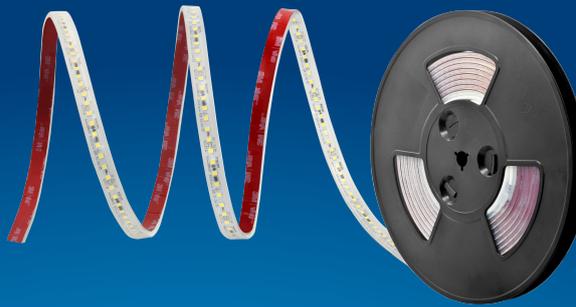


# PHILIPS

## Fortimo

### LED

Fortimo LEDFlex S 10m  
500lm/m C5 G1



## Datasheet

### Fortimo LEDFlex S IP67

The new Fortimo LEDFlex IP67 range are dedicated designed for outdoor applications such as façade, cove lighting, or indoor applications where need waterproof. With mainstream flux level (500lm/m~ 2000lm/m) as well as various Color temperature, the new Fortimo LEDFlex IP67 family can meet different application requirements and maximum the design flexibility. Together with Philips constant voltage driver and easy to use accessories, we offer a robust waterproof system to our OEM customers to unlock the full potential of lighting designs.

#### Key features and benefits

- Extensive portfolio for different applications
- Short cuttable length (5cm) enables easily design
- Efficacy up to 116 lm/W for canopy lighting
- Choice of color temperatures 3000 K, 4000 K, 6500K
- Natural merchandise color with specially formulated CRI >80 LEDs
- LED engine lengths optimized to standard lengths optimized for the application
- Full set accessories enable easy and fast assembly
- Miniaturized slim design for attractive integration
- Enhanced safety with 24 V supply (Safety Extra Low Voltage – SELV)
- Virtually maintenance-free due to long life-time: >50,000 hours
- True System proposition with Philips Constant Voltage LED power drivers and accessories
- Five year system warranty

December 2021



## Ordering data

Commercial product name	EOC	12NC	Box quantity
Fortimo LEDFlex S 10m 500lm/m 830 C5 G1	6922341 949937 00	9290 033 96980	10
Fortimo LEDFlex S 10m 500lm/m 840 C5 G1	6922341 949968 00	9290 033 97080	10
Fortimo LEDFlex S 10m 500lm/m 865 C5 G1	6922341 949999 00	9290 033 97180	10

## Module temperatures

Parameter	Nominal*	Life**	Max***	Unit
T <sub>c</sub> (case temperature at T <sub>c</sub> point)	50	75	75	°C

\* Nominal value at which typical performance is specified

\*\* Value at which life time is specified

\*\*\* Maximum value for safe operation, do not operate above this value

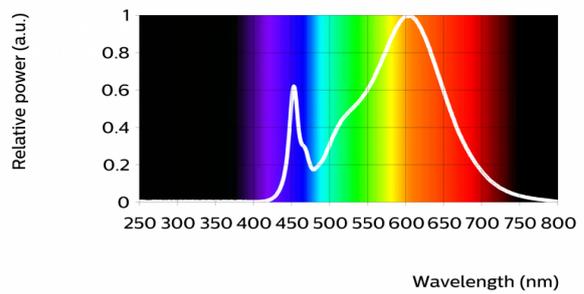
## Optical characteristics - table per color (CCT)

### Fortimo LEDFlex S 10m 500lm/m 830 C5 G1

Parameter	Min	Typ	Max	Unit
Luminous flux	450	500	550	lm
Efficacy		119		lm/W
Correlated color temperature (CCT)		3000		K
Color coordinates (CIEx, CIEy)		(0.442, 0.409)		-
Color consistency			3	SDCM
CRI	80			
R9	0			
Photometric code		830/359		
Photobiological safety			RG0	



Measurement precision  $\pm 5\%$  for the flux data and  $\pm 6\%$  for the efficacy data. Measurement precision for color coordinates  $\pm 0.005$ . Measurement precision for CRI  $\pm 1.5$ .

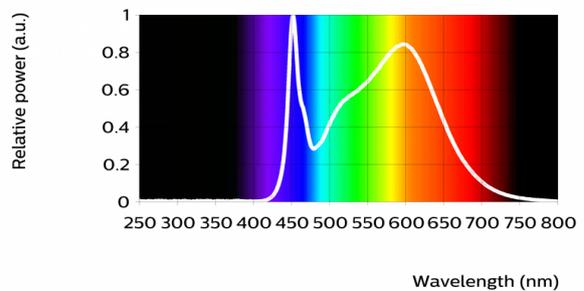


### Fortimo LEDFlex S 10m 500lm/m 840 C5 G1

Parameter	Min	Typ	Max	Unit
Luminous flux	450	500	550	lm
Efficacy		130		lm/W
Correlated color temperature (CCT)		4000		K
Color coordinates (CIEx, CIEy)		(0.384, 0.380)		-
Color consistency			3	SDCM
CRI	80			
R9	0			
Photometric code		840/359		
Photobiological safety			RG0	



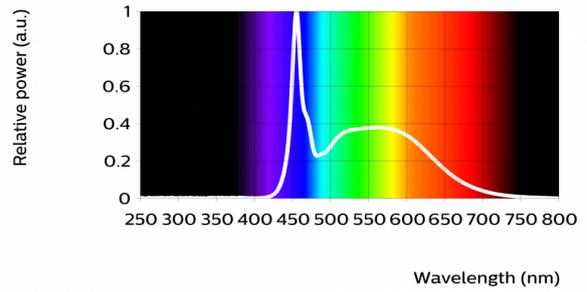
Measurement precision  $\pm 5\%$  for the flux data and  $\pm 6\%$  for the efficacy data. Measurement precision for color coordinates  $\pm 0.005$ . Measurement precision for CRI  $\pm 1.5$ .

