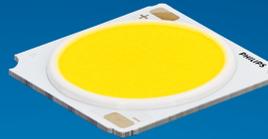


**PHILIPS**

**Fortimo**

**LED**

Fortimo SLM C 1309 L15  
1919 G8N UHE



Datasheet

# 200lm/W chip-on-board that makes sense!

## Fortimo SLM C 1309 L15 1919 G8N UHE

200lm/W claims are not new in the market for COB. While such claims, at a closer look, are either at very low temperature like 25°C, or at very low driving current and flux output, which doesn't make sense to real applications like retail.

To further build on the success of Fortimo SLM G7 HE and HE+ which is well recognized by the market, PHILIPS Fortimo SLM G8 UHE offers first-of-its-kind 200lm/W at 2000lm from LES 15mm and 4000lm from LES 23mm, at a temperature of 50°C, which meets the actual application requirements.

### Key features and benefits

Specially engineered chip for optimal quantum efficiency at low driving current (contributing to the high efficacy)

Further optimized phosphor recipe based on HE+ technology for even higher efficacy without sacrificing QoL and Reliability Lower thermal resistance to enable lower operating temperature (better performance) or luminaire miniaturization Same footprint as Fortimo G7 (L15 2024 and L23 2828), ensuring compatibility with existing holders and optics

Optimized string configuration for higher system efficiency together with the existing PHILIPS indoor point drivers Available in both standard color and Premium White

June 2025



## Ordering data

Commercial product name	EOC	12NC	EPREL registration #	Box quantity
Fortimo SLM C 940 1309 L15 1919 G8N UHE	8721103 113825 00	9290 048 50101	2374935	20
Fortimo SLM C 935 1309 L15 1919 G8N UHE	8721103 113795 00	9290 048 50001	2374903	20
Fortimo SLM C 930 1309 L15 1919 G8N UHE	8721103 113764 00	9290 048 49901	2374916	20
Fortimo SLM C 940 PW 1309 L15 1919 G8N UHE	8721103 113917 00	9290 048 50401	2374884	20
Fortimo SLM C 935 PW 1309 L15 1919 G8N UHE	8721103 113887 00	9290 048 50301	2374902	20
Fortimo SLM C 930 PW 1309 L15 1919 G8N UHE	8721103 113856 00	9290 048 50201	2374906	20

Not all products are globally available by default.

Please contact your local sales representative for local availability and activation conditions.

## Drive currents

Parameter	Nominal*	Life**	Max***	Unit
Fortimo SLM C 1309 L15 1919 G8N UHE	300	750	750	mA

## Module temperatures

Parameter	Nominal*	Life**	Max***	Unit
T <sub>c</sub> (case temperature at T <sub>c</sub> point)	50	85	85	°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)

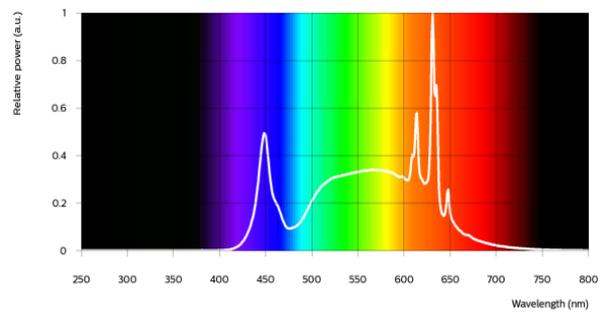
### Fortimo SLM C 940 1309 L15 1919 G8N UHE

Parameter	Min	Typ	Max	Unit
Luminous flux	2014	2120	2332	lm
Efficacy		201		lm/W
Correlated color temperature (CCT)		4000		K
Color coordinates (CIEx, CIEy)		(0.382, 0.380)		-
Color consistency			2	SDCM
CRI	90			
R9	50			
Photometric code		940/259		
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	940	lm	lm/W
80% I-nom 240mA	Tc 25 °C	1756	209
	Tc-nom 50 °C	1699	204
	Tc-max 85 °C	1608	195
I-nom 300mA	Tc 25 °C	2189	206
	Tc-nom 50 °C	2120	201
	Tc-max 85 °C	2005	193
I-max 750mA	Tc 25 °C	5321	189
	Tc-nom 50 °C	5147	185
	Tc-max 85 °C	4871	177



