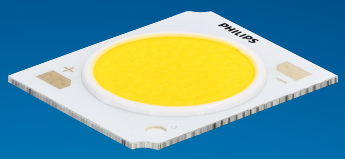
PHILIPS

Fortimo

LED

Fortimo SLM C 9xx 1208
L15 2024 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.

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 1208 L15 2024 G8	8721103 076960 00	9290 039 48601	2270290	20
Fortimo SLM C 930 1208 L15 2024 G8	8721103 076991 00	9290 039 48701	2270210	20
Fortimo SLM C 935 1208 L15 2024 G8	8721103 077028 00	9290 039 48801	2270275	20
Fortimo SLM C 940 1208 L15 2024 G8	8721103 077059 00	9290 039 48901	2270287	20
Fortimo SLM C 930 PW 1208 L15 2024 G8	8721103 077080 00	9290 039 49001	2270342	20
Fortimo SLM C 935 PW 1208 L15 2024 G8	8721103 077110 00	9290 039 49101	2270274	20
Fortimo SLM C 940 PW 1208 L15 2024 G8	8721103 077141 00	9290 039 49201	2270317	20
Fortimo SLM C 930 PC 1208 L15 2024 G8	8721103 077172 00	9290 039 49301	2270340	20

Drive currents

Parameter	Nominal*	Life**	Max***	Unit
Fortimo SLM C 9xx 1208 L15 2024 G8	750	see performance window	1840	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

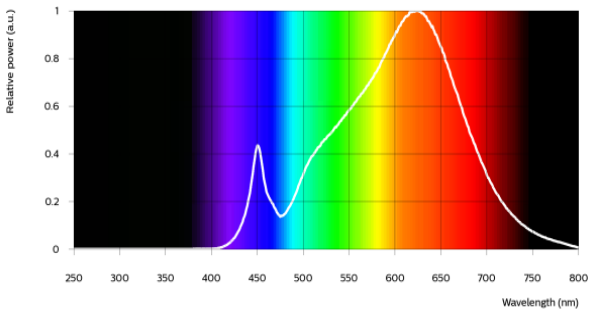
Optical characteristics - table per color (CCT)

Fortimo SLM C 927 1208 L15 2024 G8

Parameter	Min	Typ	Max	Unit
Luminous flux	3178	3345	3680	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 ± 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	927	lm	lm/W
80% I-nom 600mA	Tc 25 °C	2841	138
	Tc-nom 65 °C	2721	134
	Tc-max 95 °C	2611	130
I-nom 750mA	Tc 25 °C	3494	132
	Tc-nom 65 °C	3345	129
	Tc-max 95 °C	3208	125
I-max 1840mA	Tc 25 °C	7766	105
	Tc-nom 65 °C	7409	101
	Tc-max 95 °C	7082	97

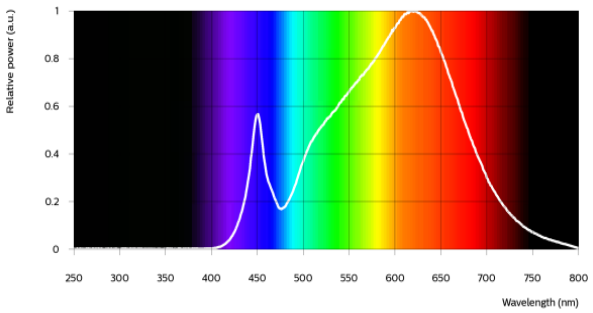


Fortimo SLM C 930 1208 L15 2024 G8

Parameter	Min	Typ	Max	Unit
Luminous flux	3377	3555	3910	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 ± 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 600mA	Tc 25 °C	3020	147
	Tc-nom 65 °C	2892	142
	Tc-max 95 °C	2775	138
I-nom 750mA	Tc 25 °C	3714	141
	Tc-nom 65 °C	3555	137
	Tc-max 95 °C	3410	133
I-max 1840mA	Tc 25 °C	8255	111
	Tc-nom 65 °C	7877	107
	Tc-max 95 °C	7530	104

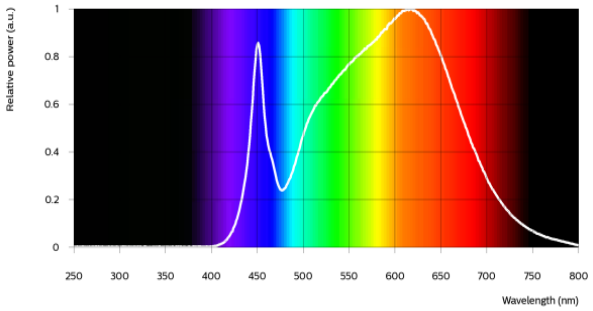


Fortimo SLM C 935 1208 L15 2024 G8

Parameter	Min	Typ	Max	Unit
Luminous flux	3477	3660	4026	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 600mA	Tc 25 °C	3109	151
	Tc-nom 65 °C	2977	147
	Tc-max 95 °C	2857	142
I-nom 750mA	Tc 25 °C	3823	145
	Tc-nom 65 °C	3660	141
	Tc-max 95 °C	3511	137
I-max 1840mA	Tc 25 °C	8499	114
	Tc-nom 65 °C	8110	110
	Tc-max 95 °C	7753	107

