



High quality of light for spot and downlights

Fortimo LED SLM Gen4



PHILIPS

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Lighting makes merchandise, brands and businesses shine. It empowers the retailer to use light to its full potential, creating maximum impact. The Fortimo LED SLM Gen4 product range offers customers the flexibility they are looking for: a choice between high quality of light, high efficacy (lm/W) and lowest luminaire costs (lm/€). Each module is interchangeable so that within one luminaire range, lighting can be tuned to the retailer's needs.

Without doubt, quality of light is of utmost importance for retail lighting; retailers cannot afford to make any compromises. With the introduction of the fourth generation of Fortimo LED SLM, Philips presents a complete product range with the ideal combination of quality of light and state-of-the-art efficacy. Fortimo LED SLM is now a perfect alternative for traditional MASTERColour CDM light sources.

The Fortimo LED SLM Gen4 product range includes dedicated solutions. Fortimo LED SLM Food Warm White and Fortimo LED SLM Food Premium Red are dedicated solutions for retail food applications that enhance the unique appearance of fresh foods and meat. The flagship product for retail fashion applications is the CrispWhite. It offers unparalleled rendering of rich colors and crisp whites from one light source, resulting in a totally new color experience.

What's new in Fortimo LED SLM Gen4?

- A complete portfolio on one single platform
- Flexibility to optimise performance to the luminaire requirements
- No special cable needed
- Rset on drivers
- Small LES sizes allow for smaller luminaire designs
- Chip-on-Board (CoB) technology, enabling system efficacy of up to 137 lm/W
- Extended Tc up to 85 °C possible
- Range covering 1100 lm to 4500 lm
- Available in the colors 827, 830, 840, 927 and 930



Smart System

Together with the wide range of compatible Philips Xitanium LED drivers, the Fortimo LED SLM Gen4 system is future proof, easy to design in, has a long lifetime and is backed up by the Philips five-year system warranty. The SLM modules assure fixed lumen output, light distribution, and a standardized optical, mechanical, electrical and thermal interface. The module design is Zhaga compliant and is backwards compatible with previous SLM generation modules and drivers. Measurements showing compliancy to Zhaga book 3 version 1.2 have been done on the SLM 3000 lm L15 module.

 Zhaga



5 year
system
warranty

Quality of light

The Fortimo brand's consistent strength is its high quality of light. This is demonstrated by its color rendering index (CRI), rendering of reds (R9), as well as color uniformity and consistency over life (MacAdam Ellipse). The Fortimo SLM Gen4 standard range offers a choice of CRI >80 or >90 and color temperatures of 2700 K, 3000 K, and 4000 K. For retail applications the rendering of reds is critical. Fortimo LED SLM Gen4 offers an all-time high R9 value of 80. In combination with an extremely high color consistency with a MacAdam Ellipse of just 3 SDCM, it is now a truly ideal LED light source for retail lighting. Next to the SLM Gen4 with the standard color point there is the SLM Premium White version. This version has been developed for spot and accent lighting for retail, hospitality and supermarkets, where a color point below the black body line is required.

Fortimo LED SLM Food

Philips has developed two food light sources with optimized light spectra offering superior color rendering. The Fortimo LED SLM Warm White creates a unique color impression that makes fresh food, such as fruit, vegetables and bread, look incredibly attractive. The Fortimo LED SLM Premium Red is developed with a tuned color spectrum that enhances red and simultaneously displays white in a clear and fresh way. It creates a punchy contrast between the two colors, giving the appearance of fresh meat great impact.

Fortimo SLM CrispWhite

Fortimo SLM CrispWhite takes LED light quality to exceptional levels. It's the first retail LED light solution to make whites appear pure and bright at the same time as making other colors appear warm, saturated and intense. Retailers can enjoy all the advantages of LED but with the added benefit of enhanced rendering for both whites and colors - something that until now has only been demonstrated with MASTERColour CDM Elite.

For further details on the SLM Food Warm White, SLM Food Premium Red and SLM CrispWhite please refer to the respective leaflets and data sheets.



