

PHILIPS

CertaFlux

LED system

DLM EaseSelect
1100 lm Gen1



Datasheet

Cost effective integration for downlight applications

EaseSelect DLM ES 1100 lm Gen1

CertaFlux DLM EaseSelect brings with it good performance in a cost effective driver on board (DoB) solution, delivering a high quality of light with low flicker. Having an integrated driver and the same mechanical footprint as existing DLM solutions (DLM Flex), enables easy and hassle free design-in.

Key features and benefits

- Low flicker
- Ease of design – in
- Cost-effective solution
- Efficacy of up to 90 lm/W
- Excellent color consistency of 3 SDCM
- Full portfolio with all typical downlight lumen packages (1100 lm, 2000 lm and 3000 lm) and different CCTs (3000 and 4000 K)

October 2015

This product is available in the following options. Please note that the ordering code includes the housing. It is possible to use these as a module (PCB + housing) only.

Ordering data

Commercial product name	12NC	EOC
Certaflux DLM ES 1100/830 G1	9290 009 97880	6947939 120963 00
Certaflux DLM ES 1100/840 G1	9290 009 97980	6947939 120987 00

Drive currents and case temperatures

Parameter	Nominal*	Life**	Max***	Unit
Tc (case temperature at Tc point)	70	60	85	°C

* Nominal value at which typical performance is specified.

** Value at which lifetime is specified.

*** Maximum value for safe operation; do not operate above this value.

Electrical characteristics

Parameter	Min	Typ	Max	Unit
Nominal Input Voltage		220-240		Vac
Nominal Input Frequency		50-60		Hz
Power @230 V AC 50 Hz		12		W
Power Factor @ 230 V AC 50 Hz		> 0.9		-
THD @ 220-240 V			43	%
Dimming		None		-

Specifications stated at Tc-nom and preset I.

Absolute maximum ratings

Parameter	Min	Typ	Max	Unit
Ambient temperature	-20	25	35	°C
Ambient Relative Humidity (non-condensing)	0		90	%
Storage temperature	-40		65	°C
Storage Relative Humidity (non-condensing)	5		95	%

Optical characteristics - table per color (CCT)

EaseSelect DLM ES 1100 lm 830

Parameter	Min	Typ	Max	Unit
Luminous Flux		1080		lm
Efficacy		95		lm/W
Correlated color temperature (CCT) range		3000		K
CRI	80			-
Energy Efficiency Label		A		-
Radiation Angle		90		deg

Color consistency of 3 SDCM, averaged over the module.

Tolerance for flux data is -10% - +20%.

Tolerance for Vf data is ±10%.

Tolerance for efficacy data is dependent on the above mentioned tolerances.

EaseSelect DLM ES 1100 lm 840

Parameter	Min	Typ	Max	Unit
Luminous Flux		1100		lm
Efficacy		102		lm/W
Correlated color temperature (CCT) range		4000		K
CRI	80			-
Energy Efficiency Label		A		-
Radiation Angle		90		deg

Color consistency of 3 SDCM, averaged over the module.

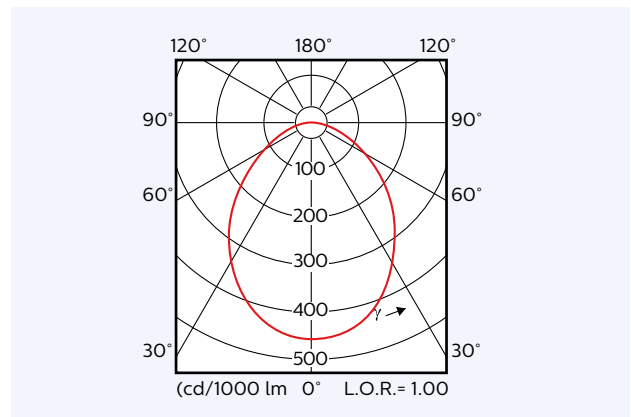
Tolerance for flux data is -10% - +20%.

Tolerance for Vf data is ±10%.

Tolerance for efficacy data is dependent on the above mentioned tolerances.

Beam shape

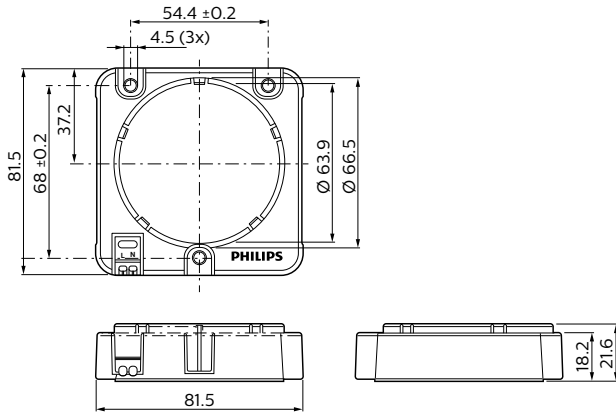
The Philips LED module generates a near Lambertian beam shape, which is a pragmatic starting point for OEMs wishing to design secondary optics.



Lifetime

Lumen depreciation in operating hours	L70B50 @ 50 Khrs @ Tc life=60 °C
Average operating time per year	4000 hours
Average number of on/off switching cycles over life time	3 cycles/day

Mechanical Characteristics



Wiring

Specification item	Value	Unit
Input wire cross-section	0.25-0.75	mm ²
	18-24	AWG
Input wire strip length	6-7	mm
Strain Relief	To be handled at luminaire level	

Application information

Compliance and approval

Approval marks: CE/ENEC

IEC/EN 62031, IEC/EN 62471, IEC/EN 61347-2-13, IEC/EN 62384, IEC 61000-3-3 :2008, IEC 61547 :2009

Environmental

ROHS, REACH

IP Rating	20 for Tc < 85 °C
Overheating protection	No Protection



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Data subject to change.