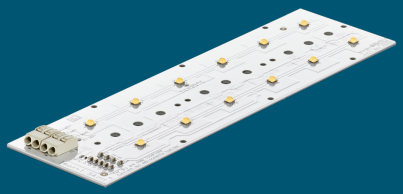
xitanium



Datasheet

Fortimo FastFlex LED 2x6 DA G5

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



Ordering data

Commercial product name	EOC	12NC	EPREL No.	EPREL model ID	Box quantity
Fortimo FastFlex LED 2x6/722 DA G5	8719514 318229 00	9290 028 66706	2883603	929002866706X	25
Fortimo FastFlex LED 2x6/727 DA G5	8719514 318243 00	9290 028 66806	2883601	929002866806X	25
Fortimo FastFlex LED 2x6/730 DA G5	8719514 318267 00	9290 028 66906	2883650	929002866906X	25
Fortimo FastFlex LED 2x6/740 DA G5	8719514 318281 00	9290 028 67006	2883640	929002867006X	25
Fortimo FastFlex LED 2x6/827 DA G5	8719514 318304 00	9290 028 67106	2883598	929002867106X	25
Fortimo FastFlex LED 2x6/830 DA G5	8719514 318328 00	9290 028 67206	2883617	929002867206X	25
Fortimo FastFlex LED 2x6/840 DA G5	8719514 318342 00	9290 028 67306	2883581	929002867306X	25

Drive currents

Parameter	Nominal*	Life**	Max***	Unit
Fortimo FastFlex LED 2x6 DA G5	530	1050	1500	mA

Module temperatures

Parameter	Nominal*	Life**	Max***	Unit
T_c (case temperature at T_c 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 2x6/722 DA G5
Fortimo FastFlex LED 2x6/727 DA G5
Fortimo FastFlex LED 2x6/730 DA G5
Fortimo FastFlex LED 2x6/740 DA G5

	2200K	2700K	3000K	4000K	Unit
Luminous flux (Φuse)*	2310	2560	2845	3065	lm
Efficacy*	130	144	160	172	lm/W
Average Luminous flux (tolerance -5% + 5%)	2610	2912	3134	3302	lm
Average Efficacy (tolerance -5% + 5%)	148	165	177	186	lm/W
Max. Efficacy	157	177	195	206	lm/W
Max. Color consistency	5	5	5	5	SDCM
Color coordinates (CIEx, CIEy)	0.505, 0.417	0.460, 0.408	0.436, 0.404	0.385, 0.383	
Min. CRI	70	70	70	70	
Min. R9	-50	-50	-50	-50	
Photometric code	722/579	727/579	730/579	740/579	
Max. Photobiological safety	RG2	RG2	RG2	RG2	
Ethr	860	860	860	860	
Energy label EPREL	E 	E 	D 	D 	

Fortimo FastFlex LED 2x6/827 DA G5
Fortimo FastFlex LED 2x6/830 DA G5
Fortimo FastFlex LED 2x6/840 DA G5

	2700K	3000K	4000K	Unit
Luminous flux (Φuse)*	2405	2535	2680	lm
Efficacy*	135	142	151	lm/W
Average Luminous flux (tolerance -5% + 5%)	2739	2891	3024	lm
Average Efficacy (tolerance -5% + 5%)	156	165	172	lm/W
Max. Efficacy	167	174	184	lm/W
Max. Color consistency	5	5	5	SDCM
Color coordinates (CIEx, CIEy)	0.460, 0.408	0.436, 0.404	0.385, 0.383	
Min. CRI	80	80	80	
Min. R9	0	0	0	
Photometric code	827/579	830/579	840/579	
Max. Photobiological safety	RG2	RG2	RG2	
Ethr	860	860	860	
Energy label EPREL	E 	E 	D 	

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

* Luminous flux(Φuse) and Efficacy refer to Single Lighting Regulation (SLR). Luminous flux(Φuse) 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 4π sr (corresponding to a 360° sphere)

