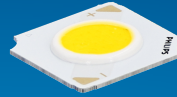


**PHILIPS**

**Fortimo**

**LED**

Fortimo SLM C 9xx 1201  
L06 1313 G8N



Datasheet

# Best offer of performance and value

## Fortimo LED SLM CRI90 G8N 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 1201 L06 1313 G8N	8721103 078742 00	9290 039 54401	2270410	20
Fortimo SLM C 930 1201 L06 1313 G8N	8721103 078773 00	9290 039 54501	2270414	20
Fortimo SLM C 935 1201 L06 1313 G8N	8721103 078803 00	9290 039 54601	2270394	20
Fortimo SLM C 940 1201 L06 1313 G8N	8721103 078834 00	9290 039 54701	2270418	20
Fortimo SLM C 930 PW 1201 L06 1313 G8N	8721103 078865 00	9290 039 54801	2270407	20
Fortimo SLM C 935 PW 1201 L06 1313 G8N	8721103 078896 00	9290 039 54901	2270395	20
Fortimo SLM C 940 PW 1201 L06 1313 G8N	8721103 078926 00	9290 039 55001	2270402	20

## Drive currents

Parameter	Nominal*	Life**	Max***	Unit
Fortimo SLM C 9xx 1201 L06 1313 G8N	90	see performance window	230	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)

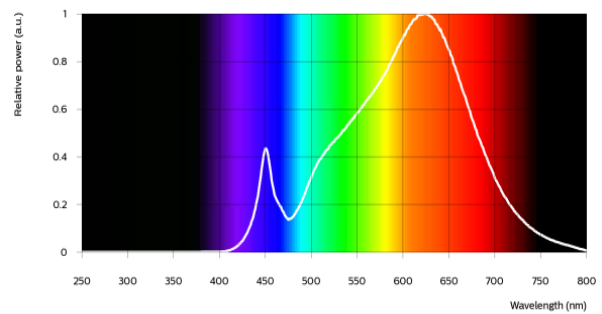
### Fortimo SLM C 927 1201 L06 1313 G8N

Parameter	Min	Typ	Max	Unit
Luminous flux	375	395	434	lm
Efficacy		127		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	0	lm	lm/W
80% I-nom 72mA	Tc 25 °C	337	137
	Tc-nom 65 °C	321	132
	Tc-max 95 °C	305	126
I-nom 90mA	Tc 25 °C	415	132
	Tc-nom 65 °C	395	127
	Tc-max 95 °C	375	122
I-max 230mA	Tc 25 °C	963	107
	Tc-nom 65 °C	911	102
	Tc-max 95 °C	857	97



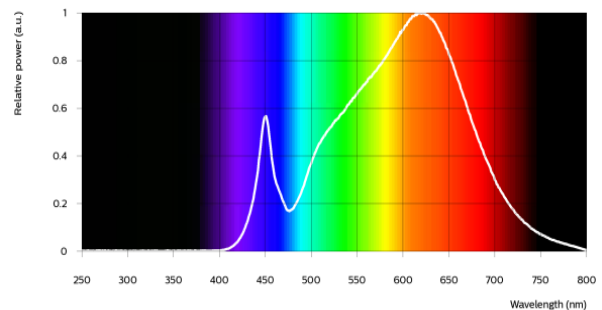
### Fortimo SLM C 930 1201 L06 1313 G8N

Parameter	Min	Typ	Max	Unit
Luminous flux	399	420	462	lm
Efficacy		135		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 72mA	Tc 25 °C	358	143
	Tc-nom 65 °C	341	142
	Tc-max 95 °C	324	135
I-nom 90mA	Tc 25 °C	441	142
	Tc-nom 65 °C	420	135
	Tc-max 95 °C	398	128
I-max 460mA	Tc 25 °C	1810	87
	Tc-nom 65 °C	1682	81
	Tc-max 95 °C	1551	75

