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Quality of light,  
minimum maintenance

Fortimo LED SLM system

**PHILIPS**

sense and simplicity

# Quality of light, minimum maintenance

Merchandise of all kinds looks more attractive and desirable under a Fortimo LED spotlight module (SLM). Products always look bright and vivid due to colour rendering index of 80 and 90, and perfect red rendering and colour consistency. What's more, the excellent lumen maintenance and long lifetime of up to 50,000 hours make relamping a thing of the past: a promise that is backed up by the Philips five-year system guarantee.

5 year  
system  
guarantee







### Accent lighting

The brand new product SLM tight beam enables narrow beams (< 10 deg) in combination with very compact reflector design, thanks to its small Light Emitting Surface (LES). It delivers industry leading punch to enable a high center beam intensity. Its uniform and sharp beam pattern creates a crisp single shadow which highly enhances the contrast of the merchandise. This makes it highly suited for retail and hospitality applications.

### High quality of white light and energy efficiency

The second generation Fortimo LED spotlight module (SLM), designed specifically for the retail market, provides high quality white light, showcasing retail merchandise in bright and vivid light, and is also more energy efficient. As an advancement to the first generation, the upgraded modules will provide:

- Improved colour rendering up to 95
- Ease of design-in via the use of a new optical dome ensuring clean light distribution as well as improved operating temperature to Tc 75°C
- Improved colour consistency
- Excellent lumen maintenance of 70% at 50khrs
- System efficiency resulting up to 86 lm/W

These upgrades clearly will help to make retail environments look even more attractive, inspiring customers and help drive purchases.

### Smart System approach

Fortimo LED spotlight modules offer a wide range of electronic drivers and thermal management options,

reducing cooling costs by up to 40% and increasing efficacy by up to 30%. The module range is designed to optimally perform in combination with various of Xitanium LED drivers. And Philips offers a system guarantee for five years.

### Future Proof system

The new SLM modules guarantees fixed lumen output, light distribution, standardized optical, mechanical, electrical and thermal interface. The module design is according to an upcoming industry standard and is backwards compatible with previous SLM generation modules and drivers.

### Ease of design-in

This new generation also makes design-in even easier with the use of the specular reflectors to create excellent beam homogeneity due to the innovative silicone dome or the extreme compact nine die package of the SLM Tight Beam. The SLM range offers luminaire manufactures the opportunity to design-in this module in many more application areas due to the increased operating temperature to Tc 75°C enabling more passive cooling solutions.

### Performance upgrade

The Fortimo LED SLM Gen 2 portfolio includes performance upgrades of up to 100 lm/W on module level and improved colour consistency up to 3 SDCM. Without changing anything on the luminaires design, customers can benefit from performance upgrade of the modules, a future proof solution.

## Portfolio expansion

In expanding the portfolio, the second generation Fortimo LED SLM includes also an additional colour temperature of 2700 K which can be applied to various retail applications areas creating new atmospheres and scenes. And the choice for higher quality of light range products with CRI up to 95 which will allow for excellent fashion colour rendering with minimal maintenance, yet maximum effect. This latest innovation from Philips provides the future for LED technology in the retail sector.