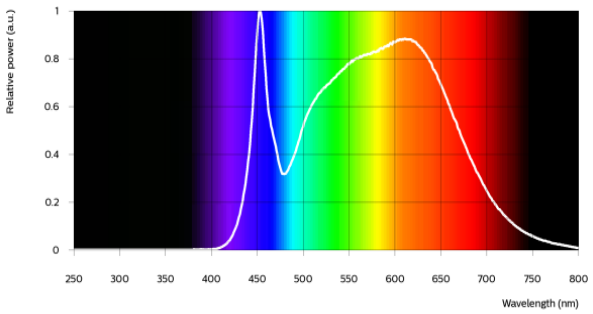


Fortimo SLM C 940 1208 L15 2024 G8

Parameter	Min	Typ	Max	Unit
Luminous flux	3553	3740	4114	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 600mA	Tc 25 °C	3177	154
	Tc-nom 65 °C	3042	150
	Tc-max 95 °C	2919	145
I-nom 750mA	Tc 25 °C	3907	148
	Tc-nom 65 °C	3740	144
	Tc-max 95 °C	3588	140
I-max 1840mA	Tc 25 °C	8685	117
	Tc-nom 65 °C	8288	113
	Tc-max 95 °C	7924	109

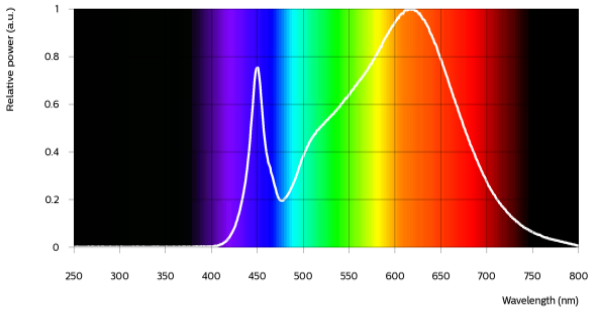


Fortimo SLM C 930 PW 1208 L15 2024 G8

Parameter	Min	Typ	Max	Unit
Luminous flux	3377	3555	3910	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 600mA	Tc 25 °C	3020	147
	Tc-nom 65 °C	2892	142
	Tc-max 95 °C	2775	138
I-nom 750mA	Tc 25 °C	3714	141
	Tc-nom 65 °C	3555	137
	Tc-max 95 °C	3410	133
I-max 1840mA	Tc 25 °C	8255	111
	Tc-nom 65 °C	7877	107
	Tc-max 95 °C	7530	104

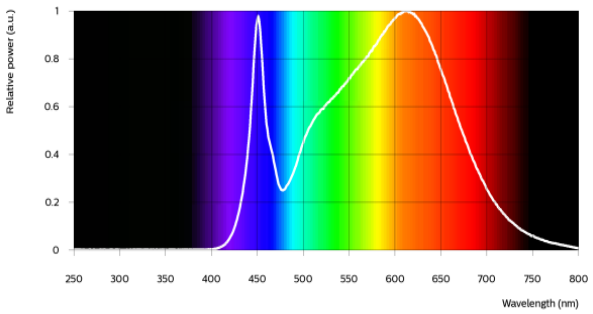


Fortimo SLM C 935 PW 1208 L15 2024 G8

Parameter	Min	Typ	Max	Unit
Luminous flux	3477	3660	4026	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 600mA	Tc 25 °C	3109	151
	Tc-nom 65 °C	2977	147
	Tc-max 95 °C	2857	142
I-nom 750mA	Tc 25 °C	3823	145
	Tc-nom 65 °C	3660	141
	Tc-max 95 °C	3511	137
I-max 1840mA	Tc 25 °C	8499	114
	Tc-nom 65 °C	8110	110
	Tc-max 95 °C	7753	107

