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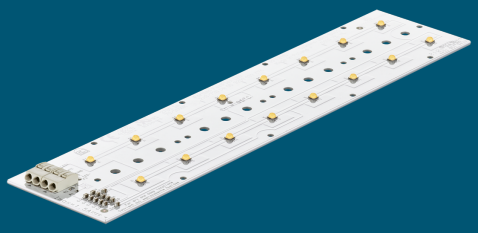


Datasheet

Fortimo FastFlex LED 2x8 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 2x8/722 DA G5	8719514 318366 00	9290 028 67406	2883610	929002867406X	25
Fortimo FastFlex LED 2x8/727 DA G5	8719514 318380 00	9290 028 67506	2883620	929002867506X	25
Fortimo FastFlex LED 2x8/730 DA G5	8719514 318403 00	9290 028 67606	2883622	929002867606X	25
Fortimo FastFlex LED 2x8/740 DA G5	8719514 318427 00	9290 028 67706	2883605	929002867706X	25
Fortimo FastFlex LED 2x8/757 DA G5	8719514 318441 00	9290 028 67806	2883589	929002867806X	25
Fortimo FastFlex LED 2x8/827 DA G5	8719514 318502 00	9290 028 68006	2883628	929002868006X	25
Fortimo FastFlex LED 2x8/830 DA G5	8719514 318533 00	9290 028 68106	2883643	929002868106X	25
Fortimo FastFlex LED 2x8/840 DA G5	8719514 318557 00	9290 028 68206	2883626	929002868206X	25

Drive currents

Parameter	Nominal*	Life**	Max***	Unit
Fortimo FastFlex LED 2x8 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 2x8/722 DA G5
Fortimo FastFlex LED 2x8/727 DA G5
Fortimo FastFlex LED 2x8/730 DA G5
Fortimo FastFlex LED 2x8/740 DA G5
Fortimo FastFlex LED 2x8/757 DA G5

	2200K	2700K	3000K	4000K	5700K	Unit
Luminous flux (Φuse)*	3080	3415	3795	4100	4145	lm
Efficacy*	130	144	160	173	175	lm/W
Average Luminous flux (tolerance -5% + 5%)	3450	3930	4119	4436	4413	lm
Average Efficacy (tolerance -5% + 5%)	148	167	175	188	188	lm/W
Max. Efficacy	157	177	195	206	207	lm/W
Max. Color consistency	5	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	0.330, 0.345	
Min. CRI	70	70	70	70	70	
Min. R9	-50	-50	-50	-50	-50	
Photometric code	722/579	727/579	730/579	740/579	757/579	
Max. Photobiological safety	RG2	RG2	RG2	RG2	RG2	
Ethr	860	860	860	860	860	
Energy label EPREL	E	E	D	C	C	

Fortimo FastFlex LED 2x8/827 DA G5
Fortimo FastFlex LED 2x8/830 DA G5
Fortimo FastFlex LED 2x8/840 DA G5

	2700K	3000K	4000K	Unit
Luminous flux (Φuse)*	3205	3375	3575	lm
Efficacy*	135	142	151	lm/W
Average Luminous flux (tolerance -5% + 5%)	3665	3829	4070	lm
Average Efficacy (tolerance -5% + 5%)	156	163	174	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

