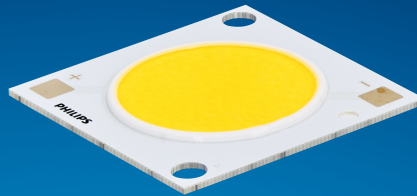


PHILIPS

Fortimo

LED

Fortimo SLM C 9xx 1211
L19 2828 G8



Datasheet

Best offer of performance and value

Fortimo LED SLM CRI90 G8 Standard

The Fortimo SLM family is Signify's core portfolio, now in its latest generation - Gen 8. This new generation boasts improved efficacy compared to the previous one and an expanded portfolio that includes specific spectrums such as Premium White, Premium Color, and standard color for all applications. It maintains the same two footprints as the previous generation, enabling easy upgrades. Together with other Fortimo SLM G8 product lines, our Fortimo SLM G8 will continuously unlock the extraordinary potential of light, facilitate innovation, and inspire the next generation of luminaire design for our OEM customers. Please also visit the online Easy Design-in Tool for your perfect system combination at www.easydesignintool.com.

Key features and benefits

- +5% efficacy further improvement Vs G7
- Best quality of light available for all applications
- More complete portfolio for easy choice
- Same footprint for easy upgrade
- System proposition

March 2025



Ordering data

Commercial product name	EOC	12NC	EPREL registration #	Box quantity
Fortimo SLM C 927 1211 L19 2828 G8	8721103 077592 00	9290 039 50701	2270310	10
Fortimo SLM C 930 1211 L19 2828 G8	8721103 077622 00	9290 039 50801	2270262	10
Fortimo SLM C 935 1211 L19 2828 G8	8721103 077653 00	9290 039 50901	2270258	10
Fortimo SLM C 940 1211 L19 2828 G8	8721103 077684 00	9290 039 51001	2270303	10
Fortimo SLM C 930 PW 1211 L19 2828 G8	8721103 077714 00	9290 039 51101	2270284	10
Fortimo SLM C 935 PW 1211 L19 2828 G8	8721103 077745 00	9290 039 51201	2270339	10
Fortimo SLM C 940 PW 1211 L19 2828 G8	8721103 077776 00	9290 039 51301	2270288	10
Fortimo SLM C 930 PC 1211 L19 2828 G8	8721103 077806 00	9290 039 51401	2270257	10

Drive currents

Parameter	Nominal*	Life**	Max***	Unit
Fortimo SLM C 9xx 1211 L19 2828 G8	1200	see performance window	2530	mA

Module temperatures

Parameter	Nominal*	Life**	Max***	Unit
T _c (case temperature at T _c point)	65	see performance window	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

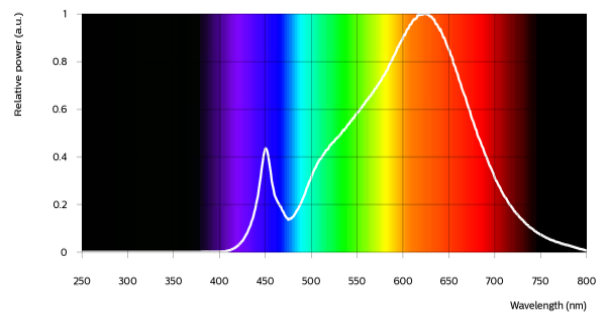
Optical characteristics - table per color (CCT)

Fortimo SLM C 927 1211 L19 2828 G8


Parameter	Min	Typ	Max	Unit
Luminous flux	5026	5290	5819	lm
Efficacy		124		lm/W
Correlated color temperature (CCT)		2700		K
Color coordinates (CIEx, CIEy)		(0.458, 0.410)		-
Color consistency			3	SDCM
CRI	90			
R9	>50			
Photometric code		927/359		
Photobiological safety		RG1 unlimited		

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

Operation point	927	lm	lm/W
80% I-nom 960mA	Tc 25 °C	4507	135
	Tc-nom 65 °C	4314	130
	Tc-max 95 °C	4122	125
I-nom 1200mA	Tc 25 °C	5531	129
	Tc-nom 65 °C	5290	124
	Tc-max 95 °C	5050	120
I-max 2530mA	Tc 25 °C	10608	106
	Tc-nom 65 °C	10143	102
	Tc-max 95 °C	9606	97

