up to 80 °C
- High quality of white light

## Benefits

- Enabling homogeneous and shallow luminaires
- High energy efficiency
- Improved luminaire manufacturability
- Flexible system with Xitanium Drivers
- Fast and easy mounting with less cabling

## Applications

- Ideal for office applications
- Recessed, surface mounted or suspended
- Ideal replacement in e.g. a 600x600mm



## LED Square 2500lm HV/LV2

### Product specifications

Product type	Light output	Power consumption	Module efficacy	Color temperature	Color rendering index	Tc life	HV/LV	lifetime	Order code
	lm	W	lm/W	K	Ra	°C		Hours	12NC
Fortimo LED Square 2500lm 830 HV/LV2	2350	14.4	163	3000	80	65	HV/LV	50000	929001531906
Fortimo LED Square 2500lm 840 HV/LV2	2500	14.4	176	4000	80	65	HV/LV	50000	929001532006
Fortimo LED Square 2500lm 865 HV/LV2	2500	14.4	176	6500	80	65	HV/LV	50000	929001532106

## LED Square 1250lm HV/LV2

### Product specifications

Product type	Light output	Power consumption	Module efficacy	Color temperature	Color rendering index	Tc life	HV/LV	lifetime	Order code
	lm	W	lm/W	K	Ra	°C		Hours	12NC
Fortimo LED Square 1250lm 830 HV/LV2	1170	7.2	163	3000	80	65	HV/LV	50000	929001531606
Fortimo LED Square 1250lm 840 HV/LV2	1250	7.2	176	4000	80	65	HV/LV	50000	929001531706
Fortimo LED Square 1250lm 865 HV/LV2	1250	7.2	176	6500	80	65	HV/LV	50000	929001531806

## Non-isolated LED Drivers (HV)

### Product specifications

Driver type/Product type	Fortimo LED Square	Fortimo LED Square	Order code
	1250lm HV/LV2	2500lm HV/LV2	12NC
<b>Fixed Output</b>			
Xitanium 36W 0.12-0.4A 110V 230V	2	2	929000814503
Xitanium 36W 0.12-0.4A 115V 230V	2	2	929000950606
Xitanium 35W 0.08-0.35A 150V S 230V	2-3	2	929001506406
Xitanium 75W 0.12-0.4A 220V 230V	3-4	3-4	929000950706
Xitanium 60W 0.08-0.35A 300V S 230V	3-6	3-4	929001506506
<b>1-10V</b>			
Xitanium 17W 0.12-0.4A 54V 1-10V 230V	1	1	929000684803
Xitanium 36W 0.12-0.4A 115V 1-10V 230V	2	2	929000953606
Xitanium 75W 0.12-0.4A 220V 1-10V 230V	3-4	3-4	929000953706
<b>DALI</b>			
Xitanium 17W/0.12-0.4A 54V TD 230V	1	1	929000684703
Xitanium 36W 0.12-0.40A 110V TD 230V	2	2	929000852203
Xitanium 35W 0.08-0.35A 150V TD/16 230V	2-3	2	929000993106
Xitanium 75W 0.12-0.40A 215V TD 230V	3-4	3-4	929000852103
Xitanium 60W 0.08-0.35A 300V TD/16 230V	3-6	3-4	929000993206

## Isolated LED Drivers (LV)

### Product specifications

Driver type/Product type	Fortimo LED Square	Fortimo LED Square	Order code
	1250lm HV/LV2	2500lm HV/LV2	12NC
<b>Fixed Output</b>			
Xitanium 36W/0.3-1A 54V 230V	2-5	1-2	929000958706
Xitanium 75W/0.7-2A 54V 230V	5-10	3-5	929000958806
<b>1-10V</b>			
Xitanium 36W/0.3-1A 54V 1-10V 230V	2-5	1-2	929000854003
Xitanium 75W/0.7-2A 54V 1-10V 230V	5-10	3-5	929000863503
<b>DALI</b>			
Xitanium 36W/0.3-1A 54V TD 230V	2-5	1-2	929001503606
Xitanium 75W 0.7-2.0A 54V TD 230V	5-10	3-5	929001503706
<b>Industry (Fixed output and DALI)</b>			
Xitanium 100W 0.15-0.5A 300V iXt TD 230V	3-4	3-4	929001516406
Xitanium 150W 0.2-0.7A 300V iXt TD 230V	4-6	4-6	929001516506
Xitanium 100W 0.15-0.5A 300V iXt 230V	3-6	3-6	929001506606
Xitanium 150W 0.2-0.7A 300V iXt 230V	3-6	3-6	929001506706

# CertaFlux LED Square

Linear

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 is designed to reduce material and assembly cost for the OEM, compared to 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.

### Features

- LED Module efficacy of up to 146 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)

### Benefits

- Wide operating temperature (Tc) range from -40°C to +80°C
- Push-in connectors enabling automated wiring
- Three year system warranty

### Applications

- Ideal for office, home applications
- Recessed, surface mounted or suspended
- Ideal replacement in e.g. a 600x600mm, 500x500mm & below



2500lm

## CertaFlux LED Square 2500lm HV/LV1 520x260mm

### Product specifications

Product type	Light output	Power consumption	Module efficacy	Color temperature	Color rendering index	Tc life	HV/LV	Lifetime	Order code
	lm	W	lm/W	K	Ra	°C		Hours @ I Nom	12NC
CertaFlux LED Square 2500lm 830 HV/LV1	2360	17.2	137	3000	80	75	Both	50,000	929001517206
CertaFlux LED Square 2500lm 840 HV/LV1	2500	17.2	146	4000	80	75	Both	50,000	929001517306
CertaFlux LED Square 2500lm 865 HV/LV1	2500	17.2	146	6500	80	75	Both	50,000	929001517406

## CertaFlux LED Square 2500lm LV1 KR 560x280mm

### Product specifications

Product type	Light output	Power consumption	Module efficacy	Color temperature	Color rendering index	Tc life	HV/LV	Lifetime	Order code
	lm	W	lm/W	K	Ra	°C		Hours @ I Nom	12NC
CertaFlux LED Square 2500lm 840 LV1 KR	2500	17.2	145	4000	80	75	Both	50,000	929001445406
CertaFlux LED Square 2500lm 865 LV1 KR	2500	17.2	145	6500	80	75	Both	50,000	929001445506

## CertaFlux LED Square 2000lm LV1 KR 450x220mm

### Product specifications

Product type	Light output	Power consumption	Module efficacy	Color temperature	Color rendering index	Tc life	HV/LV	Lifetime	Order code
	lm	W	lm/W	K	Ra	°C		Hours @ I Nom	12NC
CertaFlux LED Square 2000lm 840 LV1 KR	2000	14.8	135	4000	80	75	LV	50,000	929001445606
CertaFlux LED Square 2000lm 865 LV1 KR	2000	14.8	135	6500	80	75	LV	50,000	929001445706





## Non-isolated LED Drivers (HV)

## Product specifications

Driver type/Product type	LED Square 2500lm HV/LV1	LED Square 2500lm LV1 KR	LED Square 2000lm LV1 KR	Order code 12 NC
<b>DALI</b>				
Xitanium 150W 0.2-0.7A 300V iXt TD 230V	4,5,6	N/A	N/A	929001516506
Xitanium 100W 0.15-0.5A 300V iXt TD 230V	3,4	N/A	N/A	929001516406
Xitanium 75W 0.12-0.4A 215V TD 230V	2,3,4	N/A	N/A	929000852103
Xitanium 36W 0.12-0.4A 110V TD 230V	1,2	N/A	N/A	929000852203
<b>1-10V</b>				
Xitanium 75W 0.12-0.4A 220V 1-10V 230V	2,3,4	N/A	N/A	929000953706
Xitanium 36W 0.12-0.4A 115V 1-10V 230V	1,2	N/A	N/A	929000953606
Xitanium 17W 0.12-0.4A 54V 1-10V 230V	N/A	N/A	N/A	929000684803
<b>Fixed output</b>				
Xitanium 150W 0.2-0.7A 300V iXt 230V	3,4,5,6	N/A	N/A	929001506706
Xitanium 100W 0.15-0.5A 300V iXt 230V	3,4,5	N/A	N/A	929001506606
Xitanium 75W 0.12-0.4A 220V 230V	3,4	N/A	N/A	929000950706
Xitanium 60W 0.08-0.35A 300V S 230V	3**	N/A	N/A	929001506506
Xitanium 60W 0.08-0.35A 220V S 230V	2**, 3**	N/A	N/A	929001509106
Xitanium 36W 0.12-0.4A 115V 230V	1,2	N/A	N/A	929000950606
Xitanium 35W 0.08-0.35A 150V S 230V	2**	N/A	N/A	929001506406
<b>Peak Design</b>				
CertaDrive 40W 360mA 110V 230V	1,2	N/A	N/A	929000974906
CertaDrive 60W 360mA 110V 230V	3	N/A	N/A	929000975006

## Isolated LED Drivers (LV)

## Product specifications

Driver type/Product type	LED Square 2500lm HV/LV1	LED Square 2500lm LV1 KR	LED Square 2000lm LV1 KR	Order code 12 NC
<b>DALI</b>				
Xitanium 75W 0.7-2A 54V TD 230V	2,3,4	2,3,4	2,3,4	929001503706
Xitanium 36W 0.3-1A 54V TD 230V	1,2	1,2	1,2	929001503606
<b>1-10 V</b>				
Xitanium 75W 0.7-2A 54V 1-10V 230V	2,3,4	2,3,4	2,3,4	929000863503
Xitanium 36W 0.3-1A 54V 1-10V 230V	1,2	1,2	1,2	929000854003
<b>Fixed output</b>				
Xitanium 75W 0.7-2A 54V 230V	2,3,4	2,3,4	2,3,4,5	929000958806
Xitanium 36W 0.3-1A 54V 230V	1,2	2	2	929000958706
<b>Single Output Current</b>				
CertaDrive 26W 0.6A 44V 230V	2**	2**	2**	929001411380
CertaDrive 27W 0.5A 54V 230V	2**	2**	2**	929001411280
CertaDrive 38W 0.7A 54V 230V	2**	2**	2**	929001411080
CertaDrive 40W 0.9A 44V 230V	2*	2*	2**	929001410980
CertaDrive 44W 1.05A 42V 230V	2*	2*	2*	929001410880
<b>SR</b>				
Xitanium 36W 0.3-1A 54V SR 230V	1,2	1,2	1,2	929001516306
Xitanium 75W 0.7-2A 54V SR 230V	2,3,4	2,3,4	2,3,4	929001505006

Note: The overview shows system configurations of the CertaFlux LED Modules achieving nominal lumen output. Configurations marked\* will give a slightly higher-than-typical flux, configurations marked\*\* will give a slightly lower-than-typical flux. Please consult the online Easy Design-in Tool for all possible system configuration, available via [philips.com/technology](http://philips.com/technology).

## CertaFlux LED Strip Gen3

Linear

While further improving the specifications of our Fortimo range, we focused on offering the most cost-efficient solution for linear LED lighting with our CertaFlux range. CertaFlux LED Strip systems offer good product performance and functionality, with good quality of light, meeting market needs for basic lighting. These cost effective systems are completed with the CertaDrive Linear LED Driver portfolio, specifically designed to match the CertaFlux LED Strips and focused on lumen packages for high volume applications.

## Features

- 775, 1100, 1550lm, 2200lm lumen package for 1ft, 2ft modules
- Efficacy levels surpassing T5 and T8 systems
- High quality white light CRI 80
- 50,000 hours lifetime
- Efficacy up to 145 lm/W
- Color consistency improved at 3 SDCM

## Benefits

- > 50% energy saving
- < 1.5 year payback period on LED investment
- Improved temperature (Tc) range from -40 °C to +80 °C
- Philips standard systems warranty applies

## Applications

- Office: Reception, lobby, corridors, meeting rooms, open offices and pantry areas
- Retail: Aisles, warehouses and storage areas
- Industry: Warehouses, production areas and office areas



CertaFlux LED Strip Gen3

## Product specifications

Product type	Light output	Power consumption	Module efficacy	Color temperature	Color rendering index	Tc life	HV/LV	Lifetime	Order code
	lm	W	lm/W	K	Ra	°C	Hours @ 1 Nom	12 NC	
CertaFlux LED Strip 1ft 775lm 830 HV3	720	5.3	135	3000	80	80	HV	50000	929001436906
CertaFlux LED Strip 1ft 775lm 840 HV3	775	5.3	145	4000	80	80	HV	50000	929001437006
CertaFlux LED Strip 1ft 775lm 865 HV3	775	5.3	145	6500	80	80	HV	50000	929001437106
CertaFlux LED Strip 1ft 1100lm 830 HV3	1020	7.9	129	3000	80	80	HV	50000	929001437206
CertaFlux LED Strip 1ft 1100lm 840 HV3	1100	7.9	139	4000	80	80	HV	50000	929001437306
CertaFlux LED Strip 1ft 1100lm 865 HV3	1100	7.9	139	6500	80	80	HV	50000	929001437406
CertaFlux LED Strip 2ft 1550lm 830 HV3	1440	10.7	135	3000	80	80	HV	50000	929001437506
CertaFlux LED Strip 2ft 1550lm 840 HV3	1550	10.7	145	4000	80	80	HV	50000	929001437606
CertaFlux LED Strip 2ft 1550lm 865 HV3	1550	10.7	145	6500	80	80	HV	50000	929001437706
CertaFlux LED Strip 2ft 2200lm 830 HV3	2040	15.8	129	3000	80	80	HV	50000	929001437806
CertaFlux LED Strip 2ft 2200lm 840 HV3	2200	15.8	139	4000	80	80	HV	50000	929001437906
CertaFlux LED Strip 2ft 2200lm 865 HV3	2200	15.8	139	6500	80	80	HV	50000	929001438006

## Non-isolated CertaDrive Drivers (HV)

## Product specifications

Driver type/Product type	# of LED Modules in series	Order code 12NC
<b>Fixed</b>		
CertaDrive 27W 0.21A 130V 230V	2x 2ft 1550lm 2x 2ft 1550lm + 1x 1ft 775lm	929001598506
CertaDrive 30W 0.29A 102V 230V	2x 2ft 2200lm 2x 2ft 2200lm + 1x 1ft 1100lm	929001598606
CertaDrive 44W 0.32A 137V 230V	2x 2ft 2200lm 2x 2ft 2200lm + 1x 1ft 1100lm	929001598706

## Non-isolated Xitanium Drivers (HV)

## Product specifications

Driver type/Product type	# of LED Modules in series				Order code 12NC
	1ft 775lm 8xx HV3	2ft 1550lm 830 HV3	1ft 1100lm 830 HV3	2ft 2200lm 830 HV3	
<b>Fixed Output</b>					
Xitanium 35W 0.08-0.35A 150V S 230V	3-6	2-3	3-4	2	929001506406
Xitanium 36W 0.12-0.4A 115V 230V	3-6	2-3	3-4	2	929000950606
Xitanium 60W 0.08-0.35A 220V S 230V	4-11	2-5	3-7	2-3	929001509106
Xitanium 60W 0.08-0.35A 300V S 230V	6-11	3-5	5-7	3	929001506506
Xitanium 75W 0.12-0.4A 220V 230V	6-11	3-5	5-8	3-4	929000950706
<b>1-10V</b>					
Xitanium 17W 0.12-0.4A 54V 1-10V 230V	2	1	2	1	929000684803
Xitanium 36W 0.12-0.4A 115V 1-10V 230V	3-6	2-3	3-4	2	929000953606
Xitanium 75W 0.12-0.4A 220V 1-10V 230V	6-11	3-5	5-8	3-4	929000953706
<b>DALI</b>					
Xitanium 17W 0.12-0.4A 54V TD 230V	2	1	2	1	929000684703
Xitanium 35W 0.08-0.35A 150V TD/16 230V	3-6	2-3	3-4	2	929000993106
Xitanium 36W 0.12-0.40A 110V TD 230V	3-5	2	3-4	2	929000852203
Xitanium 60W 0.08-0.35A 300V TD/16 230V	6-11	3-5	5-7	3	929000993206
Xitanium 75W 0.12-0.40A 215V TD 230V	6-11	3-5	5-8	3-4	929000852103
<b>Fixed output (For industry)</b>					
Xitanium 100W 0.15-0.5A 300V iXt 230V	6-16	3-8	5-12	3-6	929001506606
Xitanium 150W 0.2-0.7A 300V iXt 230V	9-16,18,20,22,24,26,28	5-8,10,12,14	6-12,14,16,18	3-6,8	929001506706
<b>DALI (For industry)</b>					
Xitanium 110W 0.2-0.6A 215V TD 230V iXt	N/A	N/A	N/A	N/A	929000877306
Xitanium 100W 0.15-0.5A 300V iXt TD 230V	6-16	3-8	5-12	3-6	929001516406
Xitanium 150W 0.2-0.7A 300V TD 230V iXt	9-16,18,20,22,24,26,28	5-8,10,12,14	7-12,14,16,18	4-6,8	929000893306
Xitanium 150W 0.2-0.7A 300V iXt TD 230V	9-16,18,20,22,24,26,28	5-8,10,12,14	6-12,14,16,18	3-6,8	929001516506
<b>Single Output Current</b>					
Xitanium 40W 0.28A 142V 230V	7	N/A	N/A	N/A	929000805103
CertaDrive 30W 350mA 82V 230V	N/A	N/A	3	N/A	929000934806
CertaDrive 27W 0.21A 130V 230V	N/A	N/A	4-5	2	929001598506
CertaDrive 30W 0.29A 102V 230V	4-5	2	N/A	N/A	929001598606
CertaDrive 44W 0.32A 102V 230V	N/A	N/A	4-5	2	929001598706
CertaDrive 30W 330mA 82V 230V	4	2	3	N/A	929000974806
CertaDrive 40W 360mA 110V 230V	5	N/A	4	2	929000974906
CertaDrive 60W 360mA 170V 230V	7-8	4	5-6	3	929000975006

## CertaFlux LED Strip Gen4

Linear

CertaFlux LED Strip systems offer good product performance and functionality, with good quality of light, meeting market needs for basic lighting. These cost effective systems are completed with the CertaDrive linear LED driver portfolio, specifically designed to match the CertaFlux LED Strips and focused on lumen packages for high volume applications. Further enhance from Gen 3, Gen 4 will increase Efficacy (up to 165lm/W) with further improvement of light distributino and easy to use.

## Features

- 775, 1100 lumen output per foot are available
- One foot and Two foot lengths
- Choices of color temperatures (3000,4000K and 6500K)
- High quality white light CRI 80
- Better color consistency <4 SDCM
- 50,000 hours lifetime
- Efficacy up to 165lm/W

## Benefits

- Philips standard systems warranty applies
- Flexible and reliable
- Autommateing wiring enable

## Applications

- Office: Reception, lobby, corridors, meeting rooms, open offices and pantry areas
- Retail: Aisles, warehouses and storage areas
- Industry: Warehouses, production areas, and office areas





# Outdoor Modules

**Where reliability and energy-efficiency matters.**  
Outdoor LED lighting components must be cost-effective building blocks that can be smartly configured to create tailored outdoor luminaires for various applications.





# Fortimo FastFlex Gen4

Outdoor

The Fortimo FastFlex Gen4 system continues to focus on offering a suitable solution to OEMs who want to distinguish themselves through their fixture design and speed to market, as well as OEMs wanting to differentiate their propositions based on optical (photometric) performance.

The **Standard Fortimo FastFlex** are products designed for OEMs looking for a "one stop shop" where, boards and lenses are provided by Philips allowing a short fixture development cycle while, enabling basic optical flexibility with its eight standard light distributions.

For OEMs looking to have a unique photometrical performance, the **FastFlex Differentiation Array (DA)** as well as the new form factor **FastFlex Differentiation Protected (DP)** were designed to operate together with third party lenses - enabling an endless number of possible optical configurations as well as IP rating.

## Features

- Modular approach to luminaire design; four board form factors (2x2, 2x4, 2x6, 2x8)
- High energy efficacy, up to 175 Lm/W
- Color temperatures: 2700K, 3000K, 4000K, 5000K, 5700K
- Patented interface between lens, module and mounting surface
- High Tcase, up to 100 °C
- CRI 70 or 80

## Benefits

- Perfectly match each project's needs
- Flexible system design
- Easy factory assembly and reliable lifetime performance
- Low cost of thermal management
- Minimal scrap and outdated component cost

## Applications

- Road lighting
- Flood and area lighting
- Urban street lighting
- Tunnels
- High bay



Fortimo FastFlex Gen4

## Product specifications

Product type	Module power	Module efficacy typical	Light output	Correlated color temperature	Color rendering index	Tc max	Color consistency	Lifetime 90% survivals	Order code
	W	lm/W	lm	K	min. CRI	°C	SDCM	Hours	12NC
Fortimo FastFlex LED 2x8/730 G4	24	142	3450	3000	>70	85	4*	>55,000**	9290 015 62506
Fortimo FastFlex LED 2x8/740 G4	24	154	3730	4000	>70	85	4*	>55,000**	9290 015 62606
Fortimo FastFlex LED 2x8/757 G4	24	152	3685	5700	>70	85	4*	>55,000**	9290 015 62706
Fortimo FastFlex LED 2x8/830 G4	24	131	3208	3000	>80	85	4*	>55,000**	9290 015 62806
Fortimo FastFlex LED 2x8/840 G4	24	138	3357	4000	>80	85	4*	>55,000**	9290 015 62906
Fortimo FastFlex LED 2x8/730 X G4	24	156	3690	3000	>70	85	4*	>55,000**	9290 015 72906
Fortimo FastFlex LED 2x8/740 X G4	24	165	3884	4000	>70	85	4*	>55,000**	9290 015 73006
Fortimo FastFlex LED 2x4/730 G4	12	142	1725	3000	>70	85	4*	>55,000**	9290 015 63006
Fortimo FastFlex LED 2x4/740 G4	12	154	1865	4000	>70	85	4*	>55,000**	9290 015 63106
Fortimo FastFlex LED 2x8/730 DA G4	24	142	3450	3000	>70	95	4*	>55,000**	9290 015 63506
Fortimo FastFlex LED 2x8/740 DA G4	24	154	3730	4000	>70	95	4*	>55,000**	9290 015 63606
Fortimo FastFlex LED 2x8/757 DA G4	24	152	3685	5700	>70	95	4*	>55,000**	9290 015 63806
Fortimo FastFlex LED 2x8/765 DA G4	24	151	3693	6500	>70	95	4*	>55,000**	9290 015 63906
Fortimo FastFlex LED 2x8/827 DA G4	24	122	2965	2700	>80	95	4*	>55,000**	9290 015 64006
Fortimo FastFlex LED 2x8/830 DA G4	24	131	3208	3000	>80	95	4*	>55,000**	9290 015 64106
Fortimo FastFlex LED 2x8/840 DA G4	24	138	3357	4000	>80	95	4*	>55,000**	9290 015 64206
Fortimo FastFlex LED 2x8/730 DAX G4	24	156	3690	3000	>70	105	4*	>55,000**	9290 015 73106
Fortimo FastFlex LED 2x8/740 DAX G4	24	165	3884	4000	>70	105	4*	>55,000**	9290 015 73206
Fortimo FastFlex LED 2x6/730 DA G4	18	142	2588	3000	>70	95	4*	>55,000**	9290 015 65006
Fortimo FastFlex LED 2x6/740 DA G4	18	154	2798	4000	>70	95	4*	>55,000**	9290 015 65106
Fortimo FastFlex LED 2x6/840 DA G4	18	138	2518	4000	>80	95	4*	>55,000**	9290 015 65706
Fortimo FastFlex LED 2x6/730 DAX G4	18	156	2767	3000	>70	105	4*	>55,000**	9290 015 74006
Fortimo FastFlex LED 2x6/740 DAX G4	18	165	2913	4000	>70	105	4*	>55,000**	9290 015 74106
Fortimo FastFlex LED 2x4/730 DA G4	12	142	1725	3000	>70	95	4*	>55,000**	9290 015 65806
Fortimo FastFlex LED 2x4/740 DA G4	12	154	1865	4000	>70	95	4*	>55,000**	9290 015 65906
Fortimo FastFlex LED 2x4/840 DA G4	12	138	1679	4000	>80	95	4*	>55,000**	9290 015 66506
Fortimo FastFlex LED 2x2/730 DA G4	6	142	863	3000	>70	95	4*	>55,000**	9290 015 66606
Fortimo FastFlex LED 2x2/740 DA G4	6	154	933	4000	>70	95	4*	>55,000**	9290 015 66706
Fortimo FastFlex LED 2x2/840 DA G4	6	138	839	4000	>80	95	4*	>55,000**	9290 015 67306
Fortimo FastFlex LED 2x6/730 DP G4	18	142	2588	3000	>70	95	4*	>55,000**	9290 015 64306
Fortimo FastFlex LED 2x6/740 DP G4	18	154	2798	4000	>70	95	4*	>55,000**	9290 015 64406
Fortimo FastFlex LED 2x6/840 DP G4	18	138	2518	4000	>80	95	4*	>55,000**	9290 015 64906
Fortimo FastFlex LED 2x6/730 DPX G4	18	156	2767	3000	>70	105	4*	>55,000**	9290 015 73306
Fortimo FastFlex LED 2x6/740 DPX G4	18	165	2913	4000	>70	105	4*	>55,000**	9290 015 73406

NOTE: light output is specified at board level (lens optical losses not included).

When using standard Fortimo FastFlex lenses, optical losses of 4% need to be taken into account. Specification given at 530 mA and Tc 75 °C.

\* Typical Color consistency specified at beginning of life time.

\*\* Charts presenting module's Tc and current vs expected lifetime (up to 120,000 hours), as well as module's Tc and current vs expected lumen depreciation (L70 and above are available via your sales representative.

## FastFlex LED Lenses and clip Gen2

### Product specifications

Product type	Order code
	12NC
FastFlex lens 2x8/II-X Gen2	929000873806
FastFlex lens 2x8/III-X Gen2	929000873906
FastFlex lens 2x8/IV-X Gen2	929000874006
FastFlex lens 2x8/V Gen2	929000874106
FastFlex lens 2x8/HB65 Gen2	929000896306
FastFlex lens 2x8/II-X WTR Gen2	929000906206
FastFlex lens 2x4/SW-X Gen2	929000897406
FastFlex lens 2x4/V_C Gen2	929000897506
FastFlex module clip*	929000948106
FastFlex lensless mounting Gen 2	929000904506

Recommended Drivers for Fortimo Fast Flex Gen 4 can be found through the Philips Easy Design-in tool.

