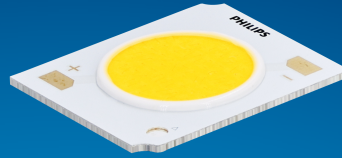


**PHILIPS**

**Fortimo**

**LED**

Fortimo SLM C 9xx 1206  
L13 2024 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](http://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 1206 L13 2024 G8	8721103 076335 00	9290 039 46501	2270335	20
Fortimo SLM C 930 1206 L13 2024 G8	8721103 076366 00	9290 039 46601	2270296	20
Fortimo SLM C 935 1206 L13 2024 G8	8721103 076397 00	9290 039 46701	2270256	20
Fortimo SLM C 940 1206 L13 2024 G8	8721103 076427 00	9290 039 46801	2270232	20
Fortimo SLM C 930 PW 1206 L13 2024 G8	8721103 076458 00	9290 039 46901	2270333	20
Fortimo SLM C 935 PW 1206 L13 2024 G8	8721103 076489 00	9290 039 47001	2270235	20
Fortimo SLM C 940 PW 1206 L13 2024 G8	8721103 076519 00	9290 039 47101	2270338	20
Fortimo SLM C 930 PC 1206 L13 2024 G8	8721103 076540 00	9290 039 47201	2270337	20

## Drive currents

Parameter	Nominal*	Life**	Max***	Unit
Fortimo SLM C 9xx 1206 L13 2024 G8	600	see performance window	1380	mA

## Module temperatures

Parameter	Nominal*	Life**	Max***	Unit
T <sub>c</sub> (case temperature at T <sub>c</sub> 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

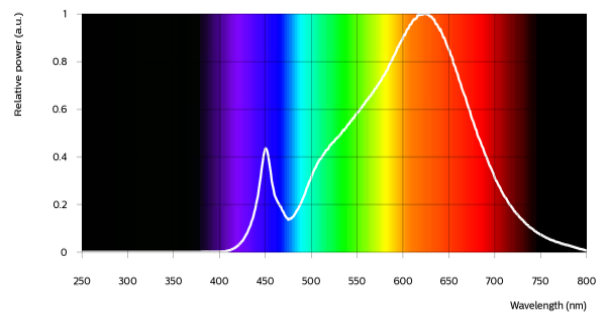
## Optical characteristics - table per color (CCT)

### Fortimo SLM C 927 1206 L13 2024 G8


Parameter	Min	Typ	Max	Unit
Luminous flux	2494	2625	2888	lm
Efficacy		126		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  $\pm 0.005$ . Measurement precision for CRI  $\pm 1.5$ .

Operation point	927	lm	lm/W
80% I-nom 480mA	Tc 25 °C	2237	136
	Tc-nom 65 °C	2137	131
	Tc-max 95 °C	2039	127
I-nom 600mA	Tc 25 °C	2749	131
	Tc-nom 65 °C	2625	126
	Tc-max 95 °C	2504	122
I-max 1380mA	Tc 25 °C	5766	107
	Tc-nom 65 °C	5481	102
	Tc-max 95 °C	5203	98

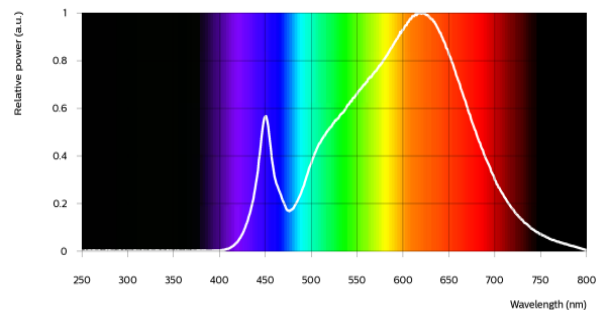


### Fortimo SLM C 930 1206 L13 2024 G8


Parameter	Min	Typ	Max	Unit
Luminous flux	2650	2790	3069	lm
Efficacy		134		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  $\pm 0.005$ . Measurement precision for CRI  $\pm 1.5$ .

