PHILIPS

Fortimo

LED

Fortimo LEDFlex C 5m 500lm/m 9xx C5 G1

Datasheet

Fortimo LEDFlex Continuous Light

The new Fortimo LEDFlex Continuous Light Gen1 delivers extremely uniform light without any dot. With this, it is well fit for built-in applications in retail display lighting such as shelf lighting, and various decorative lighting such as cove lighting, ceiling integration, accent lighting. With mainstream flux level (500lm/m and 1000lm/m) as well as various Color temperature, the new Fortimo LEDFlex Continuous Light 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 reliable system to our OEM customers to unlock the full potential of stylish lighting designs.

Key features and benefits

Consistent quality of light of premium white performance
Short cuttable length (4.5cm) enables easily design
Flux ranges covers 500lm/m 1000lm/m with efficacy up to 94 lm/W
High quality of light with 3000K 4000K with CRI90
PCB-PCB and PCB-wire connectors enable easily use
System approach
50,000 hours lifetime

August 2024

Ordering data

Commercial product name	EOC	12NC	EPREL registration #	Box quantity
Fortimo LEDFlex C 5m 500lm/m 927 C5 G1	6922341 948077 00	9290 033 99480	1781847	10
Fortimo LEDFlex C 5m 500lm/m 930 C5 G1	6922341 948107 00	9290 033 99580	1781855	10
Fortimo LEDFlex C 5m 500lm/m 940 C5 G1	6922341 948169 00	9290 033 99780	1781853	10

Module temperatures

Parameter	Nominal*	Life**	Max***	Unit
T_c (case temperature at T_c point)	50	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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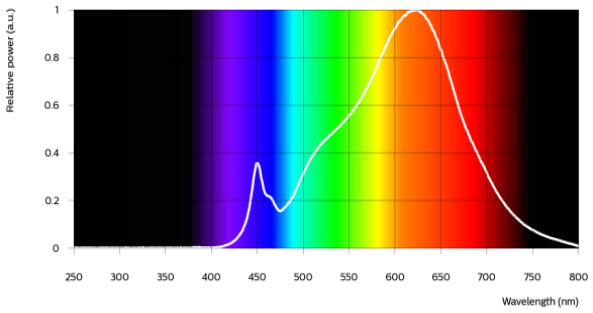
Parameter	Min	Typ	Max	Unit
Luminous flux	450	500		lm
Efficacy		82		lm/W
Correlated color temperature (CCT)		2700		K
Color coordinates (CIEx, CIEy)		(0.458, 0.410)		-
Color consistency			5	SDCM
CRI	90			
R9	50			
Photobiological safety			RG1 unlimited	

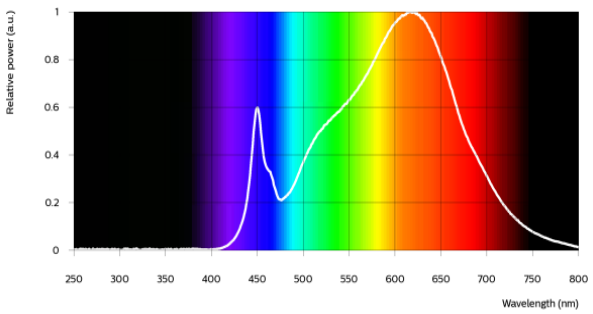
Flux expressed per meter.
Flux expressed average value of 5 meters LEDFlex module.
Measurement precision ± 5% for the flux data and ± 6% for the efficacy data. Measurement precision for color coordinates ± 0.005. Measurement precision for CRI ± 1.5.



Fortimo LEDFlex C 5m 500lm/m 930 C5 G1

Parameter	Min	Typ	Max	Unit
Luminous flux	450	500		lm
Efficacy		86		lm/W
Correlated color temperature (CCT)		3000		K
Color coordinates (CIEx, CIEy)		(0.434, 0.403)		-
Color consistency			5	SDCM
CRI	90			
R9	50			
Photobiological safety			RG1 unlimited	

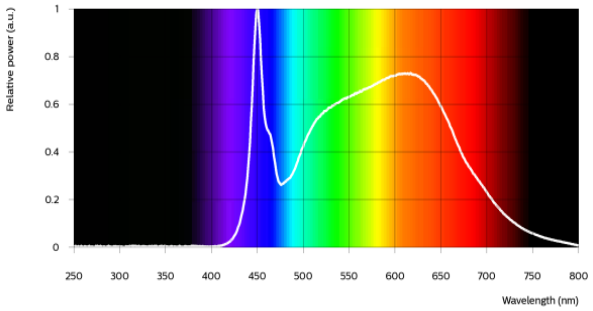
Flux expressed per meter.
Flux expressed average value of 5 meters LEDFlex module.
Measurement precision ± 5% for the flux data and ± 6% for the efficacy data. Measurement precision for color coordinates ± 0.005. Measurement precision for CRI ± 1.5.



