Xitanium



Datasheet

CertaFlux DLM Slim 600lm 4" G2

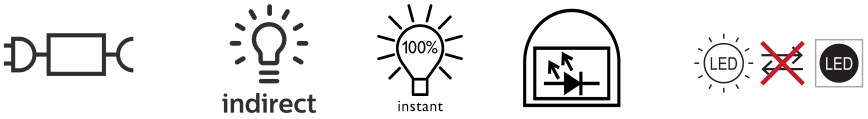
Plug and Play, easy to use downlight solution

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



Ordering data

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

CertaFlux DLM Slim 600lm 830 4" G2
CertaFlux DLM Slim 600lm 840 4" G2
CertaFlux DLM Slim 600lm 850 4" G2
CertaFlux DLM Slim 600lm 865 4" G2

	3000K	4000K	5000K	6500K	Unit
Luminous flux (Φuse)*	670	690	690	690	lm
Efficacy*	102	105	105	105	lm/W
Max. Color consistency	6	6	6	6	SDCM
Color coordinates (CIEx, CIEy)	0.433, 0.402	0.387, 0.383	0.351, 0.358	0.316, 0.335	
Min. CRI	80	80	80	80	
Photometric code	830/689	840/689	850/689	865/689	
Max. Photobiological safety	RG1 unlimited	RG1 unlimited	RG1 unlimited	RG1 unlimited	
Product contains light sources	F	F	F	F	

of energy class:

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

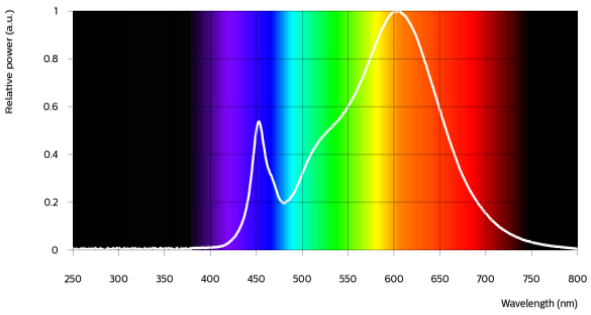
* Flux lower limit spec: -10% of typical. Luminous flux(Φuse) and Efficacy refer to Single Lighting Regulation (SLR).
9290 033 89780 contains light source EPREL model identifier: 929003389780LS. Registration number: 840073.
9290 033 89880 contains light source EPREL model identifier: 929003389880LS. Registration number: 840084.
9290 033 89980 contains light source EPREL model identifier: 929003389980LS. Registration number: 840086.
9290 033 90080 contains light source EPREL model identifier: 929003390080LS. Registration number: 840087.

Tuning table

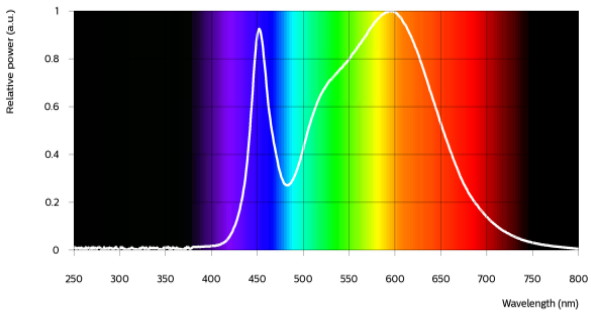
Operation Point		Current	3000K	4000K	5000K	6500K	Unit
Tc = 25°C	Luminous flux	80% I-nom 160mA	580	599	599	599	lm
		I-nom 200mA	711	735	735	735	lm
		I-max 300mA	1010	1044	1044	1044	lm
	Efficacy	80% I-nom 160mA	109	113	113	113	lm/W
		I-nom 200mA	106	109	109	109	lm/W
		I-max 300mA	98	101	101	101	lm/W
Tc = 55°C	Luminous flux	80% I-nom 160mA	549	567	567	567	lm
		I-nom 200mA	670	690	690	690	lm
		I-max 300mA	946	978	978	978	lm
	Efficacy	80% I-nom 160mA	105	109	109	109	lm/W
		I-nom 200mA	102	105	105	105	lm/W
		I-max 300mA	93	96	96	96	lm/W
Tc = 85°C	Luminous flux	80% I-nom 160mA	515	532	532	532	lm
		I-nom 200mA	625	646	646	646	lm
		I-max 300mA	874	904	904	904	lm
	Efficacy	80% I-nom 160mA	101	104	104	104	lm/W
		I-nom 200mA	97	100	100	100	lm/W
		I-max 300mA	88	91	91	91	lm/W