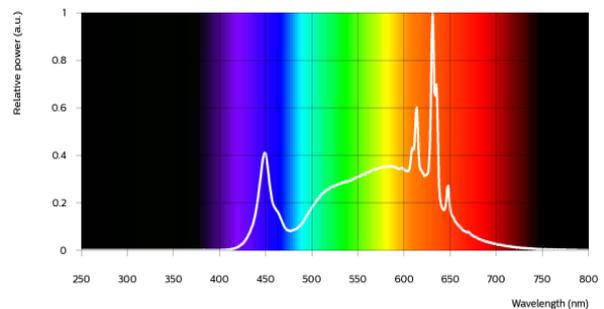
### Fortimo SLM C 935 1309 L15 1919 G8N UHE

Parameter	Min	Typ	Max	Unit
Luminous flux	1995	2100	2310	lm
Efficacy		199		lm/W
Correlated color temperature (CCT)		3500		K
Color coordinates (CIEx, CIEy)		(0.407, 0.392)		-
Color consistency			2	SDCM
CRI	90			
R9	50			
Photometric code		935/259		
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	935	lm	lm/W
80% I-nom 240mA	Tc 25 °C	1739	207
	Tc-nom 50 °C	1683	202
	Tc-max 85 °C	1593	193
I-nom 300mA	Tc 25 °C	2168	204
	Tc-nom 50 °C	2100	199
	Tc-max 85 °C	1986	191
I-max 750mA	Tc 25 °C	5271	188
	Tc-nom 50 °C	5099	183
	Tc-max 85 °C	4825	175

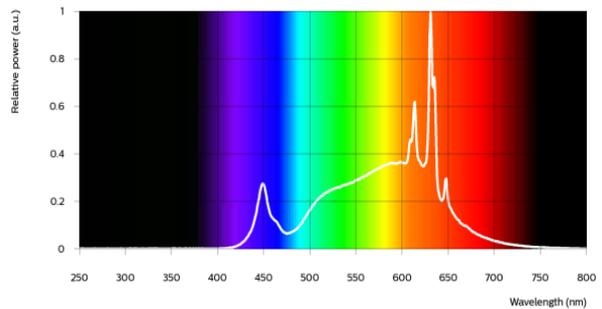


Fortimo SLM C 930 1309 L15 1919 G8N UHE

Parameter	Min	Typ	Max	Unit
Luminous flux	1933	2035	2238	lm
Efficacy		194		lm/W
Correlated color temperature (CCT)		3000		K
Color coordinates (CIEx, CIEy)		(0.434, 0.403)		-
Color consistency			2	SDCM
CRI	90			
R9	50			
Photometric code		930/259		
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 240mA	Tc 25 °C	1689	201
	Tc-nom 50 °C	1635	196
	Tc-max 85 °C	1548	188
I-nom 300mA	Tc 25 °C	2106	198
	Tc-nom 50 °C	2035	193
	Tc-max 85 °C	1929	185
I-max 750mA	Tc 25 °C	5120	182
	Tc-nom 50 °C	4953	178
	Tc-max 85 °C	4687	170