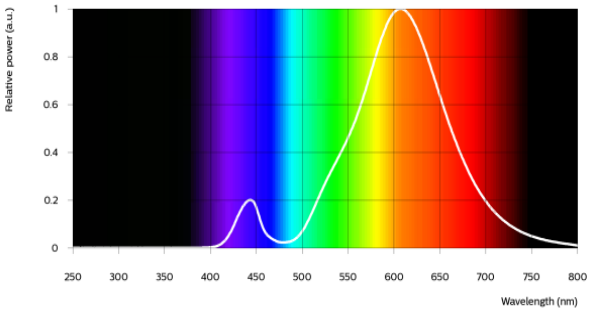
Operation Point		Current	2200K	2700K	3000K	4000K	5700K	Unit
Tc = 25°C	Luminous flux	80% I-nom 424mA	2655	2943	3269	3530	3569	lm
		I-nom 530mA	3242	3593	3991	4311	4358	lm
		I-max 1500mA	7914	8775	9752	10537	10652	lm
	Efficacy	80% I-nom 424mA	137	152	168	182	184	lm/W
		I-nom 530mA	132	147	163	176	178	lm/W
		I-max 1500mA	107	119	132	143	144	lm/W
Tc = 80°C	Luminous flux	80% I-nom 424mA	2524	2798	3109	3358	3395	lm
		I-nom 530mA	3450	3930	4119	4436	4413	lm
		I-max 1500mA	7416	8233	9161	9909	10018	lm
	Efficacy	80% I-nom 424mA	134	149	165	179	181	lm/W
		I-nom 530mA	148	167	175	188	188	lm/W
		I-max 1500mA	103	115	128	138	140	lm/W
Tc = 95°C	Luminous flux	80% I-nom 424mA	2458	2726	3029	3273	3309	lm
		I-nom 530mA	3000	3327	3698	3996	4039	lm
		I-max 1500mA	7169	7963	8867	9596	9703	lm
	Efficacy	80% I-nom 424mA	131	146	162	175	177	lm/W
		I-nom 530mA	128	142	157	169	171	lm/W
		I-max 1500mA	101	112	125	135	136	lm/W

Operation Point		Current	2700K	3000K	4000K	Unit
Tc = 25°C	Luminous flux	80% I-nom 424mA	2763	2908	3080	lm
		I-nom 530mA	3373	3551	3761	lm
		I-max 1500mA	8235	8671	9187	lm
	Efficacy	80% I-nom 424mA	142	150	159	lm/W
		I-nom 530mA	138	145	154	lm/W
		I-max 1500mA	112	117	124	lm/W
Tc = 80°C	Luminous flux	80% I-nom 424mA	2626	2765	2929	lm
		I-nom 530mA	3665	3829	4070	lm
		I-max 1500mA	7721	8134	8624	lm
	Efficacy	80% I-nom 424mA	140	147	156	lm/W
		I-nom 530mA	156	163	174	lm/W
		I-max 1500mA	108	113	120	lm/W
Tc = 95°C	Luminous flux	80% I-nom 424mA	2558	2694	2854	lm
		I-nom 530mA	3122	3287	3483	lm
		I-max 1500mA	7465	7867	8344	lm
	Efficacy	80% I-nom 424mA	137	144	153	lm/W
		I-nom 530mA	133	140	148	lm/W
		I-max 1500mA	105	110	117	lm/W

