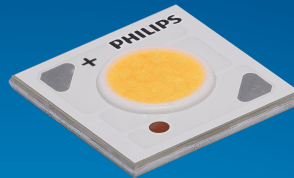


PHILIPS

CertaFlux

LED

CertaFlux SLM C 9xx 1301
L06 1313 G3



Datasheet

Good performance for compact light source design

CertaFlux SLM G3 CRI90

CertaFlux LED SLM is an entry level CoB family from Philips designed for general lighting applications. With the upgrade from Gen 2 to Gen 3 for two small LES sizes - L06 and L09, it delivers up to 16% higher efficacy within the same form factor.

The portfolio covers a luminous flux range from 450 lm to 3000 lm and is available in 2700 K, 3000 K, 3500 K, 4000 K, and 5000 K, with CRI 90 options. The modules are fully compatible with Philips drivers for straightforward reliable, simple, system integration.

Benefits

- Supports reduced energy consumption and improved total cost of ownership
- Enables more compact luminaire designs and greater design flexibility
- Improves durability in demanding environments
- Facilitates more efficient and reliable luminaire assembly processes
- Ensures stable long-term performance, including in applications with frequent switching cycles

Features

- Efficacy up to 149 lm/W, up to 16% higher than previous generation (Gen 2)
- Increased power density compared to Gen 2
- Enhanced corrosion resistance
- Improved solderability
- Higher tolerance to mechanical and thermal stress

June 2026



Ordering data

Commercial product name	EOC	12NC	EPREL No.	Box quantity
CertaFlux SLM C 927 1301 L06 1313 G3	8721103 176752 00	9290 048 78201	2721552	20
CertaFlux SLM C 930 1301 L06 1313 G3	8721103 176776 00	9290 048 78301	2721551	20
CertaFlux SLM C 935 1301 L06 1313 G3	8721103 176790 00	9290 048 78401	2721559	20
CertaFlux SLM C 940 1301 L06 1313 G3	8721103 176813 00	9290 048 78501	2721550	20
CertaFlux SLM C 950 1301 L06 1313 G3	8721103 176837 00	9290 048 78601	2721549	20

Drive currents

Parameter	Nominal*	Life**	Max***	Unit
CertaFlux SLM C 9xx 1301 L06 1313 G3	100	See performance window	350	mA

Module temperatures

Parameter	Nominal*	Life**	Max***	Unit
T _c (case temperature at T _c point)	85	See performance window	105	°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

CertaFlux SLM C 927 1301 L06 1313 G3
CertaFlux SLM C 930 1301 L06 1313 G3
CertaFlux SLM C 935 1301 L06 1313 G3
CertaFlux SLM C 940 1301 L06 1313 G3
CertaFlux SLM C 950 1301 L06 1313 G3

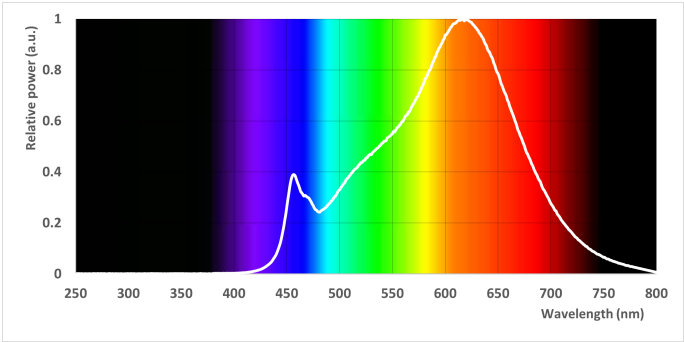
CCT	2700K	3000K	3500K	4000K	5000K	Unit
Luminous flux (Φuse)*	450	470	490	500	505	lm
Efficacy	129	135	140	143	145	lm/W
Color consistency	3	3	3	3	3	SDCM
Color coordinates (CIEx, CIEy)	0.458, 0.410	0.434, 0.403	0.407, 0.392	0.382, 0.380	0.345, 0.355	
Min. CRI	90	90	90	90	90	
Min. R9	50	50	50	50	50	
Photometric code	927/359	930/359	935/359	940/359	950/359	
Photobiological safety	RG1 unlimited	RG1 unlimited	RG1 unlimited	RG1 unlimited	RG1 unlimited	
Energy label EPREL	E	E	E	E	E	

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.