## The ideal alternative

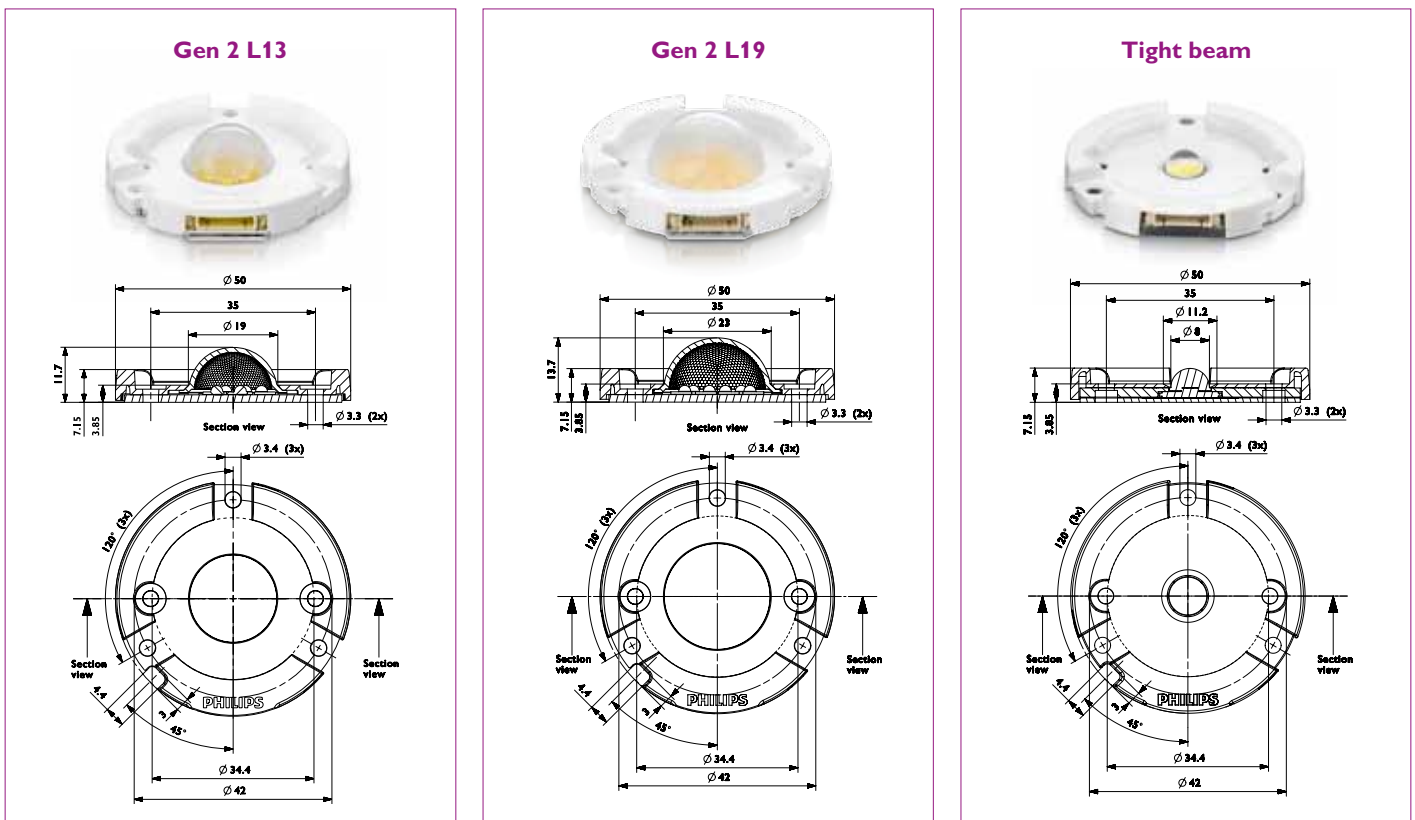
The new generation of SLM modules demonstrates again that Fortimo LED modules are the ideal alternative to halogen and metal halide in retail lighting. Fortimo-based luminaires are up to 60% more energy efficient and require virtually no maintenance. Add to that the possibility for closer, more dramatic illumination of merchandise (thanks to minimized IR or UV), dynamic dimming and assured colour consistency and you can see why Fortimo SLM is such an ideal solution in today's retail environment.

