PHILIPS

CertaFlux

LED

CertaFlux DLM Slim 1000lm 6" G2

Datasheet

Plug and Play, easy to use downlight solution

CertaFlux DLM Slim 1000lm 6" G2

Certaflux DLM Slim G2 downlight module provides plug & play downlight solution with affordable cost but no sacrifice
on light quality. The module is integrated with optical and heatsink which help to make the product extremely easy to use. Optimized diffuser gives uniform light. The family is available from 600 lm - 2000lm with different cut out size in 4 CCTs. Certaflux DLM Slim is fully compatible with Philips recommended driver.

Key features and benefits

Integration with optics and heatsink makes it easy to use
High efficacy, up to 136lm/W @ module level
Full portfolio from 600lm - 2000lm, available in 830/840/850/865 CCT with 4" 6" 8"
Optimized diffuser provides good uniformity
2 years warranty

July 2021

Ordering data

Commercial product name	EOC	12NC	Box quantity
CertaFlux DLM Slim 1000lm 830 6" G2	6922341 945953 00	9290 033 90580	30
CertaFlux DLM Slim 1000lm 840 6" G2	6922341 945977 00	9290 033 90680	30
CertaFlux DLM Slim 1000lm 850 6" G2	6922341 945991 00	9290 033 90780	30
CertaFlux DLM Slim 1000lm 865 6" G2	6922341 946011 00	9290 033 90880	30

Drive currents

Parameter	Nominal*	Life**	Max***	Unit
CertaFlux DLM Slim 1000lm 6" G2	300	see performance window	600	mA

Module temperatures

Parameter	Nominal*	Life**	Max***	Unit
T_c (case temperature at T_c point)	50	see performance window	90	°C

* Nominal value at which typical performance is specified

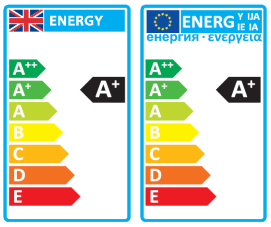
** Value at which life time is specified

*** Maximum value for safe operation, do not operate above this value

Optical characteristics - table per color (CCT)

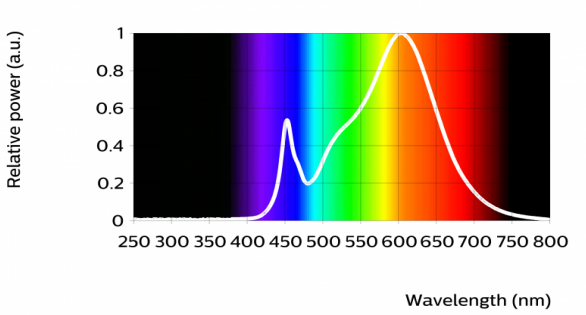
CertaFlux DLM Slim 1000lm 830 6" G2

Parameter	Min	Typ	Max	Unit
Luminous flux	1080	1200		lm
Module efficacy		121		lm/W
Correlated color temperature (CCT)		3000		K
Color coordinates (CIEx, CIEy)		(0.436, 0.403)		-
Color consistency			6	SDCM
CRI	80			
Photometric code		830/679		
Radiation angle		110		deg
Photobiological safety			RG1 unlimited	



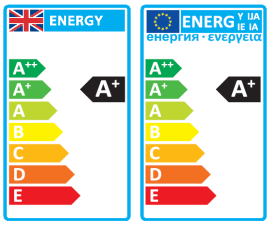
Measurement precision ± 5% for the flux data and ± 6% for the efficacy data. Measurement precision for color coordinates ± 0.005. Measurement precision for CRI ± 1.5.

Operation point	830	lm	lm/W
80% I-nom 240mA	Tc 25 °C	1030	131
	Tc-nom 50 °C	990	128
	Tc-max 90 °C	917	122
I-nom 300mA	Tc 25 °C	1273	128
	Tc-nom 50 °C	1200	121
	Tc-max 90 °C	1120	118
I-max 600mA	Tc 25 °C	2358	114
	Tc-nom 50 °C	2234	110
	Tc-max 90 °C	2012	101



