PHILIPS

CertaFlux

LED

CertaFlux DLM Slim 2000lm 8"

Datasheet

Plug and Play, easy to use downlight solution

CertaFlux DLM Slim 2000lm 8"

Certaflux DLM Slim 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

Integrated with optics and heatsink makes it easy to use
High efficacy, up to 126lm/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 2017

Ordering data

Commercial product name	12NC	Box quantity
CertaFlux DLM Slim 2000lm 830 8"	9290 014 44480	30
CertaFlux DLM Slim 2000lm 840 8"	9290 014 44580	30
CertaFlux DLM Slim 2000lm 850 8"	9290 014 44680	30
CertaFlux DLM Slim 2000lm 865 8"	9290 014 62680	30

Not all products are globally available by default.
Please contact your local Philips Lighting representative for local availability.

Drive currents

Parameter	Nominal*	Life**	Max***	Unit
CertaFlux DLM Slim 2000lm 8"	500	790	850	mA

Module temperatures

Parameter	Nominal*	Life**	Max***	Unit
T_c (case temperature at T_c point)	70	70	80	°C

* Nominal value at which typical performance is specified

** Value at which life time is specified

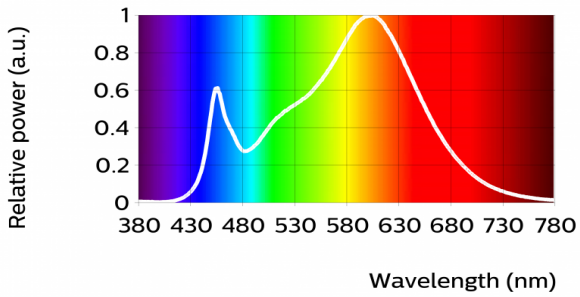
*** Maximum value for safe operation, do not operate above this value

Optical characteristics - table per color (CCT)

CertaFlux DLM Slim 2000lm 830 8"

Parameter	Min	Typ	Max	Unit
Luminous flux	1800	2000	2300	lm
Module efficacy		119		lm/W
Correlated color temperature (CCT)		3150		K
Color coordinates (CIEx, CIEy)		(0.426, 0.400)		-
Color consistency			6	SDCM
CRI	80			
Radiation angle		110		deg
Photobiological safety			RG1	

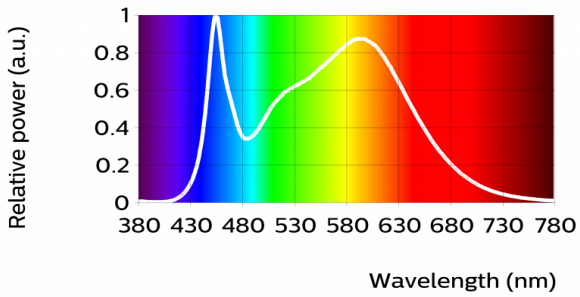
Measurement precision for flux +/- 5%.Measurement precision for efficacy +/- 6%. Measurement precision for x, y +/- 0.005. Measurement precision for CRI +/- 1.5



CertaFlux DLM Slim 2000lm 840 8"

Parameter	Min	Typ	Max	Unit
Luminous flux	1917	2130	2450	lm
Module efficacy		126		lm/W
Correlated color temperature (CCT)		4200		K
Color coordinates (CIEx, CIEy)		(0.376, 0.376)		-
Color consistency			6	SDCM
CRI	80			
Radiation angle		110		deg
Photobiological safety			RG1	

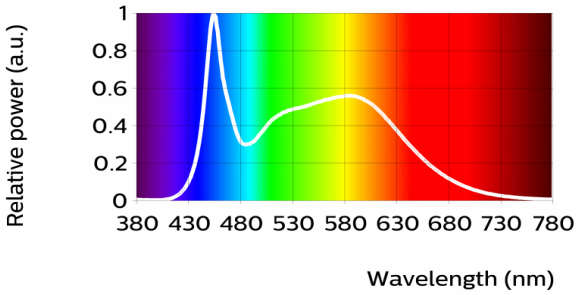
Measurement precision for flux +/- 5%.Measurement precision for efficacy +/- 6%. Measurement precision for x, y +/- 0.005. Measurement precision for CRI +/- 1.5



CertaFlux DLM Slim 2000lm 850 8"

Parameter	Min	Typ	Max	Unit
Luminous flux	1917	2130	2450	lm
Module efficacy		126		lm/W
Correlated color temperature (CCT)		5400		K
Color coordinates (CIEx, CIEy)		(0.335, 0.350)		-
Color consistency			6	SDCM
CRI	80			
Radiation angle		110		deg
Photobiological safety			RG1	