### What is new in the Fortimo LED SLM Gen 2 range?

- Launch of the complete new Fortimo LED SLM Tight Beam module, with industry leading punch
- Upgrade of the 800 and 1100 lm SLM modules to SLM Gen 2 and its related benefits
- Quality of light is improved with an increased CRI of up to 95  $R_a$
- Ease of design-in is improved via the use of a new optical dome ensuring improved beam homogeneity and a higher operating temperature up to  $T_c$  75°C



## Dimensions (mm)



# Product specifications

## Fortimo LED SLM Gen 2

Type	Light output (lm)	Module Power (W)	Module Efficacy (lm/W)	System Efficacy (lm/W)	Colour Temp. (K)	Colour Rendering (R <sub>a</sub> )	Lumen maintenance @50 k hrs (%)	Initial colour consistency (SDCM)	Tc life (°C)	B50L70 @ max Tc life (hrs)
Fortimo LED SLM 800 10W/827 L13 G2	800	10.0	80	66	2700	85	70	3	75	50,000
Fortimo LED SLM 800 10W/830 L13 G2	800	9.5	84	70	3000	85	70	3	75	50,000
Fortimo LED SLM 800 9W/835 L13 G2	800	8.5	94	77	3500	85	70	3	75	50,000
Fortimo LED SLM 800 8W/840 L13 G2	800	7.5	107	86	4000	85	70	3	75	50,000
Fortimo LED SLM 800 13W/927 L13 G2	800	13.0	62	52	2700	95	70	3	75	50,000
Fortimo LED SLM 800 12W/930 L13 G2	800	11.5	70	58	3000	95	70	3	75	50,000
Fortimo LED SLM 1100 15W/827 L13 G2	1100	14.5	76	65	2700	85	70	3	75	50,000
Fortimo LED SLM 1100 14W/830 L13 G2	1100	13.5	81	69	3000	85	70	3	75	50,000
Fortimo LED SLM 1100 13W/835 L13 G2	1100	12.5	88	74	3500	85	70	3	75	50,000
Fortimo LED SLM 1100 12W/840 L13 G2	1100	11.5	96	80	4000	85	70	3	75	50,000
Fortimo LED SLM 1100 20W/927 L13 G2	1100	19.5	56	49	2700	95	70	3	75	50,000
Fortimo LED SLM 1100 18W/930 L13 G2	1100	18.0	61	53	3000	95	70	3	75	50,000
Fortimo LED SLM 2000 26W/827 L19 G2	2000	25.5	78	69	2700	85	70	3	75	50,000
Fortimo LED SLM 2000 24W/830 L19 G2	2000	23.5	85	74	3000	85	70	3	75	50,000
Fortimo LED SLM 2000 23W/835 L19 G2	2000	22.5	89	77	3500	85	70	3	75	50,000
Fortimo LED SLM 2000 20W/840 L19 G2	2000	20.0	100	86	4000	85	70	3	75	50,000
Fortimo LED SLM 2000 35W/927 L19 G2	2000	34.5	58	52	2700	95	70	3	75	50,000
Fortimo LED SLM 2000 32W/930 L19 G2	2000	31.5	63	57	3000	95	70	3	75	50,000
Fortimo LED SLM 3000 42W/827 L19 G2	3000	42.0	71	64	2700	85	70	3	75	50,000
Fortimo LED SLM 3000 39W/830 L19 G2	3000	39.0	77	69	3000	85	70	3	75	50,000
Fortimo LED SLM 3000 40W/835 L19 G2	3000	40.0	75	68	3500	85	70	3	75	50,000
Fortimo LED SLM 3000 36W/840 L19 G2	3000	36.0	83	75	4000	85	70	3	75	50,000

L13 and L19 refers to light emitting diameter in mm

## Fortimo LED SLM Tight Beam

Type	Light output (lm)	Module Power (W)	Module Efficacy (lm/W)	Colour Temp. (K)	Colour Rendering typ. (R <sub>a</sub> )	Lumen maintenance @50 k hrs (%)	Initial colour consistency (SDCM)	Tc life (°C)	B50L70 @ max Tc life (hrs)
Fortimo LED SLM 1100 17W/830 L9 G2	1100	16.5	67	3000	85	70	3	75	50,000

Lumen maintenance of solid-state lighting devices (LEDs) is typically defined in terms of the percentage of initial light output remaining after a specific period of time. Philips projects that the Fortimo LED SLM Tight Beam module will deliver, on average, 70% lumen maintenance (L70) at 50,000 hours of operation, when operated at a case temperature (Tc) below the maximum case temperature and driven by a compatible Philips LED driver. This performance is based on independent test data, Philips Lumileds historical data from tests run on similar material systems, and internal LUXEON reliability testing.

