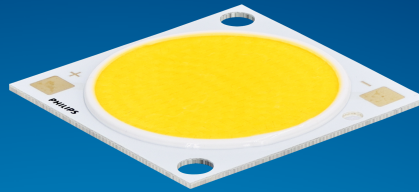


**PHILIPS**

**Fortimo**

**LED**

Fortimo SLM C 9xx 1216  
L23 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](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 1216 L23 2828 G8	8721103 078223 00	9290 039 52801	2270345	10
Fortimo SLM C 930 1216 L23 2828 G8	8721103 078254 00	9290 039 52901	2270347	10
Fortimo SLM C 935 1216 L23 2828 G8	8721103 078285 00	9290 039 53001	2270336	10
Fortimo SLM C 940 1216 L23 2828 G8	8721103 078315 00	9290 039 53101	2270252	10
Fortimo SLM C 930 PW 1216 L23 2828 G8	8721103 078346 00	9290 039 53201	2270271	10
Fortimo SLM C 935 PW 1216 L23 2828 G8	8721103 078377 00	9290 039 53301	2270277	10
Fortimo SLM C 940 PW 1216 L23 2828 G8	8721103 078407 00	9290 039 53401	2270349	10
Fortimo SLM C 930 PC 1216 L23 2828 G8	8721103 078438 00	9290 039 53501	2270211	10

## Drive currents

Parameter	Nominal*	Life**	Max***	Unit
Fortimo SLM C 9xx 1216 L23 2828 G8	1600	see performance window	3680	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

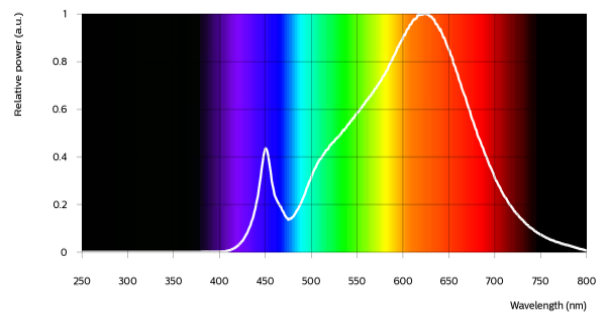
## Optical characteristics - table per color (CCT)

### Fortimo SLM C 927 1216 L23 2828 G8


Parameter	Min	Typ	Max	Unit
Luminous flux	6916	7280	8008	lm
Efficacy		129		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 1280mA	Tc 25 °C	6216	139
	Tc-nom 65 °C	5920	134
	Tc-max 95 °C	5636	129
I-nom 1600mA	Tc 25 °C	7648	134
	Tc-nom 65 °C	7280	129
	Tc-max 95 °C	6925	124
I-max 3680mA	Tc 25 °C	16138	108
	Tc-nom 65 °C	15276	103
	Tc-max 95 °C	14443	98

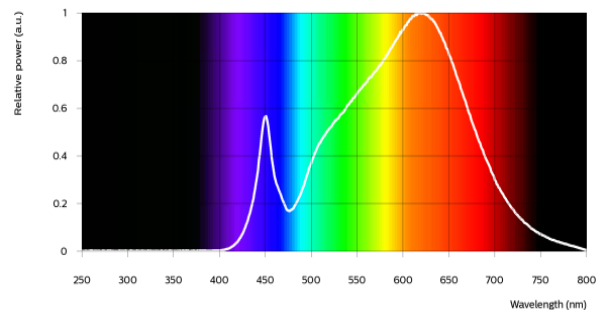


### Fortimo SLM C 930 1216 L23 2828 G8


Parameter	Min	Typ	Max	Unit
Luminous flux	7348	7735	8508	lm
Efficacy		137		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 1280mA	Tc 25 °C	6603	148
	Tc-nom 65 °C	6290	142
	Tc-max 95 °C	5988	137
I-nom 1600mA	Tc 25 °C	8125	142
	Tc-nom 65 °C	7735	137
	Tc-max 95 °C	7359	131
I-max 3680mA	Tc 25 °C	17150	114
	Tc-nom 65 °C	16238	109
	Tc-max 95 °C	15354	104