Operation point	930	lm	lm/W
80% I-nom 480mA	Tc 25 °C	2377	144
	Tc-nom 65 °C	2271	139
	Tc-max 95 °C	2167	135
I-nom 600mA	Tc 25 °C	2922	139
	Tc-nom 65 °C	2790	134
	Tc-max 95 °C	2661	129
I-max 1380mA	Tc 25 °C	6130	113
	Tc-nom 65 °C	5828	109
	Tc-max 95 °C	5533	104

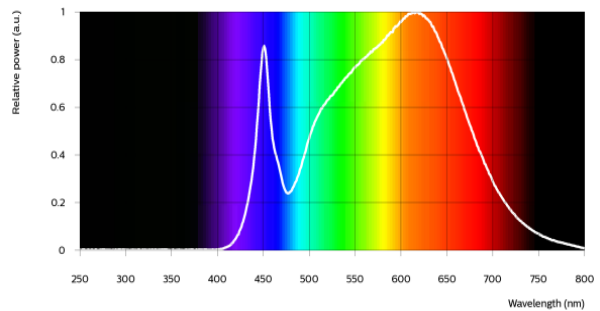


Fortimo SLM C 935 1206 L13 2024 G8


Parameter	Min	Typ	Max	Unit
Luminous flux	2731	2875	3162	lm
Efficacy		138		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 480mA	Tc 25 °C	2449	148
	Tc-nom 65 °C	2340	144
	Tc-max 95 °C	2233	139
I-nom 600mA	Tc 25 °C	3011	143
	Tc-nom 65 °C	2875	138
	Tc-max 95 °C	2742	133
I-max 1380mA	Tc 25 °C	6317	117
	Tc-nom 65 °C	6006	112
	Tc-max 95 °C	5702	107

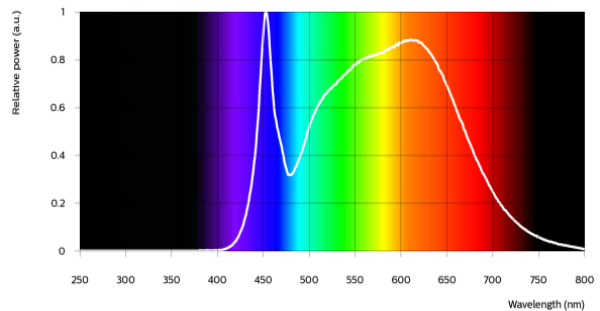


Fortimo SLM C 940 1206 L13 2024 G8


Parameter	Min	Typ	Max	Unit
Luminous flux	2793	2940	3234	lm
Efficacy		141		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 480mA	Tc 25 °C	2505	152
	Tc-nom 65 °C	2393	147
	Tc-max 95 °C	2284	142
I-nom 600mA	Tc 25 °C	3079	146
	Tc-nom 65 °C	2940	141
	Tc-max 95 °C	2804	136
I-max 1380mA	Tc 25 °C	6460	119
	Tc-nom 65 °C	6142	115
	Tc-max 95 °C	5832	110

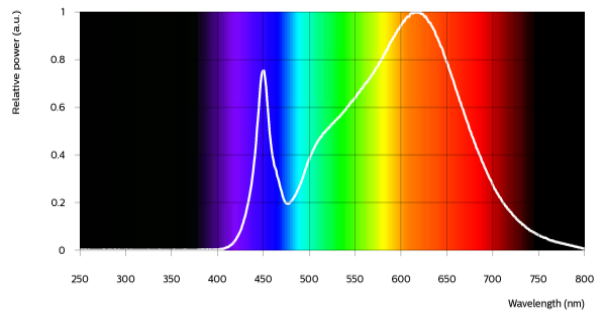


Fortimo SLM C 930 PW 1206 L13 2024 G8


Parameter	Min	Typ	Max	Unit
Luminous flux	2650	2790	3069	lm
Efficacy		134		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 480mA	Tc 25 °C	2377	144
	Tc-nom 65 °C	2271	139
	Tc-max 95 °C	2167	135
I-nom 600mA	Tc 25 °C	2922	139
	Tc-nom 65 °C	2790	134
	Tc-max 95 °C	2661	129
I-max 1380mA	Tc 25 °C	6130	113
	Tc-nom 65 °C	5828	109
	Tc-max 95 °C	5533	104