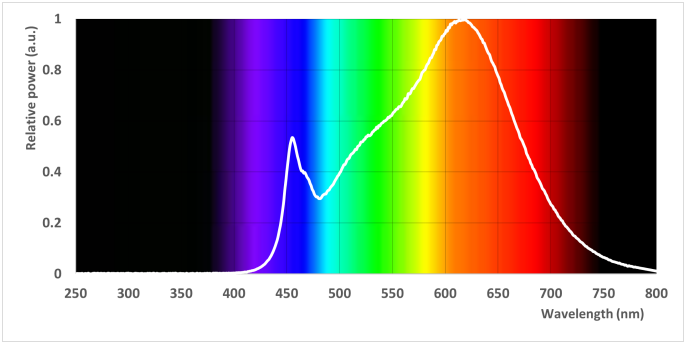
Tuning table

Operation Point		Current	2700K	3000K	3500K	4000K	5000K	Unit
Tc = 25°C	Luminous flux	80% I-nom 80mA	397	415	432	441	445	lm
		I-nom 100mA	489	510	532	543	548	lm
		I-max 350mA	1475	1540	1606	1640	1656	lm
	Efficacy	80% I-nom 80mA	142	148	154	158	159	lm/W
		I-nom 100mA	136	142	148	151	152	lm/W
		I-max 350mA	111	116	121	123	125	lm/W
Tc = 85°C	Luminous flux	80% I-nom 80mA	366	382	399	407	411	lm
		I-nom 100mA	450	470	490	500	505	lm
		I-max 350mA	1317	1377	1437	1468	1483	lm
	Efficacy	80% I-nom 80mA	131	137	142	145	147	lm/W
		I-nom 100mA	129	134	140	143	144	lm/W
		I-max 350mA	101	106	111	113	114	lm/W
Tc = 105°C	Luminous flux	80% I-nom 80mA	349	365	380	388	392	lm
		I-nom 100mA	429	448	467	476	481	lm
		I-max 350mA	1230	1286	1342	1371	1386	lm
	Efficacy	80% I-nom 80mA	129	135	141	144	145	lm/W
		I-nom 100mA	122	128	133	136	137	lm/W
		I-max 350mA	95	100	104	106	107	lm/W