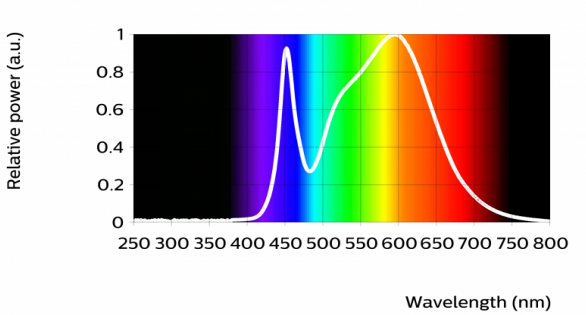
CertaFlux DLM Slim 1000lm 840 6" G2

Parameter	Min	Typ	Max	Unit
Luminous flux	1134	1260		lm
Module efficacy		127		lm/W
Correlated color temperature (CCT)		4000		K
Color coordinates (CIEx, CIEy)		(0.389, 0.385)		-
Color consistency			6	SDCM
CRI	80			
Photometric code		840/679		
Radiation angle		110		deg
Photobiological safety			RG1 unlimited	



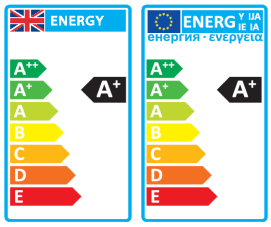
Measurement precision ± 5% for the flux data and ± 6% for the efficacy data. Measurement precision for color coordinates ± 0.005. Measurement precision for CRI ± 1.5.

Operation point	840	lm	lm/W
80% I-nom 240mA	Tc 25 °C	1065	135
	Tc-nom 50 °C	1023	132
	Tc-max 90 °C	948	126
I-nom 300mA	Tc 25 °C	1316	132
	Tc-nom 50 °C	1260	127
	Tc-max 90 °C	1158	121
I-max 600mA	Tc 25 °C	2438	118
	Tc-nom 50 °C	2310	113
	Tc-max 90 °C	2081	105



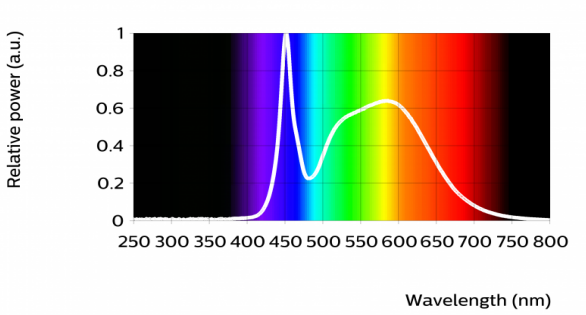
CertaFlux DLM Slim 1000lm 850 6" G2

Parameter	Min	Typ	Max	Unit
Luminous flux	1134	1260		lm
Module efficacy		127		lm/W
Correlated color temperature (CCT)		5000		K
Color coordinates (CIEx, CIEy)		(0.352, 0.360)		-
Color consistency			6	SDCM
CRI	80			
Photometric code		850/679		
Radiation angle		110		deg
Photobiological safety			RG1 unlimited	



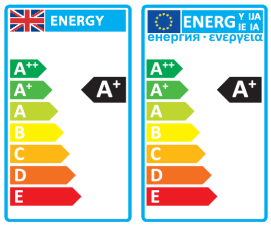
Measurement precision ± 5% for the flux data and ± 6% for the efficacy data. Measurement precision for color coordinates ± 0.005. Measurement precision for CRI ± 1.5.

Operation point	850	lm	lm/W
80% I-nom 240mA	Tc 25 °C	1065	135
	Tc-nom 50 °C	1023	132
	Tc-max 90 °C	948	126
I-nom 300mA	Tc 25 °C	1316	132
	Tc-nom 50 °C	1260	127
	Tc-max 90 °C	1158	121
I-max 600mA	Tc 25 °C	2438	118
	Tc-nom 50 °C	2310	113
	Tc-max 90 °C	2081	105



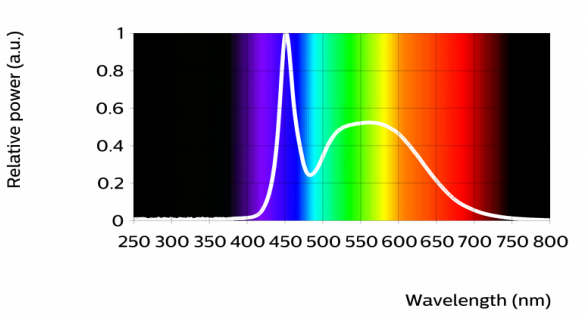
CertaFlux DLM Slim 1000lm 865 6" G2

Parameter	Min	Typ	Max	Unit
Luminous flux	1134	1260		lm
Module efficacy		127		lm/W
Correlated color temperature (CCT)		6500		K
Color coordinates (CIEx, CIEy)		(0.318, 0.337)		-
Color consistency			6	SDCM
CRI	80			
Photometric code		865/679		
Radiation angle		110		deg
Photobiological safety			RG1 unlimited	



