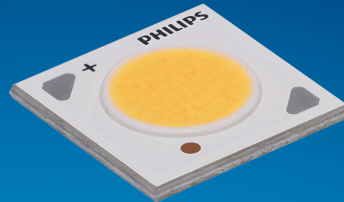


PHILIPS

CertaFlux

LED

CertaFlux SLM C 9xx 1302
L09 1515 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 1302 L09 1515 G3	8721103 176851 00	9290 048 78701	2721554	20
CertaFlux SLM C 930 1302 L09 1515 G3	8721103 176875 00	9290 048 78801	2721556	20
CertaFlux SLM C 935 1302 L09 1515 G3	8721103 176899 00	9290 048 78901	2721557	20
CertaFlux SLM C 940 1302 L09 1515 G3	8721103 176912 00	9290 048 79001	2721553	20
CertaFlux SLM C 950 1302 L09 1515 G3	8721103 176936 00	9290 048 79101	2721555	20

Drive currents

Parameter	Nominal*	Life**	Max***	Unit
CertaFlux SLM C 9xx 1302 L09 1515 G3	200	See performance window	700	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 1302 L09 1515 G3
CertaFlux SLM C 930 1302 L09 1515 G3
CertaFlux SLM C 935 1302 L09 1515 G3
CertaFlux SLM C 940 1302 L09 1515 G3
CertaFlux SLM C 950 1302 L09 1515 G3

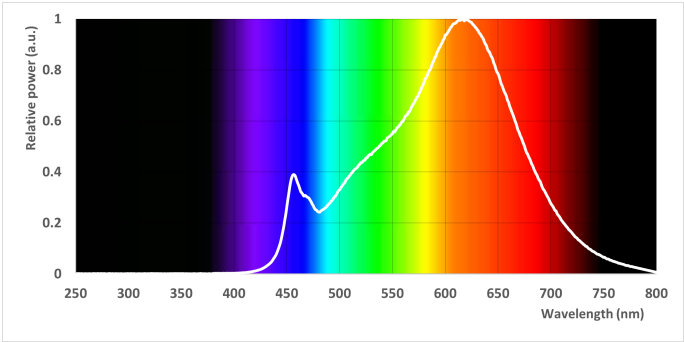
CCT	2700K	3000K	3500K	4000K	5000K	Unit
Luminous flux (Φuse)*	920	970	1010	1030	1040	lm
Efficacy	132	139	145	148	149	lm/W
Color consistency	3	3	3	3	3	SDCM
Color coordinates (CIEx, CIEy)	0.458, 0.410	0.434, 0.403	0.407, 0.392	0.382, 0.380	0.345, 0.355	
Min. CRI	90	90	90	90	90	
Min. R9	50	50	50	50	50	
Photometric 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 	D 	D 	

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.

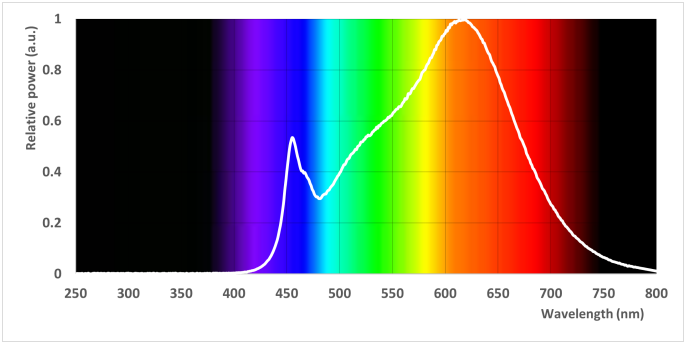
Tuning table

Operation Point		Current	2700K	3000K	3500K	4000K	5000K	Unit
Tc = 25°C	Luminous flux	80% I-nom 160mA	813	857	892	910	919	lm
		I-nom 200mA	1000	1055	1098	1120	1130	lm
		I-max 700mA	3011	3176	3308	3374	3408	lm
	Efficacy	80% I-nom 160mA	143	150	157	160	161	lm/W
		I-nom 200mA	141	149	155	158	159	lm/W
		I-max 700mA	113	119	124	127	128	lm/W
Tc = 85°C	Luminous flux	80% I-nom 160mA	749	789	822	838	846	lm
		I-nom 200mA	920	970	1010	1030	1040	lm
		I-max 700mA	2724	2875	2995	3056	3088	lm
	Efficacy	80% I-nom 160mA	136	143	149	152	154	lm/W
		I-nom 200mA	131	139	144	147	149	lm/W
		I-max 700mA	105	111	115	118	119	lm/W
Tc = 105°C	Luminous flux	80% I-nom 160mA	720	759	790	806	814	lm
		I-nom 200mA	884	932	971	990	1000	lm
		I-max 700mA	2595	2739	2854	2912	2943	lm
	Efficacy	80% I-nom 160mA	131	138	144	146	148	lm/W
		I-nom 200mA	128	135	141	143	145	lm/W
		I-max 700mA	101	106	111	113	114	lm/W