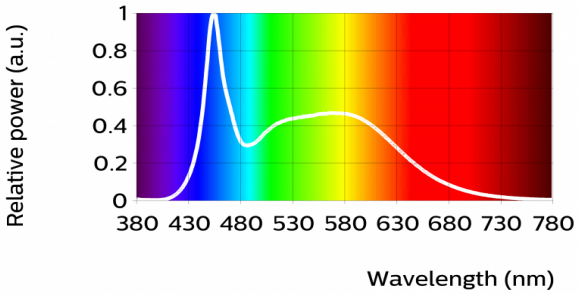
Measurement precision for flux +/- 5%.Measurement precision for efficacy +/- 6%. Measurement precision for x, y +/- 0.005. Measurement precision for CRI +/- 1.5



CertaFlux DLM Slim 2000lm 865 8"

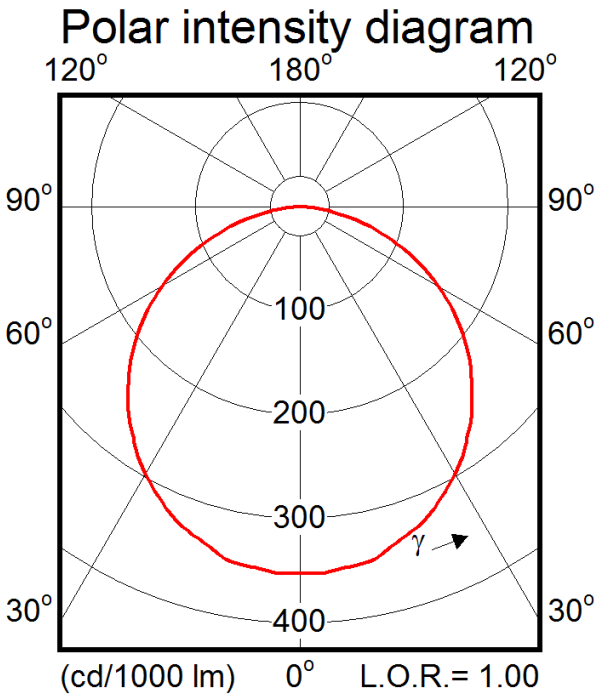
Parameter	Min	Typ	Max	Unit
Luminous flux	1917	2130	2450	lm
Module efficacy		126		lm/W
Correlated color temperature (CCT)		6600		K
Color coordinates (CIEx, CIEy)		(0.311, 0.326)		-
Color consistency			6	SDCM
CRI	80			
Radiation angle		110		deg
Photobiological safety			RG1	

Measurement precision for flux +/- 5%.Measurement precision for efficacy +/- 6%. Measurement precision for x, y +/- 0.005. Measurement precision for CRI +/- 1.5



Beam shape

CertaFlux DLM Slim 2000lm 8"



Electrical characteristics

CertaFlux DLM Slim 2000lm 830 8"
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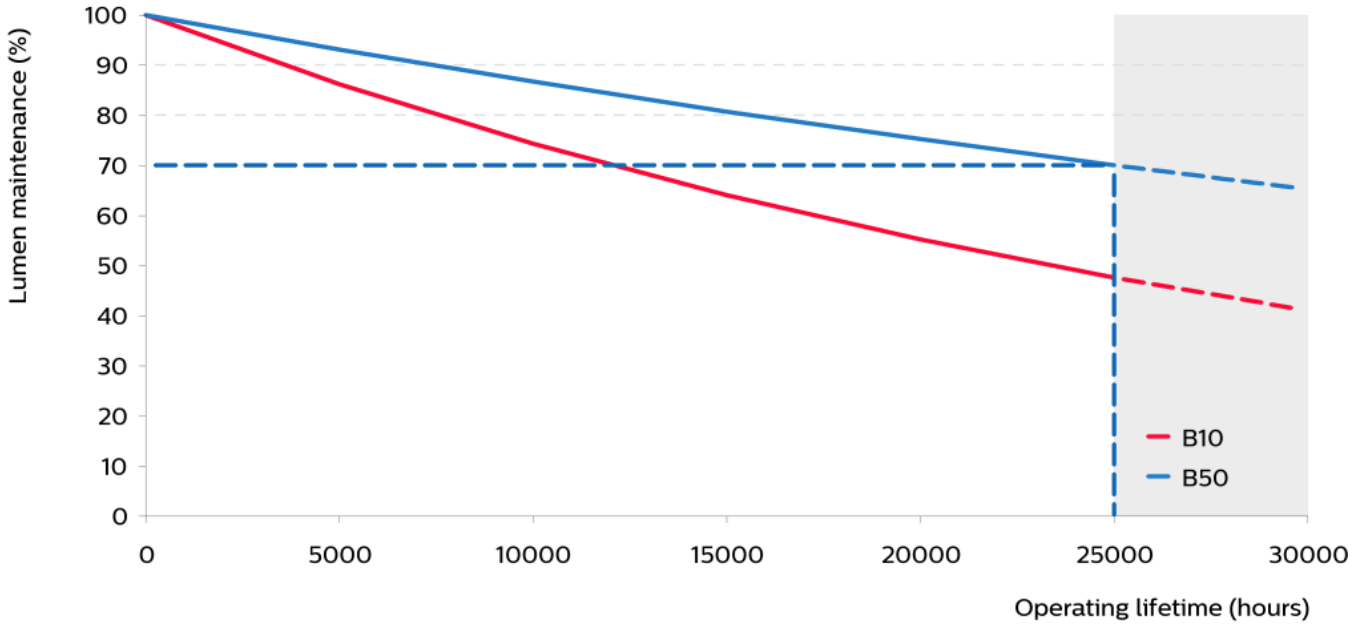
Parameter	Min	Typ	Max	Unit
Forward voltage		33.7	37.2	V
Power consumption		16.9	18.6	W
Number of modules in series per chain			1	
Number of modules in parallel per chain			1	