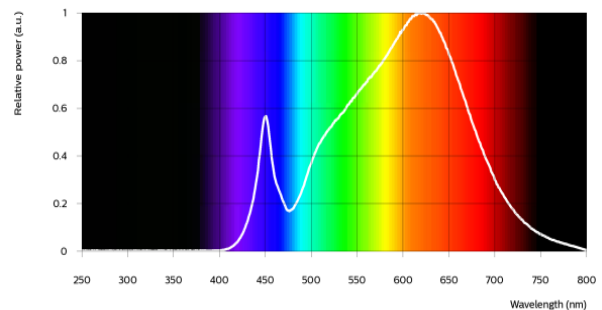


Fortimo SLM C 930 1211 L19 2828 G8


Parameter	Min	Typ	Max	Unit
Luminous flux	5339	5620	6182	lm
Efficacy		132		lm/W
Correlated color temperature (CCT)		3000		K
Color coordinates (CIEx, CIEy)		(0.434, 0.403)		-
Color consistency			3	SDCM
CRI	90			
R9	>50			
Photometric code		930/359		
Photobiological safety		RG1 unlimited		

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

Operation point	930	lm	lm/W
80% I-nom 960mA	Tc 25 °C	4787	143
	Tc-nom 65 °C	4583	138
	Tc-max 95 °C	4380	133
I-nom 1200mA	Tc 25 °C	5876	137
	Tc-nom 65 °C	5620	132
	Tc-max 95 °C	5366	128
I-max 2530mA	Tc 25 °C	11349	113
	Tc-nom 65 °C	10781	108
	Tc-max 95 °C	10213	104

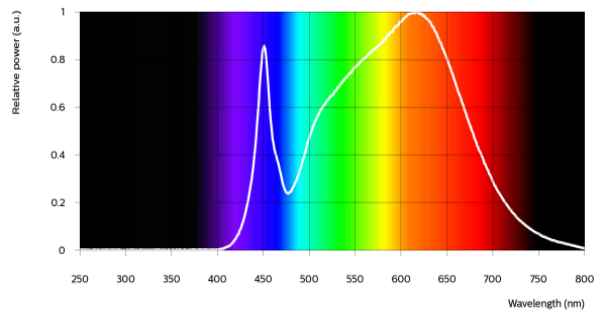


Fortimo SLM C 935 1211 L19 2828 G8


Parameter	Min	Typ	Max	Unit
Luminous flux	5496	5785	6364	lm
Efficacy		136		lm/W
Correlated color temperature (CCT)		3500		K
Color coordinates (CIEx, CIEy)		(0.407, 0.392)		-
Color consistency			3	SDCM
CRI	90			
R9	>50			
Photometric code		935/359		
Photobiological safety		RG1 unlimited		

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.

Operation point	935	lm	lm/W
80% I-nom 960mA	Tc 25 °C	4927	147
	Tc-nom 65 °C	4717	142
	Tc-max 95 °C	4508	137
I-nom 1200mA	Tc 25 °C	6048	141
	Tc-nom 65 °C	5785	136
	Tc-max 95 °C	5523	132
I-max 2530mA	Tc 25 °C	11683	116
	Tc-nom 65 °C	11099	112
	Tc-max 95 °C	10516	107

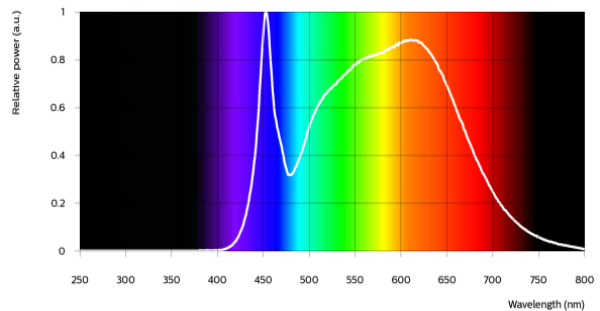


Fortimo SLM C 940 1211 L19 2828 G8


Parameter	Min	Typ	Max	Unit
Luminous flux	5624	5920	6512	lm
Efficacy		139		lm/W
Correlated color temperature (CCT)		4000		K
Color coordinates (CIEx, CIEy)		(0.382, 0.380)		-
Color consistency			3	SDCM
CRI	90			
R9	>50			
Photometric code		940/359		
Photobiological safety		RG1 unlimited		

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.

