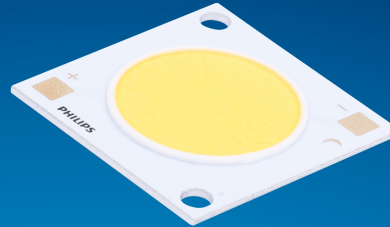


PHILIPS

Fortimo

LED

Fortimo SLM C 1313 L19
2828 G8 UHE



Datasheet

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

Fortimo SLM C 1313 L19 2828 G8 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(N) HE and HE+ which is well recognized by the market, PHILIPS Fortimo SLM G8(N) UHE offers first-of-its-kind 200lm/W, at tc 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 Quality of Light and Reliability
- Lower thermal resistance to enable lower operating temperature (better performance) or luminaire miniaturization
- Same footprint as Fortimo SLM G7(N), 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, Premium White and Premium Ambiance

December 2025



Ordering data

Commercial product name	EOC	12NC	EPREL No.	Box quantity
Fortimo SLM C 930 1313 L19 2828 G8 UHE	8721103 147165 00	9290 048 69101	2522547	10
Fortimo SLM C 935 1313 L19 2828 G8 UHE	8721103 147196 00	9290 048 69201	2522545	10
Fortimo SLM C 940 1313 L19 2828 G8 UHE	8721103 147226 00	9290 048 69301	2522558	10
Fortimo SLM C 930 PW 1313 L19 2828 G8 UHE	8721103 147257 00	9290 048 69401	2522550	10
Fortimo SLM C 935 PW 1313 L19 2828 G8 UHE	8721103 147288 00	9290 048 69501	2522551	10
Fortimo SLM C 940 PW 1313 L19 2828 G8 UHE	8721103 147318 00	9290 048 69601	2522555	10

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 1313 L19 2828 G8 UHE	450	1560	1560	mA

Module temperatures

Parameter	Nominal*	Life**	Max***	Unit
T _c (case temperature at T _c 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

Fortimo SLM C 930 1313 L19 2828 G8 UHE
Fortimo SLM C 935 1313 L19 2828 G8 UHE
Fortimo SLM C 940 1313 L19 2828 G8 UHE
Fortimo SLM C 930 PW 1313 L19 2828 G8 UHE
Fortimo SLM C 935 PW 1313 L19 2828 G8 UHE
Fortimo SLM C 940 PW 1313 L19 2828 G8 UHE

CCT	3000K	3500K	4000K	3000K PW	3500K PW	4000K PW	Unit
Luminous flux (Φuse)*	3050	3145	3180	3035	3065	3095	lm
Efficacy	192	198	200	191	193	195	lm/W
Color consistency	2	2	2	2	2	2	SDCM
Color coordinates (CIEx, CIEy)	0.434, 0.403	0.407, 0.392	0.382, 0.380	0.422, 0.386	0.398, 0.376	0.374, 0.364	
Min. CRI	90	90	90	90	90	90	
Min. R9	50	50	50	50	50	50	
Photometric code	930/259	935/259	940/259	930/259	935/259	940/259	
Photobiological safety	RG1 unlimited	RG1 unlimited	RG1 unlimited	RG1 unlimited	RG1 unlimited	RG1 unlimited	
Energy label EPREL	C	C	B	C	C	C	

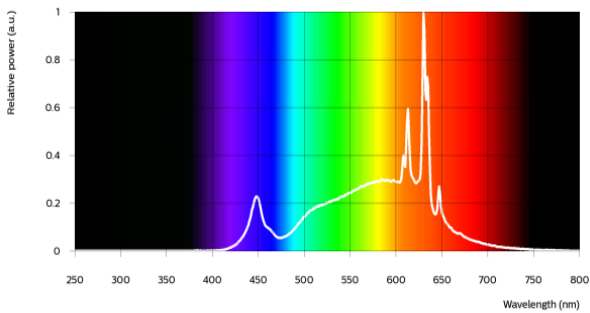
Measurement precision for flux +/- 5%. Measurement precision for efficacy +/- 6%. Measurement precision for x, y +/- 0.005. Measurement precision for CRI 1.5.

*Flux lower / upper spec limit: -5% / +10% of typical.

