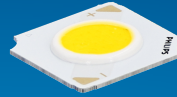


PHILIPS

Fortimo

LED

Fortimo SLM C 9xx 1202
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.

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 1313 G8N	8721103 079138 00	9290 039 55701	2270397	20
Fortimo SLM C 930 1202 L06 1313 G8N	8721103 079169 00	9290 039 55801	2270352	20
Fortimo SLM C 935 1202 L06 1313 G8N	8721103 079190 00	9290 039 55901	2270350	20
Fortimo SLM C 940 1202 L06 1313 G8N	8721103 079220 00	9290 039 56001	2270361	20
Fortimo SLM C 930 PW 1202 L06 1313 G8N	8721103 079251 00	9290 039 56101	2270411	20
Fortimo SLM C 935 PW 1202 L06 1313 G8N	8721103 079282 00	9290 039 56201	2270412	20
Fortimo SLM C 940 PW 1202 L06 1313 G8N	8721103 079312 00	9290 039 56301	2270409	20

Drive currents

Parameter	Nominal*	Life**	Max***	Unit
Fortimo SLM C 9xx 1202 L06 1313 G8N	180	see performance window	460	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

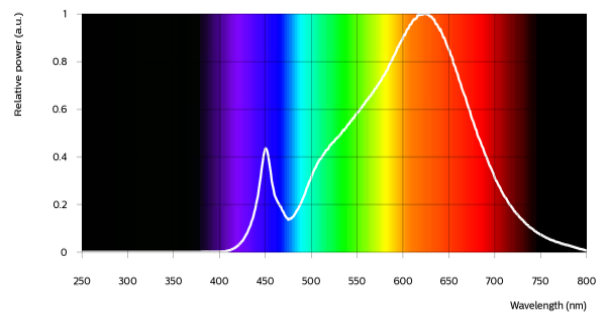
Optical characteristics - table per color (CCT)

Fortimo SLM C 927 1202 L06 1313 G8N


Parameter	Min	Typ	Max	Unit
Luminous flux	736	775	852	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 ± 0.005 . Measurement precision for CRI ± 1.5 .

Operation point	927	lm	lm/W
80% I-nom 144mA	Tc 25 °C	659	135
	Tc-nom 65 °C	629	128
	Tc-max 95 °C	602	125
I-nom 180mA	Tc 25 °C	812	129
	Tc-nom 65 °C	775	125
	Tc-max 95 °C	742	122
I-max 460mA	Tc 25 °C	1885	105
	Tc-nom 65 °C	1793	101
	Tc-max 95 °C	1710	97

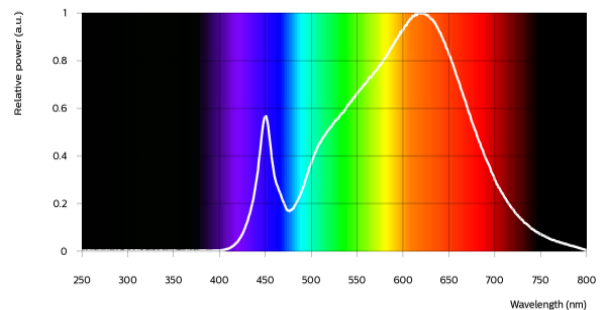


Fortimo SLM C 930 1202 L06 1313 G8N


Parameter	Min	Typ	Max	Unit
Luminous flux	784	825	908	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 ± 0.005 . Measurement precision for CRI ± 1.5 .

Operation point	930	lm	lm/W
80% I-nom 144mA	Tc 25 °C	702	143
	Tc-nom 65 °C	670	137
	Tc-max 95 °C	641	134
I-nom 180mA	Tc 25 °C	865	137
	Tc-nom 65 °C	825	133
	Tc-max 95 °C	789	129
I-max 460mA	Tc 25 °C	2007	112
	Tc-nom 65 °C	1909	108
	Tc-max 95 °C	1821	103