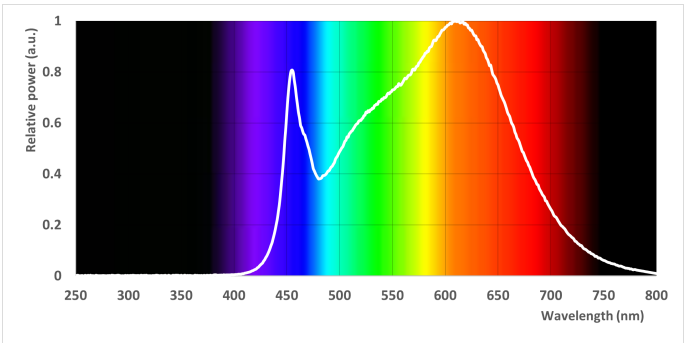
CRI90 2700K



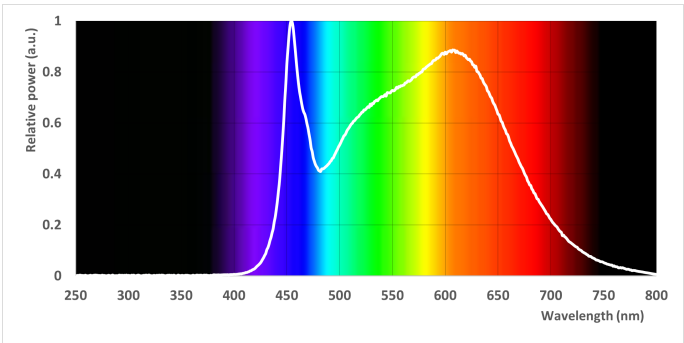
CRI90 3000K



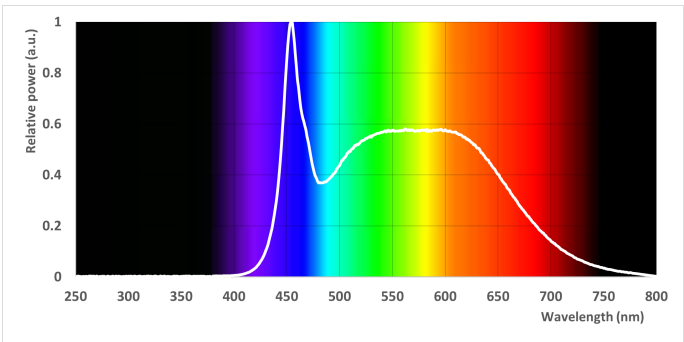
CRI90 3500K

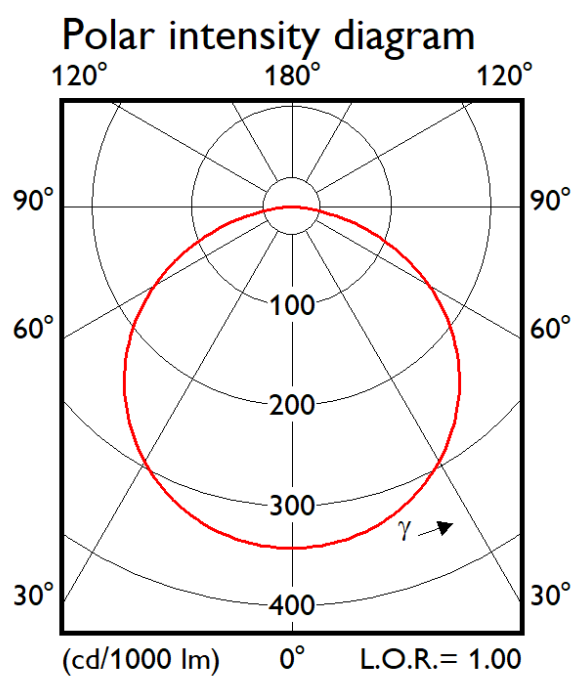


CRI90 4000K



CRI90 5000K





Electrical characteristics

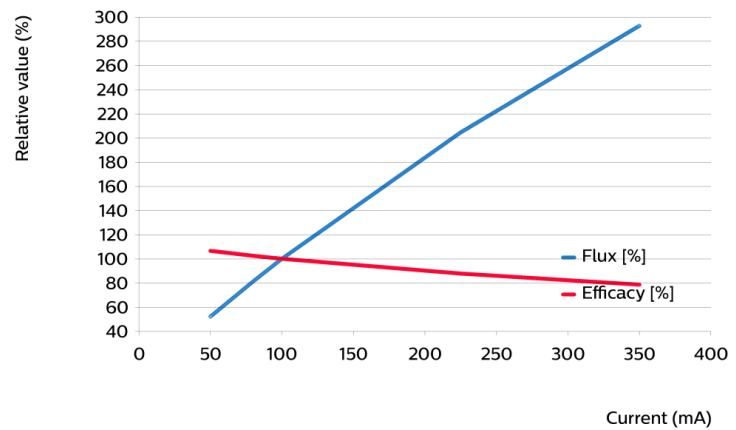
Parameter	Min	Typ	Max	Unit
Forward voltage	32.9	34.9	36.9	V
Power consumption		3.5		W = kWh/1000h
Number of modules in series per chain			1	
Number of modules in parallel			1	

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

Tuning information

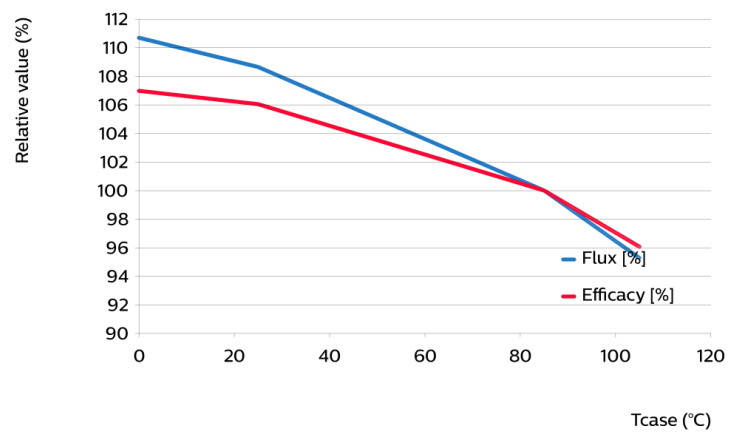
Flux and efficacy versus current (at Tc nominal)