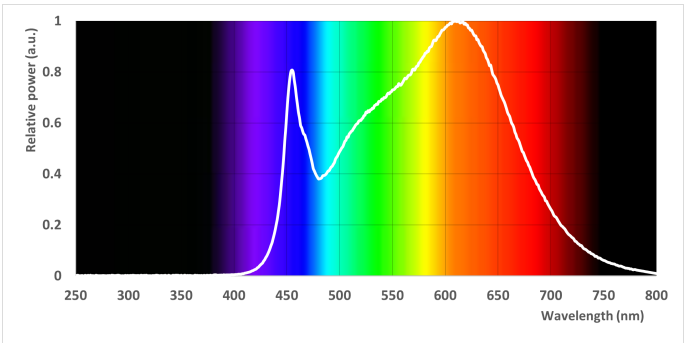
CRI90 2700K



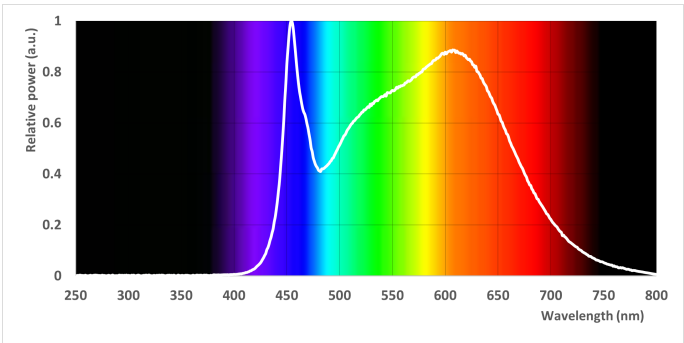
CRI90 3000K



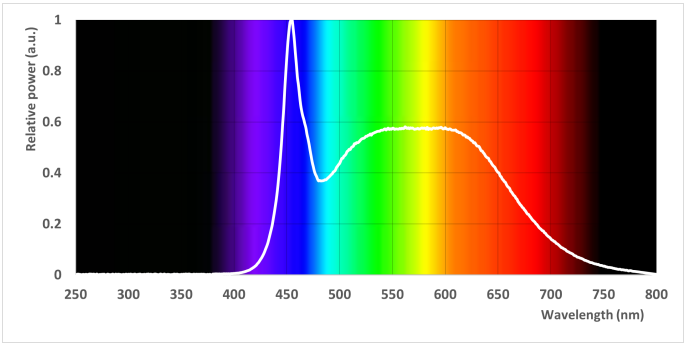
CRI90 3500K

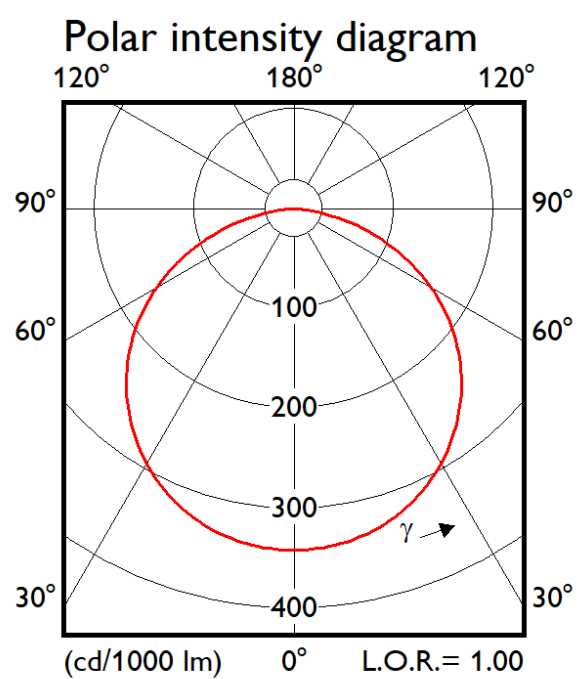


CRI90 4000K



CRI90 5000K





Electrical characteristics

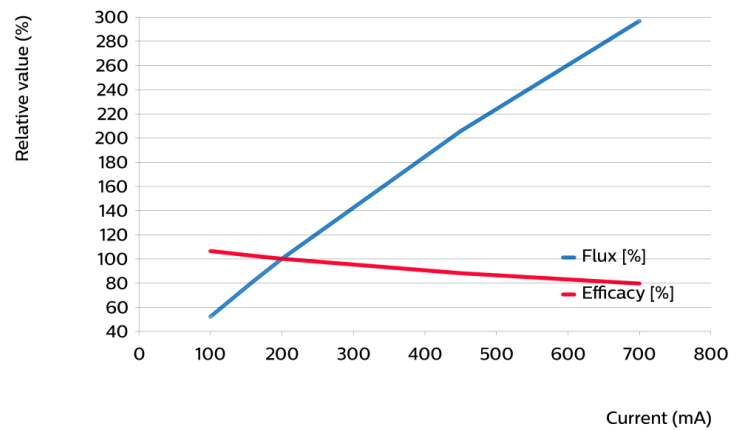
Parameter	Min	Typ	Max	Unit
Forward voltage	32.9	34.9	36.9	V
Power consumption		7.0		W = kWh/1000h
Number of modules in series per chain			1	
Number of modules in parallel			1	