**Note:** for more detailed product specifications, please refer to the Fortimo LED SLM Gen2 design-in guide.

## Applications



### Retail

Shop windows, wall-washing, accent and display lighting, track lighting, mini floodlighting



### Hospitality

Lobbies, reception areas, restaurants, bars, elevators



### Recreation

Museums, galleries, theatres and other public places



## Fortimo LED SLM Driver Portfolio

	Product description	Housing	Built-in	Independent	Dimming	12V	SELV	EOC codes	12NC codes
SLM 800	Xitanium 25W 0.3-0.7A 36V I 230V	Linear housing	✓	✓	NO	✓	✓	8727900 900965 00	9290 006 00203
	Xitanium 25W 0.3-0.7A 36V TE/I 230V	Linear housing	✓	✓	YES:TE	✓	✓	8727900 907308 00	9290 006 00303
	Xitanium 25W 0.3-1A 36V TD/I 230V	Linear *	✓	✓	YES:TD	✓	✓	8727900 914344 00	9290 006 00403
	Xitanium 25W 0.3-1A 36V TD/Is 230V	Linear small **	✓	✓	YES:TD		✓	8727900 914351 00	9290 004 85803
SLM 1100/TB <sup>1</sup>	Xitanium 25W 0.3-0.7A 36V I 230V	Linear housing	✓	✓	NO	✓	✓	8727900 900965 00	9290 006 00203
	Xitanium 25W 0.3-0.7A 36V TE/I 230V	Linear housing	✓	✓	YES:TE	✓	✓	8727900 907308 00	9290 006 00303
	Xitanium 25W 0.3-1A 36V TD/I 230V	Linear *	✓	✓	YES:TD	✓	✓	8727900 914344 00	9290 006 00403
	Xitanium 25W 0.3-1A 36V TD/Is 230V	Linear small **	✓	✓	YES:TD		✓	8727900 914351 00	9290 004 85803
SLM 2000Im	Xitanium 50W/s 0.3-1A 62V 230V	HID-PV housing	✓		NO	✓	✓	8718291 137818 00	9290 006 36403
	Xitanium 50W 0.3-1A 62V 230V	Fortimo	✓		NO	✓	✓	8718291 137825 00	9290 006 36303
	Xitanium 50W 0.3-1A 62V TD/TE 230V	Fortimo	✓		YES:TD/TE	✓	✓	8718291 157120 00	9290 006 61203
	Xitanium 50W SH 0.3-1A 62V I 230V	Square housing	✓	✓	NO	✓	✓	8718291 137801 00	9290 006 17403
	Xitanium 50W LH 0.3-1A 62V TD/TE/I 230V	Linear housing	✓	✓	YES:TD/TE	✓	✓	8718291 119470 00	9290 006 17103
	Xitanium 50W SH 0.3-1A 62V TD/TE/I 230V	Square housing	✓	✓	YES:TD/TE	✓	✓	8718291 119487 00	9290 006 17203
SLM 3000Im	Xitanium 50W/s 0.3-1A 62V 230V	HID-PV housing	✓		NO	✓	✓	8718291 137818 00	9290 006 36403
	Xitanium 50W 0.3-1A 62V 230V	Fortimo	✓		NO	✓	✓	8718291 137825 00	9290 006 36303
	Xitanium 50W 0.3-1A 62V TD/TE 230V	Fortimo	✓		YES:TD/TE	✓	✓	8718291 157120 00	9290 006 61203
	Xitanium 50W SH 0.3-1A 62V I 230V	Square housing	✓	✓	NO	✓	✓	8718291 137801 00	9290 006 17403
	Xitanium 50W LH 0.3-1A 62V TD/TE/I 230V	Linear housing	✓	✓	YES:TD/TE	✓	✓	8718291 119470 00	9290 006 17103
	Xitanium 50W SH 0.3-1A 62V TD/TE/I 230V	Square housing	✓	✓	YES:TD/TE	✓	✓	8718291 119487 00	9290 006 17203