Tuning table

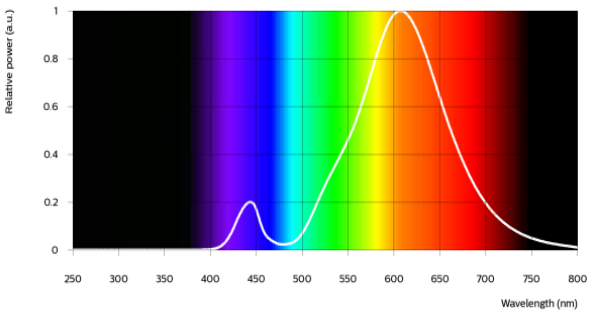
Operation Point		Current	2200K	2700K	3000K	4000K	Unit
Tc = 25°C	Luminous flux	80% I-nom 424mA	1992	2206	2451	2639	lm
		I-nom 530mA	2432	2694	2992	3223	lm
		I-max 1500mA	5935	6578	7311	7877	lm
	Efficacy	80% I-nom 424mA	136	151	168	181	lm/W
		I-nom 530mA	132	146	163	175	lm/W
		I-max 1500mA	107	119	132	142	lm/W
Tc = 80°C	Luminous flux	80% I-nom 424mA	1893	2097	2330	2510	lm
		I-nom 530mA	2610	2912	3134	3302	lm
		I-max 1500mA	5562	6171	6868	7407	lm
	Efficacy	80% I-nom 424mA	134	149	165	178	lm/W
		I-nom 530mA	148	165	177	186	lm/W
		I-max 1500mA	103	115	128	137	lm/W
Tc = 95°C	Luminous flux	80% I-nom 424mA	1844	2043	2271	2447	lm
		I-nom 530mA	2250	2494	2772	2987	lm
		I-max 1500mA	5377	5969	6648	7173	lm
	Efficacy	80% I-nom 424mA	132	146	162	175	lm/W
		I-nom 530mA	127	141	157	169	lm/W
		I-max 1500mA	101	112	124	134	lm/W

Operation Point		Current	2700K	3000K	4000K	Unit
Tc = 25°C	Luminous flux	80% I-nom 424mA	2073	2184	2309	lm
		I-nom 530mA	2531	2667	2820	lm
		I-max 1500mA	6180	6513	6887	lm
	Efficacy	80% I-nom 424mA	142	150	158	lm/W
		I-nom 530mA	138	145	153	lm/W
		I-max 1500mA	112	118	124	lm/W
Tc = 80°C	Luminous flux	80% I-nom 424mA	1970	2077	2195	lm
		I-nom 530mA	2739	2891	3024	lm
		I-max 1500mA	5794	6110	6465	lm
	Efficacy	80% I-nom 424mA	140	147	156	lm/W
		I-nom 530mA	156	165	172	lm/W
		I-max 1500mA	108	114	120	lm/W
Tc = 95°C	Luminous flux	80% I-nom 424mA	1920	2023	2139	lm
		I-nom 530mA	2343	2469	2611	lm
		I-max 1500mA	5602	5910	6255	lm
	Efficacy	80% I-nom 424mA	137	145	153	lm/W
		I-nom 530mA	132	140	148	lm/W
		I-max 1500mA	105	111	117	lm/W

