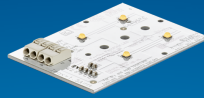


**PHILIPS**

**Fortimo**

**LED**

Fortimo FastFlex LED 2x2  
DA G5



Datasheet

# One-fits-all solution

## FastFlex DA G5

Choose Fortimo FastFlex DA G5 for unlimited optical configurations

Application:

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

### Key features and benefits

- One-fits-all solution thanks to the familiar array
- Large selection of sizes, CRI and CCT combinations
- Module efficacy upgrade compared to previous generations
- Mechanically backwards compatible with Gen 4+
- Best-in-class reliability testing for OEM peace of mind
- Embedded module surge protection
- Philips system warranty

December 2025



**Zhaga**

## Ordering data

Commercial product name	EOC	12NC	Box quantity
Fortimo FastFlex LED 2x2/730 DA G5	8719514 318069 00	9290 028 65906	25
Fortimo FastFlex LED 2x2/740 DA G5	8719514 318083 00	9290 028 66006	25
Fortimo FastFlex LED 2x2/840 DA G5	8719514 318106 00	9290 028 66106	25

## Drive currents

Parameter	Nominal*	Life**	Max***	Unit
Fortimo FastFlex LED 2x2 DA G5	530	1050	1500	mA

## Module temperatures

Parameter	Nominal*	Life**	Max***	Unit
T <sub>c</sub> (case temperature at T <sub>c</sub> point)	80	85	95	°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

### Fortimo FastFlex LED 2x2/730 DA G5 Fortimo FastFlex LED 2x2/740 DA G5

CCT	3000K	4000K	Unit
Luminous flux ( $\Phi_{use}$ )*	940	1020	lm
Efficacy*	159	173	lm/W
Average Luminous flux (tolerance -5% + 5%)	1031	1102	lm
Average Efficacy (tolerance -5% + 5%)	176	186	lm/W
Max. Efficacy	193	205	lm/W
Max. Color consistency	5	5	SDCM
Color coordinates (CIEx, CIEy)	0.436, 0.404	0.385, 0.383	
Min. CRI	70	70	
Min. R9	-50	-50	
Photometric code	730/579	740/579	
Max. Photobiological safety	RG2	RG2	
Ethr	860	860	
Energy label EPREL	D 	C 	

### Fortimo FastFlex LED 2x2/840 DA G5

CCT	4000K	Unit
Luminous flux ( $\Phi_{use}$ )*	895	lm
Efficacy*	152	lm/W
Average Luminous flux (tolerance -5% + 5%)	1013	lm
Average Efficacy (tolerance -5% + 5%)	173	lm/W
Max. Efficacy	184	lm/W
Max. Color consistency	5	SDCM
Color coordinates (CIEx, CIEy)	0.385, 0.383	
Min. CRI	80	
Min. R9	0	
Photometric code	840/579	
Max. Photobiological safety	RG2	
Ethr	860	
Energy label EPREL	D 	

Measurement precision for flux +/- 5%. Measurement precision for efficacy +/- 6%. Measurement precision for x, y +/- 0.005. Measurement precision for CRI 1.5.  
Measurement precision for Vf +/- 3%. Measurement precision for power +/- 3.3%.

\* Luminous flux ( $\Phi_{use}$ ) and Efficacy refer to Single Lighting Regulation (SLR). Luminous flux ( $\Phi_{use}$ ) means the part of the luminous flux of a light source that is considered when determining its energy efficiency: - for non-directional light sources it is the total flux emitted in a solid angle of  $4\pi$  sr (corresponding to a 360° sphere)

## Tuning table

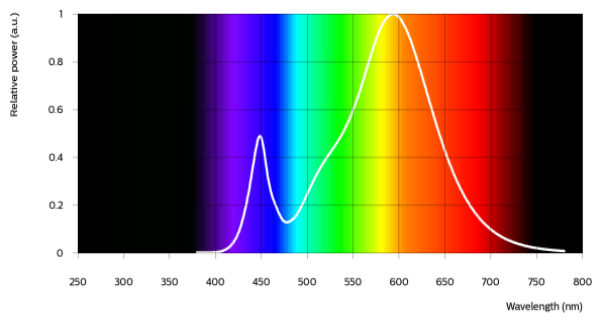
Operation Point		Current	3000K	4000K	Unit
Tc = 25°C	Luminous flux	80% I-nom 424mA	888	949	lm
		I-nom 530mA	1085	1159	lm
		I-max 1500mA	2651	2834	lm
	Efficacy	80% I-nom 424mA	185	194	lm/W
		I-nom 530mA	181	190	lm/W
		I-max 1500mA	146	153	lm/W
Tc = 80°C	Luminous flux	80% I-nom 424mA	845	903	lm
		I-nom 530mA	1031	1102	lm
		I-max 1500mA	2495	2668	lm
	Efficacy	80% I-nom 424mA	184	192	lm/W
		I-nom 530mA	176	186	lm/W
		I-max 1500mA	141	148	lm/W
Tc = 95°C	Luminous flux	80% I-nom 424mA	824	880	lm
		I-nom 530mA	1005	1075	lm
		I-max 1500mA	2417	2585	lm
	Efficacy	80% I-nom 424mA	179	187	lm/W
		I-nom 530mA	173	182	lm/W
		I-max 1500mA	137	145	lm/W