Smart System

The Fortimo LED SLM is designed to work with Xitanium LED drivers. This smart system approach includes the following essential features for spot lighting:

- Xitanium mini drivers for smallest possible luminaire designs
- Xitanium window drivers for maximum flexibility
- 12 V output included for easy connection of active cooling systems
- DALI dimming for scene setting and further energy savings
- Independent driver with mains loop though, enabling easy installation with a remote driver
- DC input enabled to ensure compatibility with central emergency system
- Lower current operating window available with Xitanium drivers

Easy design-in and approbation

Fortimo LED SLM systems have been designed with luminaire manufacturers' needs in mind:

- High Tc-point of 95 °C possible for further luminaire miniaturization
- CE, REACH, RoHS certified for smooth luminaire approbation
- Full set of complementary thermal and optical partner components available for quick luminaire design





Product specifications

Fortimo LED SLM Gen4

Type	Light output (lm)	Module power (W)	Module efficacy (lm/W)	System efficacy* (lm/W)	Color temperature (K)	Color rendering CRI	Color consistency (SDCM)	Tc life (°C)	B50/L70 at Tc life (hrs)
Fortimo LED SLM 1100 lm 827 L9 G4	1030	11	92	76	2700	>80	3	85	>50,000
Fortimo LED SLM 1100 lm 830 L9 G4	1100	11	98	81	3000	>80	3	85	>50,000
Fortimo LED SLM 1100 lm 840 L9 G4	1170	11	104	86	4000	>80	3	85	>50,000
Fortimo LED SLM 1100 lm 827 L13 G4	1160	10	114	93	2700	>80	3	85	>50,000
Fortimo LED SLM 1100 lm 830 L13 G4	1240	10	122	100	3000	>80	3	85	>50,000
Fortimo LED SLM 1100 lm 840 L13 G4	1330	10	130	107	4000	>80	3	85	>50,000
Fortimo LED SLM 2000 lm 830 L13 G4	2020	17	117	98	3000	>80	3	85	>50,000
Fortimo LED SLM 2000 lm 840 L13 G4	2150	17	124	104	4000	>80	3	85	>50,000
Fortimo LED SLM 2000 lm 927 L13 G4	1570	17	91	76	2700	>90	3	85	>50,000
Fortimo LED SLM 2000 lm 930 L13 G4	1650	17	95	79	3000	>90	3	85	>50,000
Fortimo LED SLM 3000 lm 830 L15 G4	2970	26	114	99	3000	>80	3	85	>50,000
Fortimo LED SLM 3000 lm 840 L15 G4	3170	26	122	106	4000	>80	3	85	>50,000
Fortimo LED SLM 3000 lm 927 L15 G4	2320	26	89	77	2700	>90	3	85	>50,000
Fortimo LED SLM 3000 lm 930 L15 G4	2400	26	92	80	3000	>90	3	85	>50,000
Fortimo LED SLM 4500 lm 830 L19 G4	4860	42	115	101	3000	>80	3	85	>50,000
Fortimo LED SLM 4500 lm 840 L19 G4	5160	42	122	107	4000	>80	3	85	>50,000
Fortimo LED SLM 4500 lm 927 L19 G4	3760	42	89	78	2700	>90	3	85	>50,000
Fortimo LED SLM 4500 lm 930 L19 G4	3930	42	93	82	3000	>90	3	85	>50,000

*) average value, depends on type of driver used.

Ordering data

System consists of COB and holder, driver and Rset. Each item should be ordered separately.