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

Tuning information

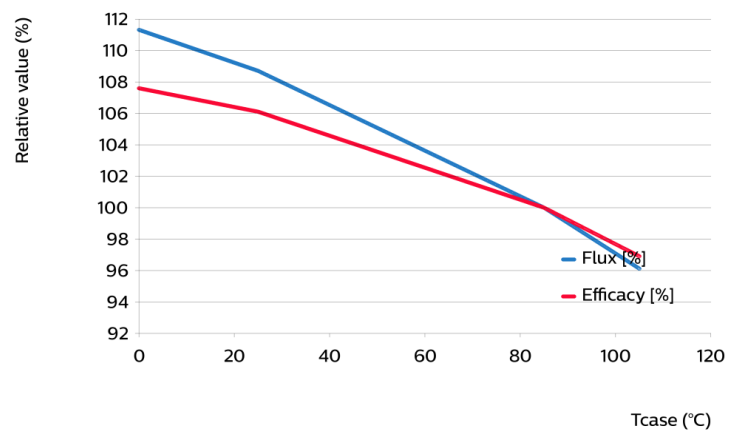
Flux and efficacy versus current (at Tc nominal)

I [mA]	Flux [%]	Efficacy [%]
700	297	80
450	206	88
200	100	100
160	81	102
100	52	106



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

Tc [°C]	Flux [%]	Efficacy [%]
105	96	97
85	100	100
25	109	106
0	111	108



Lumen maintenance

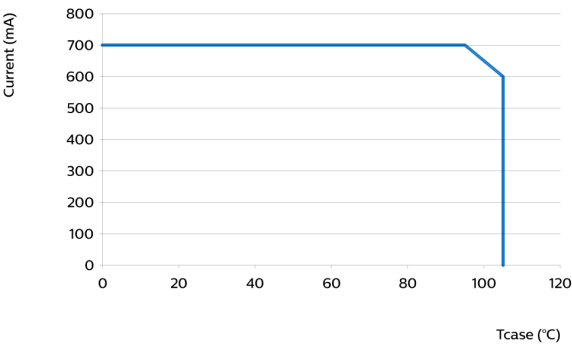
Operation point	Lumen maintenance x 1000 hours	L70			L80			L90		
		B50	B20	B10	B50	B20	B10	B50	B20	B10
80% Inom=160mA	Tc=75°C	>50	>50	>50	>50	>50	>50	>50	>50	>50
	Tc_nom=85°C	>50	>50	>50	>50	>50	>50	>50	>50	>50
	Tc_max=105°C	>50	>50	>50	>50	>50	>50	>50	>50	>50
Inom=200mA	Tc=75°C	>50	>50	>50	>50	>50	>50	>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=700mA	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

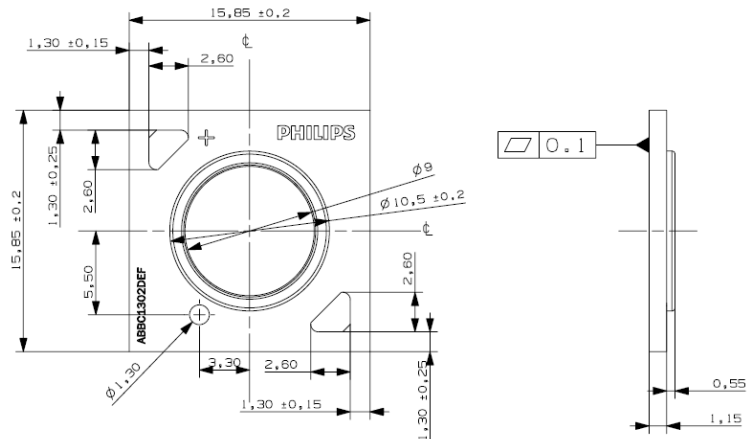
Parameter	Value	Unit
M70F50 nominal	>50000	hours

Performance Window



Mechanical characteristics

Parameter	Min	Typ	Max	Unit
Length	15.65	15.85	16.05	mm
Width	15.65	15.85	16.05	mm
Height Height PCB	1.05	1.15	1.25	mm
Height Height including dam	1.4	1.7	2	mm
Product mass		0.84		gram



Absolute ratings

Parameter	Min	Max	Unit
Current through the LED module (I-max)		700	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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