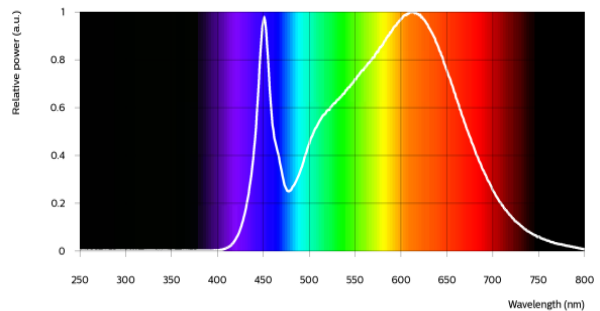


Fortimo SLM C 935 PW 1206 L13 2024 G8


Parameter	Min	Typ	Max	Unit
Luminous flux	2731	2875	3162	lm
Efficacy		138		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 480mA	Tc 25 °C	2449	148
	Tc-nom 65 °C	2340	144
	Tc-max 95 °C	2233	139
I-nom 600mA	Tc 25 °C	3011	143
	Tc-nom 65 °C	2875	138
	Tc-max 95 °C	2742	133
I-max 1380mA	Tc 25 °C	6317	117
	Tc-nom 65 °C	6006	112
	Tc-max 95 °C	5702	107

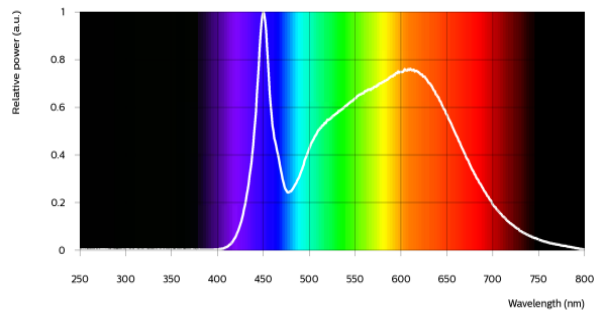


Fortimo SLM C 940 PW 1206 L13 2024 G8


Parameter	Min	Typ	Max	Unit
Luminous flux	2793	2940	3234	lm
Efficacy		141		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 480mA	Tc 25 °C	2505	152
	Tc-nom 65 °C	2393	147
	Tc-max 95 °C	2284	142
I-nom 600mA	Tc 25 °C	3079	146
	Tc-nom 65 °C	2940	141
	Tc-max 95 °C	2804	136
I-max 1380mA	Tc 25 °C	6460	119
	Tc-nom 65 °C	6142	115
	Tc-max 95 °C	5832	110

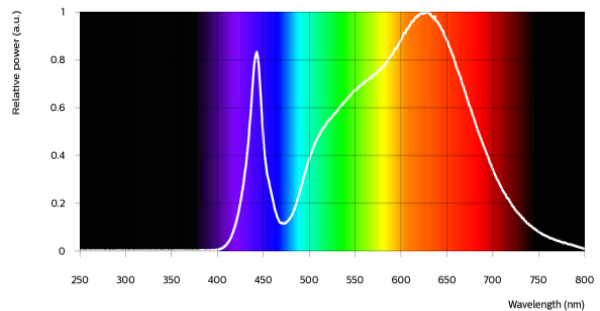


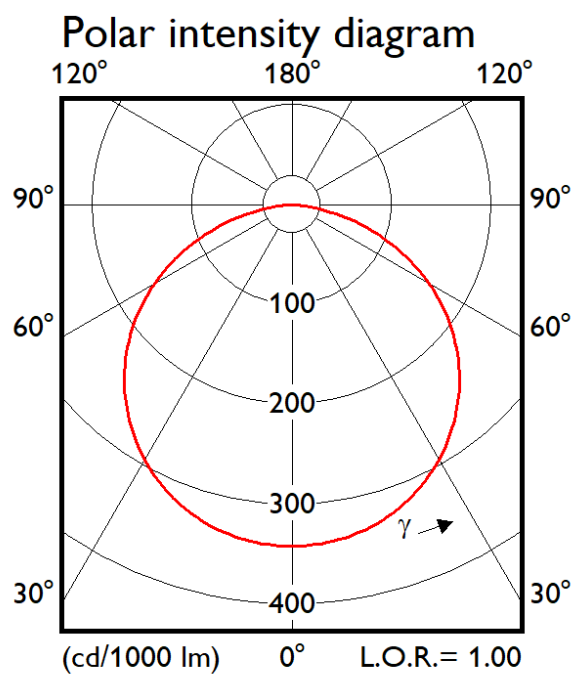
Fortimo SLM C 930 PC 1206 L13 2024 G8

Parameter	Min	Typ	Max	Unit
Luminous flux	2498	2630	2893	lm
Efficacy		126		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 480mA	Tc 25 °C	2241	136
	Tc-nom 65 °C	2140	131
	Tc-max 95 °C	2043	127
I-nom 600mA	Tc 25 °C	2754	131
	Tc-nom 65 °C	2630	126
	Tc-max 95 °C	2509	122
I-max 1380mA	Tc 25 °C	5779	107
	Tc-nom 65 °C	5495	103
	Tc-max 95 °C	5218	98