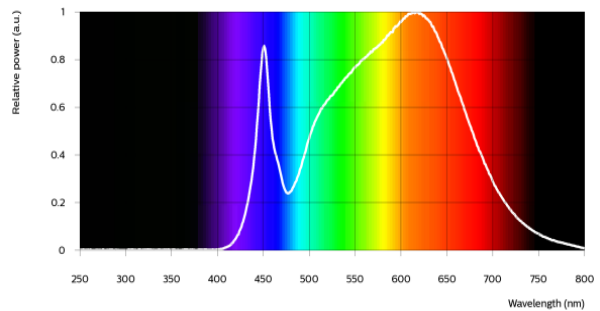


Fortimo SLM C 935 1201 L06 1313 G8N


Parameter	Min	Typ	Max	Unit
Luminous flux	408	430	473	lm
Efficacy		139		lm/W
Correlated color temperature (CCT)		3500		K
Color coordinates (CIEx, CIEy)		(0.408, 0.393)		-
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 72mA	Tc 25 °C	367	147
	Tc-nom 65 °C	349	146
	Tc-max 95 °C	331	138
I-nom 90mA	Tc 25 °C	452	146
	Tc-nom 65 °C	430	139
	Tc-max 95 °C	408	132
I-max 460mA	Tc 25 °C	1854	89
	Tc-nom 65 °C	1723	83
	Tc-max 95 °C	1588	77

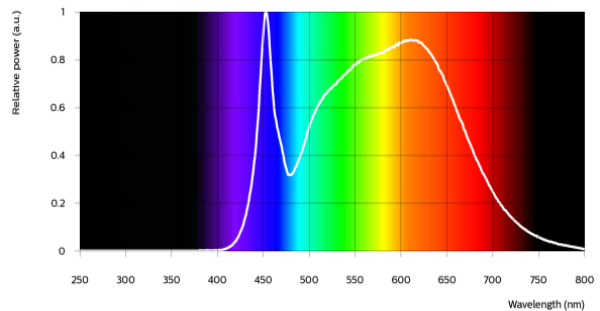


Fortimo SLM C 940 1201 L06 1313 G8N


Parameter	Min	Typ	Max	Unit
Luminous flux	418	440	484	lm
Efficacy		142		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 72mA	Tc 25 °C	375	150
	Tc-nom 65 °C	357	149
	Tc-max 95 °C	339	141
I-nom 90mA	Tc 25 °C	462	149
	Tc-nom 65 °C	440	142
	Tc-max 95 °C	417	135
I-max 460mA	Tc 25 °C	1897	91
	Tc-nom 65 °C	1764	85
	Tc-max 95 °C	1626	79

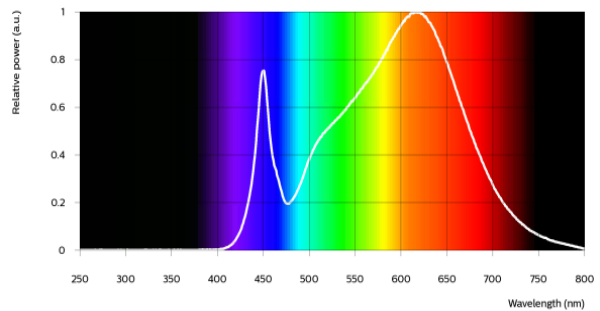


Fortimo SLM C 930 PW 1201 L06 1313 G8N


Parameter	Min	Typ	Max	Unit
Luminous flux	399	420	462	lm
Efficacy		135		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 72mA	Tc 25 °C	358	143
	Tc-nom 65 °C	341	142
	Tc-max 95 °C	324	135
I-nom 90mA	Tc 25 °C	441	142
	Tc-nom 65 °C	420	135
	Tc-max 95 °C	398	128
I-max 460mA	Tc 25 °C	1810	87
	Tc-nom 65 °C	1682	81
	Tc-max 95 °C	1551	75

