

PHILIPS

CertaFlux

LED

CertaFlux DLM Slim
600lm 4" G2



Datasheet

Plug and Play, easy to use downlight solution

CertaFlux DLM Slim 600lm 4" 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 134lm/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

June 2022



Ordering data

Commercial product name	EOC	12NC	EPREL registration #	Box quantity
CertaFlux DLM Slim 600lm 830 4" G2	6922341 945793 00	9290 033 89780	840073	30
CertaFlux DLM Slim 600lm 840 4" G2	6922341 945816 00	9290 033 89880	840084	30
CertaFlux DLM Slim 600lm 850 4" G2	6922341 945830 00	9290 033 89980	840086	30
CertaFlux DLM Slim 600lm 865 4" G2	6922341 945854 00	9290 033 90080	840087	30

Drive currents

Parameter	Nominal*	Life**	Max***	Unit
CertaFlux DLM Slim 600lm 4" G2	200	See performance window	300	mA

Module temperatures

Parameter	Nominal*	Life**	Max***	Unit
T _c (case temperature at T _c point)	55	See performance window	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

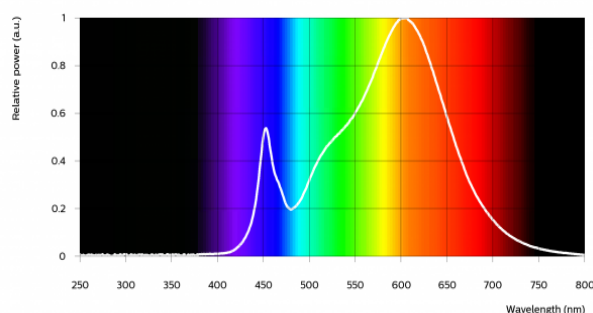
Optical characteristics - table per color (CCT)

CertaFlux DLM Slim 600lm 830 4" G2

Parameter	Min	Typ	Max	Unit
Luminous flux	630	670		lm
Efficacy		102		lm/W
Correlated color temperature (CCT)		3000		K
Color coordinates (CIEx, CIEy)		(0.433, 0.402)		-
Color consistency			6	SDCM
CRI	80			
Photometric code		830/689		
Photobiological safety			RG1 unlimited	

Measurement precision $\pm 5\%$ for the flux data and $\pm 6\%$ 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 160mA	Tc 25 °C	580	109
	Tc-nom 55 °C	549	105
	Tc-max 85 °C	515	101
I-nom 200mA	Tc 25 °C	711	106
	Tc-nom 55 °C	670	102
	Tc-max 85 °C	625	97
I-max 300mA	Tc 25 °C	1010	98
	Tc-nom 55 °C	946	93
	Tc-max 85 °C	874	88



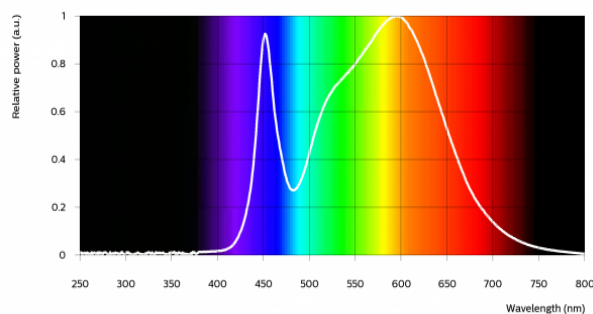
This product contains a light source of energy efficiency class F. EPREL model identifier: 929003389780LS. Registration number: 840073

CertaFlux DLM Slim 600lm 840 4" G2

Parameter	Min	Typ	Max	Unit
Luminous flux	648	690		lm
Efficacy		105		lm/W
Correlated color temperature (CCT)		4000		K
Color coordinates (CIEx, CIEy)		(0.387, 0.383)		-
Color consistency			6	SDCM
CRI	80			
Photometric code		840/689		
Photobiological safety			RG1 unlimited	

Measurement precision $\pm 5\%$ for the flux data and $\pm 6\%$ 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 160mA	Tc 25 °C	599	113
	Tc-nom 55 °C	567	109
	Tc-max 85 °C	532	104
I-nom 200mA	Tc 25 °C	735	109
	Tc-nom 55 °C	690	105
	Tc-max 85 °C	646	100
I-max 300mA	Tc 25 °C	1044	101
	Tc-nom 55 °C	978	96
	Tc-max 85 °C	904	91



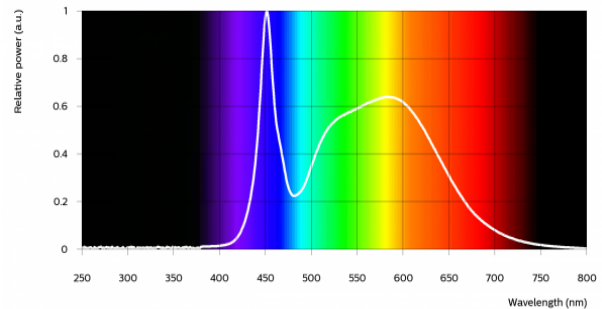
This product contains a light source of energy efficiency class F. EPREL model identifier: 929003389880LS. Registration number: 840084

