

PHILIPS

CertaFlux

LED

CertaFlux DLM Slim
2000lm 8" G2



Datasheet

Plug and Play, easy to use downlight solution

CertaFlux DLM Slim 2000lm 8" 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 2000lm 830 8" G2	6922341 946110 00	9290 033 91380	840081	30
CertaFlux DLM Slim 2000lm 840 8" G2	6922341 946134 00	9290 033 91480	840082	30
CertaFlux DLM Slim 2000lm 850 8" G2	6922341 946158 00	9290 033 91580	840083	30
CertaFlux DLM Slim 2000lm 865 8" G2	6922341 946172 00	9290 033 91680	840085	30

Drive currents

Parameter	Nominal*	Life**	Max***	Unit
CertaFlux DLM Slim 2000lm 8" G2	500	See performance window	900	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

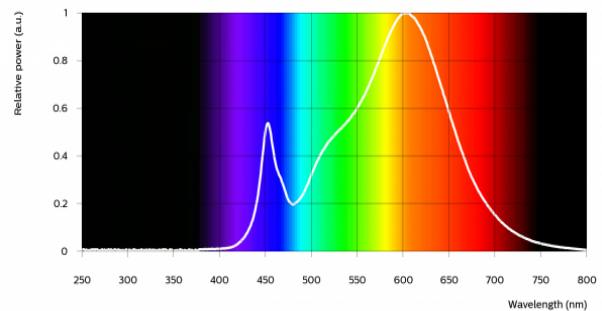
Optical characteristics - table per color (CCT)

CertaFlux DLM Slim 2000lm 830 8" G2

Parameter	Min	Typ	Max	Unit
Luminous flux	1935	2150		lm
Efficacy		130		lm/W
Correlated color temperature (CCT)		3000		K
Color coordinates (CIEx, CIEy)		(0.439, 0.404)		-
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 400mA	Tc 25 °C	1801	137
	Tc-nom 50 °C	1740	134
	Tc-max 90 °C	1631	130
I-nom 500mA	Tc 25 °C	2228	134
	Tc-nom 50 °C	2150	130
	Tc-max 90 °C	1998	126
I-max 900mA	Tc 25 °C	3810	123
	Tc-nom 50 °C	3643	120
	Tc-max 90 °C	3341	113



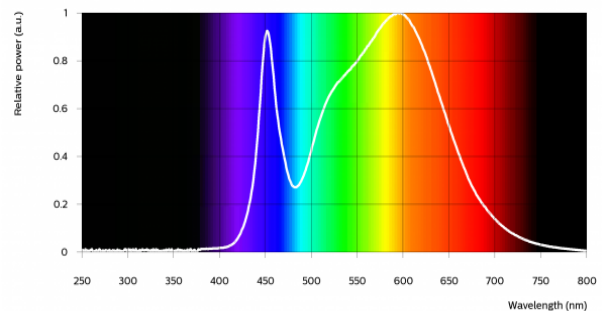
This product contains a light source of energy efficiency class E. EPREL model identifier: 929003391380LS. Registration number: 840081

CertaFlux DLM Slim 2000lm 840 8" G2

Parameter	Min	Typ	Max	Unit
Luminous flux	1989	2210		lm
Efficacy		134		lm/W
Correlated color temperature (CCT)		4000		K
Color coordinates (CIEx, CIEy)		(0.390, 0.386)		-
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 400mA	Tc 25 °C	1859	141
	Tc-nom 50 °C	1796	139
	Tc-max 90 °C	1684	134
I-nom 500mA	Tc 25 °C	2300	138
	Tc-nom 50 °C	2210	134
	Tc-max 90 °C	2062	130
I-max 900mA	Tc 25 °C	3933	127
	Tc-nom 50 °C	3761	124
	Tc-max 90 °C	3448	117



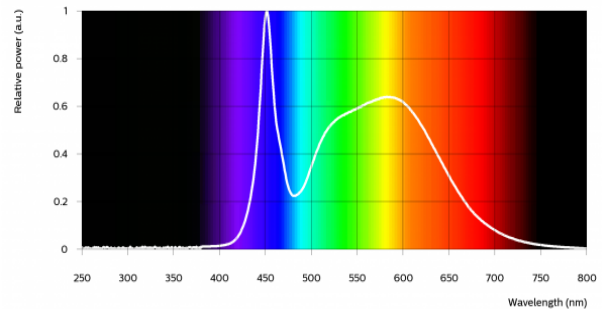
This product contains a light source of energy efficiency class E. EPREL model identifier: 929003391480LS. Registration number: 840082

CertaFlux DLM Slim 2000lm 850 8" G2

Parameter	Min	Typ	Max	Unit
Luminous flux	1989	2210		lm
Efficacy		134		lm/W
Correlated color temperature (CCT)		5000		K
Color coordinates (CIEx, CIEy)		(0.351, 0.361)		-
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 400mA	Tc 25 °C	1859	141
	Tc-nom 50 °C	1796	139
	Tc-max 90 °C	1684	134
I-nom 500mA	Tc 25 °C	2300	138
	Tc-nom 50 °C	2210	134
	Tc-max 90 °C	2062	130
I-max 900mA	Tc 25 °C	3933	127
	Tc-nom 50 °C	3761	124
	Tc-max 90 °C	3448	117



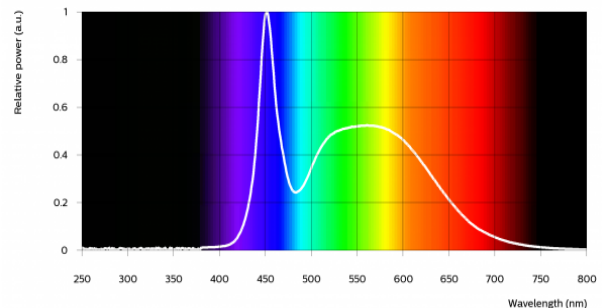
This product contains a light source of energy efficiency class E. EPREL model identifier: 929003391580LS. Registration number: 840083

CertaFlux DLM Slim 2000lm 865 8" G2

Parameter	Min	Typ	Max	Unit
Luminous flux	1989	2210		lm
Efficacy		134		lm/W
Correlated color temperature (CCT)		6500		K
Color coordinates (CIEx, CIEy)		(0.319, 0.338)		-
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 .