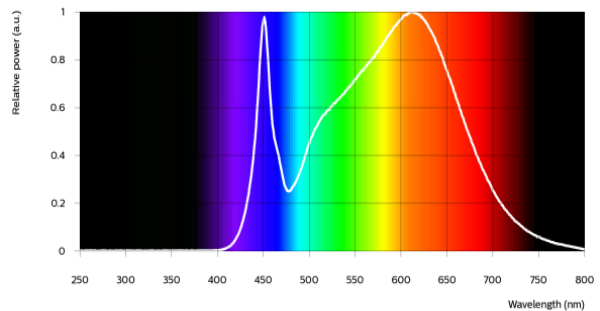



Fortimo SLM C 935 PW 1201 L06 1313 G8N

Parameter	Min	Typ	Max	Unit
Luminous flux	408	430	473	lm
Efficacy		139		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.

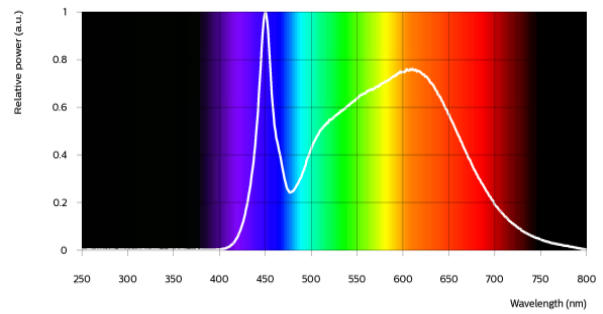
Operation point	935	lm	lm/W
80% I-nom 72mA	Tc 25 °C	367	147
	Tc-nom 65 °C	349	146
	Tc-max 95 °C	331	138
I-nom 90mA	Tc 25 °C	452	146
	Tc-nom 65 °C	430	139
	Tc-max 95 °C	408	132
I-max 460mA	Tc 25 °C	1854	89
	Tc-nom 65 °C	1723	83
	Tc-max 95 °C	1588	77



Parameter	Min	Typ	Max	Unit
Luminous flux	418	440	484	lm
Efficacy		142		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 72mA	Tc 25 °C	375	150
	Tc-nom 65 °C	357	149
	Tc-max 95 °C	339	141
I-nom 90mA	Tc 25 °C	462	149
	Tc-nom 65 °C	440	142
	Tc-max 95 °C	417	135
I-max 460mA	Tc 25 °C	1897	91
	Tc-nom 65 °C	1764	85
	Tc-max 95 °C	1626	79





## Electrical characteristics

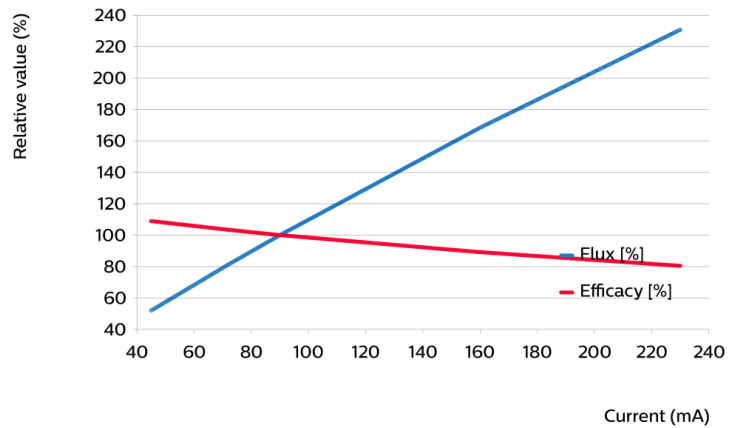
Parameter	Min	Typ	Max	Unit
Forward voltage	32.5	34.5	37.0	V
Power consumption	2.9	3.1	3.3	W = kWh/1000h
Number of modules in series per chain			1	
Number of modules per chain			1	
Number of modules in parallel			1	