Fortimo LEDFlex C 5m 500lm/m 940 C5 G1

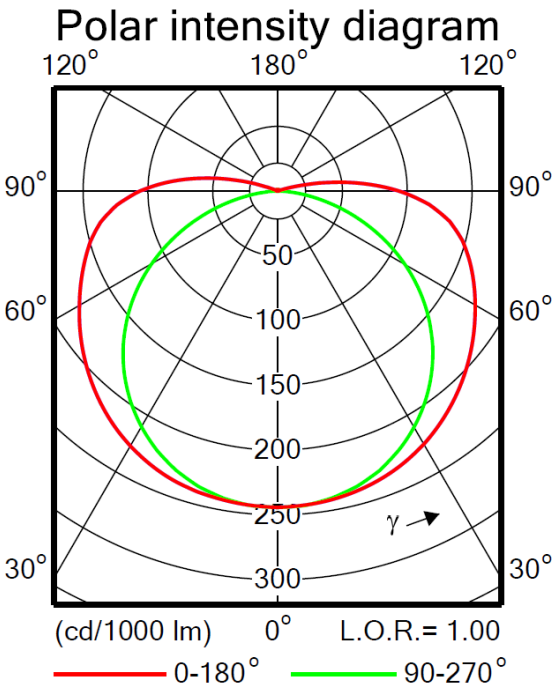
Parameter	Min	Typ	Max	Unit
Luminous flux	450	500		lm
Efficacy		94		lm/W
Correlated color temperature (CCT)		4000		K
Color coordinates (CIEx, CIEy)		(0.382, 0.380)		-
Color consistency			5	SDCM
CRI	90			
R9	50			
Photobiological safety			RG1 unlimited	

Flux expressed per meter.
Flux expressed average value of 5 meters LEDFlex module.
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.



Beam shape

Fortimo LEDFlex C 5m 500lm/m 9xx C5 G1



Electrical characteristics

Fortimo LEDFlex C 5m 500lm/m 927 C5 G1

Parameter	Min	Typ	Max	Unit
Forward voltage		24.0		V
Power consumption		6.1		W = kWh/1000h

Power expressed per meter. Power expressed average value of 5 meters LEDFlex module.
Measurement precision for power +/- 3.3%.
Maximum LEDFlex length is 5 meter.

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Parameter	Min	Typ	Max	Unit
Forward voltage		24.0		V
Power consumption		5.8		W = kWh/1000h

Power expressed per meter. Power expressed average value of 5 meters LEDFlex module.
Measurement precision for power +/- 3.3%.
Maximum LEDFlex length is 5 meter.

Fortimo LEDFlex C 5m 500lm/m 940 C5 G1

Parameter	Min	Typ	Max	Unit
Forward voltage		24.0		V
Power consumption		5.3		W = kWh/1000h

Power expressed per meter. Power expressed average value of 5 meters LEDFlex module.
Measurement precision for power +/- 3.3%.
Maximum LEDFlex length is 5 meter.

Lumen maintenance

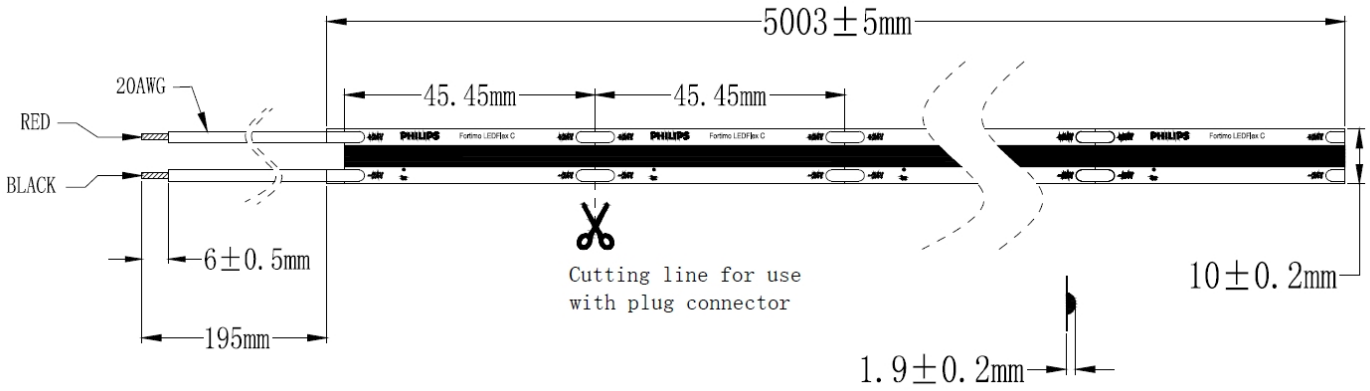
Operation point	Lumen maintenance x 1000 hours	L70 B50
I nom	Tc life 75°C	>50

Lifetime

Parameter	Value	Unit
C10 at Tc life	>50000	hours

Mechanical characteristics

Parameter	Min	Typ	Max	Unit
Length	4998	5003	5008	mm
Width	9.8	10	10.2	mm
Height	1.7	1.9	2.1	mm
Product mass		120		gram



Absolute ratings

Parameter	Min	Max	Unit
Case temperature (Tc-max)		85	℃
ESD (direct contact)	2		kV
ESD (air)	4		kV
Ambient temperature	-20	45	℃
Storage temperature	-20	75	℃

Application information

Certificates and Standards
CB/CQC
CE
UKCA

Environmental
RoHS/REACH

Application	
IP rating	20
Overheating protection	No protection
Dimming	Yes

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

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