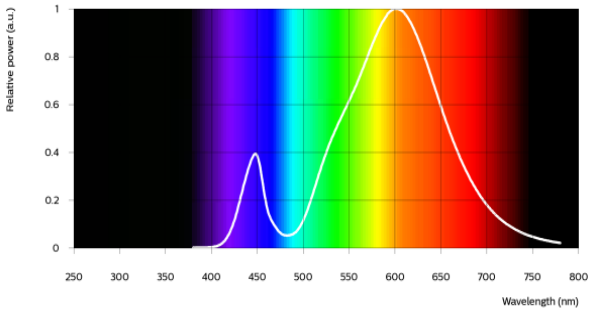
*Based on average value

Spectral characteristics

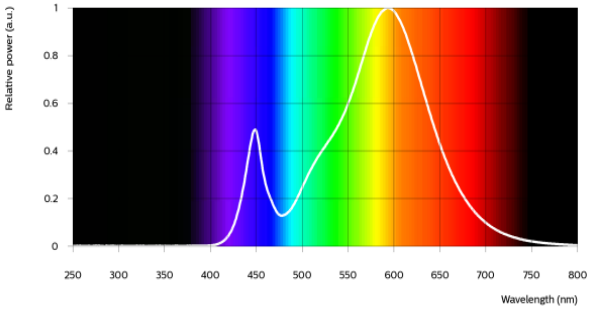
CRI70 2200K



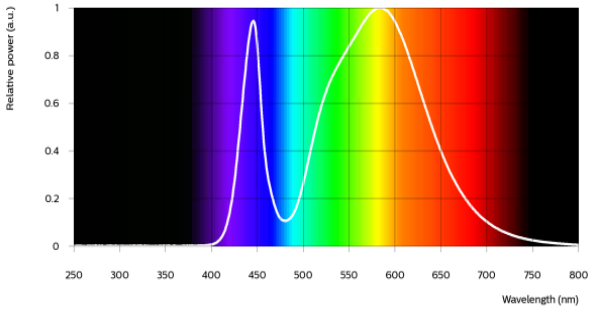
CRI70 2700K



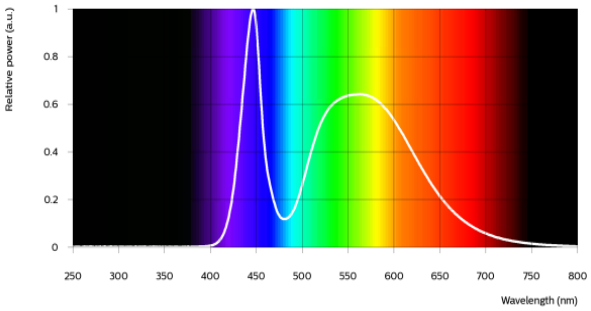
CRI70 3000K



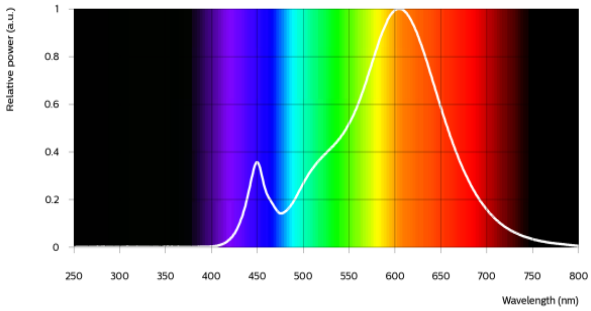
CRI70 4000K



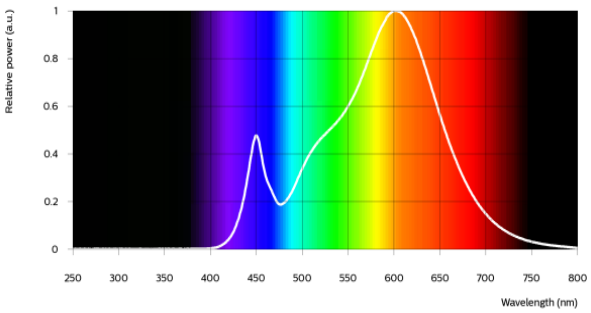
CRI70 5700K



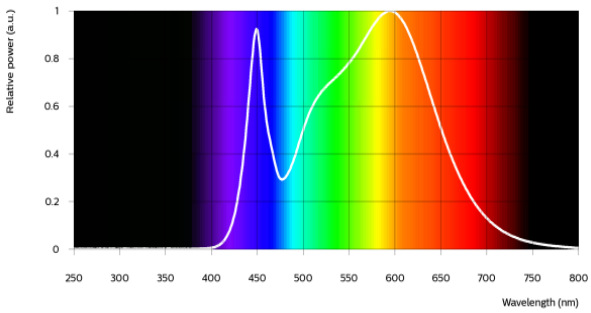
CRI80 2700K



CRI80 3000K



CRI80 4000K



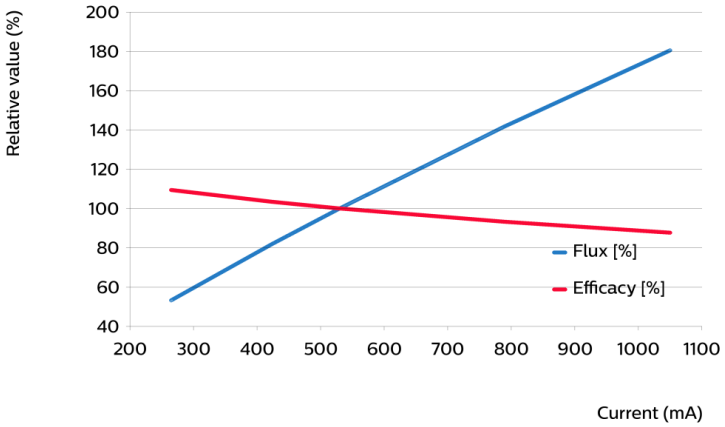
Electrical characteristics

Parameter	Min	Typ	Max	Unit
Forward voltage	42.4	44.8	46.4	V
Power consumption	22.5	23.7	24.6	W = kWh/1000h
Number of modules in series per chain			10	
Number of modules in parallel			1	