Operation Point		Current	4000K	Unit
Tc = 25°C	Luminous flux	80% I-nom 424mA	873	lm
		I-nom 530mA	1066	lm
		I-max 1500mA	2606	lm
	Efficacy	80% I-nom 424mA	182	lm/W
		I-nom 530mA	175	lm/W
		I-max 1500mA	142	lm/W
Tc = 80°C	Luminous flux	80% I-nom 424mA	830	lm
		I-nom 530mA	1013	lm
		I-max 1500mA	2451	lm
	Efficacy	80% I-nom 424mA	177	lm/W
		I-nom 530mA	173	lm/W
		I-max 1500mA	138	lm/W
Tc = 95°C	Luminous flux	80% I-nom 424mA	809	lm
		I-nom 530mA	988	lm
		I-max 1500mA	2374	lm
	Efficacy	80% I-nom 424mA	176	lm/W
		I-nom 530mA	170	lm/W
		I-max 1500mA	134	lm/W

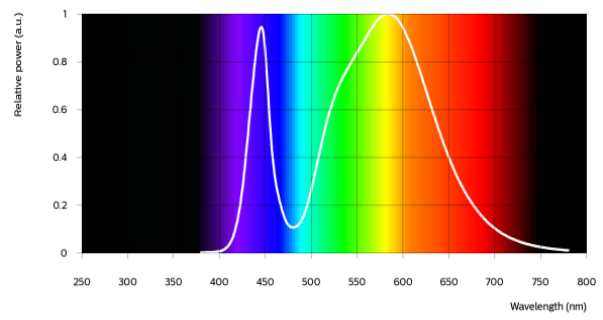
\*Based on average value

## Spectral characteristics

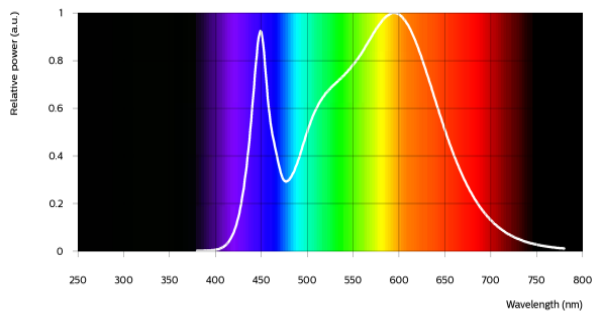
### CRI70 3000K



### CRI70 4000K



### CRI80 4000K



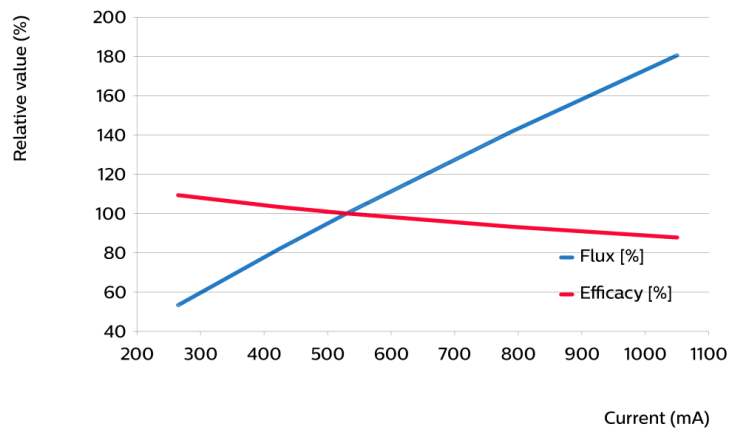
## Electrical characteristics

Parameter	Min	Typ	Max	Unit
Forward voltage	10.6	11.2	11.6	V
Power consumption	5.6	5.9	6.1	W = kWh/1000h
Number of modules in series per chain			10	
Number of modules in parallel			1	

## Tuning information

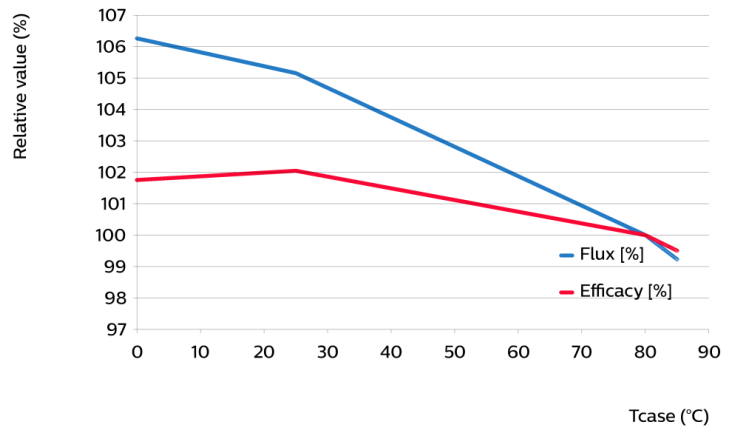
Flux and efficacy versus current (at Tc nominal)