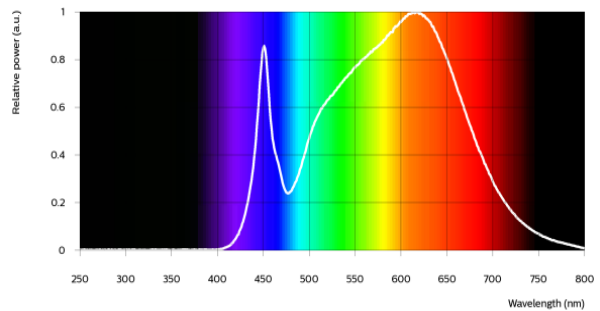


Fortimo SLM C 935 1202 L06 1313 G8N


Parameter	Min	Typ	Max	Unit
Luminous flux	808	850	935	lm
Efficacy		137		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 144mA	Tc 25 °C	723	148
	Tc-nom 65 °C	690	141
	Tc-max 95 °C	661	138
I-nom 180mA	Tc 25 °C	891	141
	Tc-nom 65 °C	850	137
	Tc-max 95 °C	813	133
I-max 460mA	Tc 25 °C	2068	116
	Tc-nom 65 °C	1967	111
	Tc-max 95 °C	1877	107

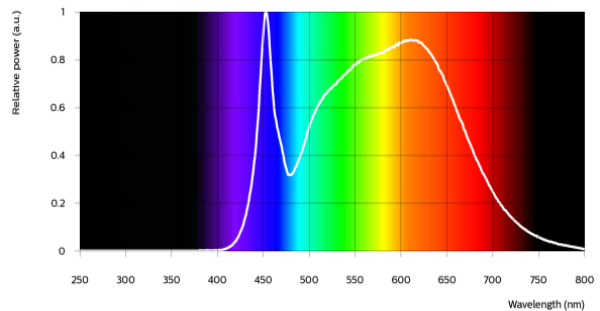


Fortimo SLM C 940 1202 L06 1313 G8N


Parameter	Min	Typ	Max	Unit
Luminous flux	826	870	957	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 144mA	Tc 25 °C	740	151
	Tc-nom 65 °C	706	144
	Tc-max 95 °C	676	141
I-nom 180mA	Tc 25 °C	912	145
	Tc-nom 65 °C	870	140
	Tc-max 95 °C	833	136
I-max 460mA	Tc 25 °C	2116	118
	Tc-nom 65 °C	2013	114
	Tc-max 95 °C	1921	109

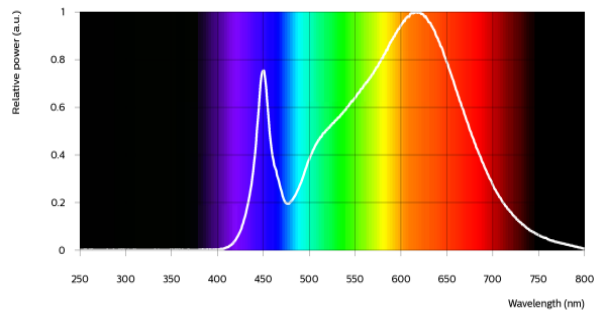


Fortimo SLM C 930 PW 1202 L06 1313 G8N


Parameter	Min	Typ	Max	Unit
Luminous flux	784	825	908	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 144mA	Tc 25 °C	702	143
	Tc-nom 65 °C	670	137
	Tc-max 95 °C	641	134
I-nom 180mA	Tc 25 °C	865	137
	Tc-nom 65 °C	825	133
	Tc-max 95 °C	789	129
I-max 460mA	Tc 25 °C	2007	112
	Tc-nom 65 °C	1909	108
	Tc-max 95 °C	1821	103

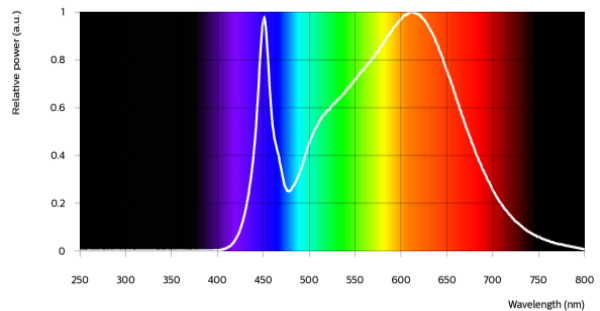



Fortimo SLM C 935 PW 1202 L06 1313 G8N

Parameter	Min	Typ	Max	Unit
Luminous flux	808	850	935	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.