CertaFlux DLM Slim 600lm 850 4" G2

Parameter	Min	Typ	Max	Unit
Luminous flux	648	690		lm
Efficacy		105		lm/W
Correlated color temperature (CCT)		5000		K
Color coordinates (CIEx, CIEy)		(0.351, 0.358)		-
Color consistency			6	SDCM
CRI	80			
Photometric code		850/689		
Photobiological safety			RG1 unlimited	

Measurement precision $\pm 5\%$ for the flux data and $\pm 6\%$ 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 160mA	Tc 25 °C	599	113
	Tc-nom 55 °C	567	109
	Tc-max 85 °C	532	104
I-nom 200mA	Tc 25 °C	735	109
	Tc-nom 55 °C	690	105
	Tc-max 85 °C	646	100
I-max 300mA	Tc 25 °C	1044	101
	Tc-nom 55 °C	978	96
	Tc-max 85 °C	904	91



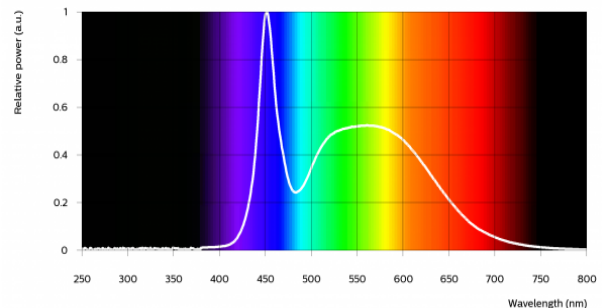
This product contains a light source of energy efficiency class F. EPREL model identifier: 929003389980LS. Registration number: 840086

CertaFlux DLM Slim 600lm 865 4" G2

Parameter	Min	Typ	Max	Unit
Luminous flux	648	690		lm
Efficacy		105		lm/W
Correlated color temperature (CCT)		6500		K
Color coordinates (CIEx, CIEy)		(0.316, 0.335)		-
Color consistency			6	SDCM
CRI	80			
Photometric code		865/689		
Photobiological safety			RG1 unlimited	

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

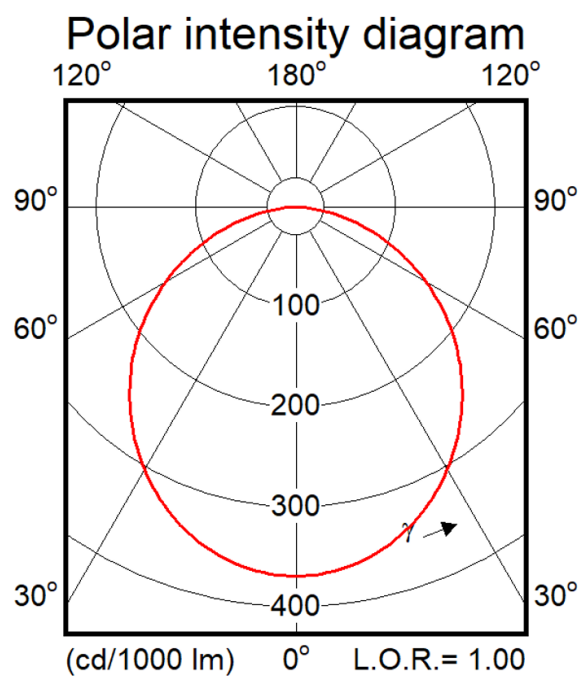
Operation point	865	lm	lm/W
80% I-nom 160mA	Tc 25 °C	599	113
	Tc-nom 55 °C	567	109
	Tc-max 85 °C	532	104
I-nom 200mA	Tc 25 °C	735	109
	Tc-nom 55 °C	690	105
	Tc-max 85 °C	646	100
I-max 300mA	Tc 25 °C	1044	101
	Tc-nom 55 °C	978	96
	Tc-max 85 °C	904	91



This product contains a light source of energy efficiency class F. EPREL model identifier: 929003390080LS. Registration number: 840087

Beam shape

CertaFlux DLM Slim 600lm 4" G2



Electrical characteristics

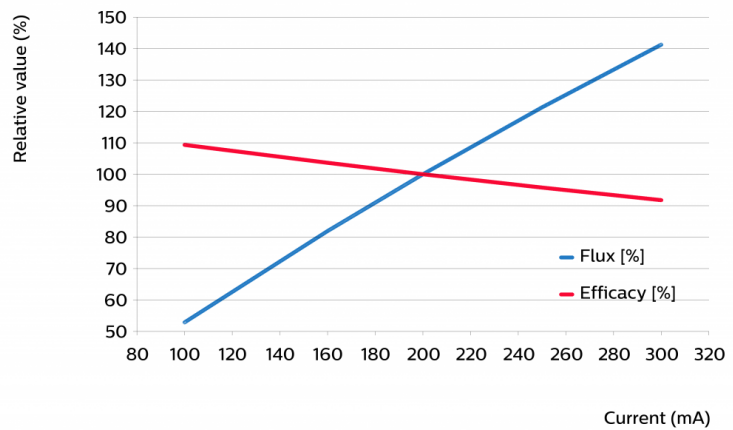
Parameter	Min	Typ	Max	Unit
Forward voltage	31.0	33.0	36.0	V
Power consumption	6.20	6.60	7.20	W = kWh/1000h
Number of modules in series per chain			1	
Number of modules in parallel			1	

