

PHILIPS

Fortimo

LED

Fortimo LEDFlex
1000lm/m 9xx G1



Datasheet

Fortimo LEDFlex system

Key features and benefits

- Ideal for built-in applications on aluminum extrusions and for various decorative lighting applications such as cove lighting, indoor facade accent lighting.
- Luminous flux range of 1000/1500/2000/2500 lm/m
- Colour temperature 2700/3000 Premium White/4000 Premium White/6500 K with 3 SDCM color consistency
- CRI 90
- Efficacy up to 132 lm/W
- Extremely narrow pitch distance enables outstanding uniformity even with a short distance to the diffuser.
- High design freedom by cut-options every 5 cm
- Self-adhesive 3M tape on the back for simple and reliable mounting on various surfaces
- PCB to PCB and wire to PCB connectors for toolless handling and connection
- Life-time of 50,000 hours
- Five year warranty

May 2019



indirect



instant

Ordering data

Commercial product name	EOC	12NC	Box quantity
Fortimo LEDFlex 5m 1000lm/m 930PW C5 G1	8718699 661205 00	9290 014 89280	15
Fortimo LEDFlex 5m 1000lm/m 940PW C5 G1	8718699 661229 00	9290 014 89380	15
Fortimo LEDFlex 5m 1000lm/m 927 C5 G1	8718699 661243 00	9290 014 89480	15
Fortimo LEDFlex 5m 1000lm/m 965 C5 G1	8718699 661267 00	9290 014 89580	15
Fortimo LEDFlex 50m 1000lm/m 930PW C5 G1	8718699 661847 00	9290 014 92480	5
Fortimo LEDFlex 50m 1000lm/m 940PW C5 G1	8718699 661861 00	9290 014 92580	5

Module temperatures

Parameter	Nominal*	Life**	Max***	Unit
T _c (case temperature at T _c point)	65	75	85	°C

* Nominal value at which typical performance is specified

** Value at which life time is specified

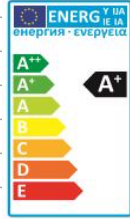
*** Maximum value for safe operation, do not operate above this value

Optical characteristics - table per color (CCT)

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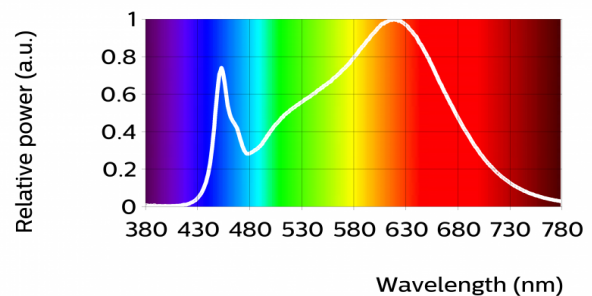
Parameter	Min	Typ	Max	Unit
Luminous flux	900	1000	1200	lm
Module efficacy		123		lm/W
Correlated color temperature (CCT)		3000		K
Color coordinates (CIEx, CIEy)		(0.422, 0.386)		-
Color consistency			3	SDCM
CRI				
R9	90			
Photometric code	50	930/359		
Radiation angle		120		deg
Photobiological safety			RG1 unlimited	



R9 typical is 68.

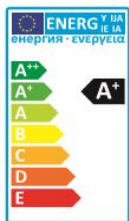
Flux expressed per meter

Measurement precision for flux +/- 5%, for efficacy +/- 6%, for x, y +/- 0.005, for CRI +/- 1.5



Fortimo LEDFlex 5m 1000lm/m 940PW C5 G1
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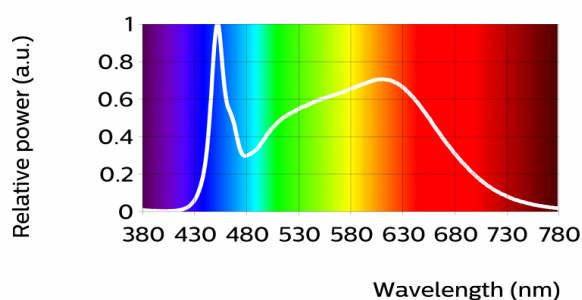
Parameter	Min	Typ	Max	Unit
Luminous flux	900	1000	1200	lm
Module efficacy		132		lm/W
Correlated color temperature (CCT)		4000		K
Color coordinates (CIEx, CIEy)		(0.374, 0.364)		-
Color consistency			3	SDCM
CRI	90			
R9	50			
Photometric code		940/359		
Radiation angle		120		deg
Photobiological safety			RG1 unlimited	



R9 typical is 68.

