

PHILIPS

CertaFlux

LED

CertaFlux DLM Slim
1000lm 4" G2



Datasheet

Plug and Play, easy to use downlight solution

CertaFlux DLM Slim 1000lm 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

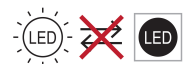
High efficacy, up to 134lm/W @ module level

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 1000lm 830 4" G2	6922341 945878 00	9290 033 90180	840088	30
CertaFlux DLM Slim 1000lm 840 4" G2	6922341 945892 00	9290 033 90280	840089	30
CertaFlux DLM Slim 1000lm 850 4" G2	6922341 945915 00	9290 033 90380	840090	30
CertaFlux DLM Slim 1000lm 865 4" G2	6922341 945939 00	9290 033 90480	840091	30

Drive currents

Parameter	Nominal*	Life**	Max***	Unit
CertaFlux DLM Slim 1000lm 4" G2	300	See performance window	400	mA

Module temperatures

Parameter	Nominal*	Life**	Max***	Unit
T _c (case temperature at T _c point)	65	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

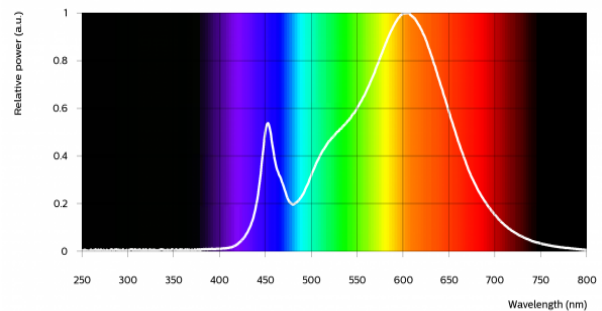
Optical characteristics - table per color (CCT)

CertaFlux DLM Slim 1000lm 830 4" G2

Parameter	Min	Typ	Max	Unit
Luminous flux	1008	1120		lm
Efficacy		113		lm/W
Correlated color temperature (CCT)		3000		K
Color coordinates (CIEx, CIEy)		(0.435, 0.400)		-
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 240mA	Tc 25 °C	967	123
	Tc-nom 65 °C	914	120
	Tc-max 90 °C	877	117
I-nom 300mA	Tc 25 °C	1195	121
	Tc-nom 65 °C	1120	113
	Tc-max 90 °C	1071	113
I-max 400mA	Tc 25 °C	1557	117
	Tc-nom 65 °C	1451	112
	Tc-max 90 °C	1376	108



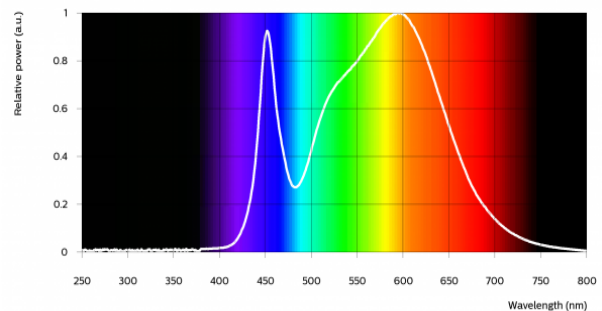
This product contains a light source of energy efficiency class F. EPREL model identifier: 929003390180LS. Registration number: 840088

CertaFlux DLM Slim 1000lm 840 4" G2

Parameter	Min	Typ	Max	Unit
Luminous flux	1035	1150		lm
Efficacy		116		lm/W
Correlated color temperature (CCT)		4000		K
Color coordinates (CIEx, CIEy)		(0.386, 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 240mA	Tc 25 °C	998	127
	Tc-nom 65 °C	943	124
	Tc-max 90 °C	905	121
I-nom 300mA	Tc 25 °C	1233	124
	Tc-nom 65 °C	1150	116
	Tc-max 90 °C	1105	117
I-max 400mA	Tc 25 °C	1607	120
	Tc-nom 65 °C	1498	115
	Tc-max 90 °C	1420	111



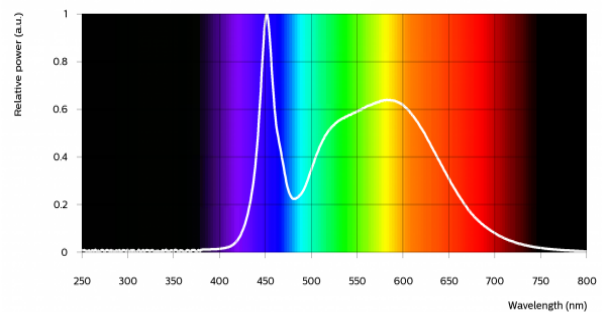
This product contains a light source of energy efficiency class F. EPREL model identifier: 929003390280LS. Registration number: 840089