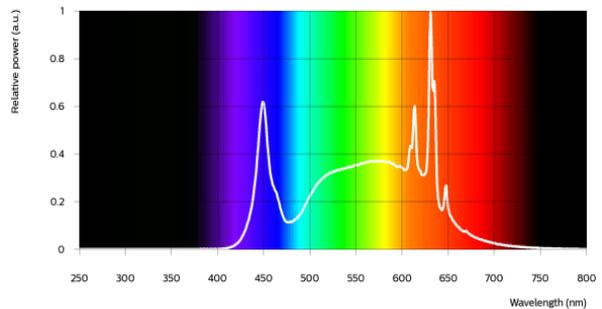


Fortimo SLM C 940 PW 1309 L15 1919 G8N UHE

Parameter	Min	Typ	Max	Unit
Luminous flux	1962	2065	2272	lm
Efficacy		196		lm/W
Correlated color temperature (CCT)		4000		K
Color coordinates (CIEx, CIEy)		(0.374, 0.364)		-
Color consistency			2	SDCM
CRI	90			
R9	50			
Photometric code		940/259		
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 240mA	Tc 25 °C	1710	203
	Tc-nom 50 °C	1655	198
	Tc-max 85 °C	1567	190
I-nom 300mA	Tc 25 °C	2132	201
	Tc-nom 50 °C	2065	196
	Tc-max 85 °C	1953	188
I-max 750mA	Tc 25 °C	5183	184
	Tc-nom 50 °C	5014	180
	Tc-max 85 °C	4744	172

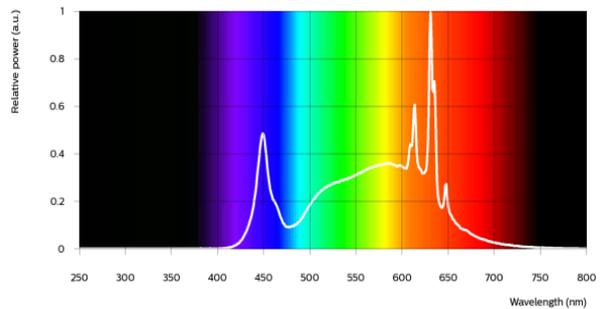


Fortimo SLM C 935 PW 1309 L15 1919 G8N UHE

Parameter	Min	Typ	Max	Unit
Luminous flux	1943	2045	2250	lm
Efficacy		194		lm/W
Correlated color temperature (CCT)		3500		K
Color coordinates (CIEx, CIEy)		(0.398, 0.376)		-
Color consistency			2	SDCM
CRI	90			
R9	50			
Photometric code		935/259		
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 240mA	Tc 25 °C	1693	201
	Tc-nom 50 °C	1639	196
	Tc-max 85 °C	1551	188
I-nom 300mA	Tc 25 °C	2111	199
	Tc-nom 50 °C	2045	194
	Tc-max 85 °C	1934	186
I-max 750mA	Tc 25 °C	5133	183
	Tc-nom 50 °C	4965	178
	Tc-max 85 °C	4698	170

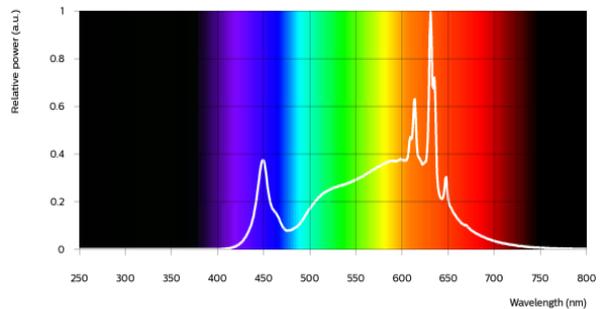


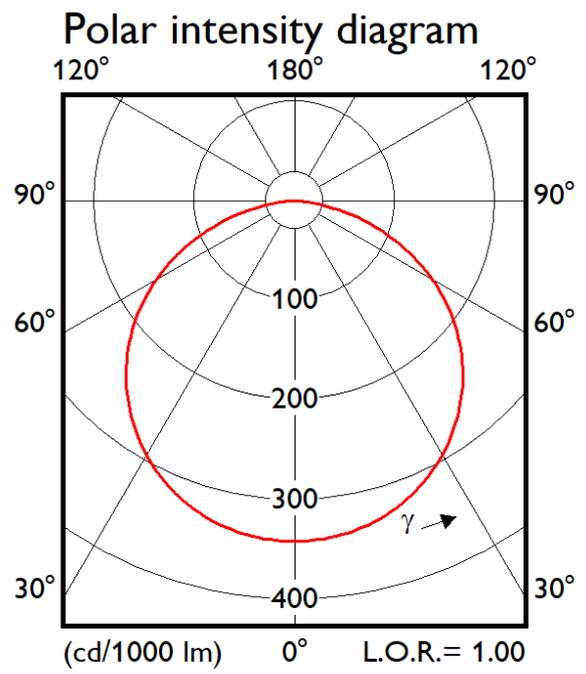
Fortimo SLM C 930 PW 1309 L15 1919 G8N UHE

