

**PHILIPS**

**Fortimo**

**LED**

Fortimo SLM C 9xx 1202  
L06 1215 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 1202 L06 1215 G8	8721103 073815 00	9290 039 38101	2270187	20
Fortimo SLM C 930 1202 L06 1215 G8	8721103 073846 00	9290 039 38201	2270197	20
Fortimo SLM C 935 1202 L06 1215 G8	8721103 073877 00	9290 039 38301	2270226	20
Fortimo SLM C 940 1202 L06 1215 G8	8721103 073907 00	9290 039 38401	2270233	20
Fortimo SLM C 930 PW 1202 L06 1215 G8	8721103 073938 00	9290 039 38501	2270208	20
Fortimo SLM C 935 PW 1202 L06 1215 G8	8721103 073969 00	9290 039 38601	2270228	20
Fortimo SLM C 940 PW 1202 L06 1215 G8	8721103 073990 00	9290 039 38701	2270195	20
Fortimo SLM C 930 PC 1202 L06 1215 G8	8721103 074027 00	9290 039 38801	2270219	20

## Drive currents

Parameter	Nominal*	Life**	Max***	Unit
Fortimo SLM C 9xx 1202 L06 1215 G8	200	see performance window	460	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)

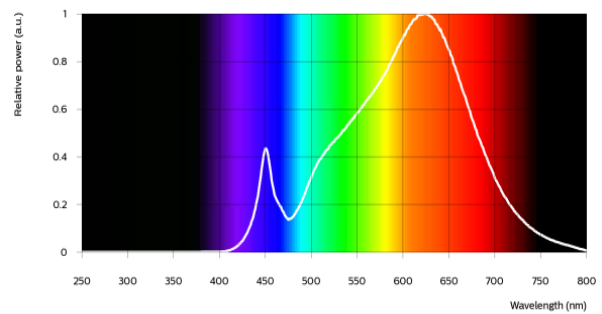
### Fortimo SLM C 927 1202 L06 1215 G8

Parameter	Min	Typ	Max	Unit
Luminous flux	822	865	952	lm
Efficacy		125		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 160mA	Tc 25 °C	735	134
	Tc-nom 65 °C	704	130
	Tc-max 95 °C	681	126
I-nom 200mA	Tc 25 °C	903	129
	Tc-nom 65 °C	865	125
	Tc-max 95 °C	837	121
I-max 460mA	Tc 25 °C	1893	106
	Tc-nom 65 °C	1812	102
	Tc-max 95 °C	1753	100



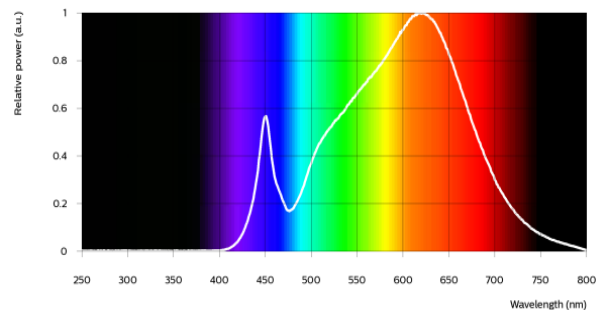
### Fortimo SLM C 930 1202 L06 1215 G8

Parameter	Min	Typ	Max	Unit
Luminous flux	874	920	1012	lm
Efficacy		133		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 160mA	Tc 25 °C	782	142
	Tc-nom 65 °C	748	139
	Tc-max 95 °C	724	134
I-nom 200mA	Tc 25 °C	961	137
	Tc-nom 65 °C	920	133
	Tc-max 95 °C	890	129
I-max 460mA	Tc 25 °C	2014	113
	Tc-nom 65 °C	1928	109
	Tc-max 95 °C	1865	107