Operation point	940	lm	lm/W
80% I-nom 960mA	Tc 25 °C	5042	151
	Tc-nom 65 °C	4827	145
	Tc-max 95 °C	4613	140
I-nom 1200mA	Tc 25 °C	6189	145
	Tc-nom 65 °C	5920	139
	Tc-max 95 °C	5653	135
I-max 2530mA	Tc 25 °C	11956	119
	Tc-nom 65 °C	11360	114
	Tc-max 95 °C	10764	109

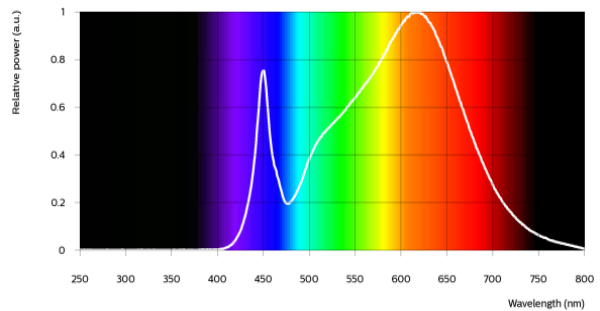


Fortimo SLM C 930 PW 1211 L19 2828 G8


Parameter	Min	Typ	Max	Unit
Luminous flux	5339	5620	6182	lm
Efficacy		132		lm/W
Correlated color temperature (CCT)		3000		K
Color coordinates (CIEx, CIEy)		(0.422, 0.386)		-
Color consistency			3	SDCM
CRI	90			
R9	>50			
Photometric code		930/359		
Photobiological safety		RG1 unlimited		

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.

Operation point	930	lm	lm/W
80% I-nom 960mA	Tc 25 °C	4787	143
	Tc-nom 65 °C	4583	138
	Tc-max 95 °C	4380	133
I-nom 1200mA	Tc 25 °C	5876	137
	Tc-nom 65 °C	5620	132
	Tc-max 95 °C	5366	128
I-max 2530mA	Tc 25 °C	11350	113
	Tc-nom 65 °C	10783	108
	Tc-max 95 °C	10216	104

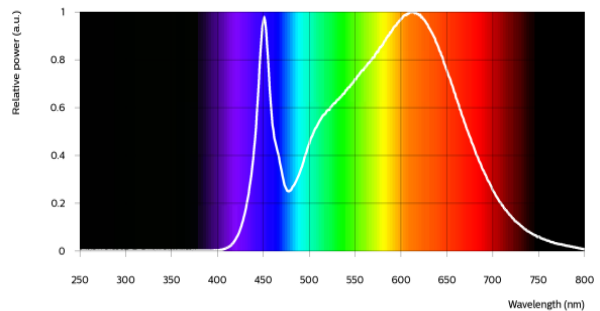


Fortimo SLM C 935 PW 1211 L19 2828 G8


Parameter	Min	Typ	Max	Unit
Luminous flux	5496	5785	6364	lm
Efficacy		136		lm/W
Correlated color temperature (CCT)		3500		K
Color coordinates (CIEx, CIEy)		(0.398, 0.376)		-
Color consistency			3	SDCM
CRI	90			
R9	>50			
Photometric code		935/359		
Photobiological safety		RG1 unlimited		

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.

Operation point	935	lm	lm/W
80% I-nom 960mA	Tc 25 °C	4927	147
	Tc-nom 65 °C	4717	142
	Tc-max 95 °C	4508	137
I-nom 1200mA	Tc 25 °C	6048	141
	Tc-nom 65 °C	5785	136
	Tc-max 95 °C	5523	132
I-max 2530mA	Tc 25 °C	11683	116
	Tc-nom 65 °C	11100	112
	Tc-max 95 °C	10517	107

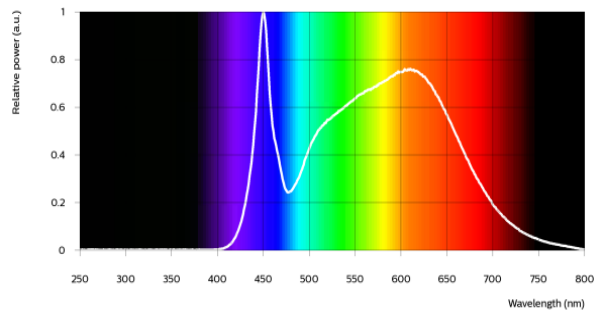


Fortimo SLM C 940 PW 1211 L19 2828 G8


Parameter	Min	Typ	Max	Unit
Luminous flux	5624	5920	6512	lm
Efficacy		139		lm/W
Correlated color temperature (CCT)		4000		K
Color coordinates (CIEx, CIEy)		(0.374, 0.364)		-
Color consistency			3	SDCM
CRI	90			
R9	>50			
Photometric code		940/359		
Photobiological safety		RG1 unlimited		

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.