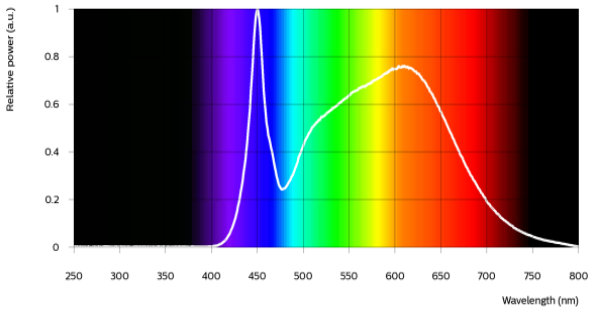


Fortimo SLM C 940 PW 1208 L15 2024 G8

Parameter	Min	Typ	Max	Unit
Luminous flux	3553	3740	4114	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 600mA	Tc 25 °C	3177	154
	Tc-nom 65 °C	3042	150
	Tc-max 95 °C	2919	145
I-nom 750mA	Tc 25 °C	3907	148
	Tc-nom 65 °C	3740	144
	Tc-max 95 °C	3588	140
I-max 1840mA	Tc 25 °C	8685	117
	Tc-nom 65 °C	8288	113
	Tc-max 95 °C	7924	109

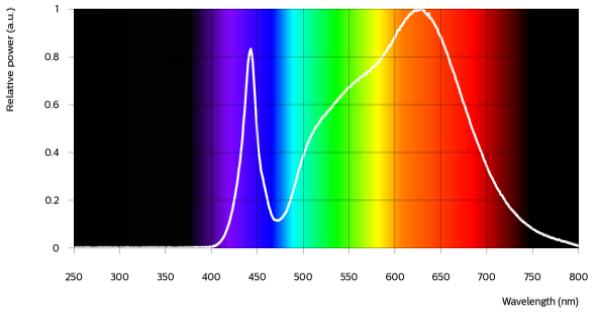


Fortimo SLM C 930 PC 1208 L15 2024 G8

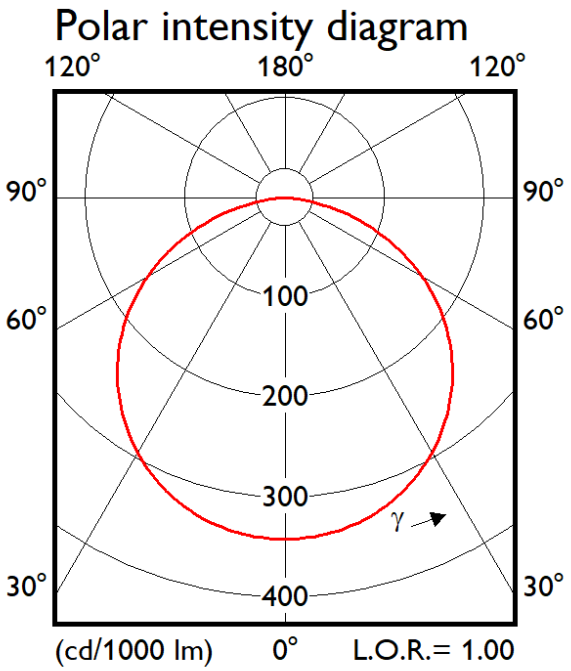
Parameter	Min	Typ	Max	Unit
Luminous flux	3178	3345	3680	lm
Efficacy		129		lm/W
Correlated color temperature (CCT)		3000		K
Color coordinates (CIEx, CIEy)		(0.422, 0.386)		-
Color consistency			3	SDCM
CRI	90			
R9	>70			
Photometric code		930/359		
Photobiological safety		RG1 unlimited		

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 600mA	Tc 25 °C	2841	138
	Tc-nom 65 °C	2721	134
	Tc-max 95 °C	2611	130
I-nom 750mA	Tc 25 °C	3494	132
	Tc-nom 65 °C	3345	129
	Tc-max 95 °C	3208	125
I-max 1840mA	Tc 25 °C	7766	105
	Tc-nom 65 °C	7409	101
	Tc-max 95 °C	7082	97



Beam shape


Polar intensity diagram
120°
180°
120°
90°
90°
60°
60°
100
200
300
γ
30°
30°
400
(cd/1000 lm)
0°
L.O.R.= 1.00