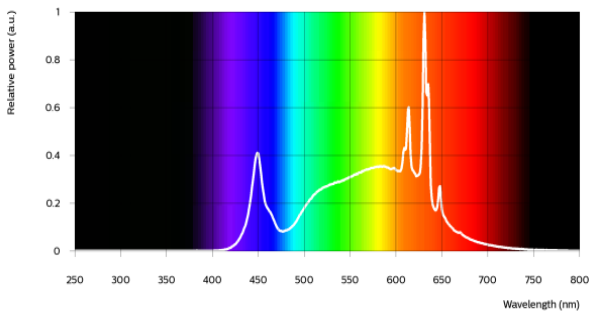
Tuning table

Operation Point		Current	3000K	3500K	4000K	3000K PW	3500K PW	4000K PW	Unit
T _c = 25°C	Luminous flux	80% I-nom 360mA	2522	2601	2630	2510	2535	2559	lm
		I-nom 450mA	3145	3243	3279	3130	3161	3192	lm
		I-max 1560mA	10349	10673	10794	10300	10403	10505	lm
	Efficacy	80% I-nom 360mA	200	206	209	199	201	203	lm/W
		I-nom 450mA	197	203	205	196	198	199	lm/W
		I-max 1560mA	166	171	173	165	167	169	lm/W
T _c = 50°C	Luminous flux	80% I-nom 360mA	2445	2521	2550	2433	2457	2482	lm
		I-nom 450mA	3050	3145	3180	3035	3065	3095	lm
		I-max 1560mA	10021	10336	10453	9974	10074	10173	lm
	Efficacy	80% I-nom 360mA	196	202	204	195	197	199	lm/W
		I-nom 450mA	192	198	200	191	193	195	lm/W
		I-max 1560mA	162	167	169	161	163	164	lm/W
T _c = 85°C	Luminous flux	80% I-nom 360mA	2319	2392	2419	2308	2331	2354	lm
		I-nom 450mA	2892	2982	3016	2878	2906	2935	lm
		I-max 1560mA	9484	9782	9893	9439	9534	9629	lm
	Efficacy	80% I-nom 360mA	187	193	195	186	188	190	lm/W
		I-nom 450mA	185	191	193	184	186	188	lm/W
		I-max 1560mA	155	160	162	154	156	157	lm/W

