

# LEDs in functional street lighting now you can!

**Philips Fortimo LED Linear system** – a LED breakthrough in energy efficacy, comfortable and high quality light.

**PHILIPS**  
sense and simplicity

The fortimo LED linear system consist of an LED module and a driver and cable designed for use in existing or new luminaires together with a heatsink. It is intended for the professional market in (functional) outdoor lighting applications& indoor applications.

The fortimo LED module is equipped with a Fortimo Phosphor technology, enabling a breakthrough in LED efficacy. The Fortimo driver is one of the most efficient on the market. This results in a system efficacy (LED module and driver) of up to 64lm/W at 3000K and with a colour rendering greater than 70, which is unique in the market place (comparable to a bare LED efficiency of 110lm/W).

As advances in bare LED efficacies are made, these will be incorporated into the Fortimo LED module, without changing the dimensions, shape or lumen output of the system. A really future proofed approach to enable Luminair manufactures to plan ahead and for adapting and designing new luminair ranges for the coming years.

### Benefits

- Breakthrough efficacy of up to 64lm/W at system level (comparable to 110 lm/W bare LED efficiency)
- No light depreciation (constant lumen output)
- Easily creation of uniform and rectangular light patterns
- Reducing light pollution (no sky glow)
- Reduced Time to Market (TTM) and related cost for OEMs.

- Fixed form factor and lumen packages
- Environmentally friendly (energy saving)
- Reliable (system approach)
- Comfortable and safe high quality LED light (3000 & 4000K with Ra 75)
- Upgradeable & service-able
- Controls (Lumistep dimming)

### Applications

Outdoor:

- Residential area's
- Streetlighting
- Parks
- City centres
- Parking lots
- Squares
- Off-grid (Solar powered)

Indoor:

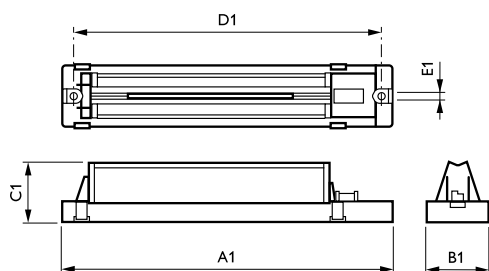
- corridors
- wall
- stairwell
- safety lighting.

### Dimensions (mm)

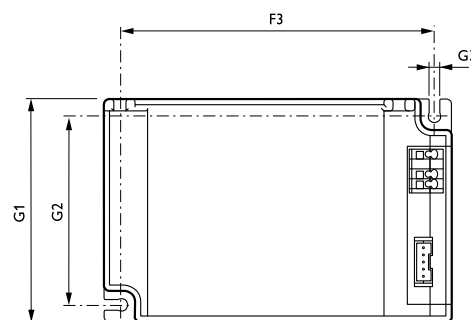
A1	B1	C1	D1	E1
230.0	45.0	42.0	214.5	4.5

F1	F3	G1	G2	G3	H1
123.0	110.0	79.0	67.0	4.5	33.0

### Module



### Driver



## Product specifications

Philips Fortimo LED Linear Light Module system	Light output	Initial Power	Efficacy module + driver	Color rendering index	Color temp.	Controls Lumistep dimming	Input voltage	Input frequency	Burning position	Approvals	
	(lm)	(W)	(lm/w)	(Ra)	(K)	(hrs)	(V)	(Hz)		CE	ENEC
Fortimo LED LLM 1800 28W/730 220-240	1800	28	64,3	75	3000	-	220-240	50-60	Universal	yes	yes
Fortimo LED LLM 1800 25W/740 220-240	1800	25	72,0	75	4000	-	220-240	50-60	Universal	yes	yes
Fortimo LED LLM 1800 28W/730 LS	1800	28	64,3	75	3000	8 *	220-240	50-60	Universal	yes	yes
Fortimo LED LLM 1800 25W/740 LS	1800	25	72,0	75	4000	8 *	220-240	50-60	Universal	yes	yes
Fortimo LED LLM 1100 17W/730 220-240	1100	17	64,7	75	3000	-	220-240	50-60	Universal	yes	yes
Fortimo LED LLM 1100 15W/740 220-240	1100	15,5	71,0	75	4000	-	220-240	50-60	Universal	yes	yes
Fortimo LED LLM 1100 17W/730 LS	1100	17	64,7	75	3000	8 *	220-240	50-60	Universal	yes	yes
Fortimo LED LLM 1100 15W/740 LS	1100	15,5	71,0	75	4000	8 *	220-240	50-60	Universal	yes	yes

Philips Fortimo LED Linear Light Module system	Average lifetime at 10% failures (hrs)	Constant lumen output (CLO)	av. Lumen maintenance @ 50 Khrs (lm)	av. power over 50Khrs (W)	Max power End of Life (W)	Class	Power factor (Pf)	Total harmonic distortion (%)	Tc min module & driver (°C)	Tc life module & driver (°C)	Tc max module & driver (°C)	Color consistency initial (SDCM)	Ambient temp. range luminaire (°C)
Fortimo LED LLM 1800 28W/730 220-240	50.000	yes	1800	30,8	33,6	II	0.9	< 15	-20	55	75	7	-20 to +35
Fortimo LED LLM 1800 25W/740 220-240	50.000	yes	1800	27,5	30	II	0.9	< 15	-20	55	75	7	-20 to +35
Fortimo LED LLM 1800 28W/730 LS	50.000	yes	1800	23,2 **	33,6	II	0.85	< 15	-20	55	75	7	-20 to +35
Fortimo LED LLM 1800 25W/740 LS	50.000	yes	1800	20,7 **	30	II	0.85	< 15	-20	55	75	7	-20 to +35
Fortimo LED LLM 1100 17W/730 220-240	50.000	yes	1100	18,7	20,4	II	0.9	< 15	-20	55	75	7	-20 to +35
Fortimo LED LLM 1100 15W/740 220-240	50.000	yes	1100	17	18,6	II	0.9	< 15	-20	55	75	7	-20 to +35
Fortimo LED LLM 1100 17W/730 LS	50.000	yes	1100	14,1 **	20,4	II	0.85	< 15	-20	55	75	7	-20 to +35
Fortimo LED LLM 1100 15W/740 LS	50.000	yes	1100	12,8 **	18,6	II	0.85	< 15	-20	55	75	7	-20 to +35

\* dimming to 66% of light output; also available in 6 and 10 hrs

\*\* Calculation based on LS-8

**For more information, visit:**  
**[www.philips.com/fortimo](http://www.philips.com/fortimo)**

\* LED technology is continuously improving. For latest updated information on efficacy range and wattages, please check [www.philips.com/fortimo](http://www.philips.com/fortimo)



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