Please visit our website at [www.lighting.philips.com.sg/oem-sg](http://www.lighting.philips.com.sg/oem-sg)





# Fortimo FastFlex IP66

Outdoor

Fortimo FastFlex (FF) IP66 is an integrated module solution with IP protection, excellent optical and heat management, made possible by its mid-power LED and glass lens technology. The Fortimo FastFlex IP66 range consists of two product categories -based on their energy efficacy: "Standard" with typical energy efficacy of 140lm/w and, "Ultra High Efficacy" (UHE) with a best-in-class energy efficacy of 165lm/w. The entire system set includes FF IP66 modules, IP67 drivers and multi-connectors, creating a total IP solution perfect for easy design-in for outdoor as well as industry applications. Fortimo FastFlex IP66 is a modular system, with each module having a typical lumen output around 6000lm. The portfolio includes color temperatures of 3000K, 4000K and 5700K.

## Features

- IP 66
- Flexibility to select different lumen output (100 to 700mA)
- Best-in-class energy efficacy up to 165 Lm/W
- 5 years system warranty
- 3 CCTs (3000-4000-5700K), CRI 70 and 80
- Various light distributions for Outdoor (Type II – III) as well Industry (High Bay)

## Benefits

- Easy to design-in with practical dedicated light distributions for Roadlighting and High Bay
- Easy to install and maintain, CSA compliant, modular solution
- Robust IP66 rating throughout product claimed lifetime
- 50K hours at B50L70 at 50C

## Applications

- Road lighting
- Urban street lighting
- High bay



Fortimo FastFlex IP66

## Product specifications

Product type	Order code
	<b>12NC</b>
Fortimo FastFlex IP 6KLM 730 II-S	929001427780
Fortimo FastFlex IP 6KLM 730 II-M	929001427880
Fortimo FastFlex IP 6KLM 730 III-S	929001427980
Fortimo FastFlex IP 6KLM 730 III-M	929001428080
Fortimo FastFlex IP 6KLM 740 II-S	929001428180
Fortimo FastFlex IP 6KLM 740 II-M	929001428280
Fortimo FastFlex IP 6KLM 740 III-S	929001428380
Fortimo FastFlex IP 6KLM 740 III-M	929001428480
Fortimo FastFlex IP 6KLM 757 II-S	929001428580
Fortimo FastFlex IP 6KLM 757 II-M	929001428680
Fortimo FastFlex IP 6KLM 757 III-S	929001428780
Fortimo FastFlex IP 6KLM 757 III-M	929001428880
Fortimo FastFlex IP 6KLM UHE 730 II-S	929001464080
Fortimo FastFlex IP 6KLM UHE 730 II-M	929001464180

## Fortimo FastFlex IP66 Multi-connectors

### Product specifications

Product type	Order code
	<b>12NC</b>
FastFlex IP Multi-connector 1-3	929001429380
FastFlex IP Multi-connector 1-5	929001429480
FastFlex IP flying wires connector	929001465280

Recommended Drivers for Fortimo FastFlex IP66 can be found through the Philips Easy Design-in tool.

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# CertaFlux PLM

Outdoor

The CertaFlux PLM is an integrated module solution with IP66 protection, excellent optical and heat management, made possible by its mid-power LED and glass lens technology. The entire system set includes PLM module, IP67 driver and connectors, creating a total IP solution perfect for easy design-in for outdoor applications. CertaFlux PLM is a modular system, with each module having a lumen output of 4500lm. The portfolio includes color temperatures of 3000K, 4000K and 5000K, suitable for new streetlight installations and could replace SON 150W, 250W and 400W.

## Features

- Integrated heat sink and optics
- Complete IP66 system including module, driver and connector
- Color temperatures: 3000K, 4000K and 5000K
- CRI 70
- 50,000 hours lifetime

## Benefits

- Easy design-in
- Relatively low investment
- Reliable and flexible
- Good value-for-money

## Applications

- Streetlight



CertaFlux PLM



CertaFlux PLM II multi-connectors

## CertaFlux PLM

### Product specifications

Product type	Light output (typ.) lm	Power (typ.) W	System efficacy lm/W	Module efficacy lm/W	Input voltage (typ.) V	Color temperature index K	Color rendering Ra	Color consistency SDCM	Lifetime Hours	Order code 12NC
CertaFlux PLM II 4500lm 730 Gen1	4150	33.6	113	124	48	3000	70	6	50,000*	929001444980
CertaFlux PLM II 4500lm 740 Gen1	4500	33.6	123	134	48	4000	70	6	50,000*	929001445080
CertaFlux PLM II 4500lm 750 Gen1	4500	33.6	123	134	48	5000	70	6	50,000*	929001445180

\*@ Tamb 30°C

## CertaFlux PLM II multi-connectors

### Product specifications

Product	Order code 12NC
CertaFlux PLM 2/3 multi-connector CSA	929001450408
CertaFlux PLM 3/4 multi-connector CSA	929001430880

Recommended Drivers for CertaFlux PLM II can be found through the Philips Easy Design-in tool.

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# Industrial Modules

**High Bay Modules** designed for extreme industrial applications (factories, warehouses or large-format retail stores) offering high quality of lighting, best-in-class thermal performance, minimal glare and a flexible, encompassing range of luminous solutions.





# Fortimo High Bay

Industrial

Fortimo High Bay (FHB) is an integrated module solution with IP65 protection, excellent optical and heat management that offers high energy efficacy and high quality of light. The Fortimo High Bay (FHB) solution is designed to enable LED lighting in Industry (high-bay) applications - warehouses, factories, large-format retail stores. A range of compatible IP67 Xitanium drivers complement the High Bay solution in order to further differentiate on efficacy and lifetime under extreme temperature conditions. The portfolio is suitable to replace conventional 100W, 150W, 250W and 400W solutions.

## Features

- IP65 integrated heat sink and optics
- High energy efficacy, at least 140 Lm/W at Module level
- Various lumen-level solutions, 10K, 15K, 20K, 24K Lm
- Streamlined profile for best-in-class thermal performance
- 2 sizes (OD): 270mm (10K/15K/20K lm) and 310mm (24K lm)
- 2 Color temperatures: 4000K, 5700K
- 2 light distributions: 60° (high) and 90° (mid), via reflector
- CRI 80
- Re-enforced, tempered glass cover
- Enables complete IP65 system with IP driver

## Benefits

- Easy design-in
- Relatively low investment
- Reliable and flexible
- 5 years system warranty

## Applications

- High Bay, Mid Bay Industrial lighting



Fortimo High Bay

## Product specifications

Product type	Module power	Module efficacy typical	Light output	Correlated color temperature	Color rendering index	Tc max	Color consistency	Lifetime 90% survivals	Order code
	W	lm/W	lm	K	min. CRI	°C	SDCM	Hours	12NC
Fortimo High Bay Module 10KLM 840	71	140	10000	4000	>80	85	6	50,000	929001432080
Fortimo High Bay Module 15KLM 840	100	150	15000	4000	>80	85	6	50,000	929001432180
Fortimo High Bay Module 20KLM 840	135	148	20000	4000	>80	85	6	50,000	929001432280
Fortimo High Bay Module 24KLM 840	165	146	24000	4000	>80	85	6	50,000	929001432380
Fortimo High Bay Module 10KLM 857	71	140	10000	5700	>80	85	6	50,000	929001432480
Fortimo High Bay Module 15KLM 857	100	150	15000	5700	>80	85	6	50,000	929001432580
Fortimo High Bay Module 20KLM 857	135	148	20000	5700	>80	85	6	50,000	929001432680
Fortimo High Bay Module 24KLM 857	165	146	24000	5700	>80	85	6	50,000	929001432780

## Fortimo High Bay Reflectors

### Product specifications

Product	Order code 12NC
Reflector High Bay 310MM 60D	929001432880
Reflector High Bay 310MM 90D	929001432980
Reflector High Bay 270MM 60D	929001433080
Reflector High Bay 270MM 90D	929001433180



Fortimo High Bay Reflectors

Recommended Drivers for Fortimo High Bay (FHB) Modules can be found through the Philips Easy Design-in tool.

Please visit our website at [www.lighting.philips.com.sg/oem-sg](http://www.lighting.philips.com.sg/oem-sg)

## What to Order for a complete Fortimo High Bay system:

4 components - High Bay Module, High Bay Driver, Top Cover and Reflector

Table below shows the different combinations available

High Bay Module	High Bay Driver	HB Top cover	Reflector			
			12NC and description			
12NC and description	12NC and description	12NC and description	929001433080 Reflector High Bay 270MM 60D	929001432880 Reflector High Bay 310MM 60D	929001433180 Reflector High Bay 270MM 90D	929001432980 Reflector High Bay 310MM 90D
929001432080 Fortimo High Bay Module 10KLM 840	929001425680 Xitanium Dim 100W 1.05A 1-10V 230V I165	929001460080 HB Top Cover	✓		✓	
929001432180 Fortimo High Bay Module 15KLM 840	929001425580 Xitanium Dim 150W 1.05A 1-10V 230V I165		✓		✓	
929001432280 Fortimo High Bay Module 20KLM 840	929001408980 Xitanium Dim 220W 1.05A 1-10V 230V I240		✓		✓	
929001432380 Fortimo High Bay Module 24KLM 840	929001408980 Xitanium Dim 220W 1.05A 1-10V 230V I240			✓		✓
929001432480 Fortimo High Bay Module 10KLM 857	929001425680 Xitanium Dim 100W 1.05A 1-10V 230V I165		✓		✓	
929001432580 Fortimo High Bay Module 15KLM 857	929001425580 Xitanium Dim 150W 1.05A 1-10V 230V I165		✓		✓	
929001432680 Fortimo High Bay Module 20KLM 857	929001408980 Xitanium Dim 220W 1.05A 1-10V 230V I240		✓		✓	
929001432780 Fortimo High Bay Module 24KLM 857	929001408980 Xitanium Dim 220W 1.05A 1-10V 230V I240			✓		✓



# The new Easy Design-in tool

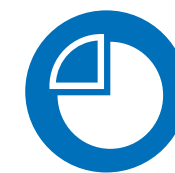
The Philips Easy Design-in tool aims to help you navigate systematically, through the specifications and decisions that one needs to make to get to a recommended LED Systems of a best match. A calculation engine is introduced here, with simple filters for you to click and select, to come close to a LED System needed for your particular luminaire in mind. This tool then helps narrow down your options, directing you to a set of tools best suitable for your design-in application.

# LED Electronics Easy Design-in tool

In order to help luminaire manufacturers find their way through the growing maze of complexity of LED Systems and the different specifications they are capable of achieving, Philips has developed a Easy Design-in tool. Here you can experiment with the effects of tuning and combining LED Modules and Drivers, establishing the right settings needed to customize your LED luminaire.

With the Philips Easy Design-in tool you can adjust optical, thermal, electrical and mechanical specifications of Philips LED Systems to get your shopping list of associated LED Modules and Drivers.

The Philips Easy Design-in tool is an online platform that covers all Philips Fortimo LED Modules portfolio, Xitanium LED Indoor and Outdoor Drivers, CertaFlux and CertaDrive LED Systems, with the exception of modules with integrated drivers.



## Method 1

Calculate and select by desired lumen output, efficiency level, measurement requirements, CCT, or CRI



Match the LED Modules to the driver options, with the appropriate window settings

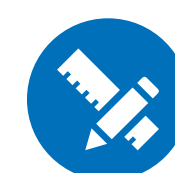


## Method 2

Start with a family of Philips LED Modules that you already have in mind



Explore the options for your particular luminaire needs



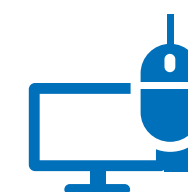
## Method 3

Start with a LED Module that you have developed yourself, or sourced elsewhere



Select just the driver options available to complement your module

With the Easy Design-in tool you can also experience the impact on luminous flux, current and voltage if you change the default temperature Tc setting of the module to another level. This helps model a realistic scenario of the temperature specifications required for your particular luminaire, in accordance with your thermal choices.



To try the Philips Easy Design-in tool, please visit our website at [www.lighting.philips.com.sg/oem-asia](http://www.lighting.philips.com.sg/oem-asia)



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# LED Drivers portfolio

Our range of Philips LED Drivers are categorized for you to match your business requirements with ease. Refer to each range description to find out more.

	Outdoor Drivers	Industrial Drivers	Point Drivers	Linear Drivers
<b>S</b> Statement Connected and programmable	<b>Xitanium SR</b>  <b>Xitanium Full Programmable</b> 		<b>Xitanium Programmable</b> 	<b>Xitanium SR</b>  <b>Xitanium Programmable</b> 
<b>P</b> Performance Flexible and future-proof	<b>Xitanium Lite Programmable</b>  <b>Xitanium Adjustable Output Current</b> 		<b>Xitanium Adjustable Output Current (WH Family)</b>  <b>Xitanium Adjustable Output Current (Mini Family)</b> 	<b>Xitanium Adjustable Output Current</b> 
<b>C</b> Core Performance and reliability	<b>Xitanium Dim Single Current</b>  <b>Xitanium Dim Single Current High Bay</b> 		<b>Xitanium Single Current (Mini Family)</b>  <b>Xitanium Single Current</b>  <b>Xitanium Track Adaptor Driver</b>  <b>Xitanium Single Current TE</b> 	<b>Xitanium Single Current</b> 
<b>E</b> Entry Foundation	<b>Xitanium Single Current</b> 		<b>CertaDrive Single Current</b>  <b>CertaDrive LPF</b>  <b>CertaDrive Mini Family</b> 	<b>CertaDrive Single Current</b> 

## Our range

Philips has designed these main range to help you with your application segmentation, and to facilitate easy selection of the most appropriate drivers to meet your needs.



### Xitanium LED Drivers

Xitanium LED Drivers are reliable, robust and offer flexibility through the operating window and its smart features. They are designed for indoor and outdoor applications, and are available in various form factors with fixed light output, dimmable and programmable options. Offering the flexibility of carrying out late stage programming and drivers configuration, when required.

#### Features and benefits

Low ripple current. Camera-friendly and minimizes flickering.

**Lifetime:** Up to 100,000hours lifetime.

Intelligent, DALI 2.0 compliant, enabling connectivity/Internet of Things (IoT).

**SimpleSet:** Wireless configuration technology.

Best in class performance and energy efficient. Comes in spec-grade performance (THD/PF).

### CertaDrive LED Drivers

CertaDrive LED Drivers are designed to meet the market needs for basic lighting. They are ideal for high volume applications together with CertaFlux LED Modules. Offering basic specifications, such as specific current and voltage settings, they come with a standard system warranty for your peace of mind.



Philips Xitanium SR Driver

# Driving **connected** lighting



Connected lighting brings opportunities for energy saving, data collection, space management, and more. It enhances user comfort and enables cost benefits. The Philips Xitanium SR LED Driver plays an important role as a building block for connected luminaires. It works seamlessly with a range of sensors, and smooths the path to the Internet of Things. With the Xitanium SR LED Driver, it's easier to create luminaires for connected lighting applications.



#### **Simplified luminaire design**

The Xitanium SR LED Driver is sensor ready. This means it doesn't just provide power conversion for LED lighting, it also features integrated sensor controllers, power supplies and energy metering functionality. Everything is integrated, hence very few external components are required. As a result, luminaire design, manufacture and installation are greatly simplified and more cost effective.

#### **Every luminaire becomes a node**

By delivering actionable operational data such as energy consumption, daylight harvesting and occupancy patterns to a building management

system, every luminaire becomes a connected lighting node. The Xitanium SR LED Driver is a simple and cost effective way of stepping into the rapidly growing world of connected lighting.

#### **Accelerate your connected lighting business**

Standard DALI 2.0 communications between driver and sensor means that you can choose from a wide range of sensor manufacturers to design the solutions that are right for you and your customers. By working together and matching technologies, OEMs, sensor manufacturers and system integrators help realize seamless connectivity.





**Smart lighting fixtures** will drive enhanced energy saving and make **Lighting** a key element in the **“Internet of Things”**

## EasyAir office sensor the wireless solution



The Philips EasyAir office sensor wireless sensor range is compatible with the Xitanium SR LED Driver. These sensors provide cost effective, mainstream sensing, as well as easy integration.

Adding sensors to luminaires brings huge benefits in terms of energy management and building regulation conformity. Existing sensors are bulky, expensive and difficult to design-in. The Philips EasyAir office sensor changes all this. The sensor's single-box, luminaire-mounting format and two wire connection helps you to save time and costs when integrating occupancy

sensing and daylight harvesting into your luminaires. The EasyAir office sensor is designed to be luminaire-integrated which reduces the likelihood of errors during installation.

EasyAir office sensor helps to reduce time to market thanks to its full compatibility with Xitanium SR LED Drivers. This eliminates the need for auxiliary devices and eliminates time consuming configuration issues. The simple, two-wire connection from driver to sensor also helps reduce design-in complexity.

For project specifiers, EasyAir office sensor helps to increase efficiency by enabling energy saving and compliance without impacting project time or aesthetic. There's no need to wire sensors outside the ceiling fixture, eliminating mistakes when placing the sensors and luminaires. Projects can be completed quickly, while the integrated sensors leave the ceiling uncluttered.

Another EasyAir office sensor breakthrough is the ability to configure via

SimpleSet which means the sensors can leave your factory fully configured, ready for app-based commissioning on site. The Android based app simplifies programming occupancy and daylight sensing parameters, while enabling you to fine-tune lumen levels.

The EasyAir office sensor is ready for the future. By integrating the EasyAir office sensor into your luminaire, you are now ready to enter the connected world of tomorrow.

The EasyAir office sensor SNS200 has on-board Zigbee and infrared communication to enable Advanced Grouping behavior in offices. It offers a perfect solution for applications where multiple luminaires need to be grouped together to respond to motion and daylight changes. All this without pulling wires and opening ceilings. Scenes can be used to create different settings in combination with Zigbee Green Power wireless dimmer switches. With your smartphone you can commission the groups with ease using our Philips Field Apps.

## Connectivity in linear lighting

New Philips Sensor Ready drivers are ideal for use with sensors and building management systems. With its integrated DALI 2.0 power supply it is easy to power sensors and wireless modules directly from the driver. It also features integrated energy metering for use in building management systems from the SR Certified program. This program with key building management and sensor vendors ensures that certified sensors and controllers work seamlessly with the Xitanium SR driver. For more information go to our webpage at <http://www.philips.com/xitaniumsr>.

The EasyAir sensor range is a brand new range with presence and daylight sensors that can be used all across offices, including open plan offices, meeting rooms and corridors. The EasyAir sensors' single-box, luminaire-mounting format and, powered by Xitanium SR, a two-wire connection will save time and costs when integrating them into your luminaires. The EasyAir sensors are ready for the future. By integrating the EasyAir sensor into your luminaire, all work is done to enter the connected world of tomorrow. So let's get connected.



Xitanium SR Linear HV (non-isolated) Drivers

Product type	Housing type mm	Output current mA	Output voltage V	Dimming %	DALI power supply max. supply current mA	Energy metering accuracy %	Order code 12NC
Xitanium 36W 0.3-1A 54V SR 230V	360x30x21	300-1000	27-54	100-1	52	4	929001516306
Xitanium 75W 0.7-2A 54V SR 230V	360x30x21	700-2000	27-54	100-1	52	4	929001505006
Xitanium 35W 0.08-0.35A 150V SR 230V	360x30x21	80-350	50-150	100-1	52	4	929001540406
Xitanium 60W 0.08-0.35A 220V SR 230V	360x30x21	80-350	50-220	100-1	52	4	929001540506
Xitanium 60W 0.08-0.35A 300V SR 230V	360x30x21	80-350	100-300	100-1	52	4	929001540606
Xitanium 100W 0.25-0.7A 220V SR 230V	360x30x21	250-700	50-220	100-1	52	4	929001540706
Xitanium 100W 0.15-0.5A 300V SR 230V iXT	425x30x21	150-500	100-300	100-1	52	4	929001540806
Xitanium 150W 0.2-0.7A 300V SR 230V iXT	425x30x21	200-700	100-300	100-1	52	4	929001540906

### EasyAir office sensor

Product type	Housing (Volume inside luminaire) mm	Key features	Req. Luminaire hole mm	Occupancy technology	Detection area at 3m height (minor movement) m	Detection area at 2.4m height (minor movement) m	Viewing angle	Full light dim level %	Operating Ambient temperature °C	Order code 12NC
EasyAir office sensor advanced grouping SNS200	50x19x31.5 (50x19x24)	Zigbee wireless communication	44x17	Passive IR	3.6x3.4	2.9x2.7	X=72°Y=86°	5-100%	0-55	929000766803
EasyAir office sensor for networking SNS300	50x19x31.5 (50x19x24)	Zigbee 3.0 gateway	44x17	Passive IR	3.6x3.4	2.9x2.7	X=72°Y=86°	5-100%	0-55	929000795606

### Suitable for office

Order at sample webshop [philips.com/oemwebshop](http://philips.com/oemwebshop)  
For further information visit [philips.com/technology](http://philips.com/technology)



## Connectivity in outdoor lighting

New Philips Sensor Ready Outdoor drivers are ideal for use with Smart City management systems. This driver simplifies the design and production of connected luminaires that use intelligent lighting controllers from our SR Certified Partners by reducing wiring and component count. It adds new features like diagnostics and accurate power metering. Furthermore, it enables luminaire manufacturers to design and build future-proof solutions that align with phased investment capabilities of municipal authorities. Using the driver in combination with industry-standard Zhaga connectors enables sensors and other connected devices to be added to the luminaire at a later date. This makes cost-effective upgrades possible as financial resources become available. For more information go to our webpage at <http://www.philips.com/xitaniumsr>.



Product type	Housing type	Output current	Output voltage	Dimming	Efficiency @ 100% load	Lifetime @ Tc life	Diagnostics via SR interface	DALI power supply via SR interface max power 0.5W	24V power supply 3W average power /10W peak	Energy metering accuracy	Order code
	mm	mA	V	%	%	Hours				%	12NC
Xitanium SR Outdoor 12W 0.2-0.7A C133 sXt	C133	200-700	8-32	100-10	83	100.000	•	•	•	1	929001613506
Xitanium SR Outdoor 22W 0.2-0.7A C133 sXt	C133	200-700	16-48	100-10	85	100.000	•	•	•	1	929001598306
Xitanium SR Outdoor 22W 0.3-1.0A C133 sXt	C133	300-1050	8-32	100-10	85	100.000	•	•	•	1	929001573706
Xitanium SR Outdoor 40W 0.2-0.7A C133 sXt	C133	200-700	25-77	100-10	86	100.000	•	•	•	1	929001573506
Xitanium SR Outdoor 40W 0.3-1.0A C133 sXt	C133	300-1050	20-54	100-10	86	100.000	•	•	•	1	929001573606
Xitanium SR Outdoor 75W 0.2-0.7A S240 sXt	S240	200-700	50-150	100-10	88	100.000	•	•	•	1	929001507706
Xitanium SR Outdoor 75W 0.3-1.0A S240 sXt	S240	300-1050	20-100	100-10	88	100.000	•	•	•	1	929001507806
Xitanium SR Outdoor 150W 0.2-0.7A S240 sXt	S240	200-700	90-283	100-10	90	100.000	•	•	•	1	929001507506
Xitanium SR Outdoor 150W 0.3-1.0A S240 sXt	S240	300-1050	70-214	100-10	90	100.000	•	•	•	1	929001507606
Xi SR 150W 0.27-0.7A SMP TWE I250 Independent	I250	270-700	78-236	100-10	91	100.000	•	•	•	1	929001430580
Xi SR 75W 0.27-0.7A SMP TWE I200 Independent	I200	270-700	43-118	100-10	90	100.000	•	•	•	1	929001430680
Xi SR 150W 0.27-0.7A SMP TWE I250 Independent (connector version)	I250	270-700	78-236	100-10	91	100.000	•	•	•	1	929001497780

\* Standard features: Input voltage range 170-264V, Surge protection DM/CM 6/8kV, SimpleSet, DynaDimmer, Module Temperature Protection.

### Suitable for outdoor

Order at sample webshop [philips.com/oemwebshop](http://philips.com/oemwebshop)  
For further information visit [philips.com/technology](http://philips.com/technology)

## EasyAir industry sensor SNH200

### Market trends and needs in Industry segment

The rapid growth of online retail and shopping has boosted logistics and warehousing facilities. This has given rise to an increased need for asset management and energy savings. A typical warehouse has a huge potential for energy savings as lighting contributes to the highest energy cost, especially in non-refrigerated warehouses. Large parts of such warehouses only need 'light-on-demand'. Availability of energy usage reports or to be able to manage/maintain multiple sites remotely are key user benefits in industry segment. Furthermore, the production downtime in manufacturing facilities can be costly and a clear need for improved ways of managing maintenance is foreseen.

### Opportunity for EasyAir industry sensor

The EasyAir industry sensor SNH200 based on Sensor Ready (SR) platform is a perfect wireless solution to address the market needs in the industry segment. Compared to the existing solutions which are complicated to commission, involve expensive cabling and work with limited temperature environments, EasyAir SNH200 promises to be a one stop easy solution for any industrial application.

Based on the technology of EasyAir SNS200, the industry sensor SNH200 is an easy to integrate, cost effective presence and daylight sensor to significantly help save energy costs. An easy to work with app allows a quick and easy configuration and commissioning process along with the energy readout. Additionally, the advanced grouping and zoning of luminaires leads to enhanced light behaviour on occupancy detection. The EasyAir SNH200 responds very well to the trend of higher ceiling warehouses and seamlessly integrates with the waterproof luminaires commonly used in an industrial setup. Moreover, working with SR based connected lighting system eases monitoring and diagnoses which eventually drives down maintenance costs.