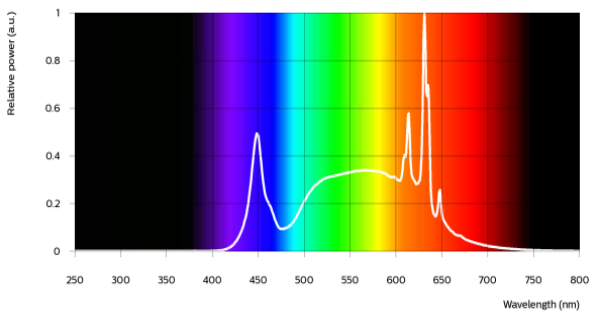
3000K



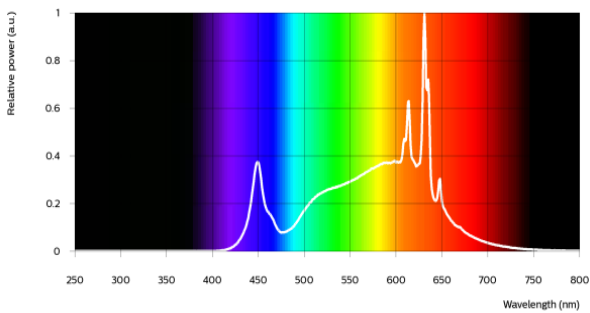
3500K



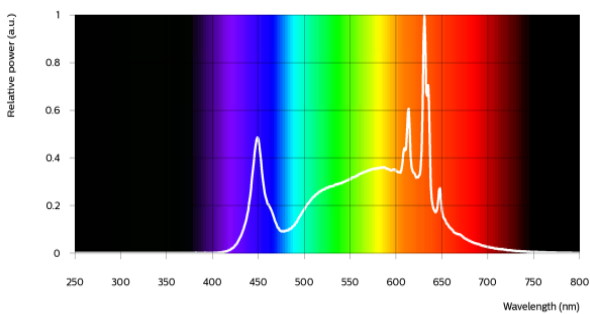
4000K



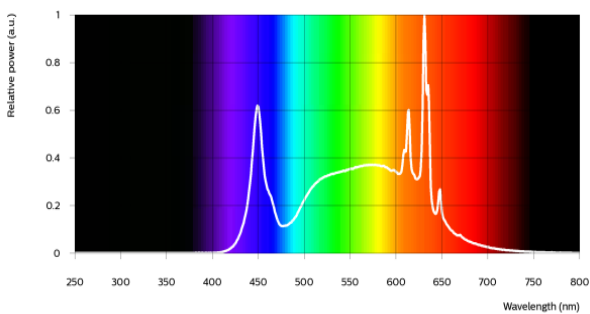
3000K PW

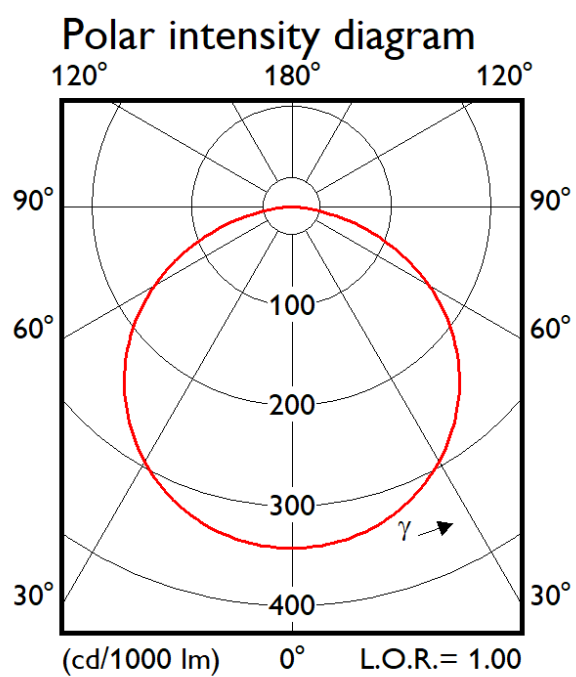


3500K PW



4000K PW





Electrical characteristics

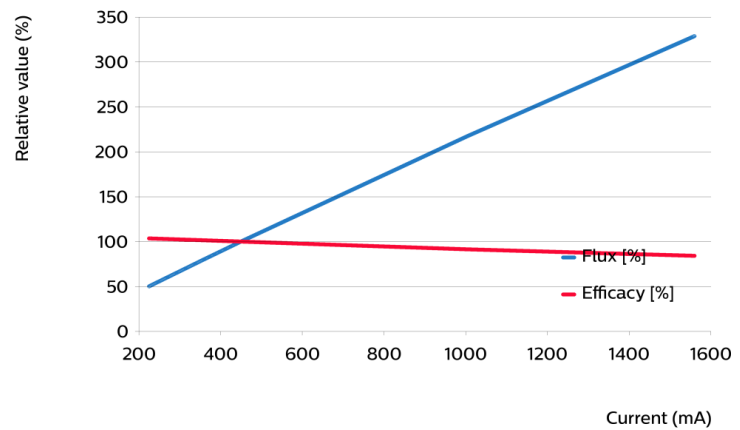
Parameter	Min	Typ	Max	Unit
Forward voltage	33.0	35.3	37.0	V
Power consumption		15.9		W = kWh/1000h
Number of modules in series per chain			1	
Number of modules per chain			1	
Number of modules in parallel			1	

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

Tuning information

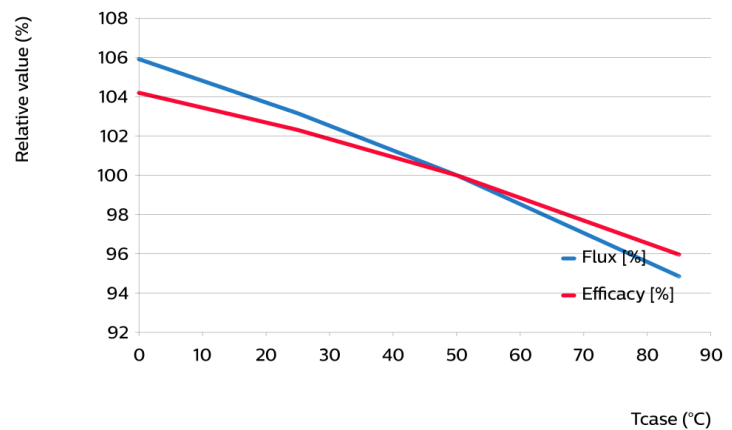
Flux and efficacy versus current (at Tc nominal)