Parameter	Min	Typ	Max	Unit
Luminous flux	1924	2025	2228	lm
Efficacy		192		lm/W
Correlated color temperature (CCT)		3000		K
Color coordinates (CIEx, CIEy)		(0.422, 0.386)		-
Color consistency			2	SDCM
CRI	90			
R9	50			
Photometric code		930/259		
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 240mA	Tc 25 °C	1677	199
	Tc-nom 50 °C	1623	194
	Tc-max 85 °C	1536	186
I-nom 300mA	Tc 25 °C	2091	197
	Tc-nom 50 °C	2025	192
	Tc-max 85 °C	1915	184
I-max 750mA	Tc 25 °C	5083	181
	Tc-nom 50 °C	4916	176
	Tc-max 85 °C	4652	169





## Electrical characteristics

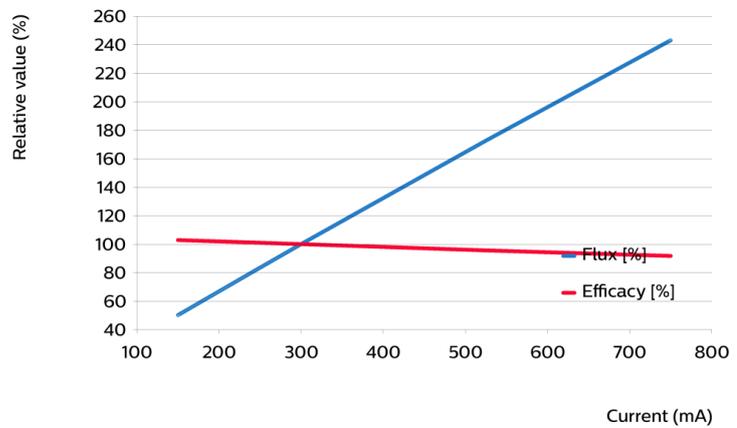
Parameter	Min	Typ	Max	Unit
Forward voltage	33.0	35.1	37.0	V
Power consumption	9.9	10.6	11.1	W = kWh/1000h
Number of modules in series per chain			1	
Number of modules per chain			1	
Number of modules in parallel			1	

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

## Tuning information

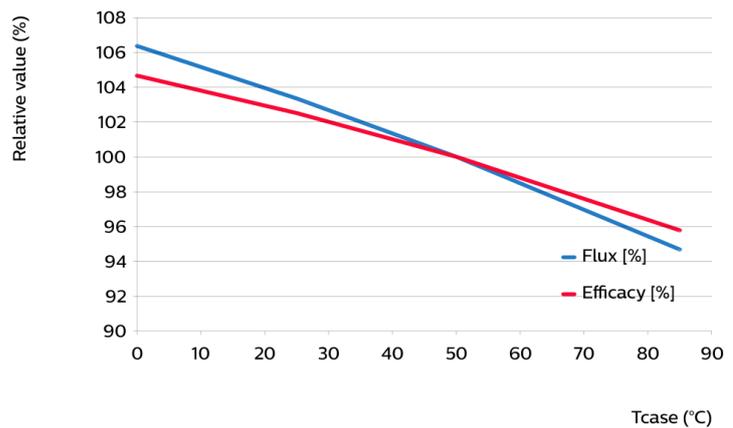
Flux and efficacy versus current (at Tc nominal)

I [mA]	Flux [%]	Efficacy [%]
750	243	92
525	173	96
300	100	100
240	80	101
150	50	103