Electrical characteristics

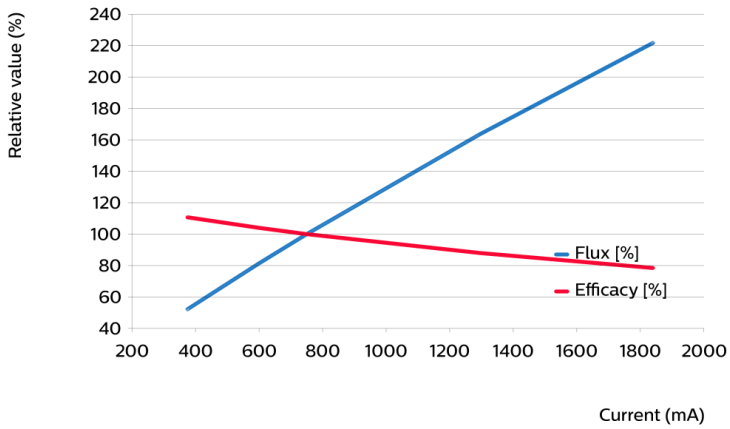
Parameter	Min	Typ	Max	Unit
Forward voltage	32.5	34.7	37.0	V
Power consumption	24.4	26.0	27.8	W = kWh/1000h
Number of modules in series per chain			1	
Number of modules per chain			1	
Number of modules in parallel			1	

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

Tuning information

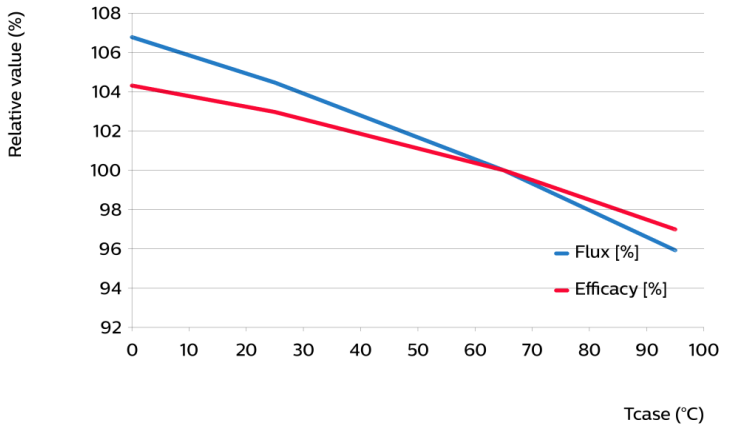
Flux and efficacy versus current (at Tc nominal)

I [mA]	Flux [%]	Efficacy [%]
1840	222	78
1295	164	88
750	100	100
600	81	104
375	52	111



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

Tc [°C]	Flux [%]	Efficacy [%]
95	96	97
65	100	100
25	104	103
0	107	104



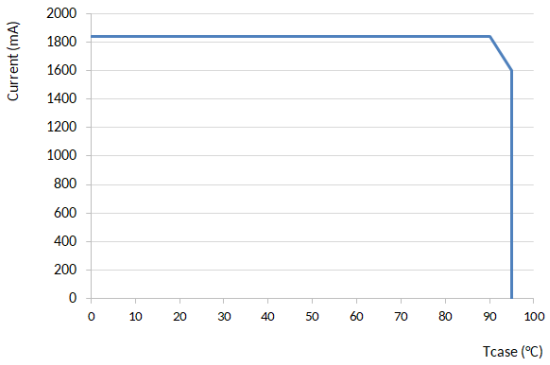
Lumen maintenance

Operation point	Lumen maintenance x 1000 hours	L70			L80			L90		
		B50	B20	B10	B50	B20	B10	B50	B20	B10
80% I-nom 600mA	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 750mA	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	63	58
I-max 1840mA	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

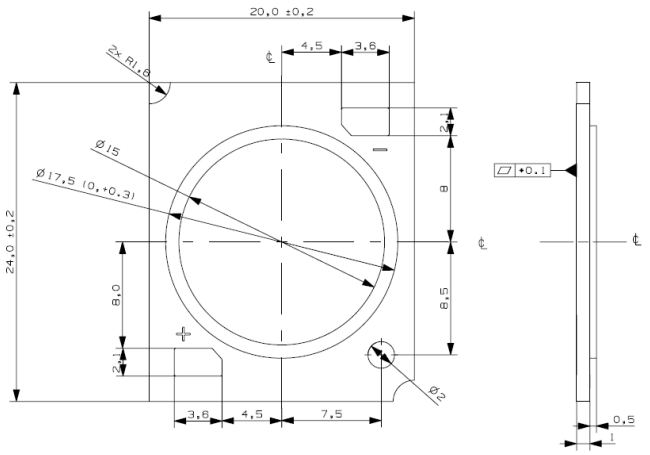
Parameter	Value	Unit
M70F50 nominal	>66000	hours

Performance Window



Mechanical characteristics

Parameter	Min	Typ	Max	Unit
Length	23.8	24	24.2	mm
Width	19.8	20	20.2	mm
Height PCB	0.9	1	1.1	mm
Height including dam	1.2	1.5	1.8	mm
Product mass		1.3		gram



Absolute ratings

Parameter	Min	Max	Unit
Current through the LED module (I-max)		1840	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 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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05/03/2025

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