### Features

- Works with SR drivers to eliminate power packs and improve cost effectiveness
- Maximize energy savings by presence and daylight sensing
- Advanced lighting control via grouping and zoning of luminaires, using ZigBee mesh
- Quick and easy configuration - in factory using MultiOne/SimpleSet technology and in field via Infrared
- Easy to commission through a user-friendly app, available for free on Google PlayStore as Philips Field Apps
- Energy readout via app or MultiOne
- Ideally suitable for highbay applications; also, suitable for trunking applications via SR Bridge
- High ceiling heights up to 16m,
- IP65 rating to match IP-rating of high bay luminaires; sensor mounted outside of luminaire

- Wide temperature range from -25°C to 65°C to suit various industrial applications
- Releases in Q1 2018

### Applications

- Warehouses
- Production facilities
- Assembly areas

### Ordering information

#### Product specifications

Product	Order code
EasyAir SNH200	9290 016 25706



EasyAir Industry Sensor SNH200

## IR Dongle (Accessories)

### Features

- Works up to high heights of 16m
- Key tool for commissioning EasyAir sensors in field
- Fits into the audio jack of mobile phones to enable Infrared communication
- Narrow IR beam and long range enable high selectivity of sensor from ground level
- Optional use with EasyAir SNS200
- Mandatory use with EasyAir SNH200



### Ordering information

#### Product specifications

Product	Description	Order code
IR Dongle	Infrared device to commission EasyAir SNS200 and EasyAir SNH200	9290 016 25706

IR Dongle

# EasyAir Outdoor Module SNO110

## Market trends and needs in Outdoor segment

Outdoor lighting is all around us and new technologies enables municipalities and facility managers to optimize lighting and dimming schemes during time light is less needed. These customers need to anticipate that surroundings or function of a street or public space can change over the long lifetime of outdoor luminaires. For this they need future proof solutions which covers will cover this and enables that over time fast developing IoT technologies can be used.

Important to realize is that outdoor lighting is covering a very wide area of different applications. The requirements for highways are significantly different with city centers, residential or parking's near shopping malls.

## Opportunity for EasyAir SNO110 Sensor

The EasyAir Outdoor module SNO110 based on the universal SR platform is the perfect solution to address the basic market needs in the outdoor segment. The device has a built-in GPS receiver and based on the location, date and time it calculates the exact on-off switching and dimming moments.

The module can be configured without power via SimpleSet (NFC) at assembly or during installation.

For configuration of the EasyAir module an easy to use App can be downloaded on a Smartphone. Via this App all settings can be made including the 5-step DynaDimmer. This accurate DynaDimmer takes also Daylight Saving Time into account and timing can be set within a minute accurate. These features makes this device the ideal solution for those customers who want flexible and configurable controls without complexity.

Because of the SR platform, which consist of a Xitanium SR driver and SR receptacle the module is very easy to integrate in most luminaires. Furthermore, the SR receptacle, standardized via Zhaga book 18, will make luminaires future-proof and can be upgraded to advanced CMS modules if needed.

## Features

- Integrated GPS receiver for location and exact time/date
- Automatic switch-on/switch-off at sunset / sunrise
- Accurate DynaDimmer with Daylight Saving Time correction
- Quick and easy Configuration via SimpleSet (NFC) without power during assembly/installing
- Daylight sensor
- Accurate diagnostics, including energy readout via app
- Easy to commission through a user-friendly app, free available on Google PlayStore
- IP66/IK08 rating to match outdoor requirements
- Wide temperature range from -30°C to 60°C for use globally
- Releases in Q3 2018

## Applications

- Residential or Urban area,
- City center, Shopping area
- Pedestrian, bicycle roads,
- Squares, Campus, Parking, etc



EasyAir Outdoor Module SNO110

\* Not all features will be available at introduction.

## Ordering information

### Product specifications

Product	Order code
EasyAir SNO110	12NC 9290 015 99206

## GPS based realtime DynaDimmer

Coming soon, we will enter new territory in Outdoor with in-field smartphone configuration of street lighting made possible by Philips connected components. Stay tuned!

## Suitable for outdoor

For further information visit [philips.com/technology](http://philips.com/technology)

# SR Certified program

For the ultimate reassurance of connectivity, Philips has also introduced the SR Certified program, which is a list of all companies, components and sensors that are certified to work with the Xitanium SR LED Driver. It's the seal of approval you need for putting together a connected solution from participating parts suppliers and service providers. The world of connected lighting is growing fast. You can play a role in accelerating its growth.

The SR Certified program is a foundation for successful partnerships. Let's connect.



## Wireless Bridge Box and Accessories

New!

The wireless bridge box has different types of analog voltage output interface, which can be connected with the drive power supply with suitable interface. By adjusting the output voltage/signal of the interface and adjusting the power of the drive power, lighting dimming can be achieved. At the same time, this equipment has the switch control function, can cut the loop's ac power supply. Those devices can use Zigbee to communicate with gateway, dimmer panel, gateway APP and other intelligent terminal devices to realize local and remote control.

The wireless LCD control panel, wall touch panel and controller are the devices which use Zigbee to control the bridge box by wireless way. It's a super easy way to apply wireless control system in light world.

## Features

- Zigbee protocol compliance, intelligent linkage with other Zigbee products
- Zigbee protocol compliance (ZHA)

## Benefits

- Wireless access without control wires
- Achieve local control and remote control in one systems

## Applications

- Office
- Classroom
- Hotel
- Home



### Product specifications

Product type	Color	Housing	Protocol	Features	Dimension mm	Order code 12NC
Wireless Phase-cut Bridge Box	Dark gray	188	Zigbee	Phase cut dim	88x41x28	929001461162
Wireless 1-10V Bridge Box	Dark gray	188	Zigbee	1-10V dim	88x41x28	929001461462
Wireless Tunable White Bridge Box	Dark gray	188	Zigbee	Tunable White dim	88x41x28	929001469980
Wireless RGBW Bridge Box	Dark gray	188	Zigbee	RGBW dim	88x41x28	929001470080
Wireless Wall Touch Panel	White	186	Zigbee	Wall Switch control	86x86x9	929001460962
Wireless Controller	White	1140	Zigbee	Remote control	140x43x10	929001461062
Wireless LCD Control Panel	White	189	Zigbee	LCD panel control	89x89x12	929001470180





# Outdoor Drivers

Philips Outdoor LED Drivers offer extreme reliability and maximum flexibility, enabling you to get the best out of LED lighting applications.

## Portfolio

Outdoor Drivers	Dimming		Basic features and performance		
	DALI Dim	1-10V	SimpleSet	Adjustable output current (AOC)	Housing/ installation
<b>S</b> Statement	Yes	No	Yes	Yes	Built-in
<b>P</b> Performance	No	Yes	Yes	Yes	IP67/Built-in
	No	No	No	Yes	IP65
<b>C</b> Core	No	Yes	No	No	IP67/Built-in
<b>E</b> Entry	No	No	No	No	IP67/Built-in





# Xitanium Full Programmable

Outdoor

Philips Xitanium Full Programmable LED Drivers are specifically designed to deliver the highest performance, protection and configurability. The portfolio offers both central and standalone dimming protocols further increasing the energy savings and CO2 reductions achieved with LED lighting. The technology ensures maximum robustness and protection combined with a very long lifetime.

In this product family Philips introduces new drivers in a stretched form factor with state-of-the-art features, which offer high value for both OEM customers and end-users. The products can replace the existing programmable outdoor LED Drivers and will bring significant improvement in programming, assembly into a luminaire and electrical performance. One of the key features is SimpleSet, an easy and fast way to configure the drivers in a production environment, without the need to power the driver.

## Features

- SimpleSet, wireless configuration interface
- High surge protection (CM/DM)
- Long lifetime, 50K hours at Tc max
- Robust and protection against moisture, vibration and temperature
- Configurable operating windows (AOC)
- Multiple control interfaces: DALI, LineSwitch, AmpDim
- Autonomous dimming via integrated DynaDimmer
- Suitable for central DC operation (DCemDim)

- Thermal protection for driver and for module (MTP)
- Constant Light Output (CLO)
- Adjustable Start-up Time (AST)
- Adjustable Light Output (ALO)
- End-Of-Life indicator (EOL)

## Benefits

- Ultimate robustness, offering peace of mind and lower maintenance costs
- Fully programmable LED Drivers designed for the new digital and connected lighting world

- Extended diagnostics via SimpleSet and MultiOne
- Easy to design-in, configure and install for Class I and Class II applications
- Energy savings through high efficiency and via multiple dimming options

## Applications

- Road and street lighting
- Area lighting
- Industry lighting



## Product specifications

Product type	SimpleSet	Housing type	Housing	Max output power	Output current	Output voltage	Dimensions	Surge Protection (DM/CM)	Dimming	Order code
Xi FP 22W 0.2-0.7A SNLDAE 230V C123 sXt	Yes	Built-in	C123	22	0.2-0.7	16-48	123x79x31	6/10	DALI/ DynaDimmer	929001617706
Xi FP 22w 0.3-1.0A SNLDAE 230V C123 sXt	Yes	Built-in	C123	22	0.3-1.0	8-32	123x79x31	6/10	DALI/ DynaDimmer	929001518506
Xi FP 40W 0.2-0.7A SNLDAE 230V C123 sXt	Yes	Built-in	C123	40	0.2-0.7	25-77	123x79x31	6/10	DALI/ DynaDimmer	929001518606
Xi FP 40W 0.3-1.0A SNLDAE 230V C123 sXt	Yes	Built-in	C123	40	0.3-1.0	20-54	123x79x31	6/10	DALI/ DynaDimmer	929001518706
Xi FP 110W 0.3-1.0A SNLDAE 230V C133 sXt	Yes	Built-in	C133	110	0.3-1.0	50-160	133x77x40	6/10	DALI/ DynaDimmer	929001639106
Xi FP 110W 0.2-0.7A SNLDAE 230V C133 sXt	Yes	Built-in	C133	110	0.2-0.7	70-220	133x77x40	6/10	DALI/ DynaDimmer	929001639006
Xi FP 330W 2.0-2.0-0.75A SNDAE 230V C240 sXt	Yes	Built-in	C240	330	0.2-0.75	100-300	240x118x38	6/10	DALI/ DynaDimmer	929001408306
Xi FP 22W 0.3-1.0A SNLDAE 230V S175 sXt	Yes	Built-in	S175	22	0.3-1.05	8-32	175x46x34	6/8	DALI/ DynaDimmer	929000991206
Xi FP 40W 0.2-0.7A SNLDAE 230V S175 sXt	Yes	Built-in	S175	40	0.2-0.7	25-77	175x46x34	6/8	DALI/ DynaDimmer	929000989206
Xi FP 40W 0.3-1.0A SNLDAE 230V S175 sXt	Yes	Built-in	S175	40	0.3-1.05	20-54	175x46x34	6/8	DALI/ DynaDimmer	929000989306
Xi FP 75W 0.2-0.7A SNLDAE 230V S240 sXt	Yes	built-in	S240	75	0.2-0.7	50-150	240x59x38	6/10	DALI/ DynaDimmer	929001644006
Xi FP 75W 0.3-1.0A SNLDAE 230V S240 sXt	Yes	built-in	S240	75	0.3-1.05	35-108	240x59x38	6/10	DALI/ DynaDimmer	929001644106
Xi FP 150W 0.2-0.7A SNLDAE 230V S240 sXt	Yes	built-in	S240	150	0.2-0.7	90-283	240x59x38	6/10	DALI/ DynaDimmer	929001644206
Xi FP 150W 0.3-1.0A SNLDAE 230V S240 sXt	Yes	built-in	S240	150	0.3-1.05	70-214	240x59x38	6/10	DALI/ DynaDimmer	929001644306

# Xitanium Lite Programmable

Outdoor

Philips Xitanium Lite Programmable LED Drivers are value engineered to deliver a carefully selected feature set and high-end performance, making it a preferred choice for many outdoor applications. The portfolio offers high flexibility with a customizable operating window, enabling differentiation in LED lighting design via system tuning and being prepared for LED efficacy upgrades.

In this product family Philips introduces new drivers in a stretched form factor with a balanced features set, which offer high value for both OEM customers and end-users. The products can replace the existing programmable outdoor LED Drivers and will bring significant improvement in programming, assembly into a luminaire and electrical performance. One of the key features is SimpleSet, an easy and fast way to configure the drivers in a production environment, without the need to power the driver.

## Features

- SimpleSet, wireless configuration interface
- High surge protection
- Long lifetime, 50K hours at Tc max
- Robust and protection against moisture, vibration and temperature
- Configurable operating windows (AOC)
- External control interface (1-10V) available
- Autonomous dimming via Integrated DynaDimmer

- Integrated driver thermal protection
- Simplified linear version of Constant Light Output (CLO LITE)

## Benefits

- Ultimate robustness, offering peace of mind and lower maintenance costs
- Balanced configurable feature set covering the most common applications
- Easy to design-in, configure and install for Class I and Class II applications

- Energy savings through high efficiency and via multiple dimming options
- Consistent waterproof performance through the lifecycle

## Applications

- Road and street lighting
- Area lighting
- Tunnel lighting
- Highbay lighting



## Product specifications

Product type	Simple Set	Housing type	Housing	Max output power	Output current	Output voltage	Dimensions	Surge Protection (DM/CM)	Dimming	Order code
Xi LP 22W 0.2-0.7A S1 230V S175 sXt	Yes	Built-in	S175	22	0.2-0.7	16-48	175 x 46 x 34	6/10	1-10V/Dynadimmer	929001613606
Xi LP 22W 0.3-1.0A S1 230V S175 sXt	Yes	Built-in	S175	22	0.3-1.0	8-32	175 x 46 x 34	6/10	1-10V/Dynadimmer	929001613706
Xi LP 40W 0.2-0.7A S1 230V S175 sXt	Yes	Built-in	S175	40	0.2-0.7	23-77	175 x 46 x 34	6/10	1-10V/Dynadimmer	929000930706
Xi LP 40W 0.3-1.0A S1 230V S175 sXt	Yes	Built-in	S175	40	0.3-1.0	4-40	175 x 46 x 34	6/10	1-10V/Dynadimmer	929000940806
Xi LP 75W 0.3-1.0A S1 230V S240 sXt	Yes	Built-in	S240	75	0.3-1.05	35-108	240 x 58 x 38	6/10	1-10V/Dynadimmer	929000963306
Xi LP 65W 0.3-1.05A S1 230V I150	Yes	IP67	I150	65	0.3-1.05	31-93	150x 68x 45	6/10	1-10V/Dynadimmer	929001473980
Xi LP 65W 0.5-1.5A S1 230V I150	Yes	IP67	I150	65	0.5-1.5	21-62	150x 68x 45	6/10	1-10V/Dynadimmer	929001474180
Xi LP 65W 0.3-1.05A S1 TWE I175	Yes	IP67	I175	65	0.3-1.05	31-93	175x 68x 45	6/10	1-10V/Dynadimmer	929001474080
Xi LP 100W 0.3-1.05A S1 230V I175	Yes	IP67	I175	100	0.3-1.05	46-143	175 x 68 x 45	6/10	1-10V/Dynadimmer	929001407280
Xi LP 150W 0.3-1.0A S1 230V S240 sXt	Yes	Built-in	S240	150	0.3-1.05	70-214	240 x 58 x 38	6/10	1-10V/Dynadimmer	929000962906
Xi LP 150W 0.3-1.05A S1 230V I175	Yes	IP67	I175	150	0.3-1.05	72-214	175 x 68 x 45	6/10	1-10V/Dynadimmer	929001407080
Xi LP 220W 0.3-1.05A S1 230V I230	Yes	IP67	I230	220	0.3-1.05	104-314	230 x 68 x 45	6/10	1-10V/Dynadimmer	929001424480
Xi LP 220W 0.5-1.5A S1 230V I230	Yes	IP67	I230	220	0.5-1.5	73-210	230 x 68 x 45	6/10	1-10V/Dynadimmer	929001424680
Xi LP 220W 0.3-1.05A S1 230V F3	Yes	Built-in	F3-can	220	0.3-1.05	104-314	240 x 64 x 38	6/10	1-10V/Dynadimmer	929001425180
Xi LP 220W 0.3-1.05A S1 TWE I230	Yes	IP67	I230	220	0.3-1.05	104-314	230 x 68x 45	6/10	1-10V/Dynadimmer	929001424880
Xi LP 220W 0.5-1.5A S1 TWE I230	Yes	IP67	I230	220	0.5-1.5	73-210	230 x 68x 45	6/10	1-10V/Dynadimmer	929001425080



# Xitanium Adjustable Output Current

Outdoor

Philips Xitanium LV LED Adjustable Output Current Drivers are specifically designed for maximum flexibility and reliability in low voltage outdoor applications. With superior surge protection, these durable, independently housed drivers deliver consistent, high performance to luminaires even after multiple indirect lightning strikes – an ideal solution for OEMs that need reliable, adjustable output in a rugged independent form factor.

### Features

- Proven robustness and reliable electronic driver design
- Adjustable Output Current with wide window
- Long lifetime, 50K hours at Tc max, to withstand harsh outdoor conditions
- Compact size, fitting with varied and critical luminaires
- Suitable for Class I isolated luminaires
- Authorized certificate: ENEC, CB, CE and CCC

### Benefits

- Low voltage/high current output fits the application of LED strings connecting in parallel
- AOC (Adjustable Output Current) gives the full flexibility to output different currents to spec-in different projects
- Easy adjustment of output current/voltage by only one screwdriver
- Various power wattage drivers that are related to the lumen packages/applications
- Consistent waterproof performance through the lifecycle
- IP rated housing support luminaires without fully sealed gearbox

### Applications

- Road and street lighting
- Area and flood lighting
- Tunnel lighting
- High bay lighting



### Product specifications

Product type	SimpleSet	Housing type	Housing	Max output power	Output current	Output voltage	Dimensions	Surge Protection (DM/CM)	Dimming	Order code
				W	A	V				
Xitanium 100W 2.1-4.2A AOC 230V I220	No	IP65	I220	100	2.1-4.2	12-48	220 x 68 x 45	4/6	No	929001404580
Xitanium 150W 2.45-4.9A AOC 230V I220	No	IP65	I220	150	2.45-4.9	15-61	220 x 68 x 45	4/6	No	929001404480
Xitanium 200W 2.8-5.6A AOC 230V I250	No	IP65	I250	200	2.8-5.6	18-71	220 x 68 x 45	4/6	No	929001404680



# Xitanium Dim Single Current

Outdoor

LED-based light sources are an excellent solution for outdoor environment. They are long-lasting and require low maintenance. However, to get the best out of the LEDs, these light sources require highly reliable and efficient LED Drivers. The new Philips Xitanium Dimmable (1-10V) LED Outdoor Drivers are specifically designed to deliver reliable performance and protection while meeting the strict performance, approbation and application requirements.

## Features

- Proven robustness and reliable electronic driver design
- Achieving highest efficiencies based on advance technology
- Long lifetime, 50K hours at Tc max
- Extreme compact size, fitting with varied and critical luminaires
- Suitable for Class I isolated luminaires
- Authorized certificate: ENEC, CB, CE and CCC
- Long lifetime and high survival rate
- Superior thermal management suitable for outdoor application
- Backed by 5 year warranty from a company you can trust
- Consistent waterproof performance through the lifecycle
- Proven robustness and reliability secure the lowest luminaire maintenance over time
- Component integration in advanced IC enables cost effective design

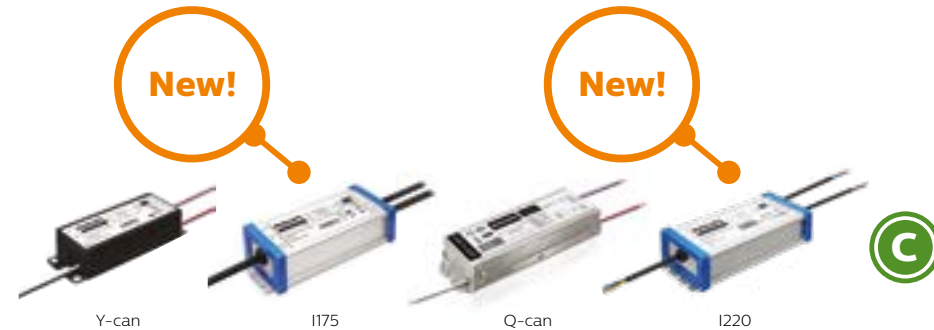
- Extreme compact size, fitting with varied luminaires
- Easy to design-in based on the good thermal management and extra EMI margin

## Applications

- Road and street lighting
- Area and flood lighting
- Tunnel lighting
- High bay lighting

## Benefits

- Robust design, capable of withstanding harsh outdoor conditions



## Product specifications

Product type	SimpleSet	Housing type	Housing	Max output power	Output		Dimensions	Surge Protection (DM/CM)	Dimming	Order code
					W	A				
Xitanium Dim 65W 0.7A 1-10V 230V Y	No	Built-in	Y-can	65	0.7	46-93	168 x 60 x 38	4/4	1-10V	929001426680
Xitanium Dim 65W 1.05A 1-10V 230V Y	No	Built-in	Y-can	65	1.05	30-62	168 x 60 x 38	4/4	1-10V	929001426780
Xitanium Dim 65W 0.7A 1-10V 230V I175	No	IP67	I175	65	0.7	46-93	175 x 68 x 45	4/4	1-10V	929001426280
Xitanium Dim 65W 1.05A 1-10V 230V I175	No	IP67	I175	65	1.05	30-62	175 x 68 x 45	4/4	1-10V	929001426380
Xitanium Dim 100W 0.7A 1-10V 230V Y	No	Built-in	Y-can	100	0.7	64-143	168 x 60 x 38	4/4	1-10V	929001402280
Xitanium Dim 100W 1.05A 1-10V 230V Y	No	Built-in	Y-can	100	1.05	42-95	168 x 60 x 38	4/4	1-10V	929001402380
Xitanium Dim 100W 0.7A 1-10V 230V I175	No	IP67	I175	100	0.7	64-143	175 x 68 x 45	4/4	1-10V	929001401880
Xitanium Dim 100W 1.05A 1-10V 230V I175	No	IP67	I175	100	1.05	42-95	175 x 68 x 45	4/4	1-10V	929001402080
Xitanium Dim 150W 0.7A 1-10V 230V Y	No	Built-in	Y-can	150	0.7	96-214	168 x 60 x 38	4/4	1-10V	929001401680
Xitanium Dim 150W 1.05A 1-10V 230V Y	No	Built-in	Y-can	150	1.05	62-142	168 x 60 x 38	4/4	1-10V	929001401780
Xitanium Dim 150W 0.7A 1-10V 230V I175	No	IP67	I175	150	0.7	96-214	175 x 68 x 45	4/4	1-10V	929001401280
Xitanium Dim 150W 1.05A 1-10V 230V I175	No	IP67	I175	150	1.05	62-142	175 x 68 x 45	4/4	1-10V	929001401480
Xitanium Dim 250W 0.7A 1-10V 230V Q	No	Built-in	Q-can	250	0.7	178-357	241 x 90 x 42	6/6	1-10V	929000838508
Xitanium Dim 250W 1.05A 1-10V 230V Q	No	Built-in	Q-can	250	1.05	118-238	241 x 90 x 42	6/6	1-10V	929001404280
Xitanium Dim 250W 0.7A 1-10V 230V I220	No	IP67	I220	250	0.7	178-357	220 x 94 x 49	6/6	1-10V	929001404706
Xitanium Dim 250W 1.05A 1-10V 230V I220	No	IP67	I220	250	1.05	118-238	220 x 94 x 49	6/6	1-10V	929001405080
Xitanium Dim 150W 0.7A 1-10V TWE I220	No	IP67	I220	150	0.7	90-214	220 x 68 x 45	4/4	1-10V	929001425880
Xitanium Dim 150W 1.05A 1-10V TWE I220	No	IP67	I220	150	1.05	60-143	220 x 68 x 45	4/4	1-10V	929001467780
Xitanium Dim 100W 0.7A 1-10V TWE I220	No	IP67	I220	100	0.7	71-143	220 x 68 x 45	4/4	1-10V	929001402880
Xitanium Dim 100W 1.05A 1-10V TWE I220	No	IP67	I220	100	1.05	41-95	220 x 68 x 45	4/4	1-10V	929001467880
Xitanium Dim 75W 0.7A 1-10V TWE I175	No	IP67	I175	75	0.7	40-117	175 x 68 x 45	4/4	1-10V	929001402780
Xitanium Dim 75W 1.05A 1-10V TWE I175	No	IP67	I175	75	1.05	30-72	175 x 68 x 45	4/4	1-10V	929001467980
Xitanium Dim 35W 0.7A 1-10V TWE I175	No	IP67	I175	35	0.7	18-50	175 x 68 x 45	4/4	1-10V	929001425780

# Xitanium Single Current

Outdoor

LED-based light sources are an excellent solution for outdoor environment. They are long-lasting and require low maintenance. However, to get the best out of the LEDs, these light sources require highly reliable and efficient LED Drivers. The new Philips Xitanium Fixed Output LED Outdoor Drivers are specifically designed to deliver reliable performance and protection while meeting the strict performance, approbation and application requirements.