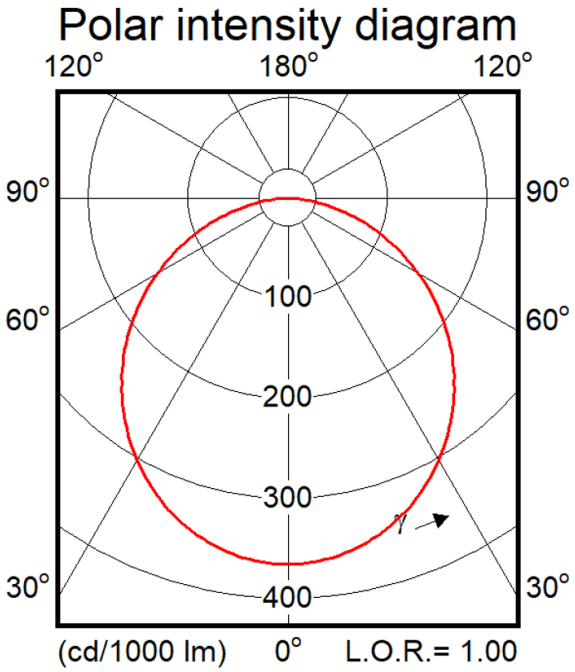
Measurement precision ± 5% for the flux data and ± 6% for the efficacy data. Measurement precision for color coordinates ± 0.005. Measurement precision for CRI ± 1.5.

Operation point	865	lm	lm/W
80% I-nom 240mA	Tc 25 °C	1065	135
	Tc-nom 50 °C	1023	132
	Tc-max 90 °C	948	126
I-nom 300mA	Tc 25 °C	1316	132
	Tc-nom 50 °C	1260	127
	Tc-max 90 °C	1158	121
I-max 600mA	Tc 25 °C	2438	118
	Tc-nom 50 °C	2310	113
	Tc-max 90 °C	2081	105



Beam shape

CertaFlux DLM Slim 1000lm 6" G2



Electrical characteristics

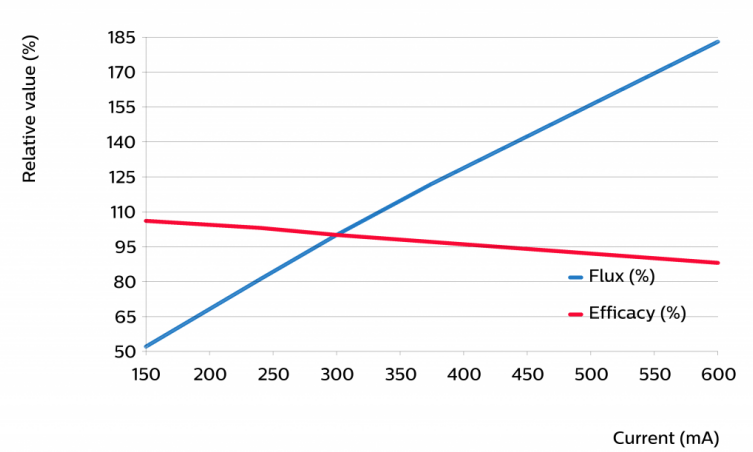
Parameter	Min	Typ	Max	Unit
Forward voltage	30.0	33.0	38.0	V
Power consumption	9.00	9.90	20.80	W = kWh/1000h
Number of modules in series per chain			1	
Number of modules in parallel			1	

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

Tuning information

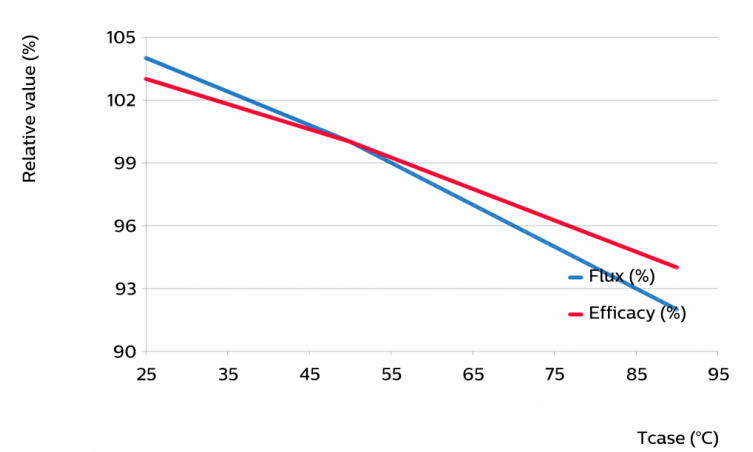
Flux and efficacy versus current (at Tc nominal)