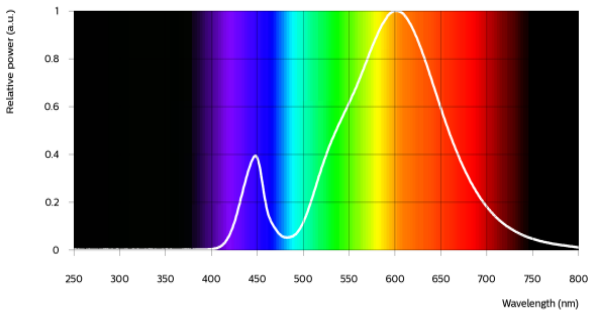
*Based on average value

Spectral characteristics

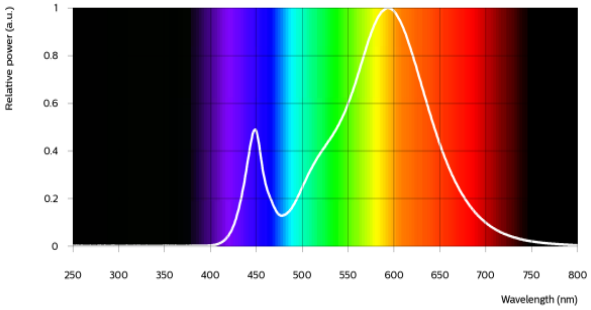
CRI70 2200K



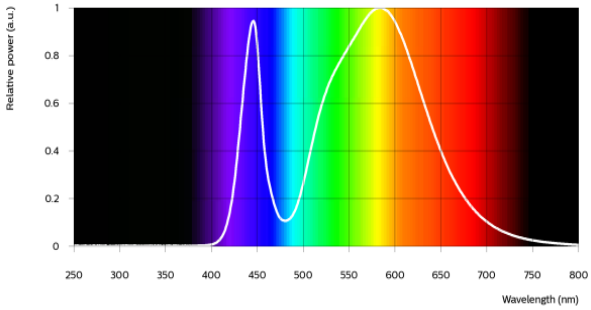
CRI70 2700K



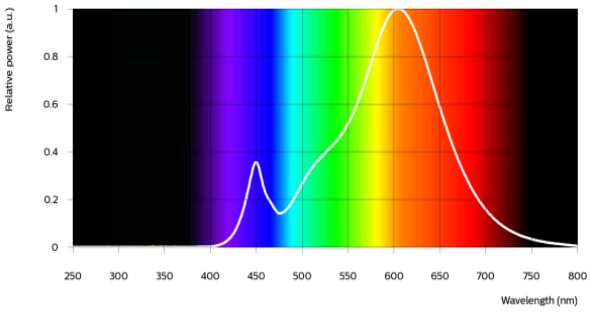
CRI70 3000K



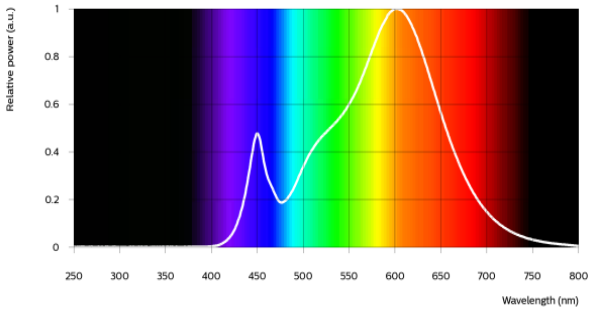
CRI70 4000K



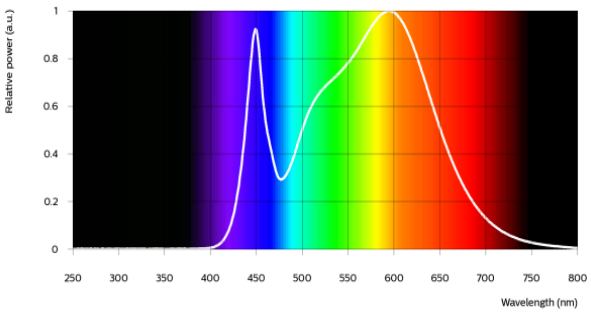
CRI80 2700K



CRI80 3000K



CRI80 4000K



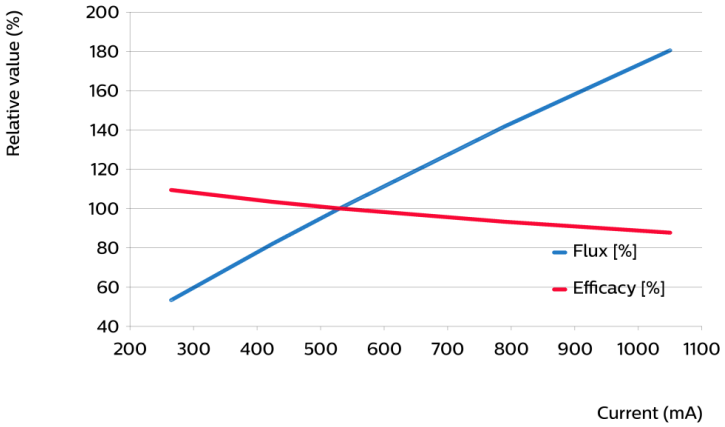
Electrical characteristics

Parameter	Min	Typ	Max	Unit
Forward voltage	31.8	33.6	34.8	V
Power consumption	16.9	17.8	18.4	W = kWh/1000h
Number of modules in series per chain			10	
Number of modules in parallel			1	