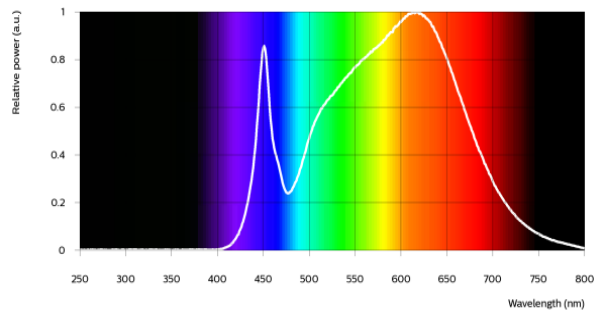


Fortimo SLM C 935 1202 L06 1215 G8


Parameter	Min	Typ	Max	Unit
Luminous flux	898	945	1040	lm
Efficacy		137		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 160mA	Tc 25 °C	803	146
	Tc-nom 65 °C	769	142
	Tc-max 95 °C	744	138
I-nom 200mA	Tc 25 °C	987	141
	Tc-nom 65 °C	945	137
	Tc-max 95 °C	914	133
I-max 460mA	Tc 25 °C	2069	116
	Tc-nom 65 °C	1980	112
	Tc-max 95 °C	1916	109

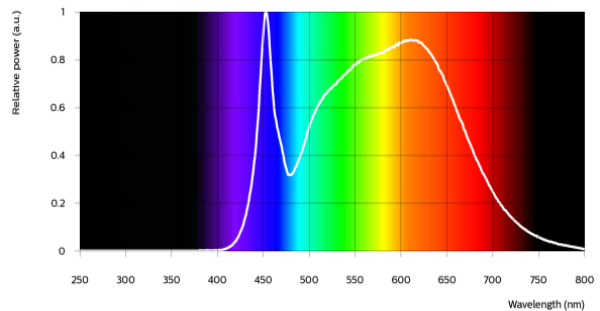


Fortimo SLM C 940 1202 L06 1215 G8


Parameter	Min	Typ	Max	Unit
Luminous flux	917	965	1062	lm
Efficacy		140		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 160mA	Tc 25 °C	820	149
	Tc-nom 65 °C	785	145
	Tc-max 95 °C	760	141
I-nom 200mA	Tc 25 °C	1008	144
	Tc-nom 65 °C	965	140
	Tc-max 95 °C	934	135
I-max 460mA	Tc 25 °C	2113	119
	Tc-nom 65 °C	2022	114
	Tc-max 95 °C	1956	112

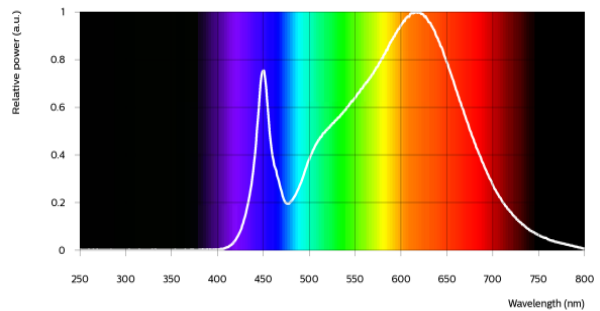


Fortimo SLM C 930 PW 1202 L06 1215 G8


Parameter	Min	Typ	Max	Unit
Luminous flux	874	920	1012	lm
Efficacy		133		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 160mA	Tc 25 °C	782	142
	Tc-nom 65 °C	748	139
	Tc-max 95 °C	724	134
I-nom 200mA	Tc 25 °C	961	137
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	Tc-nom 65 °C	1928	109
	Tc-max 95 °C	1865	107

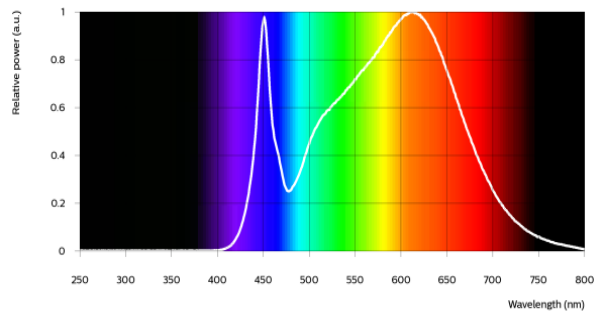


Fortimo SLM C 935 PW 1202 L06 1215 G8


Parameter	Min	Typ	Max	Unit
Luminous flux	898	945	1040	lm
Efficacy		137		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 160mA	Tc 25 °C	803	146
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I-max 460mA	Tc 25 °C	2069	116
	Tc-nom 65 °C	1980	112
	Tc-max 95 °C	1916	109