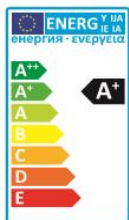
Flux expressed per meter

Measurement precision for flux +/- 5%, for efficacy +/- 6%, for x, y +/- 0.005, for CRI +/- 1.5



Fortimo LEDFlex 5m 1000lm/m 927 C5 G1

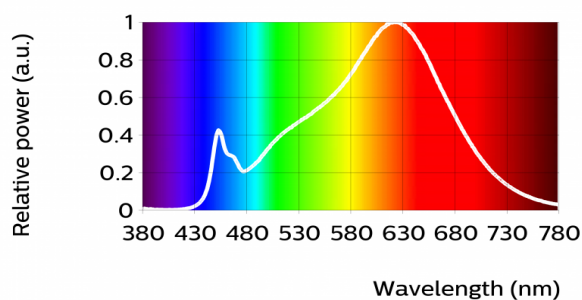
Parameter	Min	Typ	Max	Unit
Luminous flux	900	1000	1200	lm
Module efficacy		116		lm/W
Correlated color temperature (CCT)		2700		K
Color coordinates (CIEx, CIEy)		(0.458, 0.410)		-
Color consistency			3	SDCM
CRI	90			
R9	50			
Photometric code		927/359		
Radiation angle		120		deg
Photobiological safety			RG1 unlimited	



R9 typical is 64.

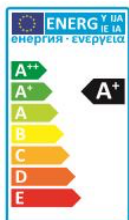
Flux expressed per meter

Measurement precision for flux +/- 5%, for efficacy +/- 6%, for x, y +/- 0.005, for CRI +/- 1.5



Fortimo LEDFlex 5m 1000lm/m 965 C5 G1

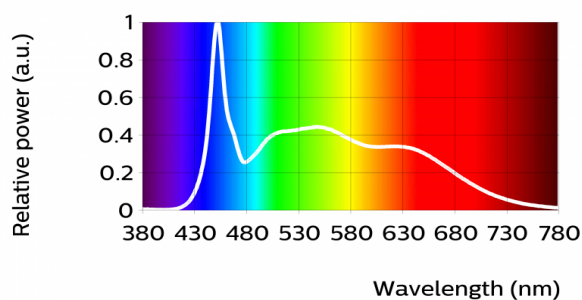
Parameter	Min	Typ	Max	Unit
Luminous flux	900	1000	1200	lm
Module efficacy		132		lm/W
Correlated color temperature (CCT)		6500		K
Color coordinates (CIEx, CIEy)		(0.312, 0.328)		-
Color consistency			3	SDCM
CRI				
R9				
Photometric code		965/359		
Radiation angle		120		deg
Photobiological safety			RG1 unlimited	



R9 typical is 90.

Flux expressed per meter

Measurement precision for flux +/- 5%, for efficacy +/- 6%, for x, y +/- 0.005, for CRI +/- 1.5



Electrical characteristics

Fortimo LEDFlex 5m 1000lm/m 930PW C5 G1

Fortimo LEDFlex 50m 1000lm/m 930PW C5 G1

Parameter	Min	Typ	Max	Unit
Forward voltage	22.8	24.0	25.2	V
Power consumption		8.2		W = kWh/1000h
Thermal power		4.6		W

Power expressed per meter. Measurement precision for power +/- 3.3%.

Maximum LEDFlex length is 12 meter, using 250mm cable at Tc nominal where luminous flux is above 90% of claimed.

For details see Design in Guide on www.philips.com/oem.

Fortimo LEDFlex 5m 1000lm/m 940PW C5 G1

Fortimo LEDFlex 50m 1000lm/m 940PW C5 G1

Parameter	Min	Typ	Max	Unit
Forward voltage	22.8	24.0	25.2	V
Power consumption		7.6		W = kWh/1000h
Thermal power		4.2		W

Power expressed per meter. Measurement precision for power +/- 3.3%.

Maximum LEDFlex length is 12 meter, using 250mm cable at Tc nominal where luminous flux is above 90% of claimed.

For details see Design in Guide on www.philips.com/oem.

Fortimo LEDFlex 5m 1000lm/m 927 C5 G1

Parameter	Min	Typ	Max	Unit
Forward voltage	22.8	24.0	25.2	V
Power consumption		8.6		W = kWh/1000h
Thermal power		5.0		W

Power expressed per meter. Measurement precision for power +/- 3.3%.

Maximum LEDFlex length is 12 meter, using 250mm cable at Tc nominal where luminous flux is above 90% of claimed.

For details see Design in Guide on www.philips.com/oem.

Fortimo LEDFlex 5m 1000lm/m 965 C5 G1

Parameter	Min	Typ	Max	Unit
Forward voltage	22.8	24.0	25.2	V
Power consumption		7.6		W = kWh/1000h
Thermal power		3.9		W

Power expressed per meter. Measurement precision for power +/- 3.3%.

Maximum LEDFlex length is 12 meter, using 250mm cable at Tc nominal where luminous flux is above 90% of claimed.

For details see Design in Guide on www.philips.com/oem.