## Electrical characteristics

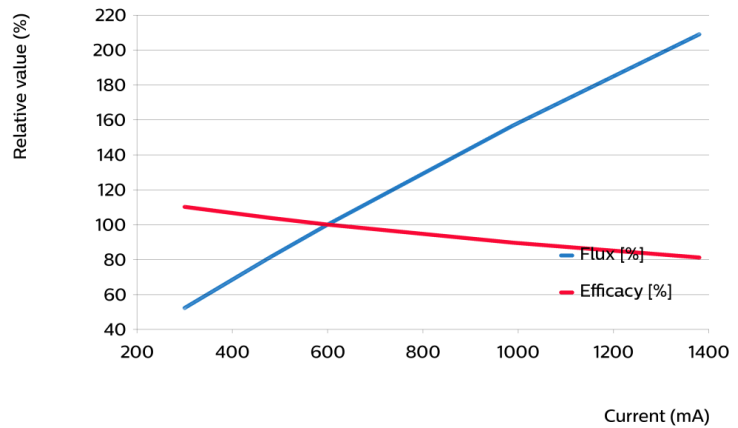
Parameter	Min	Typ	Max	Unit
Forward voltage	32.5	34.7	37.0	V
Power consumption	19.5	20.8	22.2	W = kWh/1000h
Number of modules in series per chain			1	
Number of modules per chain			1	
Number of modules in parallel			1	

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

## Tuning information

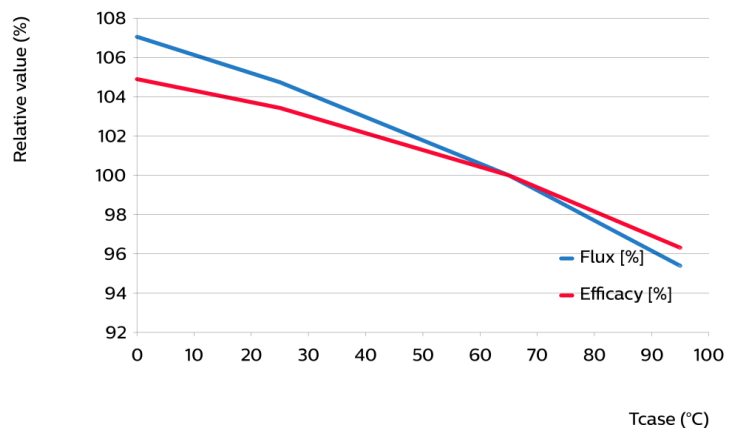
Flux and efficacy versus current (at Tc nominal)

I [mA]	Flux [%]	Efficacy [%]
1380	209	81
990	157	90
600	100	100
480	81	104
300	52	110



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



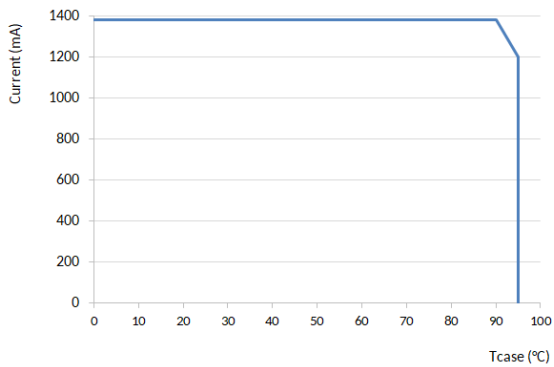
## Lumen maintenance

Operation point	Lumen maintenance x 1000 hours	L70			L80			L90		
		B50	B20	B10	B50	B20	B10	B50	B20	B10
80% I-nom 480mA	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 600mA	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	56	51
I-max 1380mA	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	23.8	24	24.2	mm
Width	19.8	20	20.2	mm
Height PCB	0.9	1	1.1	mm
Height including dam	1.2	1.5	1.8	mm
Product mass		1.28		gram





© 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](http://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