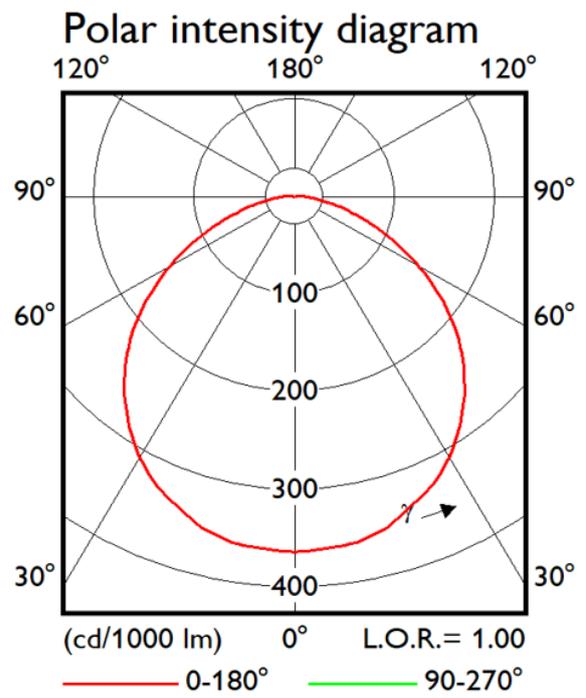


Fortimo LEDFlex S 10m 500lm/m 865 C5 G1

Parameter	Min	Typ	Max	Unit
Luminous flux	450	500	550	lm
Efficacy		130		lm/W
Correlated color temperature (CCT)		6500		K
Color coordinates (CIEx, CIEy)		(0.314, 0.335)		-
Color consistency			3	SDCM
CRI	80			
R9	0			
Photometric code		865/359		
Photobiological safety			RG0	

Measurement precision ± 5% for the flux data and ± 6% for the efficacy data. Measurement precision for color coordinates ± 0.005. Measurement precision for CRI ± 1.5.





## Electrical characteristics

### Fortimo LEDFlex S 10m 500lm/m 830 C5 G1

Parameter	Min	Typ	Max	Unit
Forward voltage	22.8	24.0	25.2	V
Power consumption		4.20		W = kWh/1000h

### Fortimo LEDFlex S 10m 500lm/m 840 C5 G1

### Fortimo LEDFlex S 10m 500lm/m 865 C5 G1

Parameter	Min	Typ	Max	Unit
Forward voltage	22.8	24.0	25.2	V
Power consumption		3.85		W = kWh/1000h

## Lumen maintenance

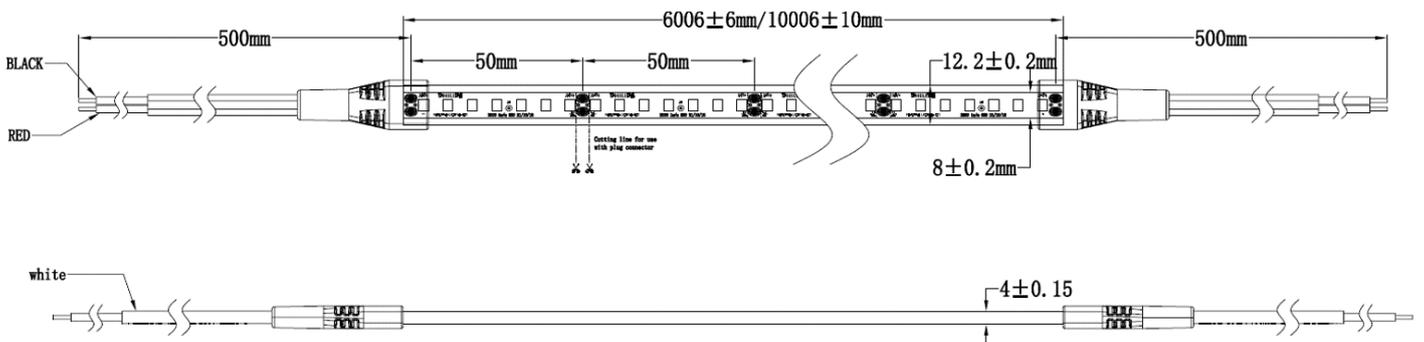
Operation point	Lumen maintenance x 1000 hours	L70			L80			L90		
		B50	B20	B10	B50	B20	B10	B50	B20	B10
Tc life = Tc max = 75°C		>50	>50	>50	>50	>50	>50	37	36	35

## Lifetime

Parameter	Value	Unit
M70F50 nominal	>50000	hours
M70F50 life	>50000	hours

## Mechanical characteristics

Parameter	Min	Typ	Max	Unit
Length	9990	10000	10010	mm
Width	12	12.2	12.4	mm
Height total	3.85	4	4.15	mm
Product mass		605		gram



## Absolute ratings

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Parameter	Min	Max	Unit
Current through the LED module (I-max)		192	mA
Case temperature (Tc-max)		75	°C
ESD (direct contact)	8		kV
Ambient temperature	-35	50	°C
Storage temperature	-35	85	°C

## Application information

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### Certificates and Standards

CE  
CB  
ENEC  
CQC  
UKCA

### Environmental

RoHS/REACH

### Application

IP rating	IP67
Luminaire class	SELV input only
Dimming	Yes



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