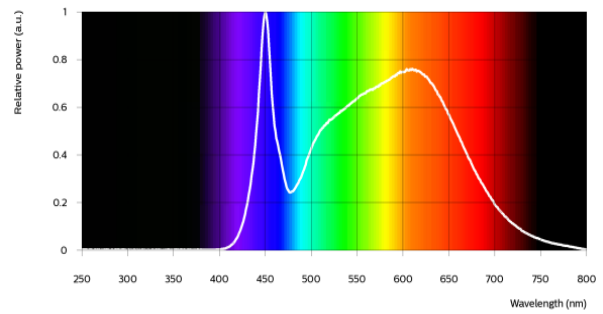
Operation point	935	lm	lm/W
80% I-nom 144mA	Tc 25 °C	723	148
	Tc-nom 65 °C	690	141
	Tc-max 95 °C	661	138
I-nom 180mA	Tc 25 °C	891	141
	Tc-nom 65 °C	850	137
	Tc-max 95 °C	813	133
I-max 460mA	Tc 25 °C	2068	116
	Tc-nom 65 °C	1967	111
	Tc-max 95 °C	1877	107

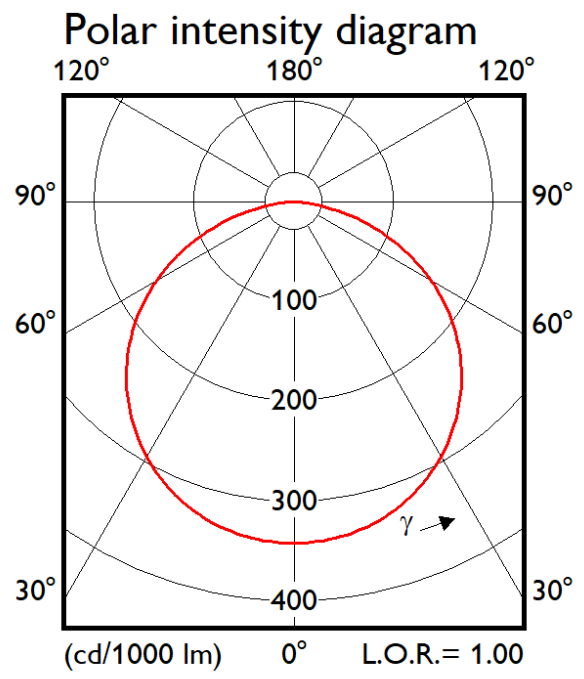


Parameter	Min	Typ	Max	Unit
Luminous flux	826	870	957	lm
Efficacy		140		lm/W
Correlated color temperature (CCT)		4000		K
Color coordinates (CIEx, CIEy)		(0.374, 0.364)		-
Color consistency			3	SDCM
CRI	90			
R9	50			
Photometric code		940/359		
Photobiological safety		RG1 unlimited		

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 144mA	Tc 25 °C	740	151
	Tc-nom 65 °C	706	144
	Tc-max 95 °C	676	141
I-nom 180mA	Tc 25 °C	912	145
	Tc-nom 65 °C	870	140
	Tc-max 95 °C	833	136
I-max 460mA	Tc 25 °C	2116	118
	Tc-nom 65 °C	2013	114
	Tc-max 95 °C	1921	109





Electrical characteristics

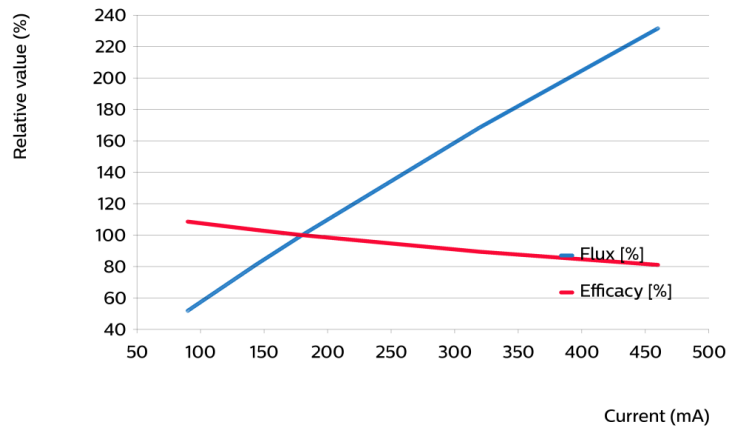
Parameter	Min	Typ	Max	Unit
Forward voltage	32.5	34.5	37.0	V
Power consumption	5.9	6.2	6.7	W = kWh/1000h
Number of modules in series per chain			1	
Number of modules per chain			1	
Number of modules in parallel			1	

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

Tuning information

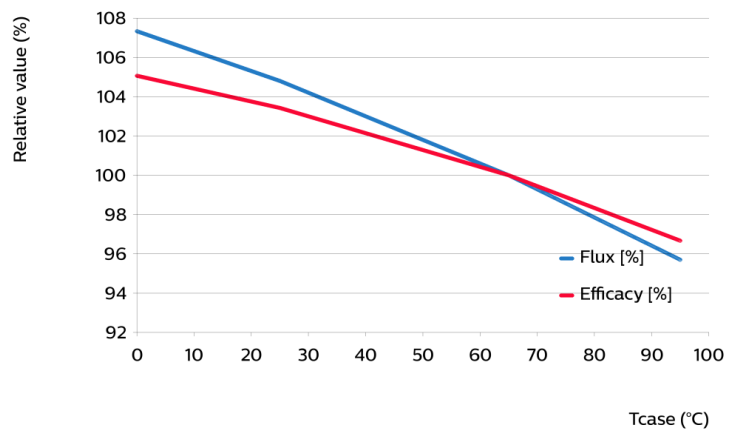
Flux and efficacy versus current (at Tc nominal)

I [mA]	Flux [%]	Efficacy [%]
460	231	81
320	169	89
180	100	100
144	81	103
90	52	108



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

Tc [°C]	Flux [%]	Efficacy [%]
95	96	97
65	100	100
25	105	103
0	107	105



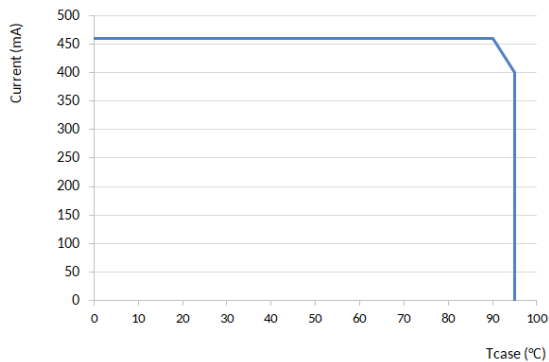
Lumen maintenance

Operation point	Lumen maintenance x 1000 hours	L70			L80			L90		
		B50	B20	B10	B50	B20	B10	B50	B20	B10
80% I-nom 144mA	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 180mA	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 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

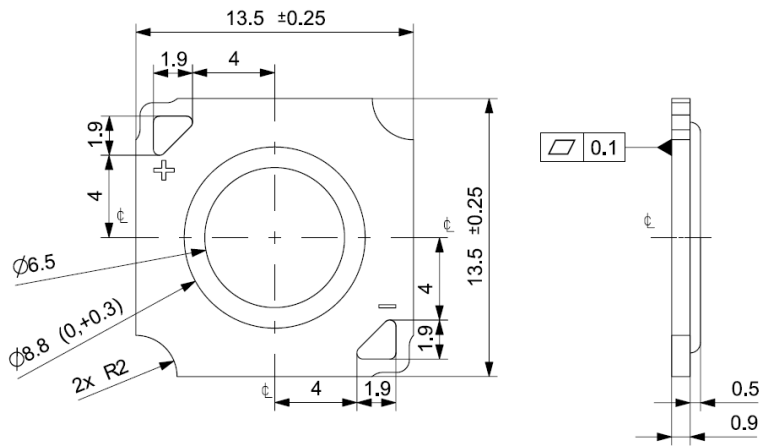
Parameter	Value	Unit
M70F50 nominal	>66000	hours

Performance Window



Mechanical characteristics

Parameter	Min	Typ	Max	Unit
Length	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)		460	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/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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10/03/2025