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

Tuning information

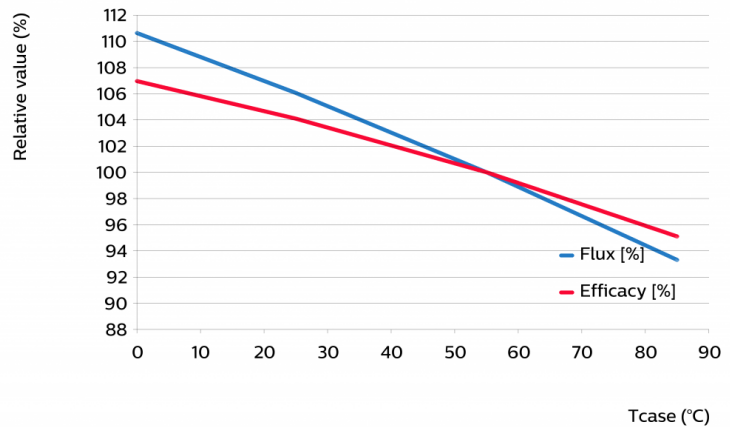
Flux and efficacy versus current (at Tc nominal)

I [mA]	Flux [%]	Efficacy [%]
300	141	92
250	121	96
200	100	100
160	82	104
100	53	109



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

Tc [°C]	Flux [%]	Efficacy [%]
85	93	95
55	100	100
25	106	104
0	111	107



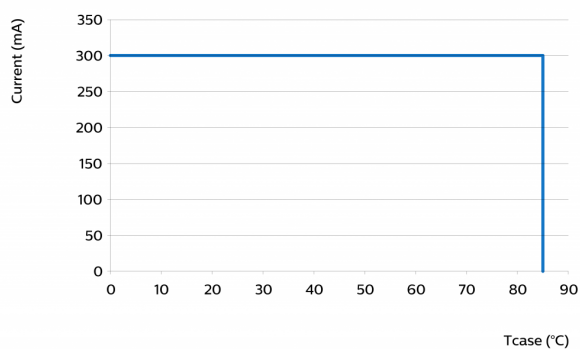
Lumen maintenance

Operation point	Lumen maintenance x 1000 hours	L70			L80			L90		
		B50	B20	B10	B50	B20	B10	B50	B20	B10
80% I nom 160mA	Tc nom 55°C	>30	>30	>30	>30	>30	>30	>30	30	27
	Tc 70°C	>30	>30	>30	>30	>30	>30	>30	26	23
	Tc max 85°C	>30	>30	>30	>30	>30	>30	26	22	20
I nom 200mA	Tc nom 55°C	>30	>30	>30	>30	>30	>25	>30	28	25
	Tc 70°C	>30	>30	>30	>30	>30	>30	29	24	22
	Tc max 85°C	>30	>30	>30	>30	>30	>30	25	21	19
I max 300mA	Tc nom 55°C	>30	>30	>30	>30	>30	>30	30	25	23
	Tc 70°C	>30	>30	>30	>30	>30	>30	26	22	20
	Tc max 85°C	>30	>30	>30	>30	>30	>30	22	19	17

Lifetime

Parameter	Value	Unit
C10 at Tc life	>30000	hours
M70F50 nominal	>30000	hours

Performance Window



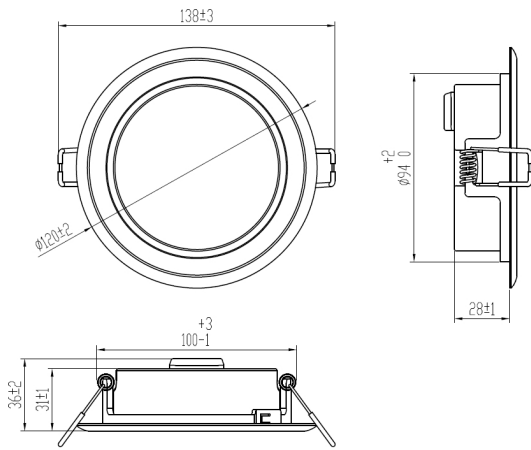
Wiring

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	118	120	122	mm
Width	118	120	12	mm
Height	35	36	37	mm
Product mass		83		gram



Absolute ratings

Parameter	Min	Max	Unit
Current through the LED module (I-max)		300	mA
Case temperature (Tc-max)		85	°C
ESD (direct contact)	8		kV
Working voltage		60	V _{dc}
Ambient temperature	-20	35	°C
Storage temperature	-40	65	°C

Application information

Certificates and Standards

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

Environmental

RoHS/REACH

Application

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



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