Spectral characteristics

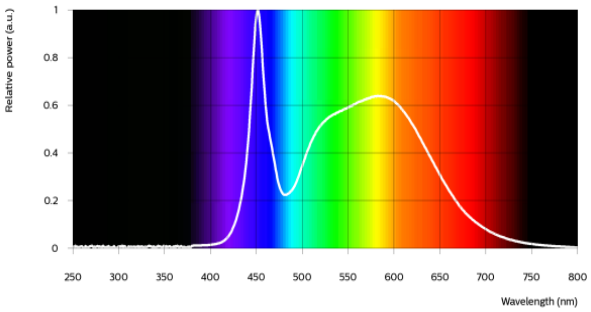
CRI80 3000K



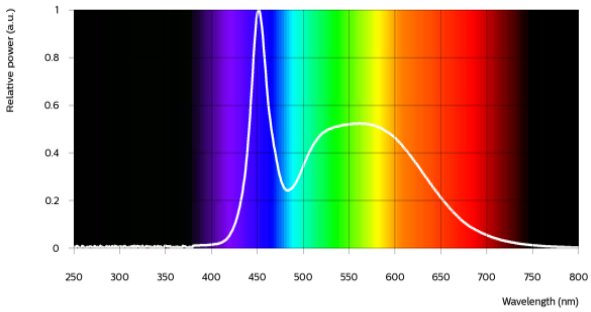
CRI80 4000K



CRI80 5000K

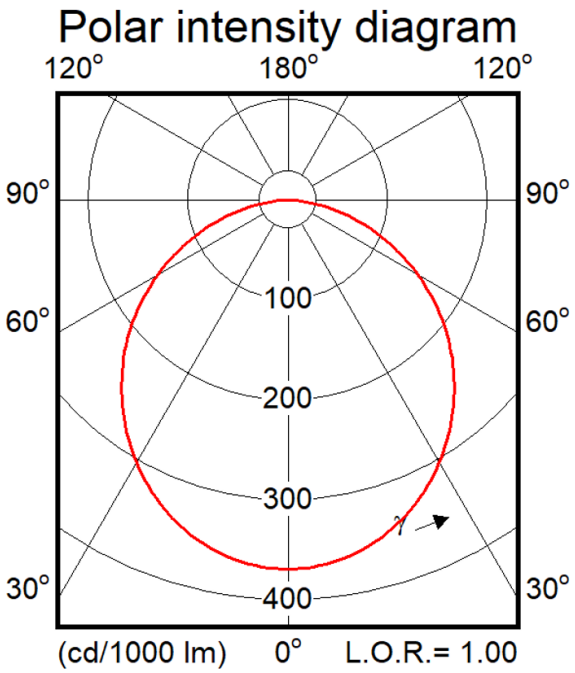


CRI80 6500K



Beam shape

CertaFlux DLM Slim 600lm 4" G2



Electrical characteristics

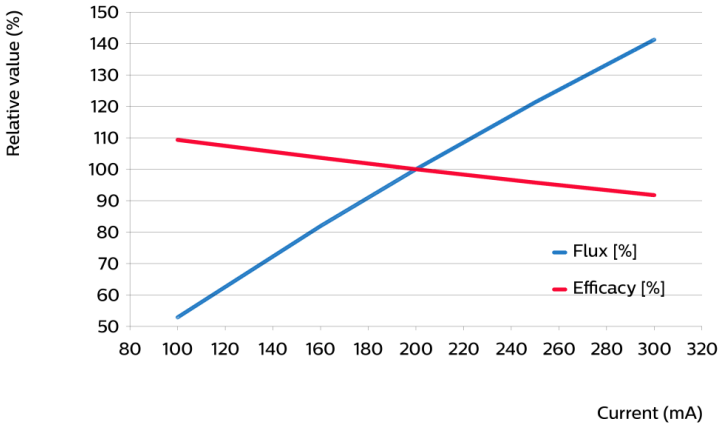
Parameter	Min	Typ	Max	Unit
Forward voltage	31.0	33.0	36.0	V
Power consumption	6.2	6.6	7.2	W = kWh/1000h
Number of modules in series per chain			1	
Number of modules in parallel			1	