Lumen maintenance

Operation point	Lumen maintenance x 1000 hours	L70	B20	B10
		B50		
	Tc 55°C	>50	>50	>50
	Tc 65°C	>50	>50	>50
	Tc 75°C	>50	>50	>50

Lifetime

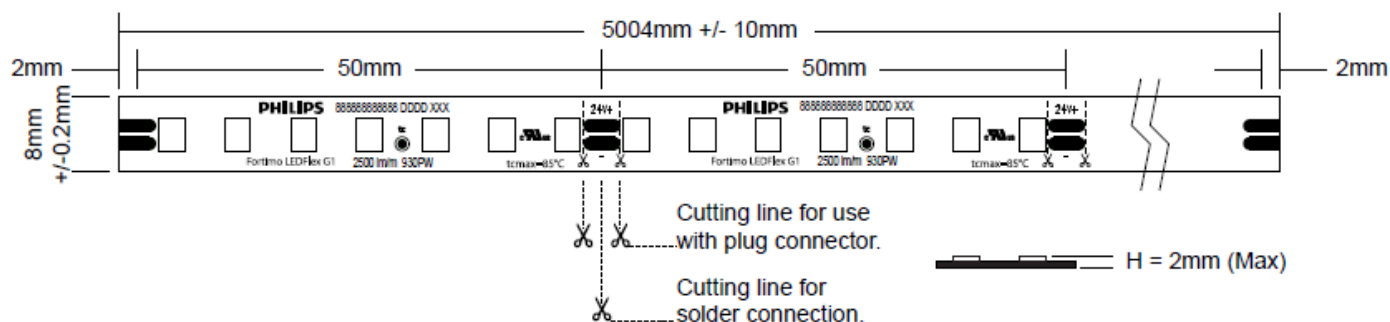
Parameter	Value	Unit
C10 at Tc life	>50000	hours
M70F50 nominal	>50000	hours
M70F50 life	>50000	hours

Switching cycles in accordance to EU 1194/2012: >15000

Mechanical characteristics

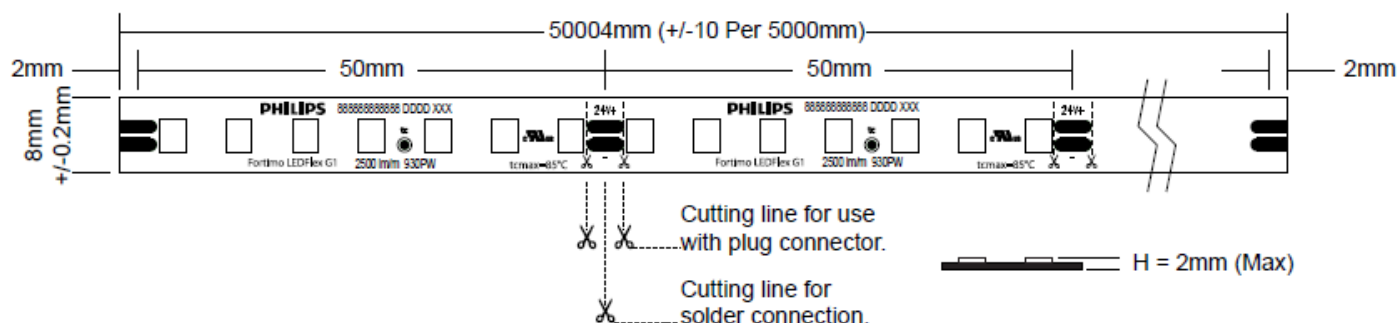
Fortimo LEDFlex 5m 1000lm/m 930PW C5 G1
 Fortimo LEDFlex 5m 1000lm/m 940PW C5 G1
 Fortimo LEDFlex 5m 1000lm/m 927 C5 G1
 Fortimo LEDFlex 5m 1000lm/m 965 C5 G1

Parameter	Min	Typ	Max	Unit
Length		5004		mm
Width	7.8	8	8.2	mm
Height			2	mm
Product mass		70		gram



Fortimo LEDFlex 50m 1000lm/m 930PW C5 G1
 Fortimo LEDFlex 50m 1000lm/m 940PW C5 G1

Parameter	Min	Typ	Max	Unit
Length		50004		mm
Width	7.8	8	8.2	mm
Height			2	mm
Product mass		700		gram



Absolute ratings

Parameter	Min	Max	Unit
Current through the LED module (I-max)		5000	mA
Case temperature (Tc-max)		85	°C
ESD (direct contact)		8	kV
ESD (air)		15	kV
Ambient temperature	-20	50	°C
Storage temperature	-30	85	°C

Application information

Certificates and Standards

UL/cRUus

CB

CE

CQC

ENEC

ENEC+

Application

IP rating	no IP-rating
Overheating protection	No protection
Luminaire class	IEC class I, II and III. SELV input only, constant voltage 24V.
Luminaire class ANSI	UL class 2
Dimming	Yes

Built-in applications only. Dimming by pulse width modulation.



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15/05/2019