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

Tc [°C]	Flux [%]	Efficacy [%]
85	95	96
50	100	100
25	103	103
0	106	105



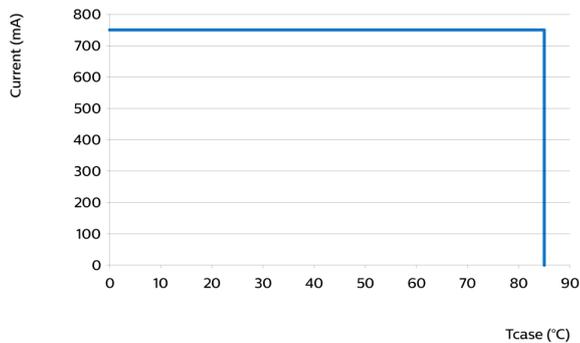
## Lumen maintenance

Operation point	Lumen maintenance x 1000 hours	L70			L80			L90		
		B50	B20	B10	B50	B20	B10	B50	B20	B10
80% I-nom 240mA	Tc 50°C	>110	>110	>110	>110	>110	>110	>110	106	97
	Tc 65°C	>110	>110	>110	>110	>110	>110	107	90	83
	Tc 85°C	>110	>110	>110	>110	>110	>110	88	75	68
I-nom 300mA	Tc 50°C	>110	>110	>110	>110	>110	>110	>110	101	93
	Tc 65°C	>110	>110	>110	>110	>110	>110	102	86	79
	Tc 85°C	>110	>110	>110	>110	>110	>110	84	71	65
I-max 750mA	Tc 50°C	>110	>110	>110	>110	>110	>110	100	84	77
	Tc 65°C	>110	>110	>110	>110	>110	>110	85	72	66
	Tc 85°C	>110	>110	>110	>110	>110	>110	70	59	54

## Lifetime

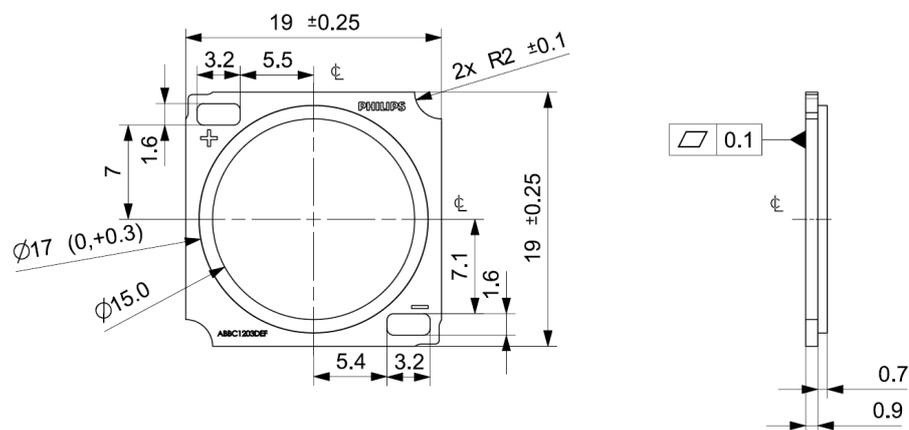
Parameter	Value	Unit
M70F50 nominal	>110000	hours

## Performance Window



## Mechanical characteristics

Parameter	Min	Typ	Max	Unit
Length	18.75	19	19.25	mm
Width	18.75	19	19.25	mm
Height PCB	0.8	0.9	1	mm
Height including dam	1.3	1.6	1.9	mm
Product mass		1.04		gram



## Absolute ratings

Parameter	Min	Max	Unit
Current through the LED module (I-max)		750	mA
Case temperature (Tc-max)		85	°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 1342 lux risk group classification may be RG2.

## Application information

### Certificates and Standards

CB  
 CE  
 ENEC  
 ENEC+  
 EPRS 001  
 IEC 62031  
 UKCA  
 UL  
 UL 8750

### Environmental

RoHS/REACH

### Application

Dimming

Yes



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