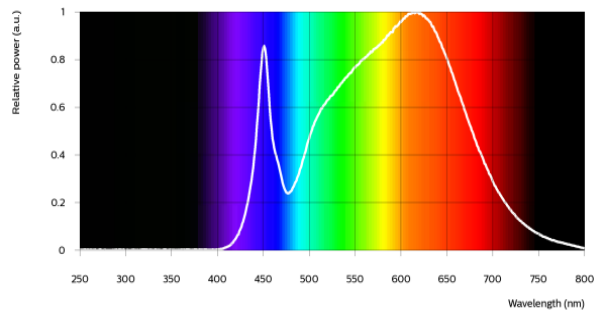


Fortimo SLM C 935 1216 L23 2828 G8


Parameter	Min	Typ	Max	Unit
Luminous flux	7567	7965	8762	lm
Efficacy		141		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 1280mA	Tc 25 °C	6799	152
	Tc-nom 65 °C	6477	147
	Tc-max 95 °C	6166	141
I-nom 1600mA	Tc 25 °C	8367	146
	Tc-nom 65 °C	7965	141
	Tc-max 95 °C	7578	135
I-max 3680mA	Tc 25 °C	17662	118
	Tc-nom 65 °C	16723	113
	Tc-max 95 °C	15814	107

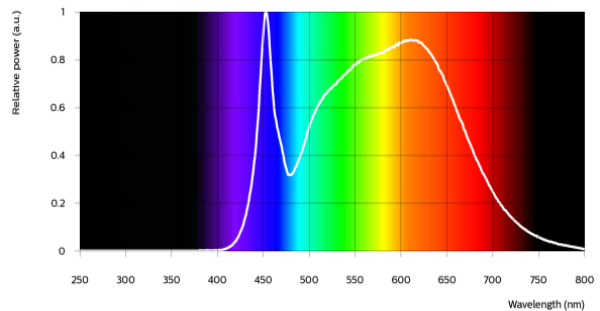


Fortimo SLM C 940 1216 L23 2828 G8


Parameter	Min	Typ	Max	Unit
Luminous flux	7742	8150	8965	lm
Efficacy		144		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 1280mA	Tc 25 °C	6957	156
	Tc-nom 65 °C	6627	150
	Tc-max 95 °C	6309	144
I-nom 1600mA	Tc 25 °C	8561	150
	Tc-nom 65 °C	8150	144
	Tc-max 95 °C	7754	138
I-max 3680mA	Tc 25 °C	18073	121
	Tc-nom 65 °C	17114	115
	Tc-max 95 °C	16185	110

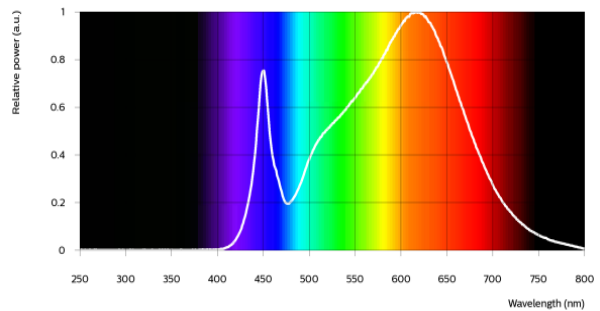


Fortimo SLM C 930 PW 1216 L23 2828 G8


Parameter	Min	Typ	Max	Unit
Luminous flux	7353	7740	8514	lm
Efficacy		137		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 1280mA	Tc 25 °C	6607	148
	Tc-nom 65 °C	6294	142
	Tc-max 95 °C	5992	137
I-nom 1600mA	Tc 25 °C	8130	142
	Tc-nom 65 °C	7740	137
	Tc-max 95 °C	7364	131
I-max 3680mA	Tc 25 °C	17163	114
	Tc-nom 65 °C	16251	110
	Tc-max 95 °C	15368	104

