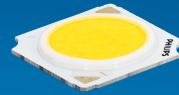


PHILIPS

Fortimo

LED

Fortimo SLM C 9xx 1204
L09 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 1204 L09 1313 G8N	8721103 080271 00	9290 039 59501	2270104	20
Fortimo SLM C 930 1204 L09 1313 G8N	8721103 080301 00	9290 039 59601	2270375	20
Fortimo SLM C 935 1204 L09 1313 G8N	8721103 080332 00	9290 039 59701	2270365	20
Fortimo SLM C 940 1204 L09 1313 G8N	8721103 080363 00	9290 039 59801	2270368	20
Fortimo SLM C 930 PW 1204 L09 1313 G8N	8721103 080394 00	9290 039 59901	2270367	20
Fortimo SLM C 935 PW 1204 L09 1313 G8N	8721103 080424 00	9290 039 60001	2270377	20
Fortimo SLM C 940 PW 1204 L09 1313 G8N	8721103 080455 00	9290 039 60101	2270111	20

Drive currents

Parameter	Nominal*	Life**	Max***	Unit
Fortimo SLM C 9xx 1204 L09 1313 G8N	360	see performance window	920	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

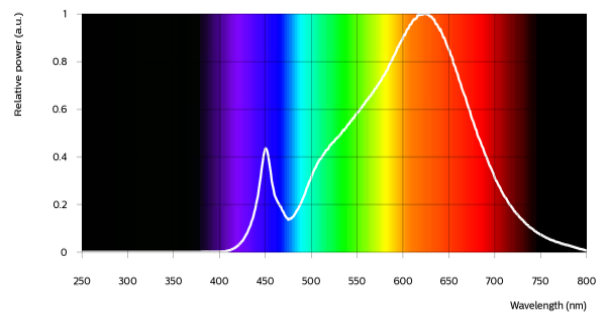
Optical characteristics - table per color (CCT)

Fortimo SLM C 927 1204 L09 1313 G8N


Parameter	Min	Typ	Max	Unit
Luminous flux	1492	1570	1727	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 ± 0.005 . Measurement precision for CRI ± 1.5 .

Operation point	927	lm	lm/W
80% I-nom 288mA	Tc 25 °C	1335	135
	Tc-nom 65 °C	1277	132
	Tc-max 95 °C	1218	127
I-nom 360mA	Tc 25 °C	1642	130
	Tc-nom 65 °C	1570	127
	Tc-max 95 °C	1496	122
I-max 920mA	Tc 25 °C	3781	105
	Tc-nom 65 °C	3591	101
	Tc-max 95 °C	3397	97

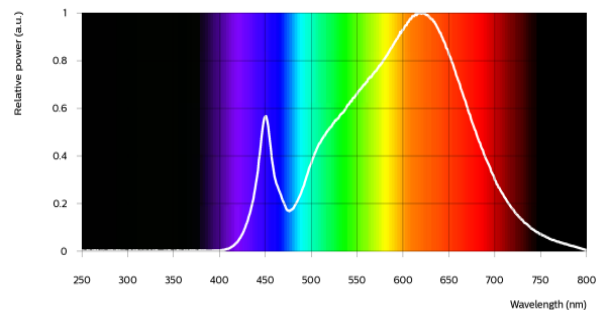


Fortimo SLM C 930 1204 L09 1313 G8N


Parameter	Min	Typ	Max	Unit
Luminous flux	1586	1670	1837	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 ± 0.005 . Measurement precision for CRI ± 1.5 .

Operation point	930	lm	lm/W
80% I-nom 288mA	Tc 25 °C	1420	143
	Tc-nom 65 °C	1359	140
	Tc-max 95 °C	1296	135
I-nom 360mA	Tc 25 °C	1747	139
	Tc-nom 65 °C	1670	135
	Tc-max 95 °C	1592	129
I-max 920mA	Tc 25 °C	4023	112
	Tc-nom 65 °C	3822	108
	Tc-max 95 °C	3616	103

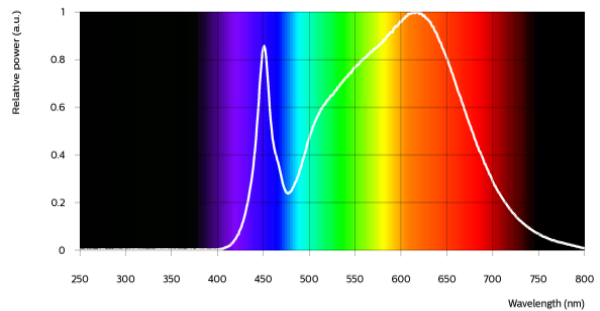


Fortimo SLM C 935 1204 L09 1313 G8N


Parameter	Min	Typ	Max	Unit
Luminous flux	1634	1720	1892	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 288mA	Tc 25 °C	1463	148
	Tc-nom 65 °C	1399	144
	Tc-max 95 °C	1334	139
I-nom 360mA	Tc 25 °C	1799	143
	Tc-nom 65 °C	1720	139
	Tc-max 95 °C	1639	133
I-max 920mA	Tc 25 °C	4144	115
	Tc-nom 65 °C	3937	111
	Tc-max 95 °C	3725	106