I [mA]	Flux [%]	Efficacy [%]
600	183	88
375	122	97
300	100	100
240	81	103
150	52	106



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

Tc [°C]	Flux [%]	Efficacy [%]
90	92	94
70	96	97
50	100	100
25	104	103



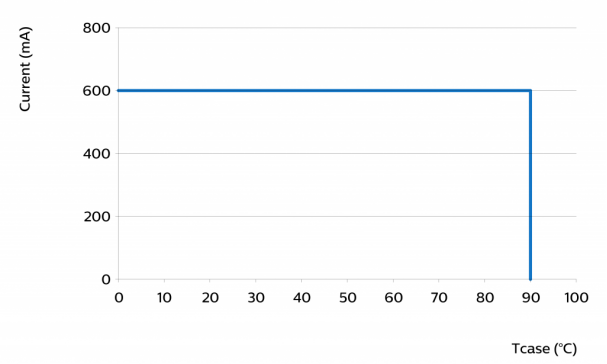
Lumen maintenance

Operation point	Lumen maintenance x 1000 hours	L70			L80			L90		
		B50	B20	B10	B50	B20	B10	B50	B20	B10
80% I nom 240mA	Tc nom 50°C	>25	>25	>25	>25	>25	>25	>25	>25	>25
	Tc 65°C	>25	>25	>25	>25	>25	>25	>25	>25	>25
	Tc max 90°C	>25	>25	>25	>25	>25	>25	>25	23	21
I nom 300mA	Tc nom 50°C	>25	>25	>25	>25	>25	>25	>25	>25	>25
	Tc 65°C	>25	>25	>25	>25	>25	>25	>25	>25	25
	Tc max 90°C	>25	>25	>25	>25	>25	>25	>25	21	20
I max 600mA	Tc nom 50°C	>25	>25	>25	>25	>25	>25	>25	>25	24
	Tc 65°C	>25	>25	>25	>25	>25	>25	>25	23	21
	Tc max 90°C	>25	>25	>25	>25	>25	>25	21	18	16

Lifetime

Parameter	Value	Unit
C10 at Tc life	>25000	hours
M70F50 nominal	>25000	hours

Performance Window



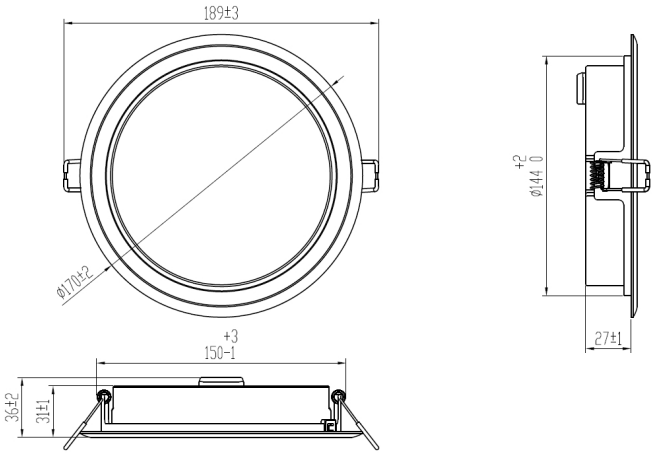
Wiring

Specification item	Value	Unit	Condition
Input wire cross-section	0.75...0.75	mm^2	solid, fused, stranded
	18...18	AWG	solid, fused, stranded
Input wire strip length	8...10	mm	

Stranded, Brown=Positive Blue=Negative

Mechanical characteristics

Parameter	Min	Typ	Max	Unit
Length	168	170	172	mm
Width	168	170	172	mm
Height	35	36	37	mm
Product mass		150		gram



Absolute ratings

Parameter	Min	Max	Unit
Current through the LED module (I-max)		600	mA
Case temperature (Tc-max)		90	℃
ESD (direct contact)		8	kV
Working voltage		60	V_{dc}
Ambient temperature	-20	35	℃
Storage temperature	-40	65	℃

Application information

Certificates and Standards
CB
CE
CQC
UKCA
IEC/EN 62031
GB 24819
IEC/TR 62778

Environmental
RoHS/REACH

Application	
IP rating	No IP rating
Overheating protection	No protection
Luminaire class	SELV input only
Dimming	Yes

UK importer address: 3 Guildford Business Park, GU2 8XG

30/07/2021

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