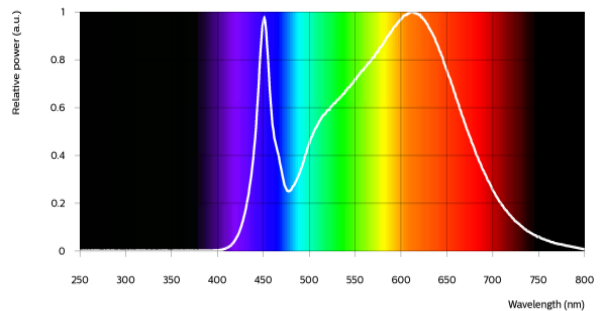


Fortimo SLM C 935 PW 1216 L23 2828 G8


Parameter	Min	Typ	Max	Unit
Luminous flux	7567	7965	8762	lm
Efficacy		141		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 1280mA	Tc 25 °C	6799	152
	Tc-nom 65 °C	6477	147
	Tc-max 95 °C	6166	141
I-nom 1600mA	Tc 25 °C	8367	146
	Tc-nom 65 °C	7965	141
	Tc-max 95 °C	7578	135
I-max 3680mA	Tc 25 °C	17662	118
	Tc-nom 65 °C	16723	113
	Tc-max 95 °C	15814	107

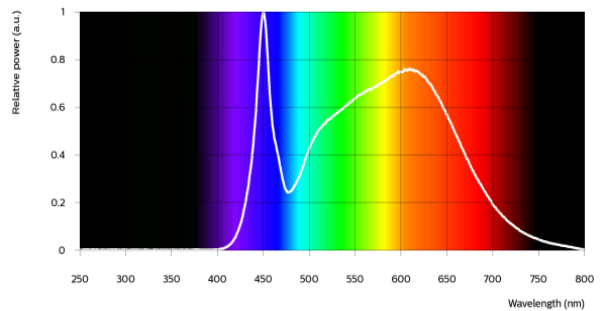


Fortimo SLM C 940 PW 1216 L23 2828 G8


Parameter	Min	Typ	Max	Unit
Luminous flux	7742	8150	8965	lm
Efficacy		144		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 1280mA	Tc 25 °C	6957	156
	Tc-nom 65 °C	6627	150
	Tc-max 95 °C	6309	144
I-nom 1600mA	Tc 25 °C	8561	150
	Tc-nom 65 °C	8150	144
	Tc-max 95 °C	7754	138
I-max 3680mA	Tc 25 °C	18073	121
	Tc-nom 65 °C	17114	115
	Tc-max 95 °C	16185	110

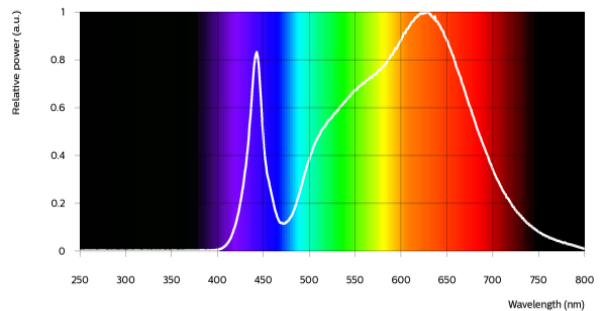


Fortimo SLM C 930 PC 1216 L23 2828 G8

Parameter	Min	Typ	Max	Unit
Luminous flux	6921	7285	8014	lm
Efficacy		129		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 1280mA	Tc 25 °C	6218	139
	Tc-nom 65 °C	5924	134
	Tc-max 95 °C	5640	129
I-nom 1600mA	Tc 25 °C	7652	134
	Tc-nom 65 °C	7285	129
	Tc-max 95 °C	6931	124
I-max 3680mA	Tc 25 °C	16156	108
	Tc-nom 65 °C	15299	103
	Tc-max 95 °C	14469	98