Measurement precision for Vf +/- 3%. Measurement precision for power +/- 3.3%.
No series or parallel connection allowed.

Lumen maintenance graphs

Lumen maintenance at I-life and Tc-life conditions



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	

Mechanical characteristics

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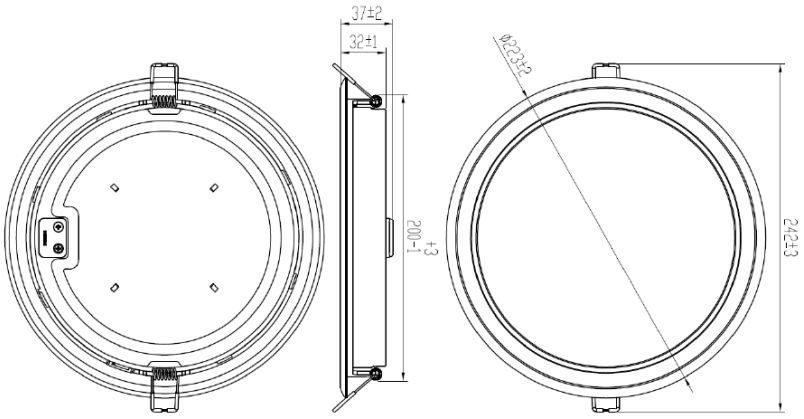
Parameter	Min	Typ	Max	Unit
Length	221	223	225	mm
Width	199	200	203	mm
Height	35	37	39	mm



Absolute ratings

Parameter	Min	Typ	Max	Unit
Current through the LED module (I-max)			850	mA
Case temperature (Tc-max)			80	°C
Power at rated Vf-max and I-max			32.6	W
ESD (direct contact)			8	kV
Ambient temperature	-20		35	°C
Storage temperature	-40		65	°C

Application information

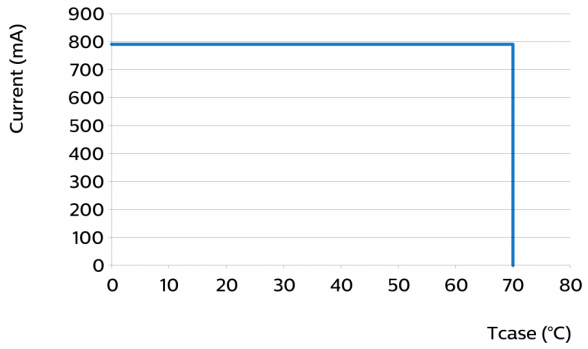
Certificates and Standards
CE/CB/CQC
IEC/EN 62031:2008 + A1:2013 + A2:2015, IEC TR 62778:2014, EN 55015:2013 + A1:2015, EN 61547:2009, EN 61000-3-2:2014, EN61000-3-3:2013, GB 19510.1-2009, GB 24819-2009

Environmental
RoHS/REACH

Application

IP rating	No IP-rating
Overheating protection	No
Luminaire class	IEC Class II
Dimming	Yes

Operating Window



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