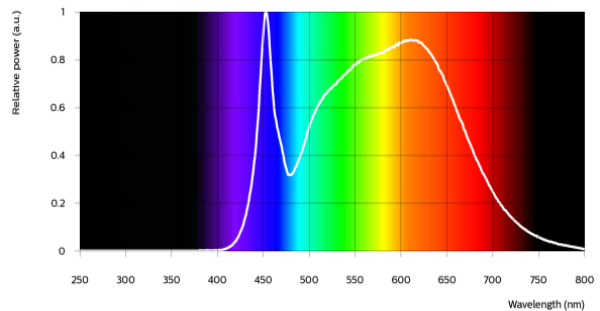


Fortimo SLM C 940 1204 L09 1313 G8N


Parameter	Min	Typ	Max	Unit
Luminous flux	1667	1755	1930	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 288mA	Tc 25 °C	1492	151
	Tc-nom 65 °C	1428	147
	Tc-max 95 °C	1362	142
I-nom 360mA	Tc 25 °C	1836	146
	Tc-nom 65 °C	1755	142
	Tc-max 95 °C	1673	136
I-max 920mA	Tc 25 °C	4228	117
	Tc-nom 65 °C	4017	113
	Tc-max 95 °C	3801	108

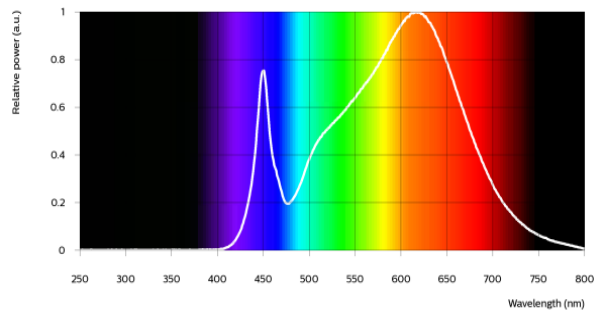


Fortimo SLM C 930 PW 1204 L09 1313 G8N


Parameter	Min	Typ	Max	Unit
Luminous flux	1586	1670	1837	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 288mA	Tc 25 °C	1420	143
	Tc-nom 65 °C	1359	140
	Tc-max 95 °C	1296	135
I-nom 360mA	Tc 25 °C	1747	139
	Tc-nom 65 °C	1670	135
	Tc-max 95 °C	1592	129
I-max 920mA	Tc 25 °C	4023	112
	Tc-nom 65 °C	3822	108
	Tc-max 95 °C	3616	103

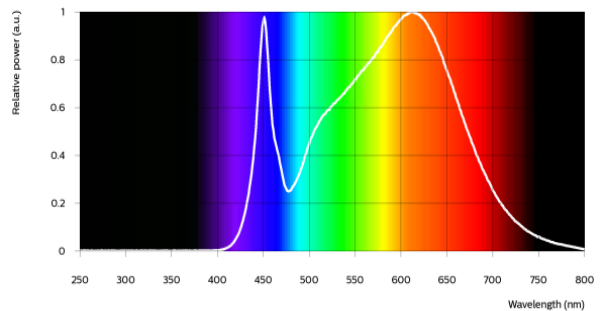



Fortimo SLM C 935 PW 1204 L09 1313 G8N

Parameter	Min	Typ	Max	Unit
Luminous flux	1634	1720	1892	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.

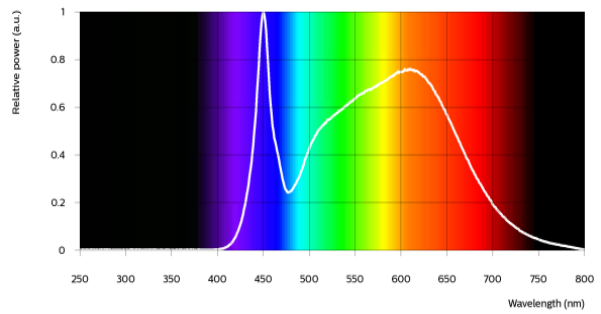
Operation point	935	lm	lm/W
80% I-nom 288mA	Tc 25 °C	1463	148
	Tc-nom 65 °C	1399	144
	Tc-max 95 °C	1334	139
I-nom 360mA	Tc 25 °C	1799	143
	Tc-nom 65 °C	1720	139
	Tc-max 95 °C	1639	133
I-max 920mA	Tc 25 °C	4144	115
	Tc-nom 65 °C	3937	111
	Tc-max 95 °C	3725	106



Parameter	Min	Typ	Max	Unit
Luminous flux	1667	1755	1930	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 288mA	Tc 25 °C	1492	151
	Tc-nom 65 °C	1428	147
	Tc-max 95 °C	1362	142
I-nom 360mA	Tc 25 °C	1836	146
	Tc-nom 65 °C	1755	142
	Tc-max 95 °C	1673	136
I-max 920mA	Tc 25 °C	4228	117
	Tc-nom 65 °C	4017	113
	Tc-max 95 °C	3801	108