Operation point	940	lm	lm/W
80% I-nom 960mA	Tc 25 °C	5042	151
	Tc-nom 65 °C	4827	145
	Tc-max 95 °C	4613	140
I-nom 1200mA	Tc 25 °C	6189	145
	Tc-nom 65 °C	5920	139
	Tc-max 95 °C	5653	135
I-max 2530mA	Tc 25 °C	11958	119
	Tc-nom 65 °C	11363	114
	Tc-max 95 °C	10768	109

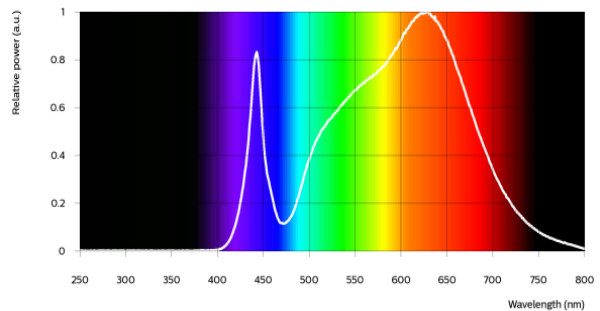


Fortimo SLM C 930 PC 1211 L19 2828 G8

Parameter	Min	Typ	Max	Unit
Luminous flux	5026	5290	5819	lm
Efficacy		124		lm/W
Correlated color temperature (CCT)		3000		K
Color coordinates (CIEx, CIEy)		(0.422, 0.386)		-
Color consistency			3	SDCM
CRI	90			
R9	>70			
Photometric code		930/359		
Photobiological safety		RG1 unlimited		

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.

Operation point	930	lm	lm/W
80% I-nom 960mA	Tc 25 °C	4507	135
	Tc-nom 65 °C	4314	130
	Tc-max 95 °C	4122	125
I-nom 1200mA	Tc 25 °C	5531	129
	Tc-nom 65 °C	5290	124
	Tc-max 95 °C	5050	120
I-max 2530mA	Tc 25 °C	10685	106
	Tc-nom 65 °C	10152	102
	Tc-max 95 °C	9620	97





Electrical characteristics

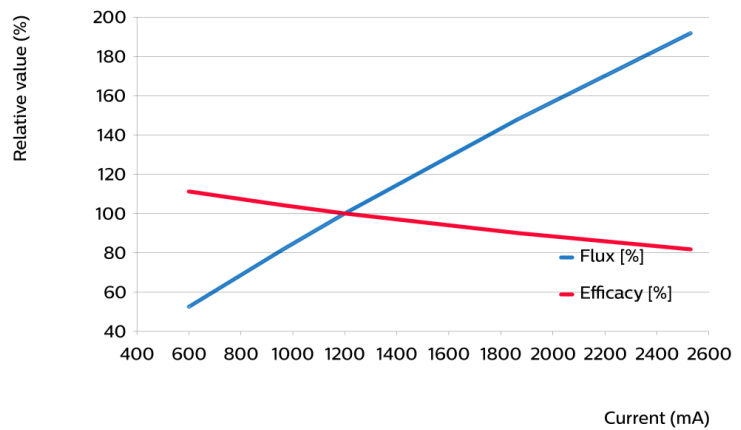
Parameter	Min	Typ	Max	Unit
Forward voltage	32.5	35.4	37.0	V
Power consumption	39.0	42.5	44.4	W = kWh/1000h
Number of modules in series per chain			1	
Number of modules per chain			1	
Number of modules in parallel			1	

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

Tuning information

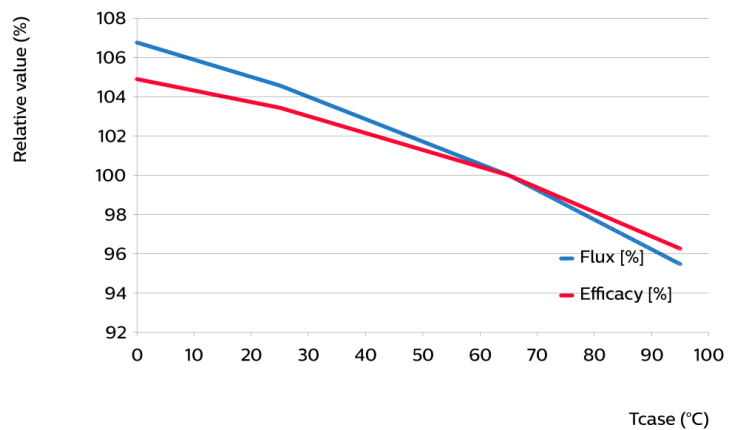
Flux and efficacy versus current (at Tc nominal)