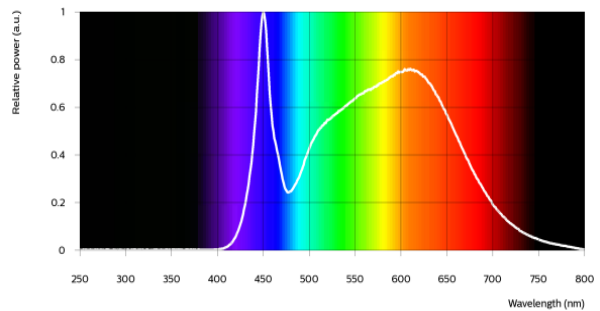


Fortimo SLM C 940 PW 1202 L06 1215 G8


Parameter	Min	Typ	Max	Unit
Luminous flux	917	965	1062	lm
Efficacy		140		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 160mA	Tc 25 °C	820	149
	Tc-nom 65 °C	785	145
	Tc-max 95 °C	760	141
I-nom 200mA	Tc 25 °C	1008	144
	Tc-nom 65 °C	965	140
	Tc-max 95 °C	934	135
I-max 460mA	Tc 25 °C	2113	119
	Tc-nom 65 °C	2022	114
	Tc-max 95 °C	1956	112

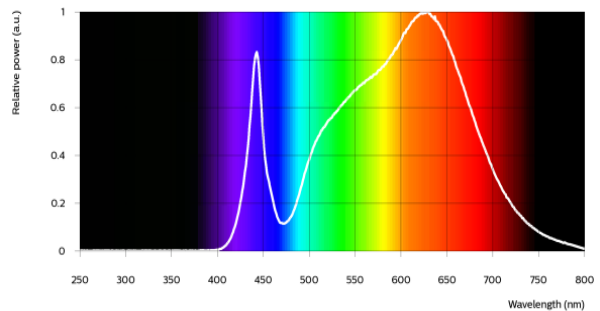


Fortimo SLM C 930 PC 1202 L06 1215 G8

Parameter	Min	Typ	Max	Unit
Luminous flux	822	865	952	lm
Efficacy		125		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 160mA	Tc 25 °C	735	134
	Tc-nom 65 °C	704	130
	Tc-max 95 °C	681	126
I-nom 200mA	Tc 25 °C	903	129
	Tc-nom 65 °C	865	125
	Tc-max 95 °C	837	121
I-max 460mA	Tc 25 °C	1893	106
	Tc-nom 65 °C	1812	102
	Tc-max 95 °C	1753	100





## Electrical characteristics

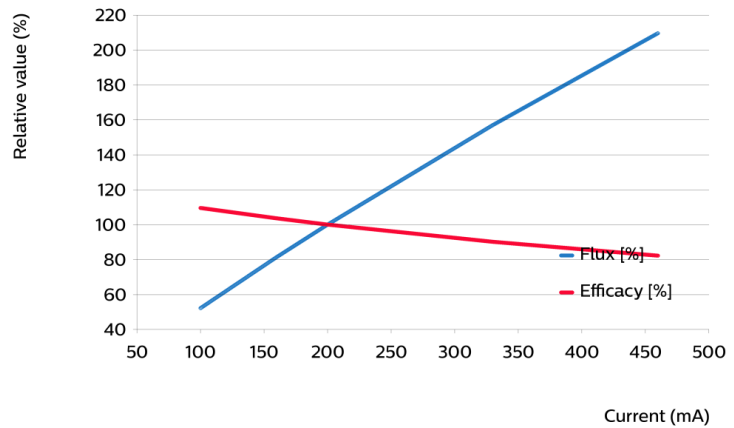
Parameter	Min	Typ	Max	Unit
Forward voltage	32.5	34.7	37.0	V
Power consumption	6.5	6.9	7.4	W = kWh/1000h
Number of modules in series per chain			1	
Number of modules per chain			1	
Number of modules in parallel			1	

