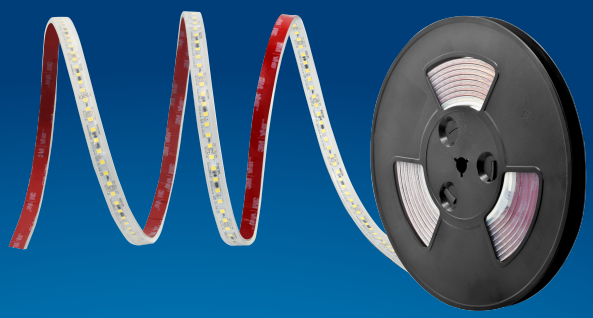
PHILIPS

Fortimo

LED

Fortimo LEDFlex S 6m
2000lm/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 6m 2000lm/m 830 C5 G1	6922341 950209 00	9290 033 98280	10
Fortimo LEDFlex S 6m 2000lm/m 840 C5 G1	6922341 950230 00	9290 033 98380	10
Fortimo LEDFlex S 6m 2000lm/m 865 C5 G1	6922341 950261 00	9290 033 98480	10

Module temperatures

Parameter	Nominal*	Life**	Max***	Unit
T_c (case temperature at T_c point)	50	75	75	°C

* Nominal value at which typical performance is specified

** Value at which life time is specified

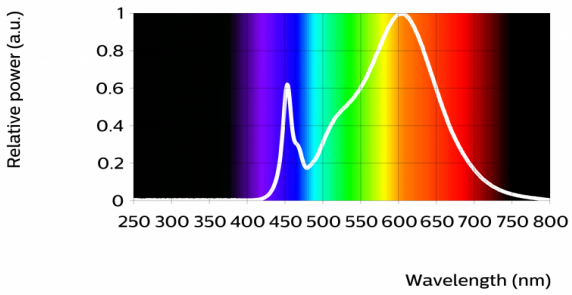
*** Maximum value for safe operation, do not operate above this value

Optical characteristics - table per color (CCT)

Fortimo LEDFlex S 6m 2000lm/m 830 C5 G1

Parameter	Min	Typ	Max	Unit
Luminous flux	1800	2000	2200	lm
Efficacy		116		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	

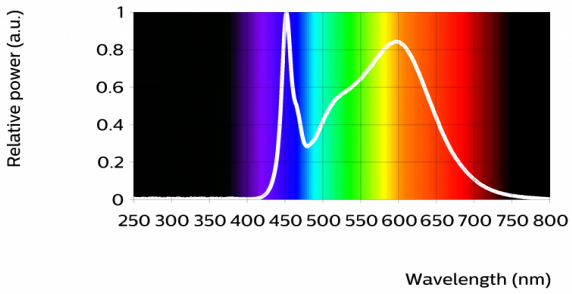
Measurement precision ± 5% for the flux data and ± 6% for the efficacy data. Measurement precision for color coordinates ± 0.005. Measurement precision for CRI ± 1.5.



Fortimo LEDFlex S 6m 2000lm/m 840 C5 G1

Parameter	Min	Typ	Max	Unit
Luminous flux	1800	2000	2200	lm
Efficacy		127		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	

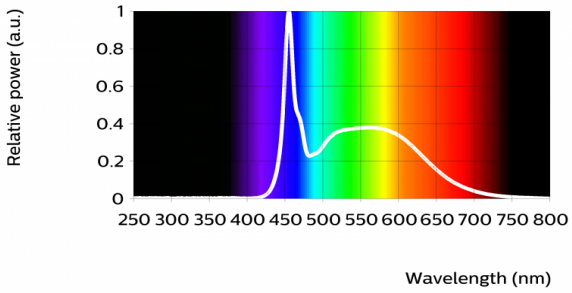
Measurement precision ± 5% for the flux data and ± 6% for the efficacy data. Measurement precision for color coordinates ± 0.005. Measurement precision for CRI ± 1.5.