CertaFlux DLM Slim 1000lm 850 4" G2

Parameter	Min	Typ	Max	Unit
Luminous flux	1035	1150		lm
Efficacy		116		lm/W
Correlated color temperature (CCT)		5000		K
Color coordinates (CIEx, CIEy)		(0.350, 0.360)		-
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 240mA	Tc 25 °C	998	127
	Tc-nom 65 °C	943	124
	Tc-max 90 °C	905	121
I-nom 300mA	Tc 25 °C	1233	124
	Tc-nom 65 °C	1150	116
	Tc-max 90 °C	1105	117
I-max 400mA	Tc 25 °C	1607	120
	Tc-nom 65 °C	1498	115
	Tc-max 90 °C	1420	111



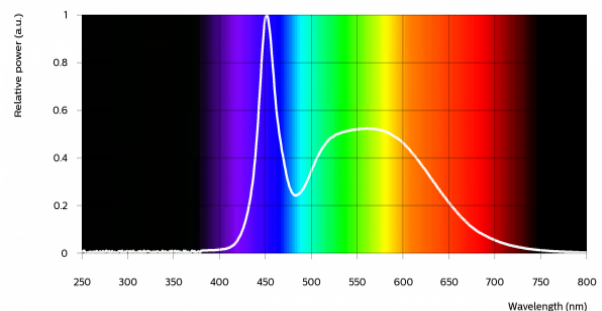
This product contains a light source of energy efficiency class F. EPREL model identifier: 929003390380LS. Registration number: 840090

CertaFlux DLM Slim 1000lm 865 4" G2

Parameter	Min	Typ	Max	Unit
Luminous flux	1035	1150		lm
Efficacy		116		lm/W
Correlated color temperature (CCT)		6500		K
Color coordinates (CIEx, CIEy)		(0.316, 0.334)		-
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 .

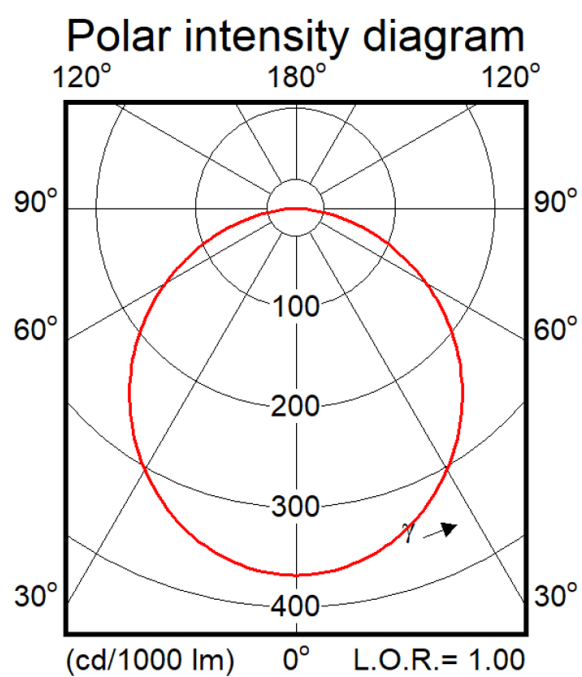
Operation point	865	lm	lm/W
80% I-nom 240mA	Tc 25 °C	998	127
	Tc-nom 65 °C	943	124
	Tc-max 90 °C	905	121
I-nom 300mA	Tc 25 °C	1233	124
	Tc-nom 65 °C	1150	116
	Tc-max 90 °C	1105	117
I-max 400mA	Tc 25 °C	1607	120
	Tc-nom 65 °C	1498	115
	Tc-max 90 °C	1420	111



This product contains a light source of energy efficiency class F. EPREL model identifier: 929003390480LS. Registration number: 840091

Beam shape

CertaFlux DLM Slim 1000lm 4" G2



Electrical characteristics

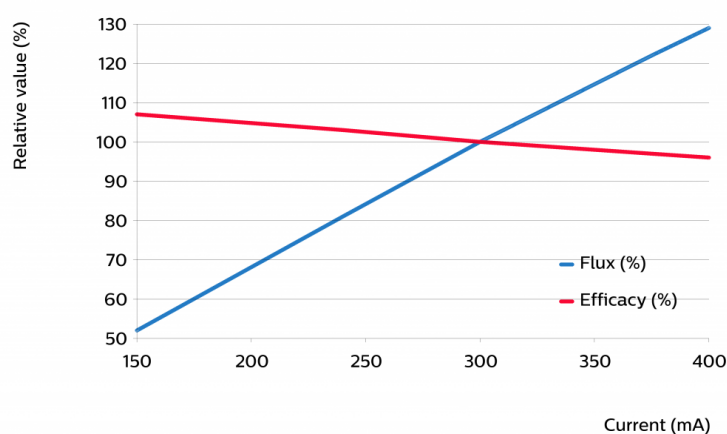
Parameter	Min	Typ	Max	Unit
Forward voltage	31.0	33.0	36.0	V
Power consumption	9.30	9.90	10.80	W = kWh/1000h
Number of modules in series per chain			1	
Number of modules in parallel			1	