**Note: for exact dimension on driver, please visit [www.philips.com/xitanium](http://www.philips.com/xitanium)**

\* 20mm shorter in length than standard linear housing

\*\* 40mm shorter in length than standard linear housing

<sup>1</sup> SLM 1100Im/9xx only works with 25 W TD/I or TD/Is drivers

	Linear housing	HID-PV	Fortimo	Square housing
Housing size	190x46x32	110x75x32	141x75x32	220x83x35

## Ordering data

Fortimo LED SLM Gen 2	Units per package	EOC codes	12NC codes
Fortimo LED SLM 800 10W/827 L13 G2	10	871829120681100	9290 006 97903
Fortimo LED SLM 800 10W/830 L13 G2	10	871829120707800	9290 006 98003
Fortimo LED SLM 800 9W/835 L13 G2	10	871829120715300	9290 006 98103
Fortimo LED SLM 800 8W/840 L13 G2	10	871829120723800	9290 006 98203
Fortimo LED SLM 800 13W/927 L13 G2	10	871829120725200	9290 006 98303
Fortimo LED SLM 800 12W/930 L13 G2	10	871829120729000	9290 006 98403
Fortimo LED SLM 1100 15W/827 L13 G2	10	871829120731300	9290 006 74703
Fortimo LED SLM 1100 14W/830 L13 G2	10	871829120733700	9290 006 74903
Fortimo LED SLM 1100 13W/835 L13 G2	10	871829120735100	9290 006 75103
Fortimo LED SLM 1100 12W/840 L13 G2	10	871829120737500	9290 006 75203
Fortimo LED SLM 1100 20W/927 L13 G2	10	871829120739900	9290 006 74803
Fortimo LED SLM 1100 18W/930 L13 G2	10	871829120741200	9290 006 75003
Fortimo LED SLM 2000 25W/827 L19 G2	10	87182911 8627400	9290 006 75403
Fortimo LED SLM 2000 23W/830 L19 G2	10	87182911 8631100	9290 006 75803
Fortimo LED SLM 2000 22W/835 L19 G2	10	87182911 8638000	9290 006 76203
Fortimo LED SLM 2000 20W/840 L19 G2	10	87182911 8678600	9290 006 76403
Fortimo LED SLM 2000 34W/927 L19 G2	10	87182911 8629800	9290 006 75603
Fortimo LED SLM 2000 31W/930 L19 G2	10	87182911 8636600	9290 006 76003
Fortimo LED SLM 3000 42W/827 L19 G2	10	87182911 8680900	9290 006 76503
Fortimo LED SLM 3000 39W/830 L19 G2	10	87182911 8684700	9290 006 76903
Fortimo LED SLM 3000 40W/835 L19 G2	10	87182911 8682300	9290 006 77303
Fortimo LED SLM 3000 36W/840 L19 G2	10	87182911 8686100	9290 006 77503

Fortimo LED SLM Tight Beam	Units per package	EOC codes	12NC codes
Fortimo LED SLM 1100 17W/830 L9 G2	10	87182911 8708000	9290 006 59403

## Cables

Fortimo LED SLM cables	Units per package	EOC codes	12NC codes
Fortimo LED SLM Cable 60cm	50	8727900 954234 00	9290 006 19203
Fortimo LED SLM Cable 60cm 12V	50	8727900 954241 00	9290 006 32903
Fortimo LED SLM Cable 25cm	50	8727900 921526 00	9290 006 14703
Fortimo LED SLM Cable 60cm 12V /I	50	8718291 194576 00	9290 006 72803
Fortimo LED SLM Cable 60cm /I	50	8718291 210993 00	9290 006 95403