I [mA]	Flux [%]	Efficacy [%]
1050	180	88
790	142	93
530	100	100
424	82	103
265	53	109



Flux and efficacy versus temperature at Tc (at I nominal)

Tc [°C]	Flux [%]	Efficacy [%]
85	99	100
80	100	100
25	105	102
0	106	102



## Lumen maintenance

Operation point	Lumen maintenance x 1000 hours	L70			L80			L90		
		B50	B20	B10	B50	B20	B10	B50	B20	B10
I 530 mA	Tc 60°C	>100	>100	>100	>100	>100	>100	>100	>100	>100
	Tc 70°C	>100	>100	>100	>100	>100	>100	>100	>100	>100
	Tc 80°C	>100	>100	>100	>100	>100	>100	>100	>100	>100
I 700 mA	Tc 60°C	>100	>100	>100	>100	>100	>100	>100	>100	>100
	Tc 70°C	>100	>100	>100	>100	>100	>100	>100	>100	>100
	Tc 80°C	>100	>100	>100	>100	>100	>100	>100	>100	>100
I 1050 mA	Tc 60°C	>100	>100	>100	>100	>100	>100	>100	>100	>100
	Tc 70°C	>100	>100	>100	>100	>100	>100	>100	>100	>100
	Tc 80°C	>100	>100	>100	>100	>100	>100	>100	>100	>100

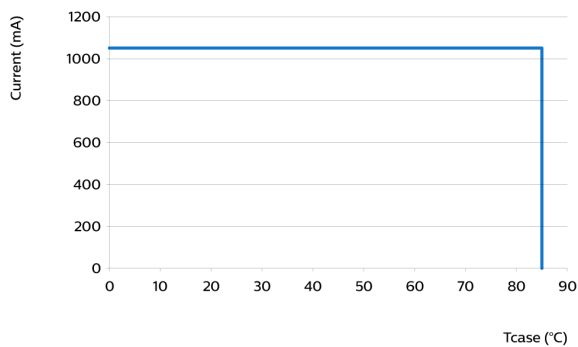
We use a Philips designed lifetime model, which uses LM80 data as only one of its inputs and assumes a continuous operation of the module.

\*B20 and B10 values are calculated by means of statistical techniques.

## Lifetime

Parameter	Value	Unit
M70F50 nominal	>100000	hours
M70F50 life	>100000	hours

## Performance Window

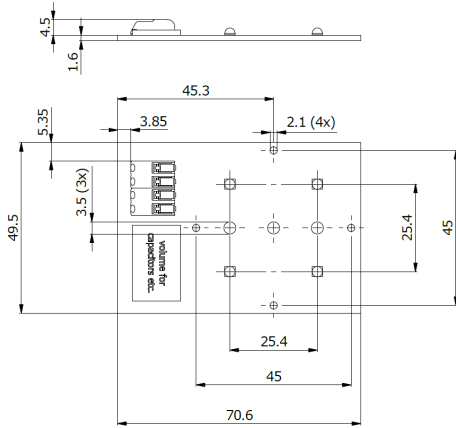


## Wiring

Specification item	Value	Unit	Condition
Input wire cross-section	0.33...0.5	mm <sup>2</sup>	stranded wire
	20...22	AWG	stranded wire
Input wire strip length	7.5...8.5	mm	
Input wire cross-section	0.25...0.75	mm <sup>2</sup>	solid wire
	18...24	AWG	solid wire
Input wire strip length	7.5...8.5	mm	

## Mechanical characteristics

Parameter	Min	Typ	Max	Unit
Length	70.5	70.6	70.7	mm
Width	49.4	49.5	49.6	mm
Height excl.connector	1.5	1.6	1.7	mm
Height incl. connector	6	6.1	6.2	mm
Product mass		16		gram



## Absolute ratings

Parameter	Min	Max	Unit
Current through the LED module (I-max)		1500	mA
Case temperature (Tc-max)		95	°C
Thermal power at I-max and Tc-max (Pth)		12.18	W
ESD (direct contact)	8		kV
ESD (air)	15		kV
Working voltage		575	V <sub>dc</sub>
Ambient temperature	-40	50	°C
Storage temperature	-20	80	°C

## Application information

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### Certificates and Standards

CE  
ENEC  
ENEC+  
UL

### Environmental

RoHS/REACH

### Zhaga

### Compliant\*

\*Book 15, 2x2-DA

### Application

Overheating protection

NTC 15kOhm + 1100 Ohm in series

Dimming

Yes



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