SLM Gen4 (with 60 cm pre-tinned cable)

Type	Units per pack	EOC code	12NC code
Fortimo LED SLM 1100 lm 827 L9 G4	20	871829178313800	929000901206
Fortimo LED SLM 1100 lm 830 L9 G4	20	871829178315200	929000901306
Fortimo LED SLM 1100 lm 840 L9 G4	20	871829178317600	929000901406
Fortimo LED SLM 1100 lm 827 L13 G4	20	871829178319000	929000901506
Fortimo LED SLM 1100 lm 830 L13 G4	20	871829178321300	929000901606
Fortimo LED SLM 1100 lm 840 L13 G4	20	871829178323700	929000901706
Fortimo LED SLM 2000 lm 830 L13 G4	20	871829178325100	929000901806
Fortimo LED SLM 2000 lm 840 L13 G4	20	871829178327500	929000901906
Fortimo LED SLM 2000 lm 927 L13 G4	20	871829178329900	929000902006
Fortimo LED SLM 2000 lm 930 L13 G4	20	871829178331200	929000902106
Fortimo LED SLM 3000 lm 830 L15 G4	20	871829178335000	929000902306
Fortimo LED SLM 3000 lm 840 L15 G4	20	871829178337400	929000902406
Fortimo LED SLM 3000 lm 927 L15 G4	20	871829178339800	929000902506
Fortimo LED SLM 3000 lm 930 L15 G4	20	871829178341100	929000902606
Fortimo LED SLM 4500 lm 830 L19 G4	20	871829178345900	929000902806
Fortimo LED SLM 4500 lm 840 L19 G4	20	871829178347300	929000902906
Fortimo LED SLM 4500 lm 927 L19 G4	20	871829178349700	929000903006
Fortimo LED SLM 4500 lm 930 L19 G4	20	871829178351000	929000903106

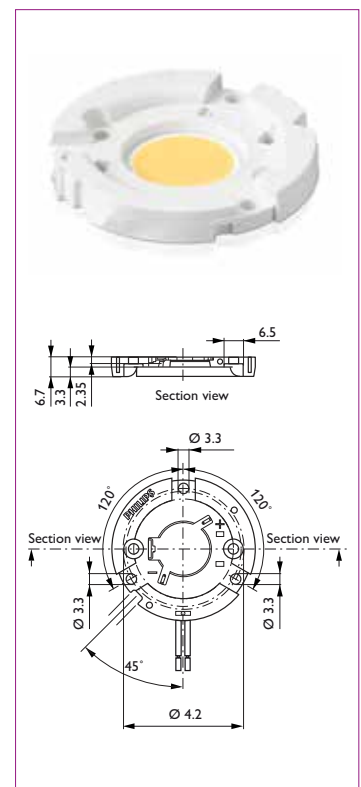
SLM Premium White (color point bbbl)

Type	Units per pack	EOC code	12NC code
Fortimo LED SLM 2000 lm 830 PW L13 G4	20	871829179930600	929000911506
Fortimo LED SLM 2000 lm 930 PW L13 G4	20	871869641736200	929000929006
Fortimo LED SLM 3000 lm 830 PW L15 G4	20	871829179937500	929000911606
Fortimo LED SLM 3000 lm 930 PW L13 G4	20	871869641738600	929000929106
Fortimo LED SLM 4500 lm 830 PW L19 G4	20	871829179939900	929000911706
Fortimo LED SLM 4500 lm 930 PW L13 G4	20	871869641740900	929000929206

Downlight versions with tin-dipped sleeved cable (60 cm)

Type	Units per pack	EOC code	12NC code
Fortimo LED SLM 1100 lm 827 DL L13 G4	20	871829179941200	929000911806
Fortimo LED SLM 1100 lm 830 DL L13 G4	20	871829179943600	929000911906
Fortimo LED SLM 1100 lm 840 DL L13 G4	20	871829179945000	929000912006
Fortimo LED SLM 2000 lm 830 DL L13 G4	20	871829179947400	929000912106
Fortimo LED SLM 2000 lm 840 DL L13 G4	20	871829179949800	929000912206
Fortimo LED SLM 2000 lm 927 DL L13 G4	20	871869641709600	929000928506
Fortimo LED SLM 2000 lm 930 DL L13 G4	20	871869641766900	929000930306

Dimensions (mm)



Downlight versions with tin-dipped sleeved cable (60 cm)