## Features

- Proven robustness and reliable electronic driver design
- Achieving highest efficiencies based on advance technology
- Long lifetime, 50K hours at Tc max
- Extreme compact size, fitting with varied and critical luminaires
- Suitable for Class I isolated luminaires
- Authorized certificate: ENEC, CB, CE and CCC

## Benefits

- Robust design, capable of withstanding harsh outdoor conditions
- Long lifetime and high survival rate
- Superior thermal management suitable for outdoor application
- Backed by 5 year warranty from a company you can trust
- Consistent waterproof performance through the lifecycle
- Proven robustness and reliability secure the lowest luminaire maintenance over time

- Component integration in advanced IC enables cost effective design
- Extreme compact size, fitting with varied luminaires
- Easy to design-in based on the good thermal management and extra EMI margin

## Applications

- Road and street lighting
- Area and flood lighting
- Tunnel lighting
- High bay lighting



## Product specifications


Product type	SimpleSet	Housing type	Housing	Max output power	Output		Dimensions	Surge protection (DM/CM)	Dimming	Order code
					W	A				
Xitanium 65W 0.7A 230V S157	No	Built-in	S157	65	0.7	65-93	157 x 59 x 39	4/4	No	929001406280
Xitanium 65W 1.05A 230V S157	No	Built-in	S157	65	1.05	42-62	157 x 59 x 39	4/4	No	929001406380
Xitanium 65W 0.7A 230V I160	No	IP67	I160	65	0.7	65-93	160 x 63 x 41	4/4	No	929001405980
Xitanium 65W 1.05A 230V I160	No	IP67	I160	65	1.05	42-62	160 x 63 x 41	4/4	No	929001406080
Xitanium 100W 0.7A 230V Y	No	Built-in	Y-can	100	0.7	64-143	168 x 60 x 38	4/4	No	929001401080
Xitanium 100W 1.05A 230V Y	No	Built-in	Y-can	100	1.05	42-95	168 x 60 x 38	4/4	No	929001401180
Xitanium 100W 0.7A 230V I175	No	IP67	I175	100	0.7	64-143	175 x 68 x 45	4/4	No	929001400680
Xitanium 100W 1.05A 230V I175	No	IP67	I175	100	1.05	42-95	175 x 68 x 45	4/4	No	929001400880
Xitanium 150W 0.7A 230V Y	No	Built-in	Y-can	150	0.7	96-214	168 x 60 x 38	4/4	No	929001400480
Xitanium 150W 1.05A 230V Y	No	Built-in	Y-can	150	1.05	62-142	168 x 60 x 38	4/4	No	929001400580
Xitanium 150W 0.7A 230V I175	No	IP67	I175	150	0.7	96-214	175 x 68 x 45	4/4	No	929001400080
Xitanium 150W 1.05A 230V I175	No	IP67	I175	150	1.05	62-142	175 x 68 x 45	4/4	No	929001400280
Xitanium 150W 0.7A TWE I220	No	IP67	I220	150	0.7	90-214	220 x 68 x 45	4/4	No	929001425980
Xitanium 150W 1.05A TWE I220	No	IP67	I220	150	1.05	60-143	220 x 68 x 45	4/4	No	929001468080
Xitanium 100W 0.7A TWE I220	No	IP67	I220	100	0.7	71-143	220 x 68 x 45	4/4	No	929001402680
Xitanium 100W 1.05A TWE I220	No	IP67	I220	100	1.05	41-95	220 x 68 x 45	4/4	No	929001468180
Xitanium 75W 0.7A TWE I175	No	IP67	I175	75	0.7	40-117	175 x 68 x 45	4/4	No	929001402580
Xitanium 75W 1.05A TWE I175	No	IP67	I175	75	1.05	30-72	175 x 68 x 45	4/4	No	929001468280
Xitanium 40W 0.7A TWE I160	No	IP67	I160	40	0.7	35-57	160 x 63 x 41	4/4	No	929001408780
Xitanium 40W 1.05A TWE I160	No	IP67	I160	40	1.05	23-38	160 x 63 x 41	4/4	No	929001468380
Xitanium 25W 0.7A TWE I160	No	IP67	I160	25	0.7	20-36	160 x 63 x 41	4/4	No	929001408880

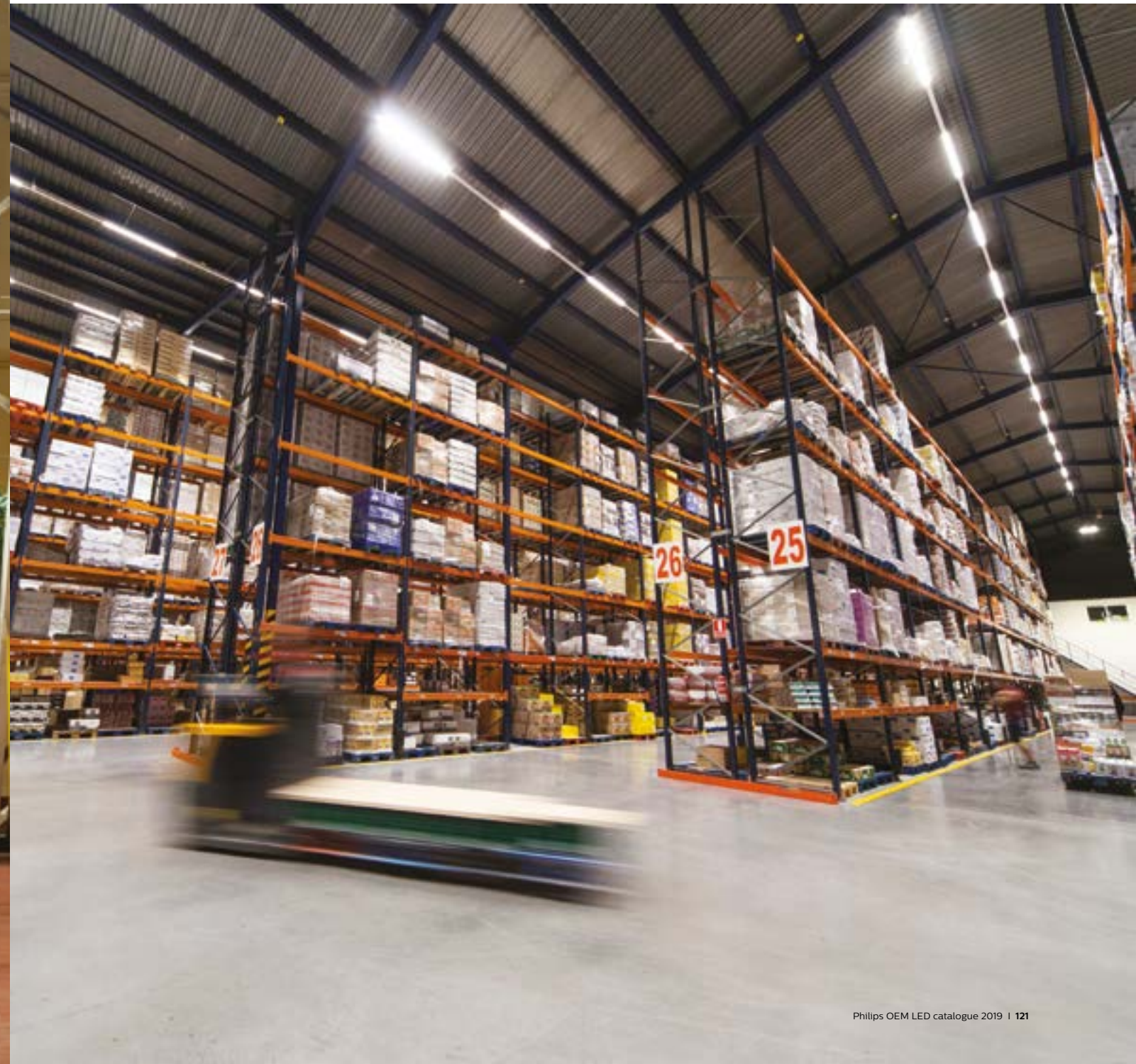




# Industrial Drivers

## Portfolio

Indoor Point Drivers	Dimming		Basic features and performance		
	DALI Dim	1-10V	SimpleSet	Adjustable Output Current (AOC)	Housing/ Installation
 Core	No	Yes	No	No	IP67/Built-in





# Xitanium Dim Single Current High Bay Industrial

LED-based light sources are an excellent solution for highbay industrial applications. They are long-lasting and require low maintenance. However, to get the best out of the LEDs, these light sources require highly reliable and efficient LED Drivers. Philips Xitanium Dimmable (1-10V) LED Outdoor Drivers are specifically designed to deliver reliable performance and protection while meeting the strict performance, approbation and application requirements.

## Features

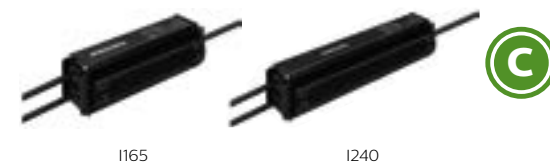
- Proven robustness and reliable electronic driver design
- Achieving highest efficiencies based on advanced technology
- Extremely long lifetime, 50K hours at Tc max, fitting with highbay industrial applications
- Independent / IP67 rated
- Dimmable through 1-10V interface
- Suitable for IEC insulation Class I systems
- Authorized certificate: ENEC, CB, CE and CCC

## Benefits

- Ultimate robustness and reliability secure the lowest luminaires maintenance overtime
- Best in class, thermal performance withstanding harsh High-bay industry applications
- Consistent waterproof performance throughout the lifecycle
- Easy to design-in based on broad compatibility and superior thermal management
- Backed by 5 year warranty from a company you can trust

## Applications

- High bay lighting
- Warehouse lighting
- Big-box retail store lighting



## Product specifications

Product type	Housing type	Housing	Max output power	Output current	Output voltage	Dimensions	Surge protection (DM/CM)	Dimming	Order code
			W	A	V	mm			
Xitanium Dim 100W 1.05A 1-10V 230V I165	IP67	I165	100	1.05	46-95	165 x 73 x 65	4/6	1-10V	929001407980
Xitanium Dim 100W 1.05A 1-10V 230V I165C	IP67	I165	100	1.05	46-95	165 x 73 x 65	4/6	1-10V	929001425680
Xitanium Dim 150W 1.05A 1-10V 230V I165	IP67	I165	150	1.05	71-142	165 x 73 x 65	4/6	1-10V	929001407880
Xitanium Dim 150W 1.05A 1-10V 230V I165C	IP67	I165	150	1.05	71-142	165 x 73 x 65	4/6	1-10V	929001425580
Xitanium Dim 220W 1.05A 1-10V 230V I240	IP67	I240	220	1.05	100-210	241 x 73 x 65	4/6	1-10V	929001407780
Xitanium Dim 220W 1.05A 1-10V 230V I240C	IP67	I240	220	1.05	100-210	241 x 73 x 65	4/6	1-10V	929001408980







# Indoor Point Drivers

## Portfolio

Indoor Point Drivers	Dimming		Basic features and performance		
	DALI Dim	TE Dim	SimpleSet	Adjustable Output Current (AOC)	Driver lifetime times at Tc life (hours)
<b>S</b> Statement	Yes	No	Yes	Yes	50,000
<b>P</b> Performance	No	No	Yes	Yes	50,000
<b>C</b> Core	No	Yes	No	No	50,000
<b>E</b> Entry	No	No	No	No	30,000





## Xitanium Programmable

Point

Our Xitanium programmable window LED drivers ensure OEMs have complete flexibility and control in producing high quality luminaires. Available in application dedicated form factors, our LED point drivers provide further customization via wide operating windows. Additionally, almost all drivers feature the following specifications: SELV, temperature derating, hot wiring, providing OEMs the tools to produce, and even alter later if necessary, premium downlights and spotlights.

### Features

- Dali Dimmable
- Output current can be adjusted via the Philips MultiOne or SimpleSet
- +/-5% output current tolerance
- Power range from 10-75W
- 50,000 hours lifetime

### Benefits

- Drivers designed based on Philips experience and knowledge in conventional fluorescent and HID technologies
- High reliability underpinned by 5 year warranty
- Future-proof flexibility: application-oriented operating windows enable LED generation and complexity management
- Compatibility: can also be used for other manufacturers' modules or OEM's own PCB designs

### Applications

- Downlight
- Track light
- Spotlight



L200



B97



### Product specifications

Product type	SimpleSet	Housing	Max output power	Output current	Output voltage	Dimensions	Dimming	Order code
			W	A	V			
Xitanium 20W/m 0.15-0.5A 54V TD 230V	No	B97	20	0.15-0.5	24-54	97x43x30	Dali	929001419006
Xitanium 36W/m 0.3-1.05A 54V TD 230V	No	B97	36	0.3-1.05	24-54	97x43x30	Dali	929001419106
Xitanium 20W WH 0.15-0.5A 54V TD/Is 230V	Yes	I200	20	0.15-0.5	24-54	200x74x32	Dali & Touch Dim	929000991706
Xitanium 36W WH 0.3-1A 54V TD/Is 230V	Yes	I200	36	0.3-1.0	24-54	200x74x32	Dali & Touch Dim	929000969906
Xitanium 50W WH 0.7-1.5A 54V TD/Is 230V	Yes	I200	50	0.7-1.5	24-54	200x74x32	Dali & Touch Dim	929000991806



Product type	Order code
Strain Relief Blocks DALI	929001430906

## Xitanium Adjustable Output Current (WH Family) Point

Our Xitanium programmable window LED drivers ensure OEMs have complete flexibility and control in producing high quality luminaires. Available in application dedicated form factors, our LED point drivers provide further customization via wide operating windows. Additionally, almost all drivers feature the following specifications: SELV, temperature derating, hot wiring, providing OEMs the tools to produce, and even alter later if necessary, premium downlights and spotlights.

### Features

- Adjustable output current via SimpleSet
- +/-5% output current tolerance
- Low ripple current <=4%
- 50,000 hours lifetime

### Benefits

- Drivers designed based on Philips experience and knowledge in conventional fluorescent and HID technologies
- High reliability underpinned by 5 year warranty
- Future-proof flexibility: application-oriented operating windows enable LED generation and complexity management
- Compatibility: can also be used for other manufacturers' modules or OEM's own PCB designs

### Applications

- Downlight
- Track light
- Spotlight



L200



### Product specifications

Product type	SimpleSet	Housing	Max output power	Output current	Output voltage	Dimensions	Dimming	Order code
			W	A	V			
Xitanium 20W WH 0.15-0.5A 54V Is 230V	Yes	I200	20	0.15-0.5	24-54	200x74x32	No	929001413906
Xitanium 36W WH 0.3-1.05A 54V Is 230V	Yes	I200	36	0.3-1.0	24-54	200x74x32	No	929001414006
Xitanium 50W WH 0.7-1.5A 54V Is 230V	Yes	I200	50	0.7-1.5	24-54	200x74x32	No	929001416806



## Xitanium Adjustable Output Current (Mini Family) Point

Xitanium Mini driver have the same form of conventional HID-Prima vision driver which is widely used in downlight and spot light. The output current can be adjusted by Rset which give OEMs much design flexibility.

### Features

- Adjustable output current via Rset or SimpleSet
- HID-Prima vision mini form with small size
- +/-5% output current tolerance
- Low ripple current <=4%
- THD<=20%
- 50,000 hours lifetime

### Benefits

- Drivers designed based on Philips experience and knowledge in conventional fluorescent and HID technologies
- Different current output set by Rset give high flexibility to OEMs
- Very small size which is easy to be designed in luminaires
- Resolve flickering issue in certain applications

### Applications

- Downlight
- Track light
- Spotlight



B97

### Product specifications

Product type	SimpleSet	Housing	Max output power	Output current	Output voltage	Dimensions mm	Dimming	Order code
			W	A	V			
Xitanium 20W/m 0.15-0.5A 48V 230V	No	B97	20	0.15-0.5	24-48	97x43x30	No	929000893806
Xitanium 36W/m 0.3-1.05A 48V 230V	No	B97	36	0.3-1.05	24-48	97x43x30	No	929000881806
Xitanium 50W/m 0.5-1.5A 48V 230V	No	B97	50	0.3-1.05	24-48	97x43x30	No	929000934606
Xitanium 20W/m 0.15-0.5A 54V 230V	Yes	B97	20	0.15-0.5	24-54	97x43x30	No	929001415006
Xitanium 36W/m 0.3-1.05A 54V 230V	Yes	B97	36	0.3-1.05	24-54	97x43x30	No	929001415106
Xitanium 43W/m 0.7-1.2A 54V 230V	Yes	B97	43	0.7-1.2	24-54	97x43x30	No	929001415206
Xitanium 50W/m 0.7-1.5A 54V 230V	Yes	B97	50	0.7-1.5	24-54	97x43x30	No	929001415306



Product type	Order code
Strain Relief Blocks *	929001461680

\*Remark: suitable for 20W/m, 36W/m, 43W/m only.

## Xitanium Single Current (Mini Family) Point

Xitanium Mini Driver have the same form of conventional HID-Prima vision driver which is widely used in downlight and spotlight. The product range is the most affordable small size driver within the Mini family.

### Features

- HID-Prima vision mini form with small size
- +/-8% output current tolerance
- Low ripple current <=4%
- THD<=20%
- 50,000 hours lifetime

### Benefits

- Drivers designed based on Philips experience and knowledge in conventional fluorescent and HID technologies
- Very small size which is easy to be designed in luminaires
- Resolve flickering issue in certain applications

### Applications

- Downlight
- Track light
- Spotlight



B97

### Product specifications

Product type	SimpleSet	Housing	Max output power	Output current	Output voltage	Dimensions mm	Dimming	Order code
			W	A	V			
Xitanium 16W/m 0.35A 46V SC 230V	No	B97	16	0.35	31-46	97x43x30	No	929001412380
Xitanium 21W/m 0.7A 30V SC 230V	No	B97	21	0.70	20-30	97x43x30	No	929001412580
Xitanium 23W/m 0.5A 46V SC 230V	No	B97	23	0.50	31-46	97x43x30	No	929001412480
Xitanium 28W/m 0.6A 46V SC 230V	No	B97	28	0.60	31-46	97x43x30	No	929001418706
Xitanium 30W/m 0.65A 46V SC 230V	No	B97	30	0.65	31-46	97x43x30	No	929001470806
Xitanium 32W/m 0.7A 46V SC 230V	No	B97	32	0.70	31-46	97x43x30	No	929001412680
Xitanium 34W/m 0.8A 42V SC 230V	No	B97	34	0.80	30-42	97x43x30	No	929001418806
Xitanium 38W/m 0.9A 42V SC 230V	No	B97	38	0.90	30-42	97x43x30	No	929001418906
Xitanium 48W/m 1.05A 46V 230V	No	B97	48	1.05	31-46	97x43x30	No	929001572806



Product type	Order code
Strain Relief Blocks *	929001461680

## Xitanium Single Current

Point

This range provides an affordable selection of point drivers which have 50,000 hours lifetime. The driver specially addresses the flickering issues by low ripple current, making this ideal for camera operation.

### Features

- Small, compact dimensions
- Specific, optimized output current and voltage
- Selectable output current of 27W to 64W
- 4KV/2KV surge of 50W/59W/64W
- Low ripple current <=3%
- THD<=15%
- 50,000 hours lifetime

### Benefits

- Drivers designed based on Philips experience and knowledge in conventional fluorescent and HID technologies
- Various power wattage drivers that are related to the lumen packages/ applications
- Independent version housing design for stand-alone installations
- Resolve flickering issue in certain applications

### Applications

- Downlight
- Track light
- Spotlight
- Panel light



### Product specifications

Product type	SimpleSet	Housing	Max output power	Output current	Output voltage	Dimensions	Dimming	Order code
			W	A	V			
Xitanium 15W 0.35A 42V I 230V	No	I115	15	0.35	32-42	115x45x29	No	929001410180
Xitanium 21W 0.5A 42V I 230V	No	I115	21	0.5	32-42	115x45x29	No	929001410280
Xitanium 27W 0.6/0.65A 42V I 230V G2	No	I108	27	0.6/0.65	30-42	108x68x32	No	929001418280
Xitanium 32W 0.7/0.75A 42V I 230V G2	No	I108	32	0.7/0.75	30-42	108x68x32	No	929001418380
Xitanium 34W 0.9/1.05A 32V I 230V G2	No	I108	34	0.9/1.05	24-32	108x68x32	No	929001418480
Xitanium 36W 0.8/0.85A 42V I 230V G2	No	I108	36	0.8/0.85	30-42	108x68x32	No	929001418580
Xitanium 40W 0.9/0.95A 42V I 230V G2	No	I108	40	0.9/0.95	30-42	108x68x32	No	929001419380
Xitanium 44W 1.0/1.05A 42V I 230V G2	No	I108	44	1.0/1.05	30-42	108x68x32	No	929001418680
Xitanium 50W 1.1/1.2A 42V I 230V	No	I108	50	1.1/1.2	30-42	108x68x32	No	929001423380
Xitanium 59W 1.3/1.4A 42V I 230V	No	I108	59	1.3/1.4	30-42	108x68x32	No	929001423480
Xitanium 64W 1.5/1.6A 40V I 230V	No	I108	64	1.5/1.6	30-40	108x68x32	No	929001423580

## Xitanium Single Current TE

Point

This range provides an affordable selection of point drivers which have 50,000 hours lifetime. The driver provide trailing-edge dimmable features which is popular dimming method.

### Features

- Small, compact dimensions
- +/-5% output current tolerance
- THD<=20%
- 50,000 hours lifetime

### Benefits

- Drivers designed based on Philips experience and knowledge in conventional fluorescent and HID technologies
- Various power wattage drivers that are related to the lumen packages/ applications
- Independent version housing design for stand-alone installations
- Very small size which is easy to be designed in luminare

### Applications

- Downlight
- Track light
- Spotlight



### Product specifications

Product type	SimpleSet	Housing	Max output power	Output current	Output voltage	Dimensions	Dimming	Order code
			W	A	V			
Xitanium 4W 0.1A 40V TE SC 230V	No	B100	4	0.1	29-40	100x50x19	Trailing-Edge	929001420706
Xitanium 6W 0.15A 40V TE SC 230V	No	B100	6	0.15	29-40	100x50x19	Trailing-Edge	929001420806
Xitanium 7W 0.35A 20V TE SC 230V	No	B100	7	0.35	8-20	100x50x19	Trailing-Edge	929001420906
Xitanium 8W 0.2A 40V TE SC 230V	No	B100	8	0.2	29-40	100x50x19	Trailing-Edge	929001421006
Xitanium 10W 0.25A 40V TE SC 230V	No	B100	10	0.25	29-40	100x50x19	Trailing-Edge	929001421106
Xitanium 10W 0.5A 20V TE SC 230V	No	B100	10	0.5	8-20	100x50x19	Trailing-Edge	929001421206
Xitanium 14W 0.35A 40V TE SC 230V	No	B100	14	0.35	29-40	100x50x19	Trailing-Edge	929001421306
Xitanium 15W 0.75A 20V TE SC 230V	No	B100	15	0.75	8-20	100x50x19	Trailing-Edge	929001421406



Product type	Order code
Strain Relief Block TE	929001431106



# Xtanium Track Adaptor Driver (3 circuits)

Point

Track adaptor driver is a great innovation to minimize the track light luminaire in a most reliable and cost effect way.

## Features

- Small, compact dimensions
- Specific, optimized output current and voltage
- 50,000 hours lifetime
- Fast time to market
- Low ripple, low THD
- Suitable for 3 circuits system
- White/Black/Grey colour available
- Standard nipples as accessory

## Benefits

- Drivers designed based on Philips experience and knowledge in conventional fluorescent and HID technologies
- Various power wattage drivers that are related to the lumen packages/ applications
- Fixed output Drivers
- Track adaptor housing design for minimization of track light luminaire

## Applications

- Track light



## Product specifications

Product type	Color	Housing	Max output power	Output current	Output voltage	Dimensions	Dimming	Order code
			W	A	V			
Xtanium 10W/a 0.2/0.25A 40V 3CW 230V	White	I162	10	0.2/0.25	30-40	162x31x44	No	929001475680
Xtanium 20W/a 0.35/0.5A 40V 3CW 230V	White	I162	20	0.35/0.5	30-40	162x31x44	No	929001475780
Xtanium 32W/a 0.7/0.8A 40V 3CW 230V	White	I224	32	0.7/0.8	30-40	224x31x44	No	929001475880
Xtanium 42W/a 0.9/1.05A 40V 3CW 230V	White	I224	42	0.9/1.05	30-40	224x31x44	No	929001475980
Xtanium 10W/a 0.2/0.25A 40V 3CB 230V	Black	I162	10	0.2/0.25	30-40	162x31x44	No	929001476080
Xtanium 20W/a 0.35/0.5A 40V 3CB 230V	Black	I162	20	0.35/0.5	30-40	162x31x44	No	929001476180
Xtanium 32W/a 0.7/0.8A 40V 3CB 230V	Black	I224	32	0.7/0.8	30-40	224x31x44	No	929001476280
Xtanium 42W/a 0.9/1.05A 40V 3CB 230V	Black	I224	42	0.9/1.05	30-40	224x31x44	No	929001476380
Xtanium 10W/a 0.2/0.25A 40V 3CG 230V	Grey	I162	10	0.2/0.25	30-40	162x31x44	No	929001476480
Xtanium 20W/a 0.35/0.5A 40V 3CG 230V	Grey	I162	20	0.35/0.5	30-40	162x31x44	No	929001476580
Xtanium 32W/a 0.7/0.8A 40V 3CG 230V	Grey	I224	32	0.7/0.8	30-40	224x31x44	No	929001476680
Xtanium 42W/a 0.9/1.05A 40V 3CG 230V	Grey	I224	42	0.9/1.05	30-40	224x31x44	No	929001476780



Product type	Order code
Nipples X1 white	929001476880
Nipples X1 black	929001476980
Nipples X1 grey	929001477080

# CertaDrive Mini Family

Point

CertaDriver Mini have the same form of conventional HID-Prima vision driver which is widely used in downlight and spot light. The single current mini family product most affordable small size driver within Mini family.

## Features

- HID-Prima vision mini form with small size
- Affordable LED Drivers
- +/-8% output current tolerance
- 30,000 hours life time

## Benefits

- Drivers designed based on Philips experience and knowledge in conventional fluorescent and HID technologies
- Very small size which is easy to be designed in luminaire
- Resolve flickering issue in certain applications

## Applications

- Downlight
- Track light
- Spotlight



## Product specifications

Product type	SimpleSet	Housing	Max output power	Output current	Output voltage	Dimensions	Dimming	Order code
			W	A	V			
CertaDrive 21W/m 0.5A 42V 230V	No	B97	21	0.5	30-42	97x43x30	No	929001468580
CertaDrive 25W/m 0.6A 42V 230V	No	B97	25	0.6	30-42	97x43x30	No	929001463480
CertaDrive 30W/m 0.7A 42V 230V	No	B97	30	0.7	30-42	97x43x30	No	929001463580
CertaDrive 34W/m 0.8A 42V 230V	No	B97	34	0.8	30-42	97x43x30	No	929001463680
CertaDrive 40W/m 0.9A 44V 230V	No	B97	40	0.9	30-44	97x43x30	No	929001463780
CertaDrive 41W/m 1.05A 39V 230V	No	B97	41	1.05	27-39	97x43x30	No	929001463880



Product type	Order code
Strain Relief Block CertaDrive	929001463980

## CertaDrive Single Current Gen2

Point

These fixed current drivers offer an easy to use solution for essential spot, downlight and panel light applications. The CertaDrive range is designed to meet the market needs for basic lighting. They are therefore ideal for high volume applications and can be used with different type LED light engines. These driver are optimized for Chip On Board (COB) LED technology and are available in a variety of wattages.