I [mA]	Flux [%]	Efficacy [%]
2530	192	82
1865	148	90
1200	100	100
960	82	104
600	52	111



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

Tc [°C]	Flux [%]	Efficacy [%]
95	95	96
65	100	100
25	105	103
0	107	105



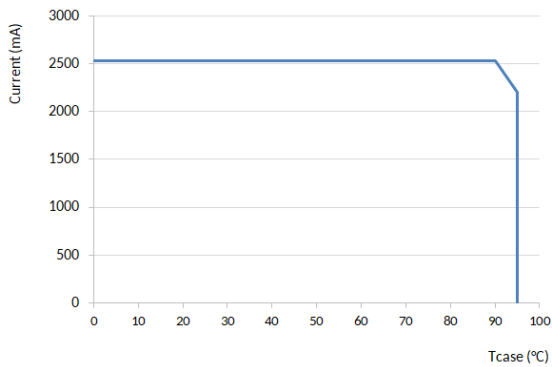
Lumen maintenance

Operation point	Lumen maintenance x 1000 hours	L70			L80			L90		
		B50	B20	B10	B50	B20	B10	B50	B20	B10
80% I-nom 960mA	Tc 50°C	>66	>66	>66	>66	>66	>66	>66	>66	>66
	Tc 65°C	>66	>66	>66	>66	>66	>66	>66	>66	>66
	Tc 95°C	>66	>66	>66	>66	>66	>66	>66	>66	>66
I-nom 1200mA	Tc 50°C	>66	>66	>66	>66	>66	>66	>66	>66	>66
	Tc 65°C	>66	>66	>66	>66	>66	>66	>66	>66	>66
	Tc 95°C	>66	>66	>66	>66	>66	>66	57	48	44
I-max 2530mA	Tc 50°C	>66	>66	>66	>66	58	53	32	27	25
	Tc 65°C	>66	>66	64	51	43	40	24	20	18
	Tc 95°C	50	42	39	31	26	24	14	12	11

Lifetime

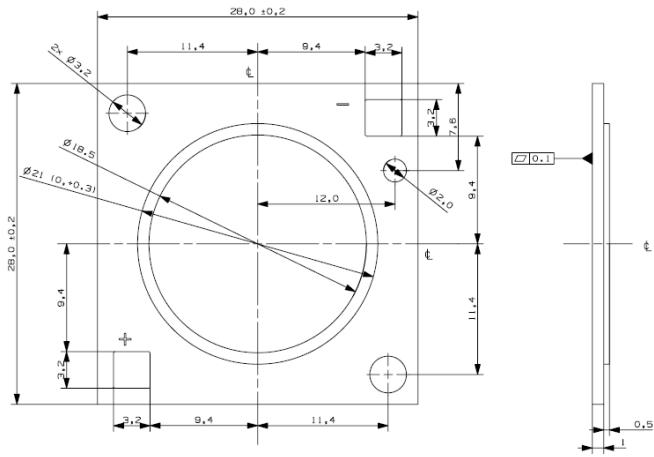
Parameter	Value	Unit
M70F50 nominal	>66000	hours

Performance Window



Mechanical characteristics

Parameter	Min	Typ	Max	Unit
Length	27.8	28	28.2	mm
Width	27.8	28	28.2	mm
Height PCB	0.9	1	1.1	mm
Height including dam	1.2	1.5	1.8	mm
Product mass		2.1		gram



Absolute ratings

Parameter	Min	Max	Unit
Current through the LED module (I-max)		2530	mA
Case temperature (Tc-max)		95	°C
ESD (direct contact)	8		kV
Working voltage		60	V _{dc}
Ambient temperature	-20	40	°C
Storage temperature	-40	80	°C

At illumination levels exceeding 1372 lux risk group classification may be RG2.

Application information

Certificates and Standards

CB
CE
ENEC
IEC 62031
UKCA
UL
UL 8750

Environmental

RoHS/REACH

Application

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



© 2025 Signify Holding, IBRS 10461, 5600VB, NL. All rights reserved. The information provided herein is subject to change, without notice. Signify does not give any representation or warranty as to the accuracy or completeness of the information included herein and shall not be liable for any action in reliance thereon. The information presented in this document is not intended as any commercial offer and does not form part of any quotation or contract, unless otherwise agreed by Signify.

www.philips.com/oem

Philips and the Philips Shield Emblem are registered trademarks of Koninklijke Philips N.V. All other trademarks are owned by Signify Holding or their respective owners.
UK importer address: Signify Commercial UK Limited, 3 Guildford Business Park, GU2 8XG

05/03/2025