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

Tuning information

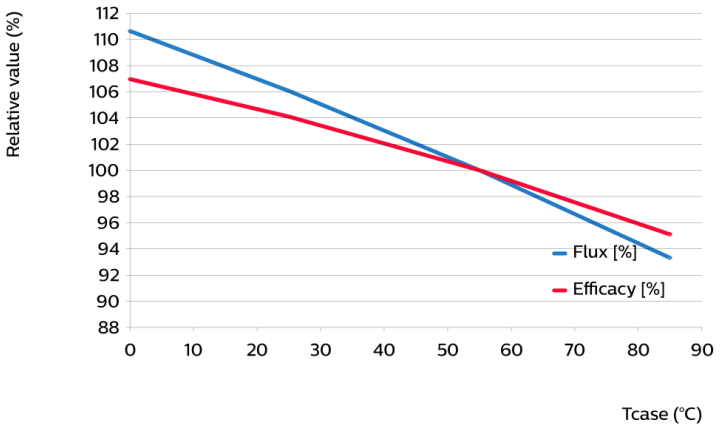
Flux and efficacy versus current (at Tc nominal)

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

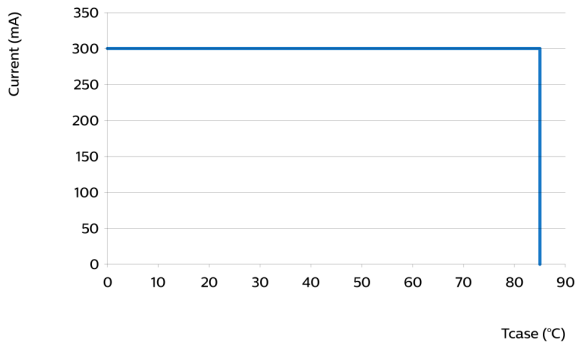
Operation point	Lumen maintenance x 1000 hours	L70 B50	L70 B20	L70 B10	L80 B50	L80 B20	L80 B10	L90 B50	L90 B20	L90 B10
80% I nom 160mA	Tc nom 55°C	>50	>50	>50	>50	>50	>50	35	30	27
	Tc 70°C	>50	>50	>50	>50	>50	>50	30	26	23
	Tc max 85°C	>50	>50	>50	>50	48	44	26	22	20
I nom 200mA	Tc nom 55°C	>50	>50	>50	>50	>50	>50	34	28	26
	Tc 70°C	>50	>50	>50	>50	>50	47	29	24	22
	Tc max 85°C	>50	>50	>50	>50	45	41	25	21	19
I max 300mA	Tc nom 55°C	>50	>50	>50	>50	>50	49	30	25	23
	Tc 70°C	>50	>50	>50	>50	46	43	26	22	20
	Tc max 85°C	>50	>50	>50	48	41	37	22	19	17

We use a Philips designed lifetime model, which uses LM80 data as only one of its inputs and assumes a continues operation of the module.
*B20 and B10 values are calculated by means of statistical techniques.

Lifetime

Parameter	Value	Unit
C10 at Tc life	>50000	hours
M70F50 nominal	>50000	hours

Performance Window



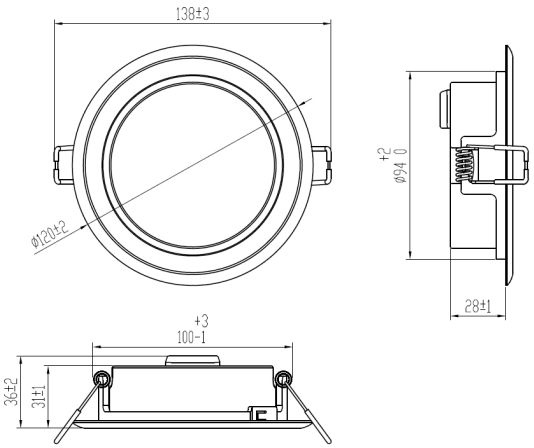
Wiring

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
CE
IEC/TR 62778
IEC/EN 62031
UKCA

Environmental
RoHS/REACH

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

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