I [mA]	Flux [%]	Efficacy [%]
350	293	79
225	205	88
100	100	100
80	81	102
50	52	107



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

Tc [°C]	Flux [%]	Efficacy [%]
105	95	96
85	100	100
25	109	106
0	111	107



Lumen maintenance

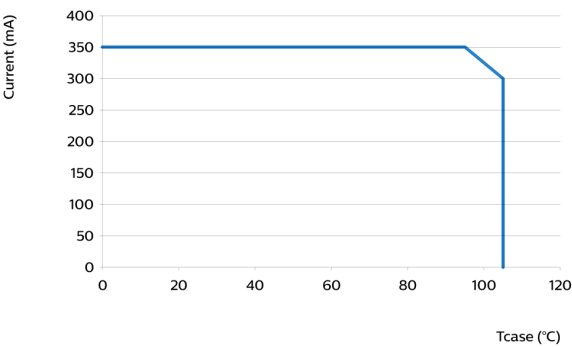
Operation point	Lumen maintenance x 1000 hours	L70			L80			L90		
		B50	B20	B10	B50	B20	B10	B50	B20	B10
80% Inom=80mA	Tc=75°C	>50	>50	>50	>50	>50	>50	>50	>50	>50
	Tc_nom=85°C	>50	>50	>50	>50	>50	>50	>50	>50	>50
	Tc_max=105°C	>50	>50	>50	>50	>50	>50	>50	>50	>50
Inom=100mA	Tc=75°C	>50	>50	>50	>50	>50	>50	>50	>50	>50
	Tc_nom=85°C	>50	>50	>50	>50	>50	>50	>50	>50	>50
	Tc_max=105°C	>50	>50	>50	>50	>50	>50	>50	>50	>50
Imax=350mA	Tc=75°C	>50	>50	>50	>50	>50	>50	>50	>50	>50
	Tc_nom=85°C	>50	>50	>50	>50	>50	>50	>50	>50	>50
	Tc_max=105°C	>50	>50	>50	>50	>50	>50	>50	>50	49

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

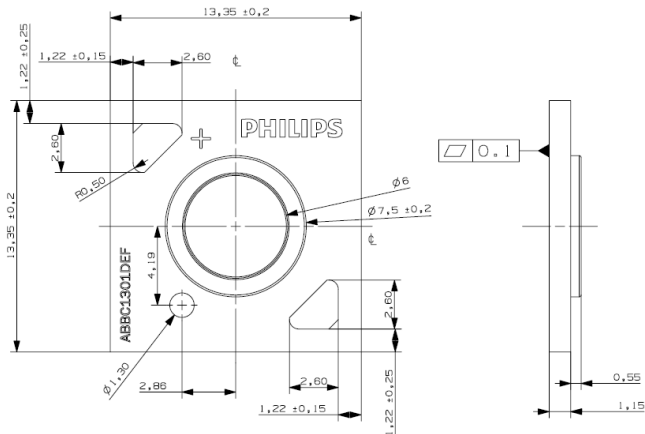
Parameter	Value	Unit
M70F50 nominal	>50000	hours

Performance Window



Mechanical characteristics

Parameter	Min	Typ	Max	Unit
Length	13.15	13.35	13.55	mm
Width	13.15	13.35	13.55	mm
Height Height PCB	1.05	1.15	1.25	mm
Height Height including dam	1.4	1.7	2	mm
Product mass		0.58		gram



Absolute ratings

Parameter	Min	Max	Unit
Current through the LED module (I-max)		350	mA
Case temperature (Tc-max)		105	°C
ESD (direct contact)	2		kV
Working voltage		60	V _{dc}
Ambient temperature	-20	40	°C
Storage temperature	-40	80	°C

At illumination levels exceeding 1468 lux risk group classification may be RG2.

Application information

Certificates and Standards

CB
CE
IEC/EN 62031
UKCA
UL
UL 8750

Environmental

RoHS/REACH

Application

Dimming	Yes
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