I [mA]	Flux [%]	Efficacy [%]
1560	329	84
1005	218	91
450	100	100
360	80	101
225	50	103



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

Tc [°C]	Flux [%]	Efficacy [%]
85	95	96
50	100	100
25	103	102
0	106	104



Lumen maintenance

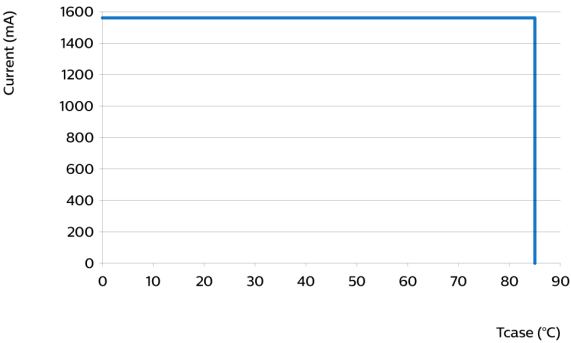
Operation point	Lumen maintenance x 1000 hours	L70			L80			L90		
		B50	B20	B10	B50	B20	B10	B50	B20	B10
80% I-nom 360mA	Tc 50°C	>110	>110	>110	>110	>110	>110	>110	>110	>110
	Tc 65°C	>110	>110	>110	>110	>110	>110	>110	>110	>110
	Tc 85°C	>110	>110	>110	>110	>110	>110	>110	>110	>110
I-nom 450mA	Tc 50°C	>110	>110	>110	>110	>110	>110	>110	>110	>110
	Tc 65°C	>110	>110	>110	>110	>110	>110	>110	>110	>110
	Tc 85°C	>110	>110	>110	>110	>110	>110	>110	>110	>110
I-max 1560mA	Tc 50°C	>110	>110	>110	>110	>110	>110	104	88	81
	Tc 65°C	>110	>110	>110	>110	>110	>110	79	67	61
	Tc 85°C	>110	>110	>110	>110	101	92	56	48	44

We use a Philips designed lifetime model, which uses LM80 data as only one of its inputs and assumes a continues operation of the module.
B20 and B10 values are calculated by means of statistical techniques.

Lifetime

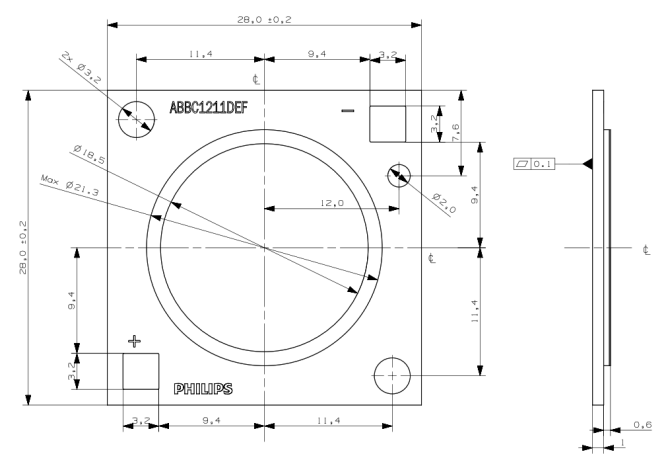
Parameter	Value	Unit
M70F50 nominal	>110000	hours

Performance Window



Mechanical characteristics

Parameter	Min	Typ	Max	Unit
Length	27.8	28	28.2	mm
Width	27.8	28	28.2	mm
Height PCB	0.9	1	1.1	mm
Height including dam	1.3	1.6	1.9	mm
Product mass		2.18		gram



Absolute ratings

Parameter	Min	Max	Unit
Current through the LED module (I-max)		1560	mA
Case temperature (Tc-max)		85	°C
ESD (direct contact)	8		kV
Working voltage		60	V _{dc}
Ambient temperature	-20	40	°C
Storage temperature	-40	80	°C

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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