### Features

- High reliability
- Luminaire design flexibility to keep stable/constant
- Lumen output and light quality levels
- Fast Time to Market
- One supplier for professional general lighting LED Drivers
- Affordable LED Drivers
- +/- 8% output current tolerance on 2nd generation
- 30,000 hours life time

### Benefits

- Drivers designed based on Philips experience and knowledge in conventional fluorescent and HID technologies
- Various power wattage drivers that are related to the lumen packages/ applications
- Fixed output drivers
- Independent version housing design for stand-alone installations

### Applications

- Downlight
- Track light
- Spotlight



### Product specifications

Product type	SimpleSet	Housing	Max output power	Output current	Output voltage	Dimensions	Dimming	Order code
			W	A	V			
CertaDrive 8W 0.2A 42V I 230V G2	No	I115	8	0.2	30-42	115x45x29	No	929001421780
CertaDrive 11W 0.25A 42V I 230V G2	No	I115	11	0.25	30-42	115x45x29	No	929001421880
CertaDrive 13W 0.3A 42V I 230V G2	No	I115	13	0.3	30-42	115x45x29	No	929001421980
CertaDrive 15W 0.35A 42V I 230V G2	No	I115	15	0.35	30-42	115x45x29	No	929001422080
CertaDrive 17W 0.4A 42V I 230V G2	No	I115	17	0.4	30-42	115x45x29	No	929001422180
CertaDrive 19W 0.45A 42V I 230V G2	No	I115	19	0.45	30-42	115x45x29	No	929001422280
CertaDrive 21W 0.5A 42V I 230V G2	No	I115	21	0.5	30-42	115x45x29	No	929001422380
CertaDrive 25W 0.6A 42V I 230V G2	No	I108	25	0.6	30-42	108x68x32	No	929001414180
CertaDrive 30W 0.7A 42V I 230V G2	No	I108	30	0.7	30-42	108x68x32	No	929001414280
CertaDrive 34W 0.8A 42V I 230V G2	No	I108	34	0.8	30-42	108x68x32	No	929001414380
CertaDrive 38W 0.9A 42V I 230V G2	No	I108	38	0.9	30-42	108x68x32	No	929001414480
CertaDrive 44W 1.05A 42V I 230V G2	No	I108	44	1.05	30-42	108x68x32	No	929001414580

## CertaDrive Single Current (LPF Family)

Point

These fixed current drivers offer an easy to use solution for essential spot, downlight applications. The CertaDrive LPF range is designed to meet the market needs for basic lighting. They are therefore ideal for high volume applications and can be used with different type LED light engines. These drivers have very small size and are optimized for low power factor application.

### Features

- High reliability
- Luminaire design flexibility to keep stable/constant
- Lumen output and light quality levels
- Fast Time to Market
- Low power factor
- Affordable LED Drivers
- +/- 10% output current tolerance
- 30,000 hours life time

### Benefits

- Drivers designed based on Philips experience and knowledge in conventional fluorescent and HID technologies
- Various power wattage drivers that are related to the lumen packages/ applications
- Fixed output drivers
- Independent version housing design for stand-alone installations

### Applications

- Downlight
- Track light
- Spotlight



### Product specifications

Product type	SimpleSet	Housing	Max output power	Output current	Output voltage	Dimensions	Dimming	Order code
			W	A	V			
CertaDrive 6W 0.15A 40V LPF I 230V	No	I88	6	0.15	32-40	88x39x32	No	929001411780
CertaDrive 8W 0.2A 40V LPF I 230V	No	I88	8	0.2	32-40	88x39x32	No	929001409980
CertaDrive 10W 0.25A 40V LPF I 230V	No	I88	10	0.25	32-40	88x39x22	No	929001410006
CertaDrive 12W 0.3A 40V LPF I 230V	No	I88	12	0.3	32-40	88x39x22	No	929001409506
CertaDrive 14W 0.35A 40V LPF I 230V	No	I115	14	0.35	30-40	115x45x29	No	929001480480
CertaDrive 16W 0.4A 40V LPF I 230V	No	I115	16	0.4	30-40	115x45x29	No	929001480580
CertaDrive 18W 0.45A 40V LPF I 230V	No	I115	18	0.45	30-40	115x45x29	No	929001480680
CertaDrive 20W 0.5A 40V LPF I 230V	No	I115	20	0.5	30-40	115x45x29	No	929001480780





# Indoor Linear Drivers

Xitanium and CertaDrive LED Drivers make up a complete portfolio of LED Drivers to support project and high volume trade LED luminaires businesses.

## Portfolio

Indoor Linear Drivers	Dimming		Basic features and performances		
	DALI Dim	1-10V	MultiOne Programmable	Adjustable Output Current (AOC)	Driver lifetime (hours)
<b>S</b> Statement	Yes	No	Yes	Yes	100,000
<b>P</b> Performance	No	Yes	No	Yes	100,000
<b>C</b> Core	No	No	No	No	50,000-100,000
<b>E</b> Entry	No	No	No	No	30,000-50,000





# Xitanium Programmable

Linear

Xitanium LED drivers are designed to operate LED solutions for professional general lighting applications, with non-isolated and isolated drivers to support HV and LV linear systems. Flexibility in luminaire design is assured thanks to an adjustable output current. Application-oriented operating windows offer the flexibility required to provide the stable lumen output and light quality levels that lighting specifiers and architects demand. Reliability is enhanced by specific features that protect the connected LED module, e.g. hot wiring, reduced ripple current and thermal de-rating. With Xitanium programmable indoor linear drivers, it supports light point management and is programmable for all your needs.

## Features

- DALI dimming and programmable
- Isolated (low voltage) and non-isolated (high voltage) versions available
- Operating windows - output current can be adjusted via SimpleSet and the Philips MultiOne Configurator (for all TD Drivers) or with a resistor outside the driver
- Reduced ripple current and thermal de-rating for increased reliability
- iXt LED-Drivers have a Longer life time (100khrs), improved surge and burst (4kV) and Tambient (-40°C to +60°C) specifications
- Central DC operation supported
- Low profile, height down to 11mm for non-isolated drivers

## Benefits

- High voltage systems for up to 95% high efficiency, lowest cost and smallest dimensions
- Low voltage systems involve simpler approbation process and ease of design-in
- High reliability underpinned by 5 year warranty
- Future-proof flexibility – application-oriented operating windows enable LED generation and complexity management
- Compatibility – adjustable output current enables operation of various LED solutions from different manufacturers or OEM own designs
- Low ripple for camera and scanner friendly operation

- More robust LED Drivers for industry applications
- Flicker and noise free dimming with all Touch and DALI LED Drivers due to amplitude dimming (AM)
- Low profile drivers enabling greater luminaire design freedom

## Applications

- Office
- Industry
- Retail
- Public buildings (airports, cinemas, theatres, exhibition halls), distribution centers and shopping malls



## Product specifications

Product type	Isolate	Output power	Output voltage	Uout max	Dimensions	Dimming	Adjustable output current	Order code
		W	V	V				
Xitanium 300W 0.5-1.4A 300V iXt TD 230V	No	85-300	100-300	330	360 x 50 x 28	Dali & Touch Dim	MultiOne, SimpleSet, LEDSet	929001608406
Xitanium 150W 0.2-0.7A 300V iXt TD 230V	No	43-150	100-300	330	360 x 30 x 21	Dali & Touch Dim	MultiOne, SimpleSet, LEDSet	929001516506
Xitanium 100W 0.15-0.5A 300V iXt TD 230V	No	28-100	100-300	330	360 x 30 x 21	Dali & Touch Dim	MultiOne, SimpleSet, LEDSet	929001516406
Xitanium 60W 0.15-0.50A 220V TD11 230V	No	17-60	50-220	250	280 x 30 x 11	Dali & Touch Dim	MultiOne, SimpleSet, LEDSet	929001627606
Xitanium 35W 0.08-0.35A 220V TD11 230V	No	10-35	50-220	250	280 x 30 x 11	Dali & Touch Dim	MultiOne, SimpleSet, LEDSet	929001627706
Xitanium 100W 0.25-0.7A 220V TD16 230V	No	28-100	50-220	250	360 x 30 x 16	Dali & Touch Dim	MultiOne, SimpleSet, LEDSet	929001547306
Xitanium 60W 0.08-0.35A 220V TD16 230V	No	17-60	50-220	250	280 x 30 x 16	Dali & Touch Dim	MultiOne, SimpleSet, LEDSet	929001547206
Xitanium 60W 0.08-0.35A 300V TD16 230V	No	17-60	100-300	330	280 x 30 x 16	Dali & Touch Dim	MultiOne, SimpleSet, LEDSet	929000993206
Xitanium 35W 0.08-0.35A 150V TD16 230V	No	10-35	50-150	180	280 x 30 x 16	Dali & Touch Dim	MultiOne, SimpleSet, LEDSet	929000993106
Xitanium 75W 0.7-2A 54V TD 230V	Yes	21-75	27-54	60	360 x 30 x 21	Dali & Touch Dim	MultiOne, SimpleSet, LEDSet	929001503706
Xitanium 36W 0.3-1A 54V TD 230V	Yes	10-36	27-54	60	360 x 30 x 21	Dali & Touch Dim	MultiOne, SimpleSet, LEDSet	929001503606

# Xitanium Adjustable Output Current

Linear

Xitanium LED Drivers are designed to operate LED solutions for professional general lighting applications, with non-isolated and isolated drivers to support HV and LV linear systems. With Xitanium LED Drivers, flexibility in luminaire design is assured thanks to an adjustable output current. Application-oriented operating windows offer the flexibility required to provide the stable lumen output and light quality levels that lighting specifiers and architects demand. Reliability is enhanced by specific features that protect the connected LED Module, e.g. hot wiring, reduced ripple current and thermal de-rating.

## Features

- Multiple versions – 1-10V dimmable and fixed output, non-isolated and isolated available
- Adjustable Output Current via a resistor outside the driver or SimpleSet tools
- Reduced ripple current and thermal de-rating for increased reliability
- iXt LED-Drivers have a Longer life time (100khrs), improved surge and burst (4kV) and Tambient (-40°C to +60°C) specifications
- Central DC operation supported
- Low profile, height down to 16mm for non-isolated drivers

## Benefits

- High voltage systems for up to 95% high efficiency, lowest cost and smallest dimensions
- Low voltage systems involve simpler approbation process and ease of design-in
- High reliability underpinned by 5 year warranty
- Future-proof flexibility – application-oriented operating windows enable LED generation and complexity management
- Low ripple for camera and scanner friendly operation

- Compatibility – adjustable output current enables operation of various LED solutions from different manufacturers or OEM own designs
- Low profile drivers enabling greater luminaire design freedom

## Applications

- Office
- Industry
- Retail
- Public buildings (airports, cinemas, theatres, exhibition halls), distribution centers and shopping malls



## Product specifications

Product type	Isolate	Output power	Output voltage	Uout max	Dimensions	Dimming	Adjustable output current	Order code
		W	V	V				
Xitanium 150W 0.2-0.7A 300V 230V iXt	No	43-150	100-300	330	360 x 30 x 21	No	SimpleSet, LEDSet	929001506706
Xitanium 100W 0.15-0.5A 300V 230V iXt	No	28-100	100-300	330	360 x 30 x 21	No	SimpleSet, LEDSet	929001506606
Xitanium 75W 0.12-0.4A 220V 1-10V 230V	No	21-75	100-220	250	280 x 30 x 21	1-10V	LEDSet	929000953706
Xitanium 36W 0.12-0.4A 115V 1-10V 230V	No	10-36	50-115	170	280 x 30 x 21	1-10V	LEDSet	929000953606
Xitanium 75W 0.12-0.4A 220V 230V	No	21-75	100-220	330	280 x 30 x 21	No	LEDSet	929000950706
Xitanium 36W 0.12-0.4A 115V 230V	No	10-36	50-115	330	280 x 30 x 21	No	LEDSet	929000950606
Xitanium 100W 0.25-0.7A 220V S 230V	No	28-100	50-220	250	360 x 30 x 21	No	SimpleSet	929001529506
Xitanium 60W 0.08-0.35A 220V S/16 230V	No	17-60	50-220	250	280 x 30 x 16	No	SimpleSet	929001557506
Xitanium 60W 0.08-0.35A 300V S/16 230V	No	17-60	100-300	330	280 x 30 x 16	No	SimpleSet	929001557406
Xitanium 35W 0.08-0.35A 150V S/16 230V	No	10-35	50-150	250	280 x 30 x 16	No	SimpleSet	929001557306
Xitanium 75W 0.7-2A 54V 1-10V 230V	Yes	21-75	27-54	60	424 x 30 x 26.5	1-10V	LEDSet	929000863503
Xitanium 36W 0.3-1A 54V 1-10V 230V	Yes	10-36	27-54	60	360 x 30 x 26.5	1-10V	LEDSet	929000854003
Xitanium 65W 0.5-1.4A 54V S 230V	Yes	18.5-65	27-54	60	360 x 30 x 21	No	SimpleSet, LEDSet	929001571506
Xitanium 36W 0.3-1.05A 54V S 230V	Yes	10-36	27-54	60	360 x 30 x 21	No	SimpleSet, LEDSet	929001571406
Xitanium 75W 0.7-2A 54V 230V	Yes	21-75	27-54	60	360 x 30 x 21	No	LEDSet	929000958806
Xitanium 36W 0.3-1A 54V 230V	Yes	10-36	27-54	60	360 x 30 x 21	No	LEDSet	929000958706



# Xitanium Single Current

Linear

Xitanium LED Drivers with single current output offer industry leading performance and reliability at optimized cost. They are ideal for high volume applications where performance specification is key. These drivers guarantee OEM makers Xitanium performance and Philips reliability but with standard current settings.

## Features

- Low output current tolerance
- High efficiency
- Small dimensions
- Reduced ripple currents
- Specific current and voltage
- 50,000 to 100,000 hours long lifetime
- Low profile, height down to 13mm for isolated drivers

## Benefits

- High voltage systems for highest efficiency and lowest cost
- Low voltage systems involve simpler approbation process and ease of design-in
- High reliability underpinned by 5 year warranty
- Easy design-in with specific output current settings
- Low profile drivers enabling greater luminaire design freedom
- Low ripple for camera and video friendly operation

## Applications

- Office
- Industry
- Retail
- Public buildings (airports, cinemas, theatres, exhibition halls), distribution centers and shopping malls



## Product specifications

Product type	Isolate	Output power	Output voltage	Uout max	Dimensions	Dimming	Order code
		W	V	V			
Xitanium 44W 0.9/1.05A 42V 13 230V	Yes	27-44	30-42	60	250 x 48.6 x13	No	929001425480
Xitanium 25W 0.5/0.6A 42V 13 230V	Yes	15-25.2	30-42	60	250 x 48.6 x 13	No	929001425380
Xitanium 59W 1.2/1.4A 42V 230V	Yes	32.4-58.8	27-42	60	280 x 30 x 21	No	929001420180
Xitanium 57W 0.9/1.05A 54V 230V	Yes	24.3-56.7	27-54	70	280 x 30 x 21	No	929001420080
Xitanium 38W 0.6/0.7A 54V 230V	Yes	19.2-37.8	32-54	70	280 x 30 x 21	No	929001419880
Xitanium 29W 0.5/0.7A 42V 230V	Yes	13.5-29.4	27-42	60	280 x 30 x 21	No	929001419780
Xitanium 30W 0.7A 42V 1-10V 230V I	Yes	21-29.4	30-42	60	195x41x31	Yes	929001486280
Xitanium 34W 0.8A 42V 1-10V 230V I	Yes	24-33.6	30-42	60	195x41x31	Yes	929001486380
Xitanium 38W 0.9A 42V 1-10V 230V I	Yes	27-37.8	30-42	60	195x41x31	Yes	929001486480
Xitanium 44W 1.05A 42V 1-10V 230V I	Yes	31.5-44	30-42	60	195x41x31	Yes	929001486580

# CertaDrive Single Current

Linear

CertaDrive LED Drivers are designed to fulfill the market needs for essential lighting. They are therefore ideal for high volume applications and can be used with CertaFlux LED Modules, or other LED light engines. These drivers offer basic specifications such as specific current and voltage settings, with lifetime of the driver set up to 50,000 hours.

## Features

- High efficiency
- Small dimensions
- Specific current and voltage
- Fast time-to-market
- 30,000 to 50,000 hours lifetime

## Benefits

- High voltage systems for high efficiency, lowest cost and small dimensions
- Low voltage systems involve simpler approbation process and ease of design-in
- Various power/wattage combination which is easy to design
- Low profile drivers enabling greater luminaire design freedom
- Optimized to operate CertaFlux LED Modules
- 3 years warranty

## Applications

- Recessed, surface and suspended luminaires in offices
- Waterproof luminaires and high bay luminaires for industry applications
- Trunking in retail applications



## Product specifications

Product type	Isolate	Output power	Output voltage	Uout max	Dimensions	Dimming	Order code
		W	V	V			
CertaDrive 60W 300mA 200V 230V	No	44-60	145-200	340	210 x 30 x 21	No	929000970006
CertaDrive 60W 360mA 170V 230V	No	43-61	120-170	340	210 x 30 x 21	No	929000975006
CertaDrive 40W 360mA 110V 230V	No	29-42	91-110	300	210 x 30 x 21	No	929000974906
CertaDrive 40W 240mA 160V 230V	No	28-38	116-160	340	210 x 30 x 21	No	929000934906
CertaDrive 30W 330mA 82V 230V	No	20-28	72-82	300	210 x 30 x 21	No	929000974806
CertaDrive 30W 350mA 82V 230V	No	20-29	57-82	340	210 x 30 x 21	No	929000934806
CertaDrive 44W 0.32A 137V 230V	No	30-44	92-137	310	210 x 30 x 21	No	929001598706
CertaDrive 30W 0.29A 102V 230V	No	20-30	68-102	310	210 x 30 x 21	No	929001598606
CertaDrive 30W 0.4A 80V 230V	No	22-30	51-82	400	138 x 25 x 22	No	929001409780
CertaDrive 15W 0.4A 36V 230V	No	13-15	30-42	400	138 x 25 x 22	No	929001409880
CertaDrive 65W 1.4A 46.5V 230V	Yes	44.8-65	32-46.5	70	280 x 30 x 21	No	929001417280
CertaDrive 57W 1.05A 54V 230V	Yes	33.6-57	32-54	70	280 x 30 x 21	No	929001417180
CertaDrive 44W 1.05A 42V 230V	Yes	28.4-44	27-42	60	280 x 30 x 21	No	929001410880
CertaDrive 40W 0.9A 44V 230V	Yes	26-40	29-44	60	280 x 30 x 21	No	929001410980
CertaDrive 38W 0.7A 54V 230V	Yes	20-38	29-54	60	280 x 30 x 21	No	929001411080
CertaDrive 27W 0.5A 54V 230V	Yes	18-27	36-54	60	280 x 30 x 21	No	929001411280
CertaDrive 26W 0.6A 44V 230V	Yes	17.4-26.4	29-44	60	280 x 30 x 21	No	929001411380
CertaDrive 44W 1.05A 42V 230V I	Yes	33.6-44	32-42	60	195 x 41 x 31	No	929001416380
CertaDrive 38W 0.9A 42V 230V I	Yes	28.8-38	32-42	60	195 x 41 x 31	No	929001416280
CertaDrive 34W 0.8A 42V 230V I	Yes	25.6-34	32-42	60	195 x 41 x 31	No	929001416180
CertaDrive 30W 0.7A 42V 230V I	Yes	22.4-30	32-42	60	195 x 41 x 31	No	929001416080





# LED Transformer

## Portfolio

Constant Voltage	Dimming			Basic features and performances	
	DALI Dim	1-10V	Phase cut	Adjustable Output Power	Transformer lifetime (hours)
<b>Performance</b>	No	No	Yes (75W/150W)	PWM (75W/150W)	30,000
<b>Mainstream</b>	No	No	No	-	20,000





## Performance

### Transformer

LED Transformer range are designed to replace switching power supply (non lighting standard product) in matching constant voltage LED Strips in indoor application, therefore upgrade total lighting quality.

Dimmable LED Transformer range are designed to meet the market needs for dimming in specific application

#### Features

- High frequency
- Compact size
- SELV compliant
- Safety protections including overload protection and short circuit protection
- Lifetime 30,000 hours
- Phase cut dimming function for 75W & 150W

#### Benefits

- Optimal performance thanks to the dedicated LED solution
- Safe operation
- Installation friendly, Class II and independent
- 3 years warranty
- CCC, CE, CB certificate

#### Applications

- Hotel, Partially light the space, Living rooms, Corridors
- Retail & Shopping Mall, Cabinet or shelf lighting
- Restaurant, Enhance the ambience, create the mood
- Decoration, Create space and layers, light sculpture



#### Product specifications

Product type	Isolate	Housing	Max output power	Output current	Output voltage	Dimensions	Dimming	Order code
			W	A	V			
LED Transformer 60W 24VDC	Yes	Plastic	60	0.75-2.5	22.8-25.2	180 x 52 x 30	No	913710032267
LED Transformer 120W 24VDC	Yes	Plastic	120	1.5-5	22.8-25.2	300 x 40 x 30	No	913710032567
Dimmable LED Transformer 75W 24VDC	Yes	Metal	75	0.938-3.125	22.8-25.2	213 x 54 x 33	Phase cut	913710033880
Dimmable LED Transformer 150W 24VDC	Yes	Metal	150	1.875-6.25	22.8-25.2	300 x 60 x 45	Phase cut	913710033980

## Mainstream

### Transformer

Economic range LED Transformer range are designed to replace switching power supply (non lighting standard product) in matching constant voltage LED Strips in indoor application, therefore upgrade total lighting quality.

#### Features

- High frequency
- Compact size
- SELV compliant
- Safety protections including overload protection and short circuit protection
- Lifetime 20,000 hours

#### Benefits

- Optimal performance thanks to the dedicated LED solution
- Safe operation
- Installation friendly, Class II
- 2 years warranty
- CCC, CE, CB certificate

#### Applications

- Hotel, Partially light the space, Living rooms, Corridors
- Retail & Shopping Mall, Cabinet or shelf lighting
- Restaurant, Enhance the ambience, create the mood
- Decoration, Create space and layers, light sculpture



#### Product specifications

Product type	Housing	Max output power	Output current	Output voltage	Dimensions	Dimming	Order code
		W	A	V			
Economic LED Transformer 30W 24VDC	Plastic	30	0.375-1.25	22.8-25.2	150 x 40 x 28	No	913710033080
Economic LED Transformer 60W 24VDC	Plastic	60	0.75-2.5	22.8-25.2	211 x 40 x 32	No	913710033180
Economic LED Transformer 120W 24VDC	Plastic	120	1.5-5	22.8-25.2	280 x 40 x 34	No	913710033680
Economic LED Transformer 180W 24VDC	Plastic	180	2-7.5	22.8-25.2	300 x 50 x 35	No	913710033780



## MultiOne configurator

The demands from customers for flexibility and diversity are fast increasing in multi-folds. This is the reason why Philips has introduced simplified tools which allow you to easily configure your drivers for ease of use.

The universal Philips MultiOne configurator is a tool you can use with any Philips programmable driver and configure the functions in your lighting solutions for any application. It has become a must-have in all applications where the lighting system needs to match specific requirements.

### Features

- For use with all Philips LED, fluorescent and HID programmable drivers
- Suitable for standard Windows computers with USB connection
- Different interfaces depending on the installation
- Enables optimization of installation, last minute changes, easy diagnostics and maintenance

### Benefits

- One tool for all Philips configurable drivers, both for conventional and LED Systems
- Flexibility for OEM providing access to the features built into the driver
- Optimized for use in the production process
- Unique tool that combines configuration with diagnostics

### Applications

- General lighting
- Retail lighting
- Outdoor lighting
- Office lighting

## The MultiOne configurator consists of two building blocks

### 1 MultiOne Interface tool



#### LCN8600/00 MultiOne Interface USB2DALI

The interface that can be used with the MultiOne PC software to commission, configure, diagnose drivers via the DALI Interface.



#### LCN9610 or LCN9620 MultiOne SimpleSet Interface

The tools can be used with the MultiOne PC software to configure drivers wireless using SimpleSet® Technology.

### Product specifications

Product type	Order code
LCN8600/00 MultiOne Interface USB2DALI	9137 003 46703
LCN8650/10 MultiOne Interface USB2ZigBee	9137 003 59203
LCN 9610 MultiOne Interface SimpleSet®	9290 009 99400
LCN 9620 MultiOne Interface SimpleSet®	9290 009 99500

### 2 MultiOne Software

#### Supporting MultiOne Software

to be installed on a PC, laptop or production work station.

#### System requirements:

- Windows PC or laptop
- Microsoft windows 7, 8.0, 8.1 (support of Windows XP will stop in end 2015)
- USB 2.0 ports (Two free ports preferred)
- Min 35 MB of free disk space
- Microsoft .NET Framework 3.5 SP1

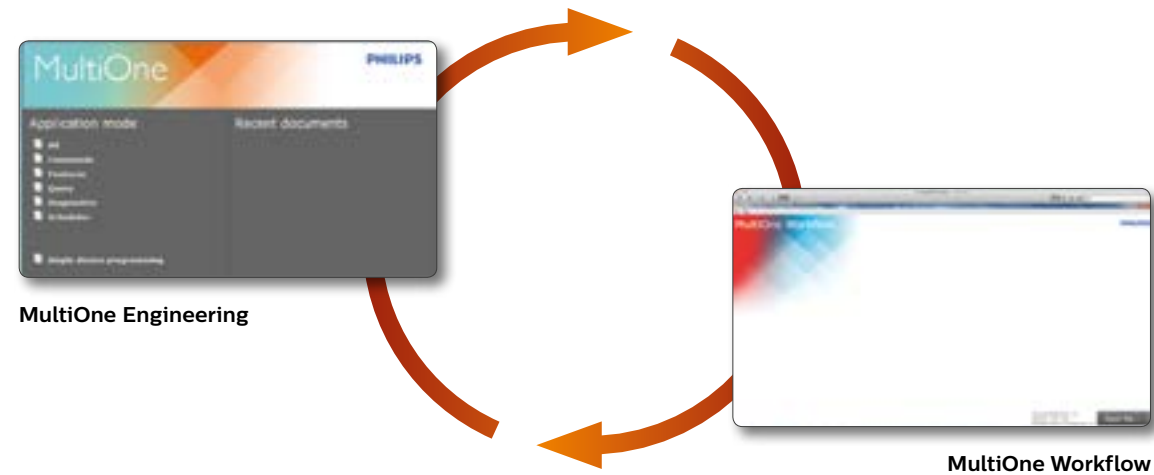
## Free download

Find out more about MultiOne software via [www.philips.com/multiOne](http://www.philips.com/multiOne)



# Philips MultiOne configurator

All programmable Outdoor, Indoor (Linear and Point) LED Systems can be configured with the MultiOne configurator. Also all existing programmable conventional Philips Systems, HID and FLUO can be configured with the same tool. Using the unique tool along with the installation of the software makes flexibility comes alive, providing you with access to all featured built in within the driver.