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

## Tuning information

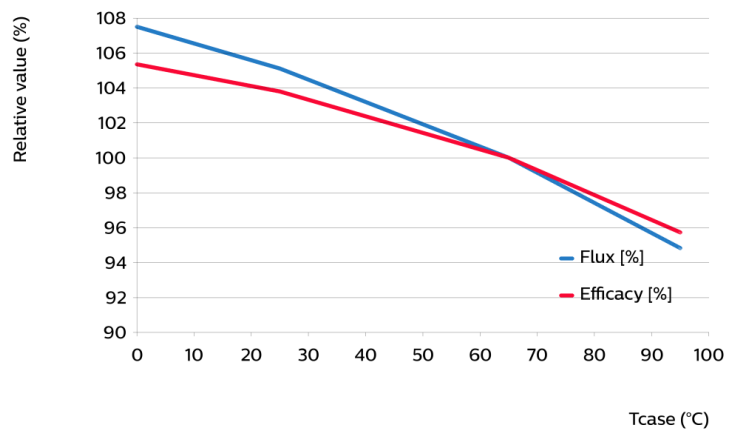
Flux and efficacy versus current (at Tc nominal)

I [mA]	Flux [%]	Efficacy [%]
230	231	80
160	168	89
90	100	100
72	81	103
45	52	109



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

Tc [°C]	Flux [%]	Efficacy [%]
95	95	96
65	100	100
25	105	104
0	107	105



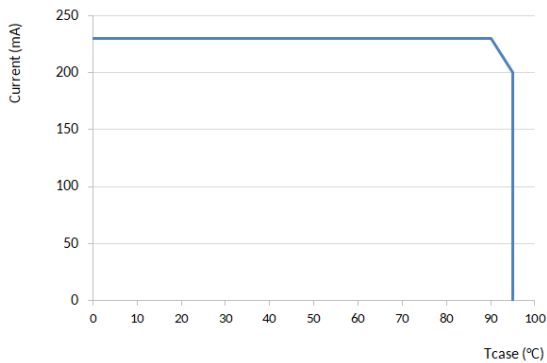
## Lumen maintenance

Operation point	Lumen maintenance x 1000 hours	L70			L80			L90		
		B50	B20	B10	B50	B20	B10	B50	B20	B10
80% I-nom 72mA	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 90mA	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	62
I-max 230mA	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

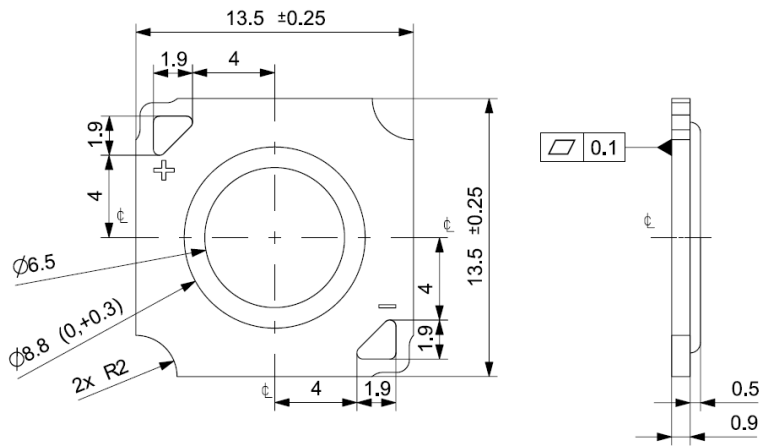
Parameter	Value	Unit
M70F50 nominal	>66000	hours

## Performance Window



## Mechanical characteristics

Parameter	Min	Typ	Max	Unit
Length	13.25	13.5	13.75	mm
Width	13.25	13.5	13.75	mm
Height PCB	0.8	0.9	1	mm
Height including dam	1.1	1.4	1.7	mm
Product mass		0.43		gram



## Absolute ratings

Parameter	Min	Max	Unit
Current through the LED module (I-max)		230	mA
Case temperature (Tc-max)		95	°C
ESD (direct contact)	8		kV
Working voltage		60	V <sub>dc</sub>
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/EN 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



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