Type	Units per pack	EOC code	12NC code
Fortimo LED SLM 3000 lm 830 DL L15 G4	20	871829179953500	929000912306
Fortimo LED SLM 3000 lm 840 DL L15 G4	20	871829179955900	929000912406
Fortimo LED SLM 3000 lm 927 DL L15 G4	20	871869641711900	929000928606
Fortimo LED SLM 3000 lm 930 DL L15 G4	20	871869641768300	929000930406
Fortimo LED SLM 4500 lm 830 DL L19 G4	20	871869641732400	929000928806
Fortimo LED SLM 4500 lm 840 DL L19 G4	20	871869641734800	929000928906
Fortimo LED SLM 4500 lm 927 DL L19 G4	20	871869641730000	929000928706
Fortimo LED SLM 4500 lm 930 DL L19 G4	20	871869641770600	929000930506
Fortimo LED SLM 2000 lm 830 DL PW L13 G4	20	871869641742300	929000929306
Fortimo LED SLM 3000 lm 830 DL PW L15 G4	20	871869641744700	929000929406
Fortimo LED SLM 4500 lm 830 DL PW L19 G4	20	871869641746100	929000929506
Fortimo LED SLM 2000 lm 930 DL PW L13 G4	20	871869641748500	929000929606
Fortimo LED SLM 3000 lm 930 DL PW L15 G4	20	871869641754600	929000929706
Fortimo LED SLM 4500 lm 930 DL PW L19 G4	20	871869641756000	929000929806