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

Tuning information

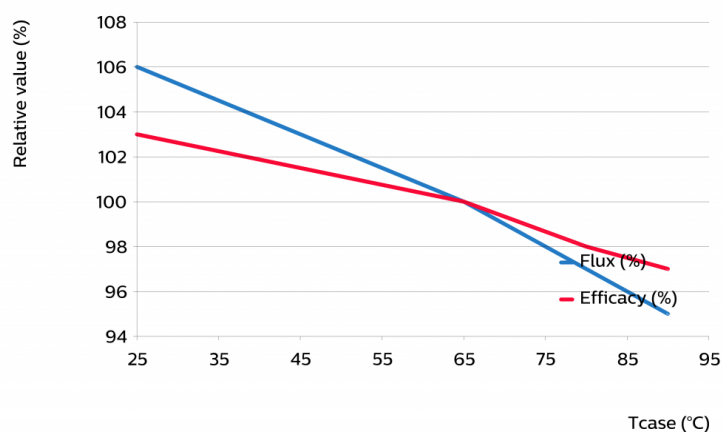
Flux and efficacy versus current (at Tc nominal)

I [mA]	Flux [%]	Efficacy [%]
400	129	96
375	122	97
300	100	100
240	81	103
150	52	107



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

Tc [°C]	Flux [%]	Efficacy [%]
90	95	97
80	97	98
65	100	100
25	106	103



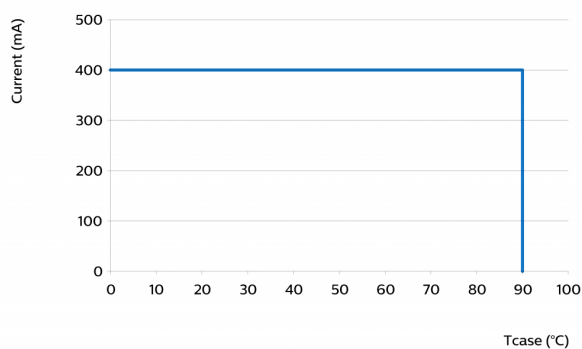
Lumen maintenance

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 65°C	>30	>30	>30	>30	>30	>30	>30	29	26
	Tc 80°C	>30	>30	>30	>30	>30	>30	29	25	22
	Tc max 90°C	>30	>30	>30	>30	>30	>30	27	22	21
I nom 300mA	Tc nom 65°C	>30	>30	>30	>30	>30	>30	>30	27	25
	Tc 80°C	>30	>30	>30	>30	>30	>30	28	23	21
	Tc max 90°C	>30	>30	>30	>30	>30	>30	25	21	19
I max 400mA	Tc nom 65°C	>30	>30	>30	>30	>30	>30	29	25	23
	Tc 80°C	>30	>30	>30	>30	>30	>30	25	21	19
	Tc max 90°C	>30	>30	>30	>30	>30	>30	23	19	18

Lifetime

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

Performance Window



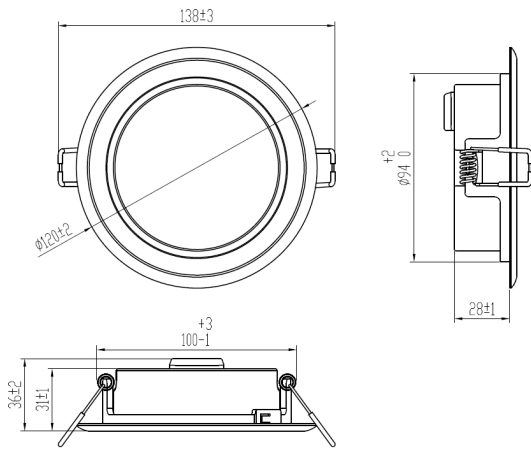
Wiring

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	122	mm
Height	35	36	37	mm
Product mass		83		gram



Absolute ratings

Parameter	Min	Max	Unit
Current through the LED module (I-max)		400	mA
Case temperature (Tc-max)		90	°C
ESD (direct contact)	8		kV
Working voltage		60	V _{dc}
Ambient temperature	-25	35	°C
Storage temperature	-40	65	°C

Application information

Certificates and Standards

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

Environmental

RoHS/REACH

Application

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



© 2022 Signify Holding, IBRS 10461, 5600VB, NL. All rights reserved. The information provided herein is subject to change, without notice. Signify does not give any representation or warranty as to the accuracy or completeness of the information included herein and shall not be liable for any action in reliance thereon. The information presented in this document is not intended as any commercial offer and does not form part of any quotation or contract, unless otherwise agreed by Signify.

www.philips.com/oem

Philips and the Philips Shield Emblem are registered trademarks of Koninklijke Philips N.V. All other trademarks are owned by Signify Holding or their respective owners.
UK importer address: Signify Commercial UK Limited, 3 Guildford Business Park, GU2 8XG

22/06/2022