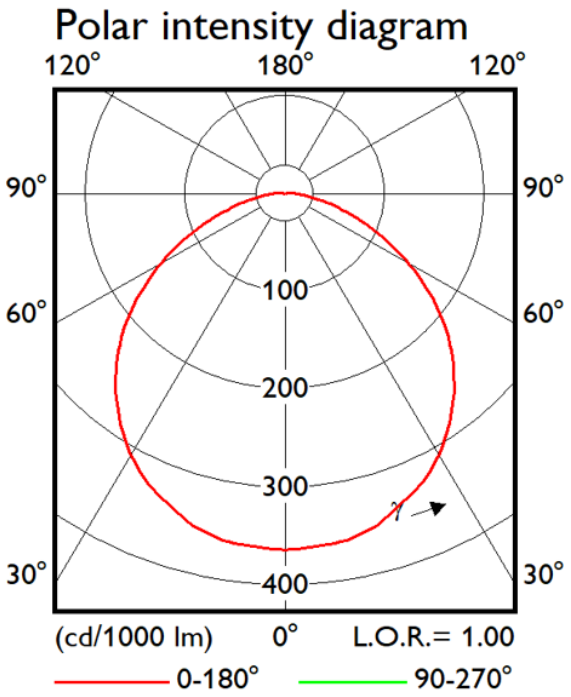
Fortimo LEDFlex S 6m 2000lm/m 865 C5 G1

Parameter	Min	Typ	Max	Unit
Luminous flux	1800	2000	2200	lm
Efficacy		127		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.



Beam shape


Polar intensity diagram
120°
180°
120°
90°
90°
60°
60°
100
200
300
400
30°
30°
(cd/1000 lm)
0°
L.O.R.= 1.00
0-180°
90-270°

Electrical characteristics

Fortimo LEDFlex S 6m 2000lm/m 830 C5 G1

Parameter	Min	Typ	Max	Unit
Forward voltage	22.8	24.0	25.2	V
Power consumption		17.3		W = kWh/1000h

Fortimo LEDFlex S 6m 2000lm/m 840 C5 G1
Fortimo LEDFlex S 6m 2000lm/m 865 C5 G1

Parameter	Min	Typ	Max	Unit
Forward voltage	22.8	24.0	25.2	V
Power consumption		15.8		W = kWh/1000h

Lumen maintenance

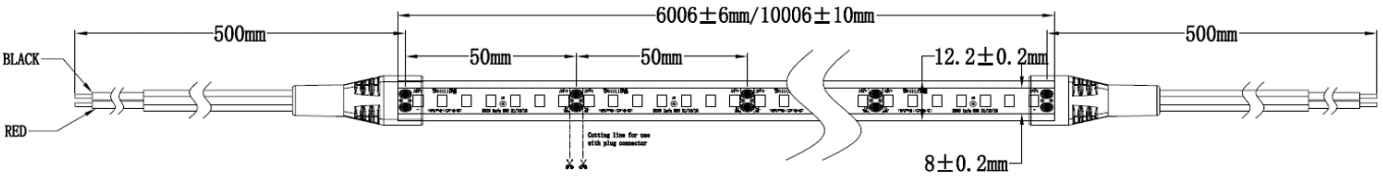
Operation point	Lumen maintenance x 1000 hours	L70			L80			L90		
		B50	B20	B10	B50	B20	B10	B50	B20	B10
Tc life = Tc max = 75°C		>50	>50	>50	>50	>50	>50	26	25	24

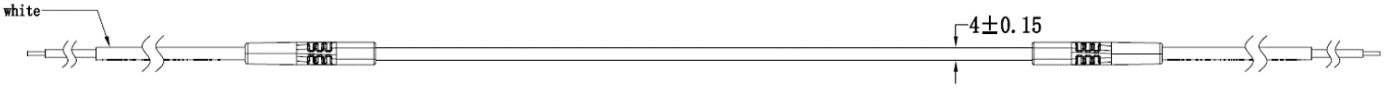
Lifetime

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

Mechanical characteristics

Parameter	Min	Typ	Max	Unit
Length	5994	6000	6006	mm
Width	12	12.2	12.4	mm
Height total	3.85	4	4.15	mm
Product mass		450		gram





Absolute ratings

Parameter	Min	Max	Unit
Current through the LED module (I-max)		791	mA
Case temperature (Tc-max)		75	°C
ESD (direct contact)	8		kV
Ambient temperature	-35	50	°C
Storage temperature	-35	85	°C

Application information

Certificates and Standards

CE
CB
ENEC
CQC
UKCA

Application	
IP rating	IP67
Luminaire class	SELV input only
Dimming	Yes

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