Fortimo LED SLM Gen4 Drivers

Module type	LED driver	EOC code	12NC code	Output	Rset *)
SLM 1100 lm, L9	Xitanium 20 W/m 0.15-0.5 A 48 V 230 V	871829176663600	929000893806	1100 lm	560 Ω
1100 lm, L9	Xitanium 20 W LH 0.15-0.5 A 48 V TD/I 230 V	871829178234600	929000600303	1100 lm	560 Ω
1100 lm, L13	Xitanium 36 W LH 0.3-1 A 48 V I 230 V	871829166644800	929000838903	2000 lm	1200 Ω
1100 lm, L13	Xitanium 36 W/s 0.3-1 A 48 V 230 V	871829169786200	929000839003	2000 lm	1200 Ω
1100 lm, L13	Xitanium 36 W/m 0.3-1.05 A 48 V 230 V	871829175027700	929000881806	2000 lm	1200 Ω
1100 lm, L13	Xitanium 36 W LH 0.3-1 A 48 V TD/I 230 V	871829172903700	929000870806	2000 lm	1200 Ω
1100 lm, L13	Xitanium 36 W/s 0.3-1 A 48 V TD 230 V	871829177094700	929000897606	2000 lm	1200 Ω
1100 lm, L13	Xitanium 20 W/m 0.15-0.5 A 48 V 230 V	871829176663600	929000893806	1100 lm	560 Ω
1100 lm, L13	Xitanium 20 W LH 0.15-0.5 A 48 V TD/I 230 V	871829178234600	929000600303	1100 lm	560 Ω
2000 lm, L13	Xitanium 36 W LH 0.3-1 A 48 V I 230 V	871829166644800	929000838903	3000 lm	2050 Ω
2000 lm, L13	Xitanium 36 W/s 0.3-1 A 48 V 230 V	871829169786200	929000839003	3000 lm	2050 Ω
2000 lm, L13	Xitanium 36 W/m 0.3-1.05 A 48 V 230 V	871829175027700	929000881806	3000 lm	2050 Ω
2000 lm, L13	Xitanium 36 W LH 0.3-1 A 48 V TD/I 230 V	871829172903700	929000870806	3000 lm	2050 Ω
2000 lm, L13	Xitanium 36 W/s 0.3-1 A 48 V TD 230 V	871829177094700	929000897606	3000 lm	2050 Ω
2000 lm, L13	Xitanium 20 W/m 0.15-0.5 A 48 V 230 V	871829176663600	929000893806	2000 lm	1200 Ω
2000 lm, L13	Xitanium 20 W LH 0.15-0.5 A 48 V TD/I 230 V	871829178234600	929000600303	2000 lm	1200 Ω
2000 lm, L13	Xitanium 36 W LH 0.3-1 A 48 V I 230 V	871829166644800	929000838903	3000 lm	1200 Ω
2000 lm, L13	Xitanium 36 W/s 0.3-1 A 48 V 230 V	871829169786200	929000839003	3000 lm	1200 Ω
2000 lm, L13	Xitanium 36 W/m 0.3-1.05 A 48 V 230 V	871829175027700	929000881806	3000 lm	1200 Ω
2000 lm, L13	Xitanium 36 W LH 0.3-1 A 48 V TD/I 230 V	871829172903700	929000870806	3000 lm	1200 Ω
2000 lm, L13	Xitanium 36 W/s 0.3-1 A 48 V TD 230 V	871829177094700	929000897606	3000 lm	1200 Ω
3000 lm, L15	Xitanium 50 W/s 0.9-1.4 A 48 V 230 V	871829177758800	929000899306	4500 lm	4870 Ω
3000 lm, L15	Xitanium 50 W LH 0.7-1.5 A 48 V TD/I 230 V	871829178236000	929000904106	4500 lm	4870 Ω
3000 lm, L15	LED Driver 50 W 0.7-1.5 A 44 V I 230 V **	692341074827700	929000892606	4500 lm	4870 Ω *
3000 lm, L15	Xitanium 36 W LH 0.3-1 A 48 V I 230 V	871829166644800	929000838903	3000 lm	2050 Ω
3000 lm, L15	Xitanium 36 W/s 0.3-1 A 48 V 230 V	871829169786200	929000839003	3000 lm	2050 Ω
3000 lm, L15	Xitanium 36 W/m 0.3-1.05 A 48 V 230 V	871829175027700	929000881806	3000 lm	2050 Ω
3000 lm, L15	Xitanium 36 W LH 0.3-1 A 48 V TD/I 230 V	871829172903700	929000870806	3000 lm	2050 Ω
3000 lm, L15	Xitanium 36 W/s 0.3-1 A 48 V TD 230 V	871829177094700	929000897606	3000 lm	2050 Ω
3000 lm, L15	Xitanium 50 W LH 0.7-1.5 A 48 V TD/I 230 V	871829178236000	929000904106	3000 lm	2050 Ω
3000 lm, L15	LED Driver 50 W 0.7-1.5 A 44 V I 230 V **	692341074827700	929000892606	3000 lm	2050 Ω
4500 lm, L19	Xitanium 50 W LH 0.7-1.5 A 48 V TD/I 230 V	871829178236000	929000904106	4500 lm	4870 Ω
4500 lm, L19	LED Driver 50 W 0.7-1.5 A 44 V I 230 V **	692341074827700	929000892606	4500 lm	4870 Ω *
4500 lm, L19	Xitanium 50 W/s 0.9-1.4 A 48 V 230 V	871829177758800	929000899306	4500 lm	4870 Ω

*) Driver type Xitanium ..W/m with type poke-in resistor; others with JST.

**) Availability to be checked with your local Philips representative.

Rset

Rset	Value	Type	EOC code	12NC code
Fortimo LED Rset 300 mA	560 Ω	poke-in	871869640193400	929000912506
Fortimo LED Rset 300 mA connector	560 Ω	JST	871869640195800	929000912606
Fortimo LED Rset 500 mA	1200 Ω	poke-in	871869640199600	929000912706
Fortimo LED Rset 500 mA connector	1200 Ω	JST	871869640201600	929000912806
Fortimo LED Rset 750 mA	2050 Ω	poke-in	871869640203000	929000912906
Fortimo LED Rset 750 mA connector	2050 Ω	JST	871869640205400	929000913006
Fortimo LED Rset 950 mA	3090 Ω	poke-in	871869640207800	929000913106
Fortimo LED Rset 950 mA connector	3090 Ω	JST	871869640209200	929000913206
Fortimo LED Rset 1200 mA	4870 Ω	poke-in	871869640211500	929000913306
Fortimo LED Rset 1200 mA connector	4870 Ω	JST	871869640213900	929000913406

For more information, please visit:
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