**The MultiOne configurator software** is free and downloadable from our website. It consists of:

## 1. MultiOne Engineering

Specially developed to access all functionalities of the driver; to configure, diagnose and prepare the configuration file for the production environment.

Also includes:

- DALI commands, scheduler
- SimpleSet®

## 2. MultiOne Workflow

Developed to configure all devices or subassemblies in the production environment in a simple and quick way.

Depending on the type of driver, a combination of features can be configured. With these features, one can create diversity (e.g. Adjustable Light Output and Adjustable Output Current), but also extra security (e.g. Module temperature protection and DC emergency), including costdown improvements (e.g. Constant light output, Dynadimmer and Corridor mode).

Detailed explanations of each feature and how to configure, are available in the instruction manual on our website.

[www.philips.com/MultiOne](http://www.philips.com/MultiOne)

Configurable device features
Active cooling
Module temperature protection
DC emergency
End of life indication
Light source operating hours
Energy meter
Lamp burn-in
Lamp selection
Quick lamp start
Adjustable output current
Adjustable light output
Adjustable startup time
Constant light output
Constant light output Lite
Dimming interface
1-10 V dim level
AmpDim
LumiStep
LineSwitch
Touch and dim
Min dim level
Dynadimmer
Dynadimmer Lite
Corridor mode





# LED Lamps

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# LED spot

**Light quality and reliability is vital for hospitality, retail segment.** Quality light provides right ambience and light effect needed for space. Low maintenance means lowered operating costs and no business disruption, making sure customers are happy and keep coming back.



# Master LED MR16 ExpertColor

Spot

Master ExpertColor LED MR16 creates a warm and comfortable ambience for hospitality venues, homes and restaurants. It creates such an ambience with superior lighting that has a customized spectrum, high CRI, and deep dimming feature. The result? A beautiful lighting experience. The innovative, trimless lens design will also suit almost any interior decor with its clean and neat look. The Master ExpertColor LED MR16 is well designed and robust, offering a variety of beam angles to manage a clearly defined beam spread suitable across various applications. There is no UV or IR in the beam, making it suitable for illuminating heat-sensitive objects (food, organic materials, paintings, etc.). The patented intelligent driver enables broad compatibility with existing electromagnetic and electronic halogen transformers

## Features

- Customized color spectrum replicates halogen light color
- Deep and smooth dimming
- Best-in-class color realization, CRI97
- Innovative, trimless design with V-groove lens
- Lifetime of 40,000 hours

## Benefits

- Warm, comfortable ambience
- Dim to the right level
- Furnishings and fabrics look great
- creates integrated look with minimal design to suit every application
- Efficient and sustainable, up to 85% energy savings compared to halogen lamp
- Broad compatibility with transformers
- Hassle-free retrofit solution, Retrofits into vast majority of GU5.3 based fixtures & E210 based fixtures

## Applications

- Hospitality: hotel guest room, corridors, lobby, reception area, restaurants, bars, cafes
- Home: living room, bedrooms, hall way
- Retail: exhibitions, display cabinets, shops, dressing rooms
- Perfect for hospitality suites and guest rooms requiring adjustable settings



## Product specifications

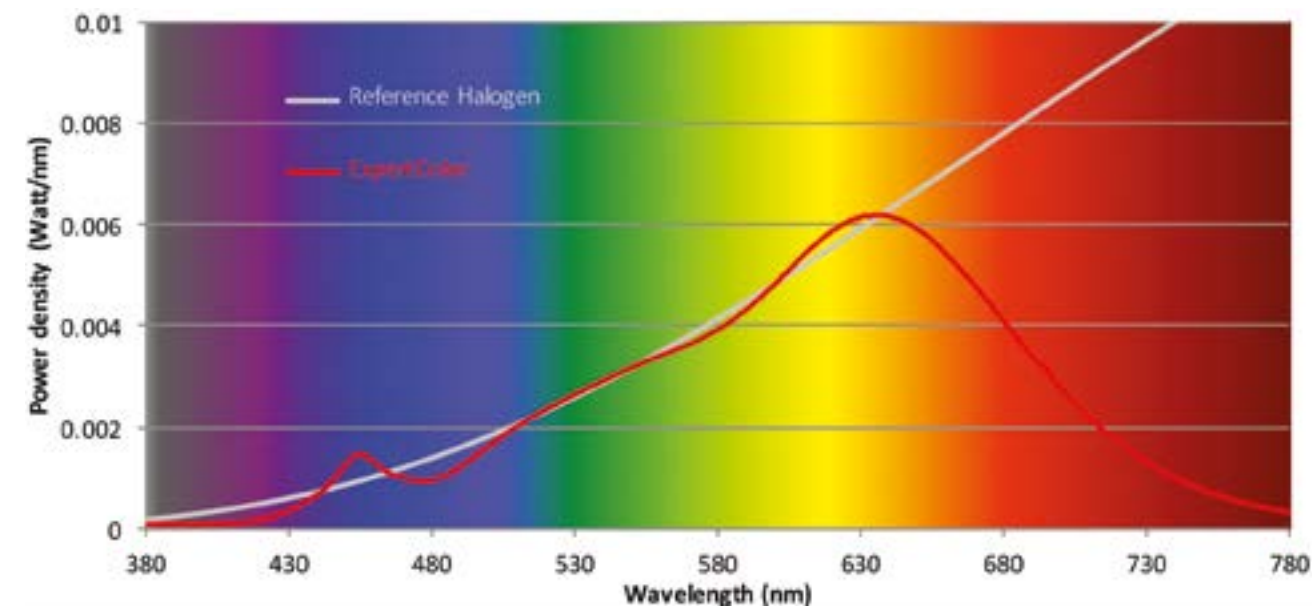
Product type	Power wattage	Replaced wattage	Base	Beam angle	Lumen	Color temp.	Intensity	Lifetime	CRI	Voltage	Dimming	Order code
	W	W		(°)	lm	K	Cd	Hours	Ra	V		12NC
MAS LED MR16 ExpertColor 7.2-50W 927 10D	7.2	50	GU5.3	10	450	2700	4500	40000	97	12	Yes	929001241908
MAS LED MR16 ExpertColor 7.2-50W 930 10D	7.2	50	GU5.3	10	480	3000	5000	40000	97	12	Yes	929001242008
MAS LED MR16 ExpertColor 7.2-50W 940 10D	7.2	50	GU5.3	10	480	4000	5000	40000	97	12	Yes	929001242108
MAS LED MR16 ExpertColor 7.2-50W 927 24D	7.2	50	GU5.3	24	450	2700	2200	40000	97	12	Yes	929001242208
MAS LED MR16 ExpertColor 7.2-50W 930 24D	7.2	50	GU5.3	24	480	3000	2400	40000	97	12	Yes	929001242308
MAS LED MR16 ExpertColor 7.2-50W 940 24D	7.2	50	GU5.3	24	480	4000	2400	40000	97	12	Yes	929001242408
MAS LED MR16 ExpertColor 7.2-50W 927 36D	7.2	50	GU5.3	36	450	2700	1350	40000	97	12	Yes	929001242508
MAS LED MR16 ExpertColor 7.2-50W 930 36D	7.2	50	GU5.3	36	480	3000	1450	40000	97	12	Yes	929001242608
MAS LED MR16 ExpertColor 7.2-50W 940 36D	7.2	50	GU5.3	36	480	4000	1450	40000	97	12	Yes	929001242708
MAS LED MR16 ExpertColor 7.2-50W 927 60D	7.2	50	GU5.3	60	450	2700	410	40000	97	12	Yes	929001341408
MAS LED MR16 ExpertColor 7.2-50W 930 60D	7.2	50	GU5.3	60	480	3000	440	40000	97	12	Yes	929001341508
MAS LED MR16 ExpertColor 7.2-50W 940 60D	7.2	50	GU5.3	60	480	4000	440	40000	97	12	Yes	929001341608
MAS MR16 ExpertColor 7.2-50W 927 10D EZ10	7.2	50	EZ10	10	450	2700	4500	40000	97	12	Yes	929001302318
MAS MR16 ExpertColor 7.2-50W 930 10D EZ10	7.2	50	EZ10	10	480	3000	5000	40000	97	12	Yes	929001302418
MAS MR16 ExpertColor 7.2-50W 940 10D EZ10	7.2	50	EZ10	10	480	4000	5000	40000	97	12	Yes	929001302518
MAS MR16 ExpertColor 7.2-50W 927 24D EZ10	7.2	50	EZ10	24	450	2700	2200	40000	97	12	Yes	929001302618
MAS MR16 ExpertColor 7.2-50W 930 24D EZ10	7.2	50	EZ10	24	480	3000	2400	40000	97	12	Yes	929001302718
MAS MR16 ExpertColor 7.2-50W 940 24D EZ10	7.2	50	EZ10	24	480	4000	2400	40000	97	12	Yes	929001302818
MAS MR16 ExpertColor 7.2-50W 927 36D EZ10	7.2	50	EZ10	36	450	2700	1350	40000	97	12	Yes	929001302918
MAS MR16 ExpertColor 7.2-50W 930 36D EZ10	7.2	50	EZ10	36	480	3000	1450	40000	97	12	Yes	929001303018
MAS MR16 ExpertColor 7.2-50W 940 36D EZ10	7.2	50	EZ10	36	480	4000	1450	40000	97	12	Yes	929001303118

# ExpertColor

Experience perfect color with our new LED technology

The ExpertColor technology offers superb light quality with **best-inclass color realization**. The advanced phosphor technology provides high color fidelity with a **color rendering index of 97**, enhanced rendering of reds (**R9 >85**). So you can bring out the true colors in furnishings and interior decors to add even more appeal.

MASTER LED MR16 ExpertColor features an optimized light spectrum to create a warm ambience that until now was only possible with traditional halogen lamps.



ExpertColor replicates halogen light color. ExpertColor offers **93.9%** close to halogen light color, standard LED offers around 60%.



# Master LED MR16

Spot

Delivering intense accent beam, MASTER LED MR16 is an ideal retrofit solution for spot light. Thanks to its high CRI, it realize more natural colors, enabling cozy and comfortable ambience for residential, hospitality and emphasize the beauty of merchandise in retail. MASTER LED MR16 is compatible with most existing fixtures with a MR16 GU 5.3 holder and designed as a retrofit replacement for halogen or incandescent spots. Not only it employ Philips' patented solution to guarantee the broadest possible compatibility with standard 12V halogen electronic transformers, it also delivers high beam intensity which equivalent to halogen MR16 spots. The dimming function enables to create the desired atmosphere and it works with broad selection of dimmers. MASTER LED MR16 delivers huge energy savings and minimizes maintenance cost without any compromise on brightness, enabling residential owners and business owners to achieve a return on their investment within short period time with its efficiency energy use and long life time. There is no UV or IR in the beam, making it suitable for illuminating heat-sensitive objects (food, organic materials, paintings, etc.).

## Features

- Dimmable (7W and 8W versions)
- Patented intelligent driver
- Air movement mechanism
- Lifetime of 25,000~40,000 hours
- CRI80~90

## Benefits

- High intensity of beam equivalent to halogen spots
- Better color realization with high CRI value

- Clearly defined beam spread for accent lighting
- Compatible with an extensive range of transformers and smooth dimming for dimmable products
- High lumen maintenance with long lifetime
- Up to 80% energy savings compared to halogen lamp
- Can be retrofitted with low-voltage MR16 halogen lamps with GU5.3 sockets

## Applications

- Ideal for accent lighting in hotels, hospitals, shops and museums (e.g. floors, elevators, displays)
- Dimmable versions are perfect for hospitality suites and guest rooms requiring adjustable settings



## Product specifications

Product type	Lamp wattage	Replaced wattage	Color temp.	Beam angle	Lumen	MBCP	Lifetime	CRI	Voltage	Dimming	Order code
	W	W	K	(°)	lm		Hours	Ra	V		12NC
MASTER LED 7-50W 927 MR16 10D Dim	7	50	2700	10	500	5300	40000	90	12	Yes	929001879508
MASTER LED 7-50W 930 MR16 10D Dim	7	50	3000	10	500	5300	40000	90	12	Yes	929001879608
MASTER LED 7-50W 940 MR16 10D Dim	7	50	4000	10	530	5600	40000	90	12	Yes	929001879708
MASTER LED 7-50W 927 MR16 24D Dim	7	50	2700	24	500	2500	40000	90	12	Yes	929001879808
MASTER LED 7-50W 930 MR16 24D Dim	7	50	3000	24	500	2500	40000	90	12	Yes	929001879908
MASTER LED 7-50W 940 MR16 24D Dim	7	50	4000	24	530	2700	40000	90	12	Yes	929001880008
MASTER LED 7-50W 927 MR16 36D Dim	7	50	2700	36	500	1400	40000	90	12	Yes	929001880108
MASTER LED 7-50W 930 MR16 36D Dim	7	50	3000	36	500	1400	40000	90	12	Yes	929001880208
MASTER LED 7-50W 940 MR16 36D Dim	7	50	4000	36	530	1500	40000	90	12	Yes	929001880308
MASTER LED 7-50W 927 MR16 60D Dim	7	50	2700	60	500	500	40000	90	12	Yes	929001880408
MASTER LED 7-50W 930 MR16 60D Dim	7	50	3000	60	500	500	40000	90	12	Yes	929001880508
MASTER LED 7-50W 940 MR16 60D Dim	7	50	4000	60	530	550	40000	90	12	Yes	929001880608
MASTER LED 8-50W+ 827 MR16 24D Dim	8	50	2700	24	660	3100	40000	80	12	Yes	929001881308
MASTER LED 8-50W+ 830 MR16 24D Dim	8	50	3000	24	660	3250	40000	80	12	Yes	929001881408
MASTER LED 8-50W+ 827 MR16 36D Dim	8	50	2700	36	660	1700	40000	80	12	Yes	929001881608
MASTER LED 8-50W+ 830 MR16 36D Dim	8	50	3000	36	660	1700	40000	80	12	Yes	929001881708
MASTER LED 8-50W+ 840 MR16 36D Dim	8	50	4000	36	710	1800	40000	80	12	Yes	929001881808

## Product specifications

Product type	Lamp wattage	Replaced wattage	Color temp.	Beam angle	Lumen	MBCP	Lifetime	CRI	Voltage	Dimming	Order code
	W	W	K	(°)	lm		Hours	Ra	V		12NC
MASTER LED 6.5-50W 927 MR16 24D ND	6.5	50	2700	24	470	2300	40000	90	12	No	929001881908
MASTER LED 6.5-50W 930 MR16 24D ND	6.5	50	3000	24	470	2300	40000	90	12	No	929001882008
MASTER LED 6.5-50W 940 MR16 24D ND	6.5	50	4000	24	520	2500	40000	90	12	No	929001882108
MASTER LED 6.5-50W 927 MR16 36D ND	6.5	50	2700	36	470	1400	40000	90	12	No	929001882208
MASTER LED 6.5-50W 930 MR16 36D ND	6.5	50	3000	36	470	1400	40000	90	12	No	929001882308
MASTER LED 6.5-50W 940 MR16 36D ND	6.5	50	4000	36	520	1500	40000	90	12	No	929001882408

# Master LED MR11

Spot

Philips 12V MR11 LED lamps is the latest product in series of low voltage (12VAC), Halogen MR11 replacement.

### Features

- Clearly defined beam spread
- UV and IR free light

### Benefits

- Up to 80% energy savings compared to a 20W halogen MR11
- Long lifetime of 15,000-40,000 hours
- Retrofit into a vast majority of luminaires with GU4 sockets
- Good for heat sensitive objects like organic, food, leather goods, paintings

### Applications

- Hospitality: hotel, restaurant, café, bar
- Retail: display cabinet, museum
- Home: kitchen, wardrobe, cabinet, etc.



### Product specifications

Product type	Power wattage	Replaced wattage	Beam angle	Lumen	Color temp.	Intensity	Lifetime	CRI	Voltage	Dimming	Order code
	W	W	(°)	lm	K	Cd	Hours	Ra	V		12NC
CorePro LED spot 2.3-20W 827 MR11 36D	2.3	20	2700	36	200	400	25000	80	12	No	929002066402

# High Lumen MR16

Spot

Philips high lumen LED MR16 brings out the true beauty of the merchandise by intense light with small form factor. It provides the right light to emphasize the merchandise and create bright and refreshing shopping environment. Not only its superior light quality, its innovative, trim-less V-groove lens will suit any kind of store interior without creating techy look. It is a hasslefree retrofit solution. It fits most of luminaires to make re-lamping and renovation projects as easy as possible.

### Features

- High lumen output
- Strong punch effect in light beam
- Trimless design with V-groove lens
- Strong color maintenance and lumen maintenance
- Dimmable with dimmable driver use
- High efficiency with 50,000 hr lifetime
- Retrofit
- No UV and Cool Beam(no IR)

### Benefits

- Emphasize merchandise display with strong intensive light
- Trimless design enables integrated look with luminaires to suit any kind of store interior style
- Strong performance of color realization and light effect stays over time
- Working with dimmable LED driver to enable dimmability
- Hassle free retrofit solution with GU5.3 luminaires
- Safe for illuminating heat-sensitive objects (food, organic materials, paintings, etc.)

### Applications

- Retail stores: Fashion retail, Cosmetics retail, Jewelry
- Store's display area. Window display area, dressing
- Rooms
- Museum: display area for artworks
- Exhibition



### Product specifications

Product type	Power wattage	Base	Beam angle	Lumen	Color temp.	Intensity	Lifetime	CRI	Voltage	Dimming	Order code
	W		(°)	lm	K	Cd	Hours	Ra	V		12NC
MR16 1200 827 36D	9	GU5.3	36	1200	2700	2300	50000	80	36-40	Yes	929001814308
MR16 1200 830 36D	9	GU5.3	36	1200	3000	2300	50000	80	36-40	Yes	929001814408
MR16 1200 840 36D	9	GU5.3	36	1300	4000	2500	50000	80	36-40	Yes	929001817808
MR16 1000 927 36D	10-12	GU5.3	36	1000	2700	1900	50000	90	36-40	Yes	929001918210
MR16 1000 930 36D	10-12	GU5.3	36	1000	3000	1900	50000	90	36-40	Yes	929001918310
MR16 1000 940 36D	10-12	GU5.3	36	1000	4000	1900	50000	90	36-40	Yes	929001918410
MR16 800 927 24D	10-12	GU5.3	24	800	2700	3500	50000	90	36-40	Yes	929001918510
MR16 800 930 24D	10-12	GU5.3	24	800	3000	3500	50000	90	36-40	Yes	929001918610
MR16 800 940 24D	10-12	GU5.3	24	800	4000	3500	50000	90	36-40	Yes	929001918710

\* CRI90 version will be launched in 2018 Q2, final spec has not fixed yet.



# Master LED GU10 & Essential LED GU10

Spot

Master LED ExpertColor GU10 creates a warm and comfortable ambience for hospitality venues, homes and restaurants. It creates such an ambience with superior light quality that has a customized spectrum, high CRI, and deep dimming feature. These LEDspots has familiar look and feel of glass spot, it keeps classic beauty of glass spot and strong performance from LED technology. The innovative, trimless lens design will also suit most of interior decor style. Master LED ExpertColor GU10 is compatible with most existing fixtures with a GU10 holder and designed as a retrofit replacement for halogen GU10 lamps.

## Features

- Compatible with an extensive range of dimmers
- Lifetime of 15,000 to 40,000 hours
- Clearly defined beam spread
- UV- and IR-free light for less heat and protection for heat-sensitive objects

## Benefits

- Up to 80% energy savings compared to halogen lamp
- Easy retrofit
- Lower maintenance costs

## Applications

- Retail
- Hospitality
- Residential/Home

Expert  
Color



ExpertColor GU10



Master GU10



Essential GU10

## Product specifications

Product type	Lamp wattage	Replaced wattage	Color temp.	Beam angle	Lumen	MBCP	Lifetime	CRI	Voltage	Dimming	Order code
	W	W	K	(°)	lm		Hours	Ra	V		12NC
MAS LED ExpertColor 5.5-50W GU10 927 24D	5.5	50	2700	24	385	1000	40000	97	220-240	Yes	929001347008
MAS LED ExpertColor 5.5-50W GU10 930 24D	5.5	50	3000	24	405	1000	40000	97	220-240	Yes	929001347108
MAS LED ExpertColor 5.5-50W GU10 927 36D	5.5	50	2700	36	385	800	40000	97	220-240	Yes	929001347308
MAS LED ExpertColor 5.5-50W GU10 930 36D	5.5	50	3000	36	405	800	40000	97	220-240	Yes	929001347408
Master LED 5-50W GU10 927 36D Dim	5	50	2700	36	395	650	25000	90	220-240	Yes	929001348808
Master LED 5-50W GU10 930 36D Dim	5	50	3000	36	405	650	25000	90	220-240	Yes	929001348908
Master LED 5-50W GU10 940 36D Dim	5	50	4000	36	420	700	25000	90	220-240	Yes	929001349008
Essential LED 4.6-50W GU10 827 36D	4.6	50	2700	36	395	700	15000	80	220-240	No	929001215208
Essential LED 4.6-50W GU10 830 36D	4.6	50	3000	36	/	740	15000	80	220-240	No	929001218108
Essential LED 4.6-50W GU10 865 36D	4.6	50	6500	36	430	770	15000	80	220-240	No	929001218308
MAS LED spot VLE D 7.5-80W GU10 830 36D	7.5	80	3000	36	650	800	25000	90	220-240	Yes	929002068402
MAS LED spot VLE D 7.5-80W GU10 840 36D	7.5	80	4000	36	680	800	25000	90	220-240	Yes	929002066002
MAS LED spot VLE D 7.5-80W GU10 865 36D	7.5	80	6500	36	680	800	25000	90	220-240	Yes	929002209902
MAS LED spot VLE D 7.5-80W GU10 830 120D	7.5	80	3000	120	650	800	25000	90	220-240	Yes	929002210002
MAS LED spot VLE D 7.5-80W GU10 840 120D	7.5	80	4000	120	680	800	25000	90	220-240	Yes	929002210102
MAS LED spot VLE D 7.5-80W GU10 865 120D	7.5	80	6500	120	680	800	25000	90	220-240	Yes	929002210202



# Master LED AR111

Spot

With its new Perfect-fit design, the Philips LED AR111 now works with most luminaires in the market as a true retrofit. The lamp creates a brilliant visual effect for retail and hospitality applications like shops, showrooms and galleries. The high quality light brings out the true colors in merchandise, including reds. Philips LED AR111 is an ideal retrofit solution for spot, track and general lighting applications in the hospitality and retail industry. The robustly designed Philips LED AR111 offers a well defined beam with a multitude of beam angles to suit various applications. This replacement lamp on 12V provides the light intensity and quality produced by traditional halogen lamps of 50W, 75W or 100W.

### Features

- Patented intelligent driver
- Lifetime of 25,000 to 40,000 hours
- Low energy consumption
- Clearly defined beam spread
- UV- and IR-free light for less heat and protection for heat-sensitive objects

### Benefits

- Up to 80% energy savings compared to halogen lamp
- Broad compatibility with transformers
- Easy retrofit

### Applications

- Retail, F&B, hospitality
- Galleries, museums, exhibitions, lobbies, corridors, stairwells, washrooms, reception areas



### Product specifications

Product type	Lamp wattage	Replaced wattage	Color temp.	Beam angle	Lumen	MBCP	Lifetime	CRI	Voltage	Dimming	Order code
	W	W	K	(°)	lm		Hours	Ra	V		12NC
MAS LEDspotLV D 11-50W 927 AR111 8D	11	50	2700	8	560	7800	40000	90	12	Yes	929001243908
MAS LEDspotLV D 11-50W 930 AR111 8D	11	50	3000	8	580	8000	40000	90	12	Yes	929001244008
MAS LEDspotLV D 11-50W 927 AR111 24D	11	50	2700	24	620	2900	40000	90	12	Yes	929001169808
MAS LEDspotLV D 11-50W 930 AR111 24D	11	50	3000	24	640	3000	40000	90	12	Yes	929001169908
MAS LEDspotLV D 11-50W 927 AR111 40D	11	50	2700	40	620	1100	40000	90	12	Yes	929001170008
MAS LEDspotLV D 11-50W 930 AR111 40D	11	50	3000	40	640	1150	40000	90	12	Yes	929001170108
MAS LEDspotLV D 15-75W 927 AR111 24D	15	75	2700	24	830	3900	40000	90	12	Yes	929001170208
MAS LEDspotLV D 15-75W 930 AR111 24D	15	75	3000	24	840	4000	40000	90	12	Yes	929001170308
MAS LEDspotLV D 15-75W 927 AR111 40D	15	75	2700	40	830	1400	40000	90	12	Yes	929001170408
MAS LEDspotLV D 15-75W 930 AR111 40D	15	75	3000	40	840	1450	40000	90	12	Yes	929001170508
MAS LEDspotLV D 20-100W 830 AR111 12D	20	100	3000	12	1350	10000	25000	80	12	Yes	929001170608
MAS LEDspotLV D 20-100W 840 AR111 12D	20	100	4000	12	1400	11000	25000	80	12	Yes	929001170708
MAS LEDspotLV D 20-100W 827 AR111 24D	20	100	2700	24	1300	5800	25000	80	12	Yes	929001170808
MAS LEDspotLV D 20-100W 830 AR111 24D	20	100	3000	24	1350	6000	25000	80	12	Yes	929001170908
MAS LEDspotLV D 20-100W 840 AR111 24D	20	100	4000	24	1400	6100	25000	80	12	Yes	929001171008
MAS LEDspotLV D 20-100W 827 AR111 40D	20	100	2700	40	1300	2300	25000	80	12	Yes	929001171108
MAS LEDspotLV D 20-100W 830 AR111 40D	20	100	3000	40	1350	2350	25000	80	12	Yes	929001171208
MAS LEDspotLV D 20-100W 840 AR111 40D	20	100	4000	40	1400	2400	25000	80	12	Yes	929001171308

# Master LED PAR & Essential LED PAR

Spot

With its robust design and warm-white beam of light, these new-generation PAR lamps are ideal for general lighting and spot lighting in the hospitality industry. Dimmable and non-dimmable models are available for your careful selection to meet various application needs. They are especially suitable for public areas such as lobbies, corridors, stairwells, where the light is always on. Compatible with existing fixtures with an E27 holder and designed for retrofit replacement of halogen or incandescent lamps, Philips Master LEDspot PAR brings you huge energy savings while minimizing maintenance costs without any reduction in brightness. The dimmable PAR20 in particular, is a perfect retrofit replacement for an incandescent spot.