Tuning information

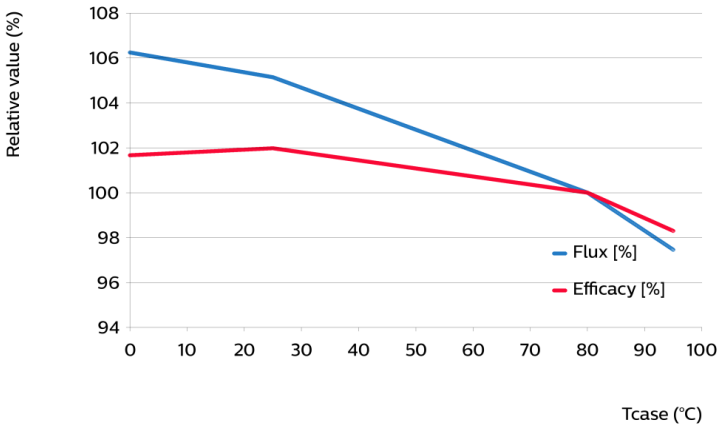
Flux and efficacy versus current (at Tc nominal)

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

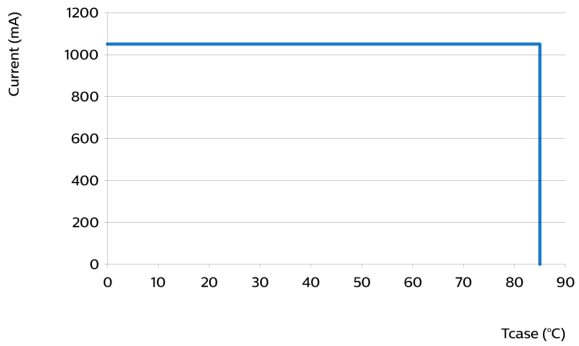
Operation point	Lumen maintenance x 1000 hours	L70 B50	L70 B20	L70 B10	L80 B50	L80 B20	L80 B10	L90 B50	L90 B20	L90 B10
I 530 mA	Tc 60°C	>100	>100	>100	>100	>100	>100	>100	>100	>100
	Tc 70°C	>100	>100	>100	>100	>100	>100	>100	>100	>100
	Tc 80°C	>100	>100	>100	>100	>100	>100	>100	>100	>100
I 700 mA	Tc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

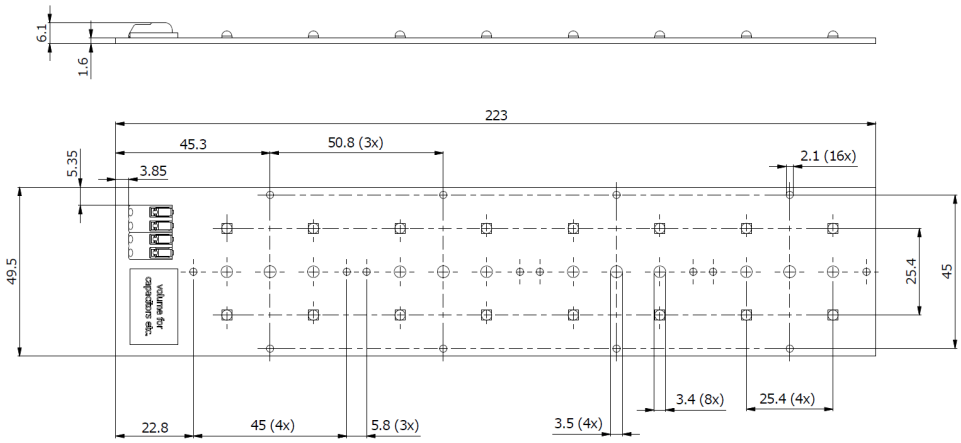


Wiring

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	222.9	223	223.1	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		50		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)		48.73	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, 2x8-DA	

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

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