Tuning information

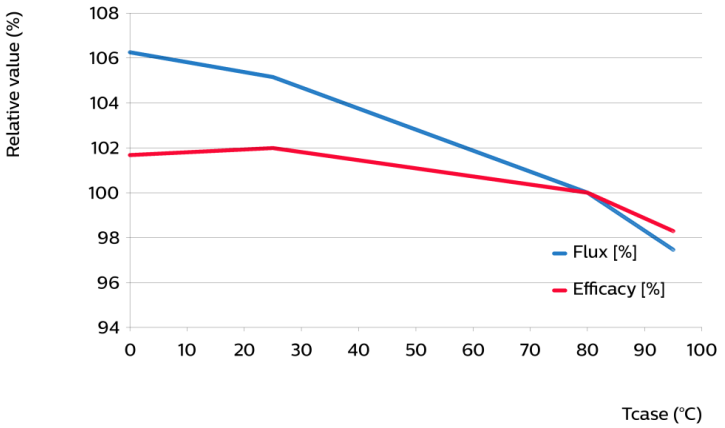
Flux and efficacy versus current (at Tc nominal)

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 [%]
95	97	98
80	100	100
25	105	102
0	106	102



Lumen maintenance

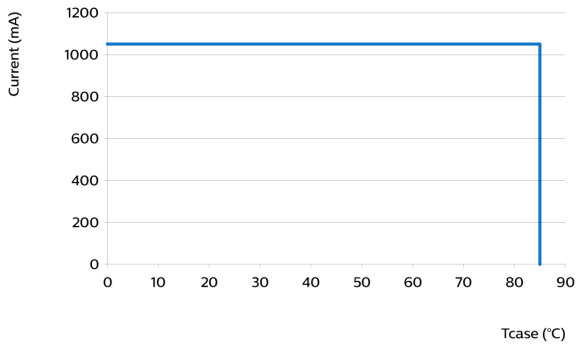
Operation point	Lumen maintenance x 1000 hours	L70 B50	L70 B20	L70 B10	L80 B50	L80 B20	L80 B10	L90 B50	L90 B20	L90 B10
I 530 mA	Tc 60°C	>100	>100	>100	>100	>100	>100	>100	>100	>100
	Tc 70°C	>100	>100	>100	>100	>100	>100	>100	>100	>100
	Tc 80°C	>100	>100	>100	>100	>100	>100	>100	>100	>100
I 700 mA	Tc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

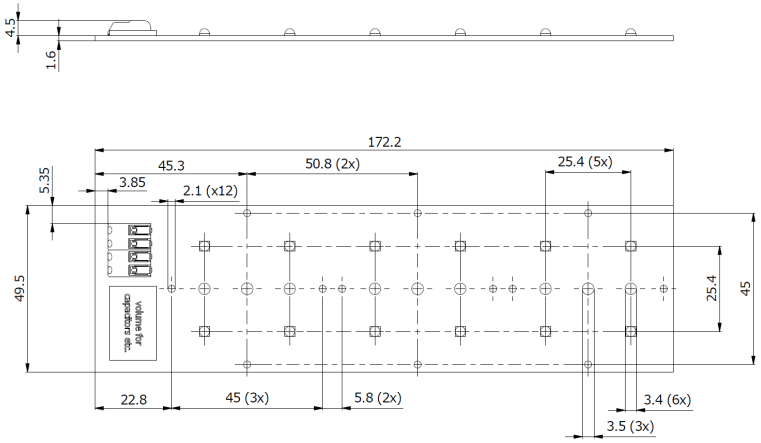


Wiring

Specification item	Value	Unit	Condition
Input wire cross-section	0.33...0.5	mm²	stranded wire
	20...22	AWG	stranded wire
Input wire strip length	7.5...8.5	mm	
Input wire cross-section	0.25...0.75	mm²	solid wire
	18...24	AWG	solid wire
Input wire strip length	7.5...8.5	mm	

Mechanical characteristics

Parameter	Min	Typ	Max	Unit
Length	171.1	172.2	172.3	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		39		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)		34.2	W
ESD (direct contact)	8		kV
ESD (air)	15		kV
Working voltage		575	V_{dc}
Ambient temperature	-40	50	°C
Storage temperature	-20	80	°C

Application information

Certificates and Standards
CE
ENEC
ENEC+
UL

Zhaga	Compliant*
*Book 15, 2x6-DA	

Application	
Overheating protection	NTC 15kOhm + 1100 Ohm in series
Dimming	Yes

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