### Features

- Lifetime of 15,000 to 25,000 hours
- Dim & Non Dimmable
- UV and IR-free, ideal for lighting heat-sensitive objects
- Free of mercury and hazardous materials

### Benefits

- Up to 80% energy savings compared to halogen lamp
- Easy retrofit and compatible with existing fixtures with E27 holder
- Lower maintenance costs

### Applications

- Retail
- Hospitality



### Product specifications

Product type	Lamp wattage	Replaced wattage	Color temp.	Beam angle	Lumen	MBCP	Lifetime	CRI	Voltage	Dimming	Order code
	W	W	K	(°)	lm		Hours	Ra	V		12NC
Essential LED 9-75W PAR30S 827 25D	9	75	2700	25	850	3000	15000	80	220-240	No	929001389608
Essential LED 10-80W PAR38 827 25D	10	80	2700	25	900	1800	15000	80	220-240	No	929001322708
MAS LEDspot D 6-50W E27 827 PAR20 25D	6	50	2700	25	520	1500	25000	80	220-240	Yes	929001317408
MAS LEDspot D 12-100W E27 927 PAR30S 25D	12	100	2700	25	1000	3000	25000	90	220-240	Yes	929002030808
MAS LEDspot D 13-100W E27 927 PAR38 25D	13	100	2700	25	1000	4000	25000	90	220-240	Yes	929001322508



# High Lumen PAR30L

Spot

Philips 220-240V High Lumen PAR30L integrates a leading COB LED light source and a compact high efficiency driver into a traditional CDM PAR30L form-factor. It brings out the beauty in merchandise with brighter, high performance lighting.

### Features

- Lifetime 25,000 hours (B50, L70)
- Emits virtually no heat and will not fade colors
- Discharges virtually no UV/IR light
- Environmental friendly, RoHS compliant, contains no Mercury or other hazardous substances

### Benefits

- Up to 54% energy savings compared to standard CDM lamps
- Lower initial investment for LED CDM replacement PAR30
- Easy retrofit and compatible with existing fixtures with E27 holder
- High efficiency solution >100lm/W
- Lower maintenance costs
- Safe design with over temperature protection (OTP)

### Applications

- Retail
- Hospitality



Retail LED PAR30  
20W, 32W, 40W

### Product specifications

Product type	Lamp wattage	Replaced wattage	Color temp.	Beam angle	Lumen	MBCP	Lifetime	CRI	Voltage	Dimming	Order code
	W	W	K	(°)	lm		Hours	Ra	V		12NC
Master LED PAR30L 20W 15D 830	20	35	3000	15	1800	18000	25000	82	220-240	No	929001353808
Master LED PAR30L 20W 15D 840	20	35	4000	15	1850	18500	25000	82	220-240	No	929001353908
Master LED PAR30L 20W 30D 830	20	35	3000	30	1800	5400	25000	82	220-240	No	929001354008
Master LED PAR30L 20W 30D 840	20	35	4000	30	1850	5550	25000	82	220-240	No	929001354108
Master LED PAR30L 32W 15D 830	32	50	3000	15	3000	26000	25000	82	220-240	No	929001354308
Master LED PAR30L 32W 15D 840	32	50	4000	15	3000	27000	25000	82	220-240	No	929001354408
Master LED PAR30L 32W 15D 857	32	50	5700	15	3000	27000	25000	82	220-240	No	929001354508
Master LED PAR30L 32W 30D 830	32	50	3000	30	3000	9200	25000	82	220-240	No	929001354708
Master LED PAR30L 32W 30D 840	32	50	4000	30	3000	9600	25000	82	220-240	No	929001354808
Master LED PAR30L 32W 30D 857	32	50	5700	30	3000	38500	25000	82	220-240	No	929001354908
Master LED PAR30L 40W 15D 827	40	70	2700	15	3850	40000	25000	82	220-240	No	929001374308
Master LED PAR30L 40W 15D 830	40	70	3000	15	4000	42000	25000	82	220-240	No	929001374408
Master LED PAR30L 40W 15D 840	40	70	4000	15	4200	42000	25000	82	220-240	No	929001374508
Master LED PAR30L 40W 15D 857	40	70	5700	15	4200	13000	25000	82	220-240	No	929001374608
Master LED PAR30L 40W 30D 827	40	70	2700	30	4300	13500	25000	82	220-240	No	929001374708
Master LED PAR30L 40W 30D 830	40	70	3000	30	4500	14000	25000	82	220-240	No	929001374808
Master LED PAR30L 40W 30D 840	40	70	4000	30	4600	14000	25000	82	220-240	No	929001374908
Master LED PAR30L 40W 30D 857	40	70	5700	30	4600	14000	25000	82	220-240	No	929001375008

# LED Capsules

Spot

Philips LED Capsules create a warm, sparkling and comfortable ambience for hotels, homes and hospitality venues, the new small form factor makes them the ideal retrofit solution for Halogen capsules without having to change your luminaire. Dimmable and non-dimmable models are available for your careful selection to meet various application needs.

### Features

- Long lifetime of 15,000 hours
- UV and IR-free, ideal for lighting heat sensitive objects
- Dim & non dimmable options
- Environmental friendly, without mercury or any other hazardous substances

### Benefits

- Up to 92% energy savings when compared to the equivalent halogen capsule lamp
- Retrofits into a vast majority of luminaires with G4 and G9 sockets
- Lower maintenance costs

### Applications

- Retail
- Hospitality
- Residential



### Product specifications

Product type	Lamp wattage	Replaced wattage	Color temp.	Beam angle	Lumen	MBCP	Lifetime	CRI	Voltage	Dimming	Order code
	W	W	K	(°)	lm		Hours	Ra	V		12NC
CorePro LEDcapsuleLV 0.9-10W G4 827	G4	0.9	10	2700	110	NA	15000	80	12	No	929001843902
CorePro LEDcapsuleLV 0.9-10W G4 830	G4	0.9	10	3000	110	NA	15000	80	12	No	929001844002
CorePro LEDcapsuleLV 1.7-20W G4 827	G4	1.7	20	2700	205	NA	15000	80	12	No	929001844102
CorePro LEDcapsuleLV 1.7-20W G4 830	G4	1.7	20	3000	205	NA	15000	80	12	No	929001844202
CorePro LEDcapsuleLV 2.5-28W G4 827	G4	2.5	28	2700	300	NA	15000	80	12	No	929001896702
CorePro LEDcapsuleLV 2.5-28W G4 830	G4	2.5	28	3000	300	NA	15000	80	12	No	929001896802
CorePro LEDcapsuleLV 2-20W G4 827 D	G4	2	20	2700	200	NA	15000	80	12	Yes	929001235302
CorePro LEDcapsule ND 1.9-25W G9 827	G9	1.9	25	2700	204	NA	15000	80	220-240	No	929001323802
CorePro LEDcapsule ND 1.9-25W G9 830	G9	1.9	25	3000	210	NA	15000	80	220-240	No	929001364702
CorePro LEDcapsule ND 3.2-40W G9 827	G9	3.2	40	2700	400	NA	15000	80	220-240	No	929001902902
CorePro LEDcapsule ND 3.2-40W G9 830	G9	3.2	40	3000	400	NA	15000	80	220-240	No	929001903002
CorePro LEDcapsule ND 5-55W G9 827	G9	5	55	2700	600	NA	15000	80	220-240	No	929002055102
CorePro LEDcapsule ND 5-55W G9 830	G9	5	55	3000	600	NA	15000	80	220-240	No	929002059802
CorePro LEDcapsuleMV 2.3-25W G9 827 D	G9	2.3	25	2700	215	NA	15000	80	220-240	Yes	929001232002

# LED tube

**A perfect tube with a perfectly uniform visual appearance** delivering superior performance, far more outstanding than the traditional fluorescent.





## Master LEDtube

Tube

The Philips Master LEDtube cleverly integrates LED light sources into a traditional fluorescent form factor. Its unique design creates a perfectly familiar and uniform visual appearance which cannot be distinguished from its traditional fluorescent equivalent. For volume usage, and wide-scale applications, the Master LEDtube is great value-for-money, actualizing your projects within limited budgets and easy re-lamping works can be done to achieve better light effects and lifetime.

### Features

- Fit-and-forget LED tube, a direct replacement for T8 fluorescent tube
- Energy consumption >50% lower than fluorescent tubes
- Lifetime up to 50,000hours: 2-3 times longer than fluorescent lamps
- Full safety features and completely safe installation process
- No mercury

### Benefits

- Reduced operational costs due to lower need for maintenance
- Energy savings and a long life time
- Fastest and easiest way to upgrade existing luminaire to LED technology without a need for re-wiring
- Comfort to the eye, and minimal heat

### Applications

- Retail, industry
- Offices, schools
- Hospitals, indoor public spaces
- Parking lots, covered car parks
- Warehouses, cold-rooms, signages
- Transport and distribution areas

For APR excluding Japan



### Product specifications

Product type	Lumen	Wattage	Voltage	Color temp.	Beam angle	CRI	Power factor	Lifetime	Frequency	Dimming	Order code
	lm	W	V	K	(°)	Ra	Pf	Hours	Hz	12NC	
MAS LEDtube 1200mm HO 14W865 T8	2100	14	220-240	6500	150	83	>0.9	50000	50/60	No	929001299408
MAS LEDtube 1200mm HO 14W840 T8	2100	14	220-240	4000	150	83	>0.9	50000	50/60	No	929001299308
MAS LEDtube 1200mm HO 14W830 T8	2000	14	220-240	3000	150	83	>0.9	50000	50/60	No	929001299208
MAS LEDtube 600mm HO 8W865 T8	1050	8	220-240	6500	150	83	>0.9	50000	50/60	No	929001299708
MAS LEDtube 600mm HO 8W840 T8	1050	8	220-240	4000	150	83	>0.9	50000	50/60	No	929001299608
MAS LEDtube 600mm HO 8W830 T8	1000	8	220-240	3000	150	83	>0.9	50000	50/60	No	929001299508
MAS LEDtube STD 1200mm 10.5W865 T8 I	1600	10.5	220-240	6500	150	83	>0.9	50000	50/60	No	929001297708
MAS LEDtube STD 1200mm 10.5W840 T8 I	1600	10.5	220-240	4000	150	83	>0.9	50000	50/60	No	929001297608

Product type	Lumen	Wattage	Voltage	Color temp.	Beam angle	CRI	Power factor	Lifetime	Frequency	Dimming	Order code
	lm	W	V	K	(°)	Ra	Pf	Hours	Hz	12NC	
MAS LEDtube 1200mm UO 16W 865 T8	2500	16	220-240	6500	150	83	>0.9	50000	50/60	No	929001298002
MAS LEDtube 1200mm UO 16W 840 T8	2500	16	220-240	4000	150	83	>0.9	50000	50/60	No	929001297902
MAS LEDtube 1200mm UO 16W 830 T8	2300	16	220-240	3000	150	83	>0.9	50000	50/60	No	929001297802
MAS LEDtube 1500mm UO 24W 865 T8	3700	24	220-240	6500	150	83	>0.9	50000	50/60	No	929001298302
MAS LEDtube 1500mm UO 24W 840 T8	3700	24	220-240	4000	150	83	>0.9	50000	50/60	No	929001298202
MAS LEDtube 1500mm UO 24W 830 T8	3400	24	220-240	3000	150	83	>0.9	50000	50/60	No	929001298102

## Essential LEDtube T8

Tube

Philips Essential LEDtube is an affordable LED tube suitable for T8 fluorescent replacements. The product delivers a natural lighting effect that is needed across a wide range of general lighting applications. It also brings instant energy savings and cost savings, when applied to projects of substantial scale, making this a much more environmentally-friendly and superior solution to replace fluorescents.

### Features

- Affordable LED replacement for T8 fluorescent tubes
- Energy consumption >50% lower than fluorescent tubes
- 30,000 hours lifetime, twice the length of normal fluorescents
- No mercury

### Benefits

- Reduced electricity costs thanks to significant energy savings
- Longer lifetime equates to reduced maintenance costs
- A better choice for the environment – no mercury
- Comfort to the eye, and minimal heat

### Applications

- Retail, offices
- Industry, warehouses, public places,
- Schools, hospitals, car parks

New!



Essential LEDtube T8

### Product specifications

Product type	Lumen	Wattage	Voltage	Color temp.	Beam angle	CRI	Power factor	Lifetime	Frequency	Dimming	Order code
	lm	W	V	K	(°)	Ra	Pf	Hours	Hz	12NC	
ESSENTIAL LEDtube 600mm 8W865 T8 AP I G	800	8	220-240	6500	240	80	>0.9	30000	50/60	No	929001338708
ESSENTIAL LEDtube 600mm 8W840 T8 AP I G	800	8	220-240	4000	240	80	>0.9	30000	50/60	No	929001338608
ESSENTIAL LEDtube 1200mm 14.5W865 T8AP I	1600	14.5	220-240	6500	240	80	>0.9	30000	50/60	No	929001338908
ESSENTIAL LEDtube 1200mm 14.5W840 T8AP I	1600	14.5	220-240	4000	240	80	>0.9	30000	50/60	No	929001338808
ESSENTIAL LEDtube HO 1200mm 18W865T8 AP	2100	18	220-240	6500	240	80	>0.9	30000	50/60	No	929001383508
ESSENTIAL LEDtube HO 1200mm 18W840T8 AP	2100	18	220-240	4000	240	80	>0.9	30000	50/60	No	929001383408

## Essential LEDtube T5

Tube

Philips Essential LEDtube T5 is a reliable value-for-money LED lamp out of Philips lighting portfolio, incorporated with frontier LED chips and other advanced technologies. The product helps customers to achieve up to 50% energy saving and significant maintenance cost reduction by comparing to fluorescent lamps. It also helps generate natural and comfortable lighting effect, and to build up green and environment friendly image for our customers.

### Features

- Protection circuit inside ensuring people's safety in case of misuse, complying with IEC safety requirements
- Advanced optical design ensures a uniform light output and superior optical efficiency

### Benefits

- Reliable operation between -20°C to 45°C ambient temperature
- 50,000 switching cycles
- Energy savings up to 50%

### Applications

- Retail, offices
- Industry, warehouses, public places,
- Schools, hospitals, car parks

New!



Essential LEDtube T5

### Product specifications

Product type	Lumen	Wattage	Voltage	Color temp.	Beam angle	CRI	Power factor	Lifetime	Frequency	Dimming	Order code
	lm	W	V	K	(°)	Ra	Pf	Hours	Hz	12NC	
ESSENTIAL LEDtube 1200mm 16W865 G5 I	2100	16	100-240	6500	240	80	>0.9	30000	50/60	No	929001381108
ESSENTIAL LEDtube 1200mm 16W840 G5 I	2100	16	100-240	4000	240	80	>0.9	30000	50/60	No	929001381008
ESSENTIAL LEDtube 1200mm 16W830 G5 I	2000	16	100-240	3000	240	80	>0.9	30000	50/60	No	929001380908
ESSENTIAL LEDtube 600mm 8W865 G5 I	1050	8	100-240	6500	240	80	>0.9	30000	50/60	No	929001380808
ESSENTIAL LEDtube 600mm 8W840 G5 I	1050	8	100-240	4000	240	80	>0.9	30000	50/60	No	929001380708
ESSENTIAL LEDtube 600mm 8W830 G5 I	1000	8	100-240	3000	240	80	>0.9	30000	50/60	No	929001380608

# LED PLC

Tube

LED PLC is a downlighting lamp replacement that delivers incredible energy savings thanks to energy efficient LED core, 30,000 hours lifetime. A retrofit lamp that's simple to install, fit most of EM ballast fixtures and requires less maintenance and servicing. So you can downsize your downlighting costs with energy efficient LED.

### Features

- To ensure maximum compatibility with existing luminaires, directional PLC LED often need to be adjusted towards where light is needed most. That's why Philips PLC LED products have this feature. It allows the PLC LED to be easily rotated up to 90 degrees, giving you the freedom to direct the light to best effect

### Benefits

- High Output for high efficiency - designed to comply with key industry standards
- Reliable operation between 20°C to 35°C ambient temperature
- Rated average life of 30,000 hours
- 50,000 switching cycles

### Applications

- Hallways
- Meeting Rooms
- Reception
- Staircases
- Restrooms



### Product specifications

Product type	Lumen	Wattage	Voltage	Color temp.	Beam angle	CRI	Power factor	Lifetime	Frequency	Dimming	Order code
	lm	W	V	K	(°)	Ra	Pf	Hours	Hz		12NC
LED PLC 8.5W 865 2P G24d-3	1000	8.5	220-240*	6500	120	83	0.9	30000	50/60	No	929001280108
LED PLC 8.5W 840 2P G24d-3	1000	8.5	220-240*	4000	120	83	0.9	30000	50/60	No	929001201308
LED PLC 8.5W 830 2P G24d-3	950	8.5	220-240*	3000	120	83	0.9	30000	50/60	No	929001201208
LED PLC 6.5W 865 2P G24d-2	700	6.5	220-240*	6500	120	83	0.9	30000	50/60	No	929001280208
LED PLC 6.5W 840 2P G24d-2	700	6.5	220-240*	4000	120	83	0.9	30000	50/60	No	929001201508
LED PLC 6.5W 830 2P G24d-2	650	6.5	220-240*	3000	120	83	0.9	30000	50/60	No	929001201408
LED PLC 4.5W 865 2P G24d-1	500	4.5	220-240	6500	120	83	0.9	30000	50/60	No	929001350908
LED PLC 4.5W 840 2P G24d-1	500	4.5	220-240	4000	120	83	0.9	30000	50/60	No	929001350808
LED PLC 4.5W 830 2P G24d-1	475	4.5	220-240	3000	120	83	0.9	30000	50/60	No	929001350708

# Sensor LEDtube

Tube

Philips Sesor LEDtube is a reliable value-for-money LED lamp out of Philips Lighting portfolio, incorporated with frontier LED chips and other advanced technologies. The product helps customers to achieve over 60% energy savings and significant maintenance cost reduction by comparing to flourescent lighting effect, and to build up green and environmental friendly image for our customers.

### Features

- Integrated microwave sensor in LEDtube to provide extra 80% energy saving
- Wider beam angle for diffuse light effect in basic type of luminaires like bare batten or closed luminaires
- Enhanced efficiency (from 110 to 115 lm/W)
- CRI 80

### Benefits

- Reliable operation between -20°C to 45°C ambient temperature
- 50,000 switching cycles
- Energy savings over 60%
- No mercury

### Applications

- Offices
- Parking Lots
- Warehouses



### Product specifications

Product type	Lumen	Wattage	Voltage	Color temp.	Beam angle	CRI	Power factor	Lifetime	Frequency	Order code
	lm	W	V	K	(°)	Ra	Pf	Hours	Hz	12NC
Sensor LEDtube 1200mm 1600lm 14W865 G13	1600	14	100-240	6500	240	80	0.9	30000	50/60	929001819308
Sensor LEDtube 1200mm 1600lm 14W840 G13	1600	14	100-240	4000	240	80	0.9	30000	50/60	929001819208



# LED candle and lustre

**Designed to enhance the aesthetic appeal of chandeliers and luminaires,** these bulbs come in classical form factors with unique eye-catching lens design for the extra sparkle.



## Master LEDcandle DimTone

Candle and lustre

Specially developed for chandeliers, we've upgraded our Master LEDcandle lamps to enhance the decorative and aesthetic appeal of luminaires – whether they are switched on or off. The new candles incorporate a revolutionary new shaped lens that allows the optics to radiate brilliant, clear and sparkling white LED light. The improved light quality provides consistent colour from every angle – even when dimmed in the most intimate of ambiances. What's more, the new ivory lamp colour is the perfect match for existing luminaires. The classic slender shape when used in multiple quantities will ensure the whole luminaire lights up brilliantly.

### Features

- With DimTone technology
- Revolutionary new lens design
- Lifetime of 25,000 hours
- Retrofittable with existing E14 or B22 sockets
- Available in 25 W and 40 W

### Benefits

- Sparkling white LED light
- Low energy consumption
- Dimmable, saving more energy

### Applications

- Hotels, restaurants, bars, cafés
- Wall sconce or modern luminaire



### Product specifications

Product type	Cap	Bulb shape	Lamp wattage	Replaced wattage	Color temp.	Lumen	Lifetime	CRI	Dimming	Order code
			W	W	K	lm	Hours	Ra	12NC	
MAS LEDcandle DT 6-40W B38 B22 827 CL	B22	LED Candle	6.0	40	2200-2700	470	25,000	80	Yes	929001140802
MAS LEDcandle DT 6-40W B38 E14 827 CL	E14	LED Candle	6.0	40	2200-2700	470	25,000	80	Yes	929001140402
MAS LEDcandle DT 6-40W BA38 E14 827 CL	E14	LED Candle	6.0	40	2200-2700	470	25,000	80	Yes	929001140502
MAS LEDcandle DT 6-40W B38 B22 827 CL	B22	LED Candle	6.0	40	2200-2700	470	25,000	80	Yes	929001140802
MAS LEDcandle DT 6-40W B38 E27 827 CL	E27	LED Candle	6.0	40	2200-2700	470	25,000	80	Yes	929001157902
MAS LEDcandle DT 6-40W B38 B15 827 CL	B15	LED Candle	6.0	40	2200-2700	470	25,000	80	Yes	929001140302
MAS LEDcandle DT 4-25W B38 E14 827 CL	E14	LED Candle	4.0	25	2200-2700	250	25,000	80	Yes	929001139802
MAS LEDcandle DT 4-25W BA38 E14 827 CL	E14	LED Candle	4.0	25	2200-2700	250	25,000	80	Yes	929001139902
MAS LEDcandle DT 8-60W E14 B40 827 CL	E14	LED Candle	8.0	60	2200-2700	806	25,000	80	Yes	929001140402

## Master LEDlustre DimTone

Candle and lustre

A new shape developed for chandeliers or open luminaires, the LEDlustre DimTone range gives off light all around due to its clear bulb head, enhancing the decorative appeal of all luminaires. The creatively shaped lens allow the optics to radiate brilliant, clear and sparkling white LED light that yet releases minimal heat. The improved light quality is beautiful, suitable for a variety of luminaires and open cords used often in hotels, F&B chains and in retail.

### Features

- With DimTone technology
- Revolutionary new lens design
- Lifetime of 25,000 hours
- Retrofittable with existing E14 and E27 holders
- Available in 25 W and 40 W

### Benefits

- Sparkling white LED light
- Low energy consumption
- Dimmable, saving more energy

### Applications

- Hotels, restaurants, bars, cafés
- Chandelier, open luminaire, or glass luminaire



### Product specifications

Product type	Cap	Bulb shape	Lamp wattage	Replaced wattage	Color temp.	Lumen	Lifetime	CRI	Voltage	Dimming	Order code
			W	W	K	lm	Hours	Ra	V	12NC	
MAS LEDlustre DT 6-40W P48 E14 827 CL	E14	LED Lustre	6.0	40	2200-2700	470	25,000	80	220-240	Yes	929001140602
MAS LEDlustre DT 6-40W P48 E27 827 CL	E27	LED Lustre	6.0	40	2200-2700	470	25,000	80	220-240	Yes	929001140702
MAS LEDlustre DT 6-40W P48 B22 827 CL	B22	LED Lustre	6.0	40	2200-2700	470	25,000	80	220-240	Yes	929001157302
MAS LEDlustre DT 4-25W P48 E14 827 CL	E14	LED Lustre	4.0	25	2200-2700	250	25,000	80	220-240	Yes	929001140002
MAS LEDlustre DT 4-25W P48 E27 827 CL	E27	LED Lustre	4.0	25	2200-2700	250	25,000	80	220-240	Yes	929001140102
MAS LEDlustre DT 8-60W E14 P50 CL	E14	LED Lustre	8.0	60	2200-2700	806	25,000	80	220-240	Yes	929001211902



# LED **HID**

**Philips TrueForce LED lamps provide an easy LED solution** with a fast payback to replace High-Intensity Discharge (HID) lamps. These lamps bring the energy efficiency and long lifetime benefits of LED to HID replacement, with a low initial investment delivering instant savings. With the right lamp size and light distribution, customers can easily retrofit TrueForce LED lamps into their existing system, thereby enhancing the light quality without having to change the fixtures or sacrifice the light effect.





# TrueForce LED HighBay

HID

Philips TrueForce LED Industrial and Retail (Highbay – HPI/SON/HPL) lamps give you a quick and easy payback solution to replace HID lamps in Highbay application. The solution gives you the LED benefits of energy-efficiency and long-lifetime, plus they come for a low initial investment. Lamp design allows retrofit HID lamps with TrueForce LED lamps with no gear loss and high power factor. Multiple beam angle options and high colour rendering index enhance the lighting distribution while creating a comfortable, safe and high productivity environment.

## Features

- High energy efficiency with directional light and no gear loss
- Long lifetime 25,000hrs
- Direct lamp replacement solution with high power factor
- 2 beam angles selection
- Pleasant white light with CRI 80

## Benefits

- Cost saving with quick payback
- Easy adoption
- Low initial investment

## Applications

- Industrial - Factories, Warehouses, Distribution centres
- Retail - Hyper markets, Shopping malls
- Others - Transportation hubs, Convention centres, Sports halls



TrueForce LED HighBay

## Product specifications

Product type	Lumen	Wattage	Voltage	Color temp.	Beam angle	CRI	Power factor	Lifetime	Frequency	Dimming	Order code
	lm	W	V	K	(°)	Ra	Pf	Hours	Hz		12NC
TForce LED HPI ND 110-88W E40 840 60D	11000	88	Retrofit	4000	60	70	>0.7	50000	50/60Hz	No	929001356802
TForce LED HPI ND 110-88W E40 840 120D	11000	88	Retrofit	4000	120	70	>0.7	50000	50/60Hz	No	929001356902
TForce LED HIL ND 200-145W E40 840 60D	20000	145	Retrofit	4000	60	70	>0.7	50000	50/60Hz	No	929001357002
TForce LED HIL ND 200-145W E40 840 120D	20000	145	Retrofit	4000	120	70	>0.7	50000	50/60Hz	No	929001357102
TForce Core HB 200-160W E40 840 NB GM	20000	160	110-277	4000	70	70	>0.9	25000	50/60Hz	No	929001812408
TForce Core HB 200-160W E40 840 WB GM	20000	160	110-277	4000	130	70	>0.9	25000	50/60Hz	No	929001812508
TForce Core HB 200-160W E40 865 NB GM	20000	160	110-277	6500	70	70	>0.9	25000	50/60Hz	No	929001812608
TForce Core HB 200-160W E40 865 WB GM	20000	160	110-277	6500	130	70	>0.9	25000	50/60Hz	No	929001812708
TForce HB 100-85W E40 840 120D GM	10000	85	110-277	4000K	120	70	>0.9	25000	50/60Hz	No	929001875708
TForce HB 100-85W E40 865 120D GM	10000	85	110-277	6500K	120	70	>0.9	25000	50/60Hz	No	929001875908

# TrueForce LED Public

HID

Philips TrueForce LED Public lamps provide an easy LED solution with a fast payback to replace High-Intensity Discharge (HID) lamps. These lamps bring the energy efficiency and long lifetime benefits of LED to HID replacement, with a low initial investment delivering instant savings. With the right lamp size and light distribution, customers can easily retrofit TrueForce LED lamps into their existing system, thereby enhancing the light quality without having to change the fixtures or sacrifice the light effect.