## Electrical characteristics

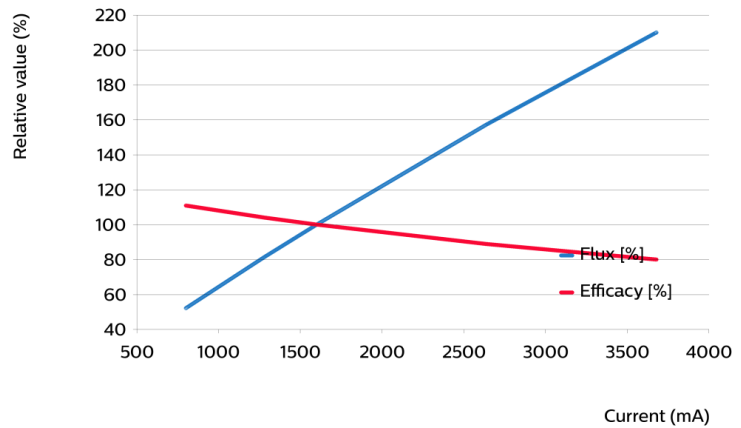
Parameter	Min	Typ	Max	Unit
Forward voltage	32.5	35.4	37.0	V
Power consumption	52.0	56.6	59.2	W = kWh/1000h
Number of modules in series per chain			1	
Number of modules per chain			1	
Number of modules in parallel			1	

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

## Tuning information

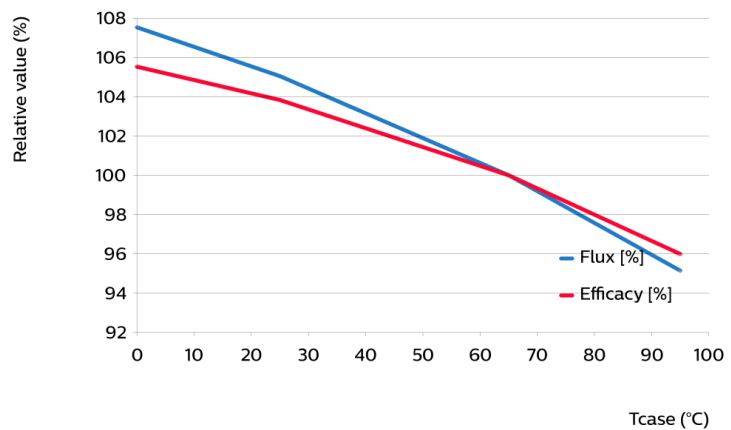
Flux and efficacy versus current (at Tc nominal)

I [mA]	Flux [%]	Efficacy [%]
3680	210	80
2640	157	89
1600	100	100
1280	81	104
800	52	111



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

Tc [°C]	Flux [%]	Efficacy [%]
95	95	96
65	100	100
25	105	104
0	108	106



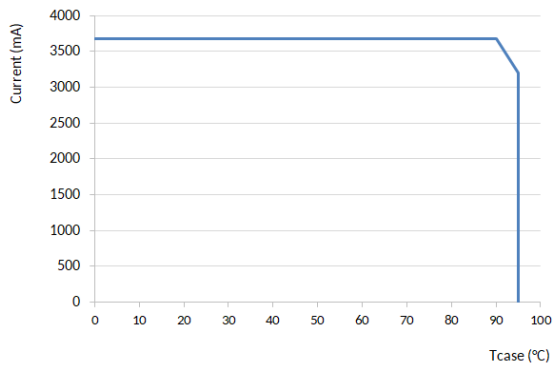
## Lumen maintenance

Operation point	Lumen maintenance x 1000 hours	L70			L80			L90		
		B50	B20	B10	B50	B20	B10	B50	B20	B10
80% I-nom 1280mA	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 1600mA	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 3680mA	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		2.2		gram





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05/03/2025