





Preliminary Datasheet

Short time to market with lenses from standard FastFlex portfolio

FastFlex 2x4 G4

Applications

- Road lighting
- Urban street lighting
- Flood and Area lighting
- Tunnel lighting
- High bay lighting

Key features and benefits

- Short time to market with lenses from standard FastFlex portfolio matching every project's needs
- High module efficiency for fixture performance
- Best in class reliability testing for OEM peace of mind
- Philips system warranty
- State of the art specifications
- Temperature and driving current designed for fixture optimization
- Patented module surge protection
- Optical flexibility via FastFlex lenses
- Flexible lumen output
- Range of CCT and CRI versions

Ordering data

Commercial product name	EOC	12NC	Box quantity
Fortimo Fastflex LED 2x4/730 G4	8718696 725047 00	9290 015 63006	25
Fortimo Fastflex LED 2x4/740 G4	8718696 724071 00	9290 015 63106	25

Drive currents

Parameter	•	Nominal*		Life**	Max***	Unit
FastFlex 2x4 G4		530		see opperating window	1500	mA

Module temperatures

Parameter		7	Nominal*	Life**	Max***	Unit
T _c (case temperature at T _c point)			80	see opperating window	85	°C

^{*} Nominal value at which typical performance is specified

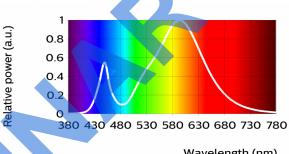
^{**} Value at which life time is specified

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

Fortimo Fastflex LED 2x4/730 G4

Parameter	Min	Тур	Max	Unit
Luminous flux	1553	1725	1898	Im
Module efficacy	113	142	170	lm/W
Correlated color temperature (CCT)		3000		К
Color coordinates (CIEx, CIEy)		(0.434, 0.403)		-
Color consistency			4	SDCM
CRI	70			
Photobiological safety			RG1	

Measurement precision for flux +/- 5%, for efficacy +/- 6%., for x, y +/- 0.005, for CRI +/- 1.5 A maximun colour shift of 7 SDCM is specified for 55Kh at reference operating conditions

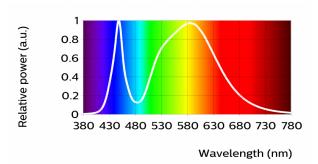


Wavelength (nm)

Fortimo Fastflex LED 2x4/740 G4

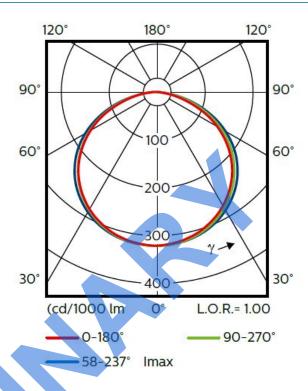
Parameter	Min	Тур	Max	Unit
Luminous flux	1679	1865	2052	lm
Module efficacy	123	154	185	lm/W
Correlated color temperature (CCT)		4000		К
Color coordinates (CIEx, CIEy)		(0.382, 0.380)		-
Color consistency			4	SDCM
CRI	70			
Photobiological safety			RG1	

Measurement precision for flux +/- 5%, for efficacy +/- 6%., for x, y +/- 0.005, for CRI +/- 1.5 A maximun colour shift of 7 SDCM is specified for 55Kh at reference operating conditions



Beam shape

The Philips LED module generates a Lambertian beam shape, which is a pragmatic starting point for OEMs wishing to design secondary optics.



Electrical characteristics

Fortimo Fastflex LED 2x4/730 G4 Fortimo Fastflex LED 2x4/740 G4

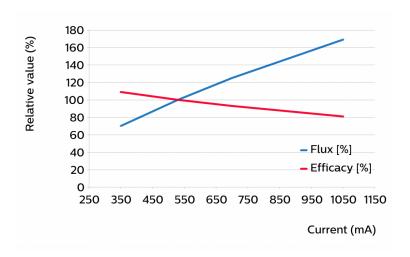
Parameter				Min	Тур	Max	Unit
Forward voltage			7		22.9	24.0	V
Power consumption					12.1	12.8	W

Measurement precision for Vf +/- 3%. Measurement precision for power +/- 3.3%

Tuning information

Flux and efficacy versus current (at Tc nominal)

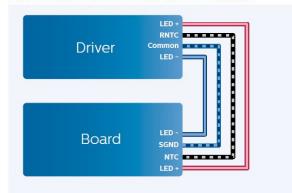
I [mA]	Flux [%]	Efficacy [%]
350	70	109
530	100	100
700	125	93
1050	169	81

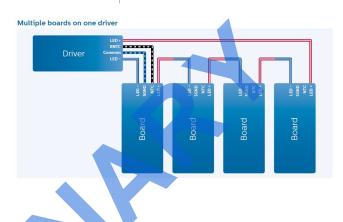


Wiring

Specification item	Value	Unit	Condition	
Input wire cross-section	0.250.75	mm²	solid wire	
	1824	AWG	solid wire	
Input wire strip length	7.58.5	mm		
Input wire cross-section	0.330.5	mm ²	stranded wire	
	2022	AWG	stranded wire	
Input wire strip length	7.58.5	mm		

Connection between driver and FF-module



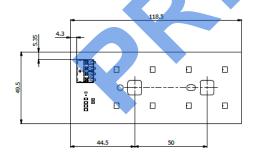


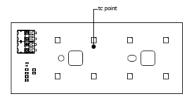
Mechanical characteristics

Fortimo Fastflex LED 2x4/730 G4 Fortimo Fastflex LED 2x4/740 G4

Parameter	Min		Тур	Max	Unit
Length			118.5		mm
Width			49.5		mm
Height excl.connector			1.7		mm
Height incl. connector			5.95		mm







Absolute ratings

Parameter	Min	Тур	Max	Unit
Current through the LED module (I-max)			1500	mA
Case temperature (Tc-max)			85	°C
Power at rated Vf-max and I-max			26.8	W
ESD (direct contact)			8	kV
ESD (air)			15	kV
Ambient temperature	-40		50	°C

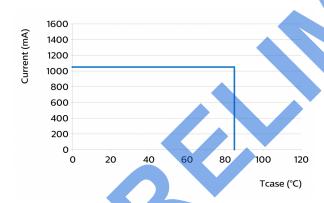
Surge capability at module level is 6 kV when used in combination with a Philips driver

Application information

Certificates and Standards

Application	
IP rating	No IP-rating
Overheating protection	Yes
Luminaire class	IEC Class I and Class II
Dimming	Yes

Operating Window





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