## Features

- High energy efficiency
- Long lifetime 50,000hrs
- Same/right lamp size and lighting distribution for direct retrofit
- Direct LED replacement solution without changing the fixture
- Pleasant white light with CRI 80

## Benefits

- Cost saving with short payback time
- Low initial investment
- Enhance lighting quality with easy adoption

## Applications

- Public Urban - Streets, Parks, Squares
- Public Road/Area - Streets, Area



TrueForce LED Public

## Product specifications

Product type	Lumen	Wattage	Voltage	Color temp.	Beam angle	CRI	Power factor	Lifetime	Frequency	Dimming	Order code
	lm	W	V	K	(°)	Ra	Pf	Hours	Hz		12NC
TForce LED HPL ND 38-28W E27 830	3800	28	220-240	3000	NA	80	>0.7	50000	50/60	No	929002006302
TForce LED HPL ND 40-28W E27 840	4000	28	220-240	4000	NA	80	>0.7	50000	50/60	No	929002006402
TForce LED HPL ND 28-21W E27 830	2800	21	220-240	3000	NA	80	>0.7	50000	50/60	No	929002006102
TForce LED HPL ND 30-21W E27 840	3000	21	220-240	4000	NA	80	>0.7	50000	0/60	No	929002006202
TForce LED HPL ND 57-42W E27 830	5700	42	220-240	3000	NA	80	>0.7	50000	50/60	No	929002006502
TForce LED HPL ND 60-42W E27 840	6000	42	220-240	4000	NA	80	>0.7	50000	50/60	No	929002006602
TForce LED HPL ND 57-42W E40 830	5700	42	220-240	3000	NA	80	>0.7	50000	50/60	No	929002006702
TForce LED HPL ND 60-42W E40 840	6000	42	220-240	4000	NA	80	>0.7	50000	50/60	No	929002006802



# TrueForce LED Road

HID

Philips TrueForce LED road lamps offer an easy and short payback LED solution to replace High Intensity Discharge (HID) lamps. The products bring the energy efficiency and long lifetime benefits of LED to HID replacement and provide instant saving and low initial investment. With the right lamp size and light distribution, you can easily retrofit TrueForce LED road lamps into the existing systems without changing the luminaire's ballast or reflector while enhancing the lighting quality.

## Features

- High energy efficiency
- Lifetime 50,000hrs
- Right lamp size and lighting distribution for direct retrofit
- Direct LED replacement solution without changing the luminaire
- Pleasant white light with CRI 70

## Benefits

- Cost saving with short payback time
- Low initial investment
- Enhance lighting quality with easy adoption

## Applications

- Public urban - streets, parks, squares
- Public road/area - streets, area



TrueForce LED Road

## Product specifications

Product type	Lumen	Wattage	Voltage	Color temp.	Beam angle	CRI	Power factor	Lifetime	Frequency	Dimming	Order code
	lm	W	V	K	(°)	Ra	Pf	Hours	Hz		12NC
TForce LED Road 38-25W E27 730	3800	25	70-80 V	3000	360	70	0.9	50000	50Hz	No	929001999402
TForce LED Road 40-25W E27 740	4000	25	70-80 V	4000	360	70	0.9	50000	50Hz	No	929001999502
TForce LED Road 84-55W E40 730	8444	55	70-80 V	3000	360	70	0.9	50000	50Hz	No	929002007402
TForce LED Road 90-55W E40 740	9000	55	70-80 V	4000	360	70	0.9	50000	50Hz	No	929002007502
TForce LED Road 112-68W E40 730	11200	68	70-80 V	3000	360	70	0.9	50000	50Hz	No	929002007602
TForce LED Road 120-68W E40 740	12000	68	70-80 V	4000	360	70	0.9	50000	50Hz	No	929002007702





# LED bulb

**We started the journey 125 years ago.** And we are more determined than ever to challenge the convention, improving the technology and how it illuminates our world.





## MyCare LED bulb

Bulb

Our Philips signature entry-level LED bulb provides an instant-on, retrofit lighting solution, perfect for use in large volumes across multiple application areas. It delivers energy savings, reduces the need for regular bulb replacement, without compromising on the quality of your warm or white light. Available in E27 lamp base, and two color temperatures. Comfortable to the eye with minimal glare.

### Features

- Instant start
- Simple replacement with existing sockets and fixtures
- Manufactured without any hazardous materials, making them a safe and sustainable choice
- Interlaced optic

### Benefits

- Minimal heat, and comfort to the eye
- No UV and IR, safe for fabric and light sensitive materials
- Easy retrofit
- Long lifetime of up to 15 years, reducing the need for maintenance

### Applications

- Shops, hotels, restaurants, bars, cafés
- Galleries, museums, exhibitions, lobbies, corridors, stairwells, wash rooms, reception areas



EyeComfort



Entry range LED bulb

### Product specifications

Product type	Cap	Bulb shape	Lamp wattage	Replaced GLS wattage	Color temp.	Lumen	Lifetime	CRI	Voltage	Dimming	Order code
			W	W	K	lm	Hours	Ra	V		12NC
LEDBulb 12-100W E27 6500K 230V A60	E27	A60	12.0	100	6500	1360	15,000	80	220-240	No	929001916337
LEDBulb 12-100W E27 3000K 230V A60	E27	A60	12.0	100	3000	1360	15,000	80	220-240	No	929001916137
LEDBulb 10-85W E27 6500K 230V A60	E27	A60	10.0	85	6500	1020	15,000	80	220-240	No	929001915937
LEDBulb 10-85W E27 3000K 230V A60	E27	A60	10.0	85	3000	1020	15,000	80	220-240	No	929001915737
LEDBulb 8-70W E27 6500K 230V A60	E27	A60	8.0	70	6500	770	15,000	80	220-240	No	929001915537
LEDBulb 8-70W E27 3000K 230V A60	E27	A60	8.0	70	3000	770	15,000	80	220-240	No	929001915337
LEDBulb 6-60W E27 6500K 230V A60	E27	A60	6.0	60	6500	580	15,000	80	220-240	No	929001915137
LEDBulb 6-60W E27 3000K 230V A60	E27	A60	6.0	60	3000	560	15,000	80	220-240	No	929001914937
LEDBulb 4-50W E27 6500K 230V A60	E27	A60	4.0	50	6500	420	15,000	80	220-240	No	929001914737
LEDBulb 4-50W E27 3000K 230V A60	E27	A60	4.0	50	3000	420	15,000	80	220-240	No	929001304537

## WarmGlow Dim Bulb

Bulb

Philips LEDbulb WarmGlow Dimmable deliver high quality light to ensure direct replacement of GLS bulbs in indoor application. The beam of light is free of infra-red meaning no heat is radiated, and no ultra-violet light means that fabric and items under this light won't fade.

### Features

- Reliable operation between -20 °C to 45 °C ambient temperature
- Rated average life of 15,000 hours (tested to B50 L70 requirement)
- 50,000 switching cycles

### Benefits

- GLS dimming lighting effect
- No Visible flickering
- No UV/IR
- Light all around

### Applications

- Shops, hotels, restaurants, bars, cafés
- Galleries, museums, exhibitions, lobbies, corridors, stairwells, wash rooms, reception areas



WarmGlow Dim Bulb

### Product specifications

Product type	Cap	Bulb shape	Lamp wattage	Replaced GLS wattage	Color temp.	Lumen	Lifetime	CRI	Voltage	Dimming	Order code
			W	W	K	lm	Hours	Ra	V		12NC
LEDBulb 11-85W A60 E27 822-27 230V FR D	E27	A60	11	75	2700-2200K	1055	15000	90	220-240	Yes	929001352779
LEDBulb 8.5-70W A60 E27 822-27 230V FR D	E27	A60	8.5	60	2700-2200K	806	15000	90	220-240	Yes	929001352579

# Philips LEDstick

Bulb

Philips LEDstick deliver high quality light in a compact design ideal for downlights and slim luminaire applications. The compact and bright light makes it ideal for general lighting applications in the retail and hospitality industry by offering their guests a differentiating ambiance and unique experience in public areas.

## Features

- All around illumination
- Up to 70% less glare\*
- No visible flickering
- Eye safety of lamps compliance\*\*

## Benefits

- Over 85% energy savings
- Last up to 15 years
- Environmental friendly, no Mercury
- Low Carbon Footprint

## Applications

- Elite shops
- Corridors / Stairways / Washrooms
- Lobby / Reception areas
- Hotel rooms / Bars
- Home



Philips LEDstick

## Product specifications

Product type	Lumen	Wattage	Voltage	Color temp.	Beam angle	CRI	Power factor	Lifetime	Frequency	Dimming	Order code
	lm	W	V	K	(°)	Ra	Pf	Hours	Hz		12NC
DLStick 5.5W E14 3000K 1PF/12 APR	600lm	5.5	220-240	3000	360	80	>0.5	15000	50/60Hz	No	929001900607
DLStick 5.5W E14 4000K 1PF/12 APR	600lm	5.5	220-240	4000	360	80	>0.5	15000	50/60Hz	No	929001900707
DLStick 5.5W E14 6500K 1PF/12 APR	600lm	5.5	220-240	6500	360	80	>0.5	15000	50/60Hz	No	929001900807
DLStick 5.5W E27 3000K 1PF/12 APR	600lm	5.5	220-240	3000	360	80	>0.5	15000	50/60Hz	No	929001900907
DLStick 5.5W E27 4000K 1PF/12 APR	600lm	5.5	220-240	4000	360	80	>0.5	15000	50/60Hz	No	929001901007
DLStick 5.5W E27 6500K 1PF/12 APR	600lm	5.5	220-240	6500	360	80	>0.5	15000	50/60Hz	No	929001902207
DLStick 7.5W E27 4000K 1PF/12 APR	806lm	7.5	220-240	4000	360	80	>0.5	15000	50/60Hz	No	929001901207
DLStick 7.5W E27 3000K 1PF/12 APR	806lm	7.5	220-240	3000	360	80	>0.5	15000	50/60Hz	No	929001901107
DLStick 7.5W E27 6500K 1PF/12 APR	806lm	7.5	220-240	6500	360	80	>0.5	15000	50/60Hz	No	929001901307
DLStick 9.5W E27 4000K 1PF/12 APR	1055lm	9.5	220-240	4000	360	80	>0.5	15000	50/60Hz	No	929001901507
DLStick 9.5W E27 3000K 1PF/12 APR	1055lm	9.5	220-240	3000	360	80	>0.5	15000	50/60Hz	No	929001901407
DLStick 9.5W E27 6500K 1PF/12 APR	1055lm	9.5	220-240	6500	360	80	>0.5	15000	50/60Hz	No	929001901607
DLStick 11W E27 3000K 1PF/12 APR	1400lm	11	220-240	3000	360	80	>0.5	15000	50/60Hz	No	929001950507
DLStick 11W E27 6500K 1PF/12 APR	1400lm	11	220-240	6500	360	80	>0.5	15000	50/60Hz	No	929001950607

\* Comparing the bulb surface brightness between Philips LEDstick and CFLi Genie.

\*\* Compliance with IEC62471 photobiological safety of lamps and lamps systems.

# Master LEDBulb Dimtone

Bulb

The Master LEDBulb DimTone range delivers a dimmable glow effect for a welcoming, warm atmosphere, making it ideal for general lighting applications in the hospitality segment. Its unique design radiates warm light all around, making it a bright and energy efficient alternative to the incandescent lamp. They are particularly suitable for public areas such as lobbies, corridors, stairwells, where the light is always on. Compatible with existing fixtures with E27 or B22 holder, they are designed for retrofit replacement of incandescent bulbs. Master LEDBulb DimTone delivers huge energy savings and minimizes maintenance cost without any compromise on light quality. They can be used together with most leading-edge dimmers, enabling further efficiencies while helping to create the desired atmosphere.

## Features

- Dimmable
- Compatible with an extensive range of dimmers
- Warm white light
- Lifetime of 25,000 hours
- UV- and IR-free light

## Benefits

- Up to 80% energy savings compared to traditional incandescent lamps
- Easy (retrofit) replacement
- Lower maintenance costS

## Applications

- Hotels, restaurants, bars, cafés
- Lobbies, corridors, stairwells, reception areas



Master Frosted Bulb

## Product specifications

Product type	Cap	Bulb shape	Lamp wattage	Replaced GLS wattage	Color temp.	Lumen	Lifetime	CRI	Hz	Dimming	Order code
			W	W	K	lm	Hours	Ra	Hz		12NC
MAS LED bulb DT 5.5-40WE27 927-922 A60FR	470	5.5	220-240	2700	NA	90	>0.5	25000	50/60	Yes	929001150802
MAS LED bulb DT 9-60W E27 927-922 A60 FR	806	9	220-240	2700	NA	90	>0.5	25000	50/60	Yes	929001351402
MAS LED bulb DT 12-75WE27 927-922 A67 FR	1055	12	220-240	2700	NA	90	>0.5	25000	50/60	Yes	929001868602
MASLEDbulb DT 15.5-100WE27 927-922 A67FR	1521	15.5	220-240	2700	NA	90	>0.5	25000	50/60	Yes	929001868702



# LED Deco Classic

Bulb

LED Deco Classic is the perfect LED filament bulb looking like the tungsten classic, yet giving you an estimated energy savings of 90%. It sets off beautiful, decorative, warm light in a variety of bulb shapes from the standard to the tall/balloon shape giving off a brighter and more defined, warm glow. The LED Deco Classic is ideal for installation in a variety of fixtures whether exposed or within glass shades. The bulb itself is an art form, working perfectly with modern or classic chandeliers, wall sconces and open fixtures.

## Features

- A classic bulb with a modern LED twist
- Timeless shape with hardy strands of LED filament
- Available in multiple wattages

## Benefits

- Energy savings estimated around 90%
- Long lifetime, unlike the old incandescent
- Instant on, little heat
- Environmentally friendly, contains no mercury

## Applications

- Home: living room, bedroom
- Hospitality: restaurants, cafe and bars, hotel lobbies and guest rooms



LED Deco classic

## Product specifications

Product type	Cap	Bulb shape	Lamp wattage	Replaced wattage	Color temp.	Lumen	Lifetime	CRI	Voltage	Dimming	Order code
LEDClassic 4-50W A60 E27 WW CL ND APR	E27	Filament A60	4.0	50	2700	470	15000	80	220-240	No	929001237108
LEDClassic 7-70W A60 E27 WW CL ND APR	E27	Filament A60	7.0	70	2700	806	15000	80	220-240	No	929001387318
LEDClassic 4-50W ST64 E27 WW CL ND APR	E27	Filament ST64	4.0	50	2700	470	15000	80	220-240	No	929001237308
LEDClassic 7-70W ST64 E27 WW CL ND APR	E27	Filament ST64	7.0	70	2700	806	15000	80	220-240	No	929001387618
LEDClassic 2-25W B35 E14 WW CL ND APR	E14	Filament B35	2.0	25	2700	250	15000	80	220-240	No	929001238308
LEDClassic 2-25W BA35 E14 WW CL ND APR	E14	Filament BA35	2.0	25	2700	250	15000	80	220-240	No	929001238408
LEDClassic 2-25W P45 E14 WW CL ND APR	E14	Filament P45	2.0	25	2700	250	15000	80	220-240	No	929001238608
LEDClassic 2-25W P45 E27 WW CL ND APR	E27	Filament P45	2.0	25	2700	250	15000	80	220-240	No	929001238708
LEDClassic 7-70W G93 E27 WW CL ND APR	E27	Filament G93	7.0	70	2700	806	15000	80	220-240	No	929001387918
LEDClassic 4.5-50W P45 E27 WW CL	E27	Filament P45	4.5	50	2700	470	15000	80	220-240	Yes	929001227608
LEDClassic 4.5-50W A60 E27 WW CL	E27	Filament A60	4.5	50	2700	470	15000	80	220-240	Yes	929001227908
LEDClassic 4.5-50W B35 E14 WW CL	E14	Filament B35	4.5	50	2700	470	15000	80	220-240	Yes	929001227208
LEDClassic 4.5-50W BA35 E14 WW CL	E14	Filament BA35	4.5	50	2700	470	15000	80	220-240	Yes	929001227308
LEDClassic 4.5-50W P45 E14 WW CL	E14	Filament P45	4.5	50	2700	470	15000	80	220-240	Yes	929001227408
LEDClassic 8-60W A60 E27 2200K CL-Gold	E27	Filament A60	8.0	60	<2200	600	15000	80	220-240	Yes	929001228108
LEDClassic 8-60W G120 E27 2200K CL-Gold	E27	Filament G120	8.0	60	<2200	600	15000	80	220-240	Yes	929001229108
LEDClassic 8-60W ST64 E27 2200K CL-Gold	E27	Filament ST64	8.0	60	<2200	600	15000	80	220-240	Yes	929001228908
LEDClassic 8-70W ST64 E27 WW CL-Gold	E27	Filament ST64	8.0	70	<2200	800	15000	80	220-240	Yes	929001228508
LEDClassic 8-70W A60 E27 WW CL	E27	Filament A60	8.0	70	2700	800	15000	80	220-240	Yes	929001228008
LEDClassic 8-70W G93 E27 WW CL	E27	Filament G93	8.0	70	2700	800	15000	80	220-240	Yes	929001229008
LEDClassic 8-70W ST64 E27 WW CL	E27	Filament ST64	8.0	70	2700	800	15000	80	220-240	Yes	929001228608



# Scene Switch LED bulb

Bulb

The Scene Switch bulb is a revolutionary bulb that truly surprises by giving out not one but two color temperatures within a single E27 bulb form. It allows spaces to be personalized for ease and comfort by using the existing wall switch with no need of re-wiring, to simply toggle the light color from warm white at 3000K to cool daylight at 6500K at your finger tips. The result is a uniformly lit bulb that delivers glare-free light that is easy on the eyes. A hassle-free retrofit that turns on instantly, adding flexibility and more value to any luminaire with an E27 base.

## Features

- Retrofit bulb with an E27 base
- 806 lumen, CCT 3000K/6500K
- CRI 80
- Lifetime 15000 hours

## Benefits

- Warm white and cool day light, switchable instantly
- Unique bulb shape that gives light all around
- No hazardous material
- Versatile for all spaces

## Applications

- Homes, offices and cafés
- Hotel guest rooms, spa
- Modern or classical luminaires
- Wall sconces, open fixtures



## Product specifications

Product type	Cap	Bulb shape	Lamp wattage	Replaced wattage	Color temp.	Lumen	Lifetime	CRI	Voltage	Dimming	Order code
		W	W	K	lm	Hours	Ra	V		12NC	
Scene Switch A60 CCT 8-70W E27 3000K/6500K	E27	A60	8.0	70	3000/6500	806	15000	>80	220-240	Yes	929001906127
Scene Switch A60 3Step 7.5-70W E27 6500K	E27	A60	7.5	70	6500	806-470-150	15000	>80	220-240	Yes	929001906727
Scene Switch A60 3Step 7.5-70W E27 3000K	E27	A60	7.5	70	3000	806-470-150	15000	>80	220-240	Yes	929001906427
Scene Switch P45 2Step 7-60W E27 6500K	E27	A60	7.0	60	6500	600-150	15000	>80	220-240	Yes	929001140002
SceneSwitch A67 3S 14-100W E27 6500K	E27	A67	14.0	100	6500	1521-600-150	15000	>80	220-240	Yes	929001337007
SceneSwitch A67 3S 15-100W E27 3000K	E27	A67	15.0	100	3000	1521-600-150	15000	>80	220-240	Yes	929001337307

# High Lumen LEDBulb

Bulb

High lumen LED Bulb in indoor application, even designed for a wide range of applications including damp areas. Under 220-240V, the product can deliver the best performance. And even under 90V, the bulb can be lit up, which makes it work in some unstable line voltage. LEDbulb offers up to 89% energy saving when replacing GLS and 50% when replacing a CFLi. It also has a longer lifetime of 15,000 hours (equivalent to 15years if lit 2.7 hours per day across 365 days) conditions.

## Features

- Form factor is designed as a direct retrofit into high lumen LED bulbs at A75, A95, A110 and A125 shape
- Rugged plastic design

## Benefits

- Long lifetime of 15,000 hours (F50L70)
- Up to 89% energy savings when replacing a GLS (50% when replacing a CFLi)
- Designed for a wide range of applications including damp areas
- Lit up under 90V line voltage. And best performance is delivered under 220V-240V

## Applications

- Logic center
- Factory
- Car parking
- Convenience store
- Public space
- Garden lighting
- Wet market



## Product specifications

Product type	Lumen	Wattage	Voltage	Color temp.	Beam angle	CRI	Power factor	Lifetime	Frequency	Dimming	Order code
	lm	W	V	K	(°)	Ra	Pf	Hours	Hz		12NC
LEDBulb 14.5-120W E27 3000K 230V A67 APR	1800	14.5	220-240	3000	150	70	>0.7	10000	50/60	No	929001355008
LEDBulb 14.5-120W E27 6500K 230V A67 APR	1800	14.5	220-240	6500	150	70	>0.7	10000	50/60	No	929001355208
LEDBulb 19-160W E27 6500K 230V A80 APR	2300	19.0	220-240	6500	150	70	>0.7	10000	50/60	No	929001355408
LEDBulb 27-200W E27 6500K 230V A110 APR	3000	27.0	220-240	6500	150	70	>0.7	10000	50/60	No	929001355608



A photograph of a well-lit outdoor patio at night. The patio is covered with a wooden pergola structure. Several strings of warm white LED string lights are draped across the ceiling, creating a warm and inviting atmosphere. In the center, there is a wooden bench with a white cushion and a patterned throw pillow. To the right, a wicker chair with a blue blanket draped over it is visible. The background features a white wall with wooden slat accents and various potted plants. The overall scene is cozy and modern.

# LED Deco Classic

A well-loved classic with a modern LED twist

Retro and classy, yet it saves you a good 90% in energy consumption. Perfect for decorative lighting for hotels, restaurants and other creative spaces, this is the answer to a final replacement of the incandescent or tungsten equivalent. The long, elegant yet hardy strands of LED filaments gives out refined and defined warm light that cannot be distinguished from the traditional bulbs.

**Application notes:**

- Operating temperatures: -20°C to 40°C ambient
- Designed for indoor application only
- Not intended for use as exit lights/emergency lights
- For indoor application in open luminaires/fixtures





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Legend technical specifications	Symbol	Definition
Backwards compatible		Workable with an older product or technology
Beam angle	(°)	Exit angle of the light beam
Central beam candela		Power emitted by a light source in a particular direction. A common candle emits light with a luminous intensity of roughly one candela
Chip on board	COB	Refers to the semiconductor assembly technology where the microchip or die is directly mounted on and electrically connected to its final circuit board, instead of undergoing traditional assembly or packaging as an individual IC.
Correlated color temperature	K	CCT; describes whether white light appears warm (reddish), neutral or cool (bluish)
Color rendering index	Ra	CRI; the ability to reproduce the colors of various objects faithfully in reference to an ideal light source
Color consistency (initial)	SDCM	Standard Deviation of color-matching; describing the difference between two colors. E.g. a difference of 1-3 SDCM is virtually imperceptible; a difference of 4 or more is readily visible
Dimmable average lifetime 10% failure	hrs	Lifetime in hours, defined by reaching 10% failures (ie. 90% survivors) when dimmed
Dimming range	%	Dimming range in which the system will perform as specified
Driver power factor	%	Indicating how effective the driver converts electric current to useful power output
Efficiency range max load		Efficiency when operating at maximum power (non-dimmed)
EOC code		European Order Code
Frequency	Hz	The number of oscillations in one second. Measured in Hertz (Hz).
Housing color		Color of housing
Input Voltage	V	Voltage required as input for the product
IP Classification		Ingress protection defined in terms of object size and water beam protected against
Inrush current peak		The highest current at which the capacitive components operate
Lifetime	hrs	Lifetime in hours, associated with specific conditions (e.g. lumen maintenance, Tc, failure)
Lifetime 10% failure	hrs	Lifetime in hours, defined by reaching 10% failures (ie. 90% survivors) for a population
Light output	lm	Output of luminous flux
Lumen maintenance @ 50 k hrs	%	% of the original lumen flux remaining after indicated (life-)time for a defined population; e.g. B50/L70 indicates 50% of the population retaining 70% of the original light output
Luminous Flux	lm	Total energy emitted by a light source across the visible wavelengths of light
Module efficacy	lm/W	Efficiency module; lumen output per watt input
Module power	W	Energy required to operate the module
Module temperature control		Protective feature where the driver is regulating down the module power when a certain critical temperature of the module is passed
Passive cooling		Cooling without power consumption
Power factor	Pf	Indicating how effective the driver converts electric current to useful power output
Relative Humidity	%	Portion of water vapor in a mixture of air and water vapor
System efficacy	lm/W	Efficiency module + driver
System power	W	Energy required to operate the system
Tc life driver	°C	Temperature of indicated point on the product on which the lifetime is based
Tc life module	°C	Temperature of indicated point on the product on which the lifetime is based
Total harmonic distortion	%	Indication of the influence of the lighting products on frequencies of other equipment
Zhaga		Zhaga is an industry-wide cooperation between companies aimed at enabling the interchangeability of LED light sources made by different manufacturers









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