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

## Tuning information

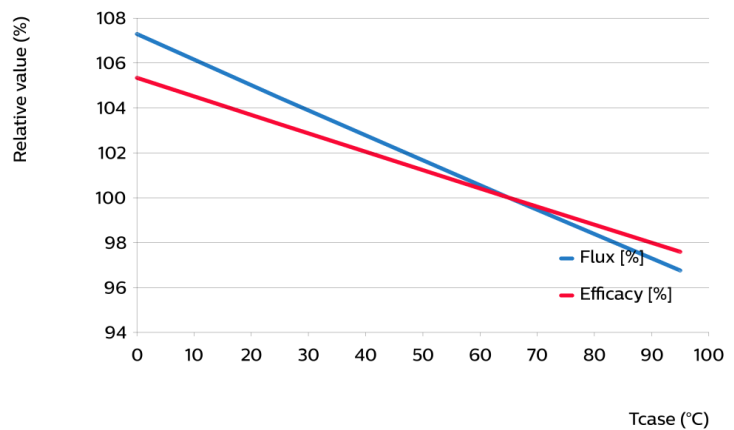
Flux and efficacy versus current (at Tc nominal)

I [mA]	Flux [%]	Efficacy [%]
460	210	82
330	157	90
200	100	100
160	81	104
100	52	109



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

Tc [°C]	Flux [%]	Efficacy [%]
95	97	98
65	100	100
25	104	103
0	107	105



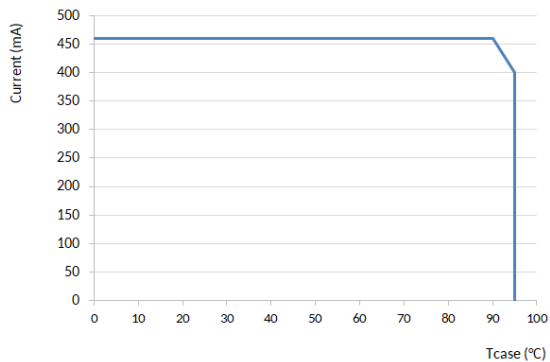
## Lumen maintenance

Operation point	Lumen maintenance x 1000 hours	L70			L80			L90		
		B50	B20	B10	B50	B20	B10	B50	B20	B10
80% I-nom 160mA	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 200mA	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 460mA	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

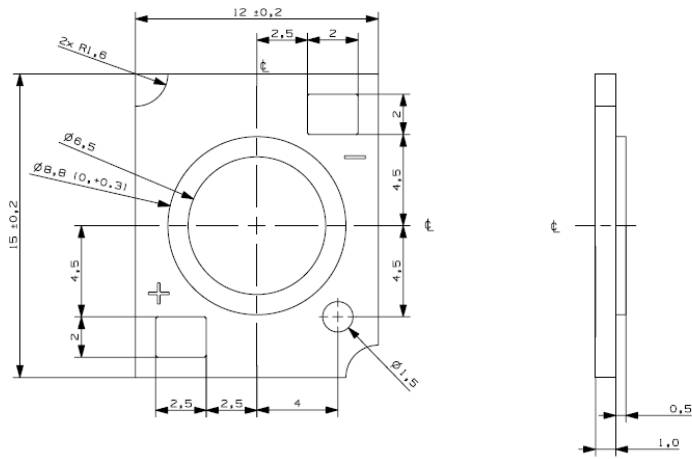
Parameter	Value	Unit
M70F50 nominal	>66000	hours

## Performance Window



## Mechanical characteristics

Parameter	Min	Typ	Max	Unit
Length	14.8	15	15.2	mm
Width	11.8	12	12.2	mm
Height PCB	0.9	1	1.1	mm
Height including dam	1.2	1.5	1.8	mm
Product mass		0.43		gram



## Absolute ratings

Parameter	Min	Max	Unit
Current through the LED module (I-max)		460	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 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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