Electrical characteristics

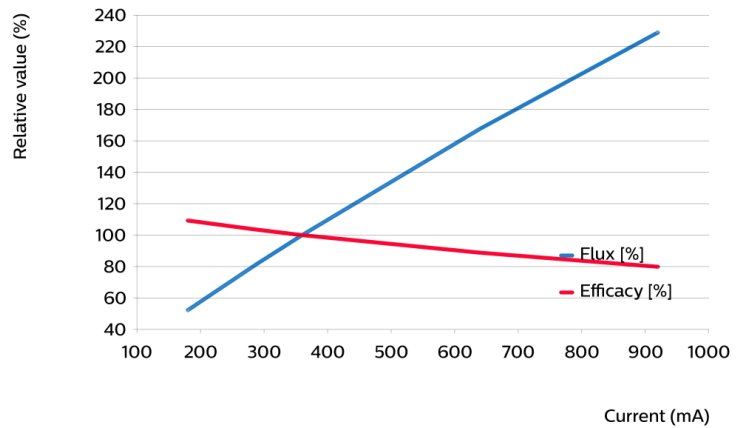
Parameter	Min	Typ	Max	Unit
Forward voltage	32.5	34.5	37.0	V
Power consumption	11.7	12.4	13.3	W = kWh/1000h
Number of modules in series per chain			1	
Number of modules per chain			1	
Number of modules in parallel			1	

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

Tuning information

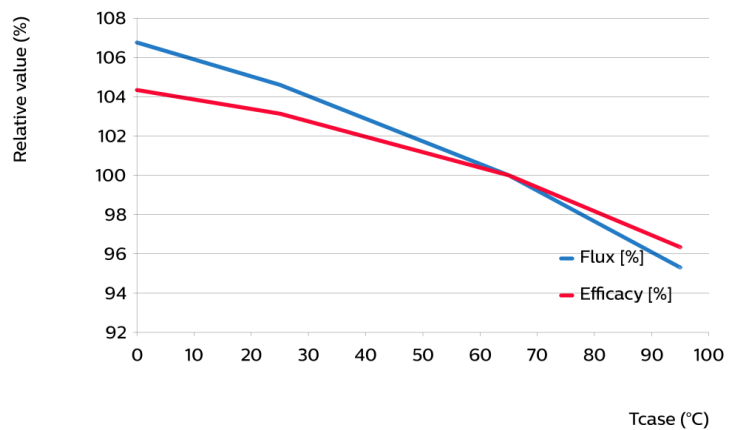
Flux and efficacy versus current (at Tc nominal)

I [mA]	Flux [%]	Efficacy [%]
920	229	80
640	168	89
360	100	100
288	81	103
180	52	109



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	104



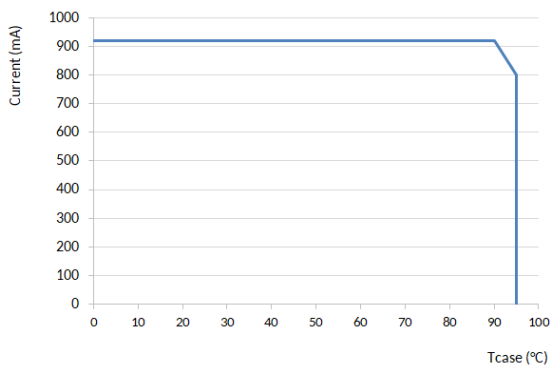
Lumen maintenance

Operation point	Lumen maintenance x 1000 hours	L70			L80			L90		
		B50	B20	B10	B50	B20	B10	B50	B20	B10
80% I-nom 288mA	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 360mA	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 920mA	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

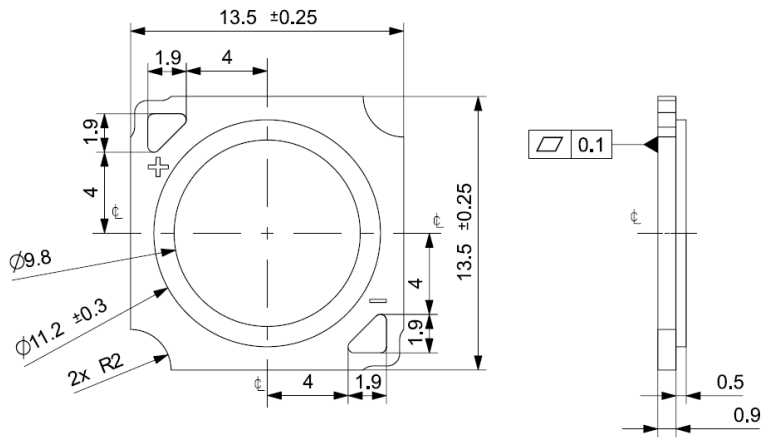
Parameter	Value	Unit
M70F50 nominal	>66000	hours

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		0.48		gram



Absolute ratings

Parameter	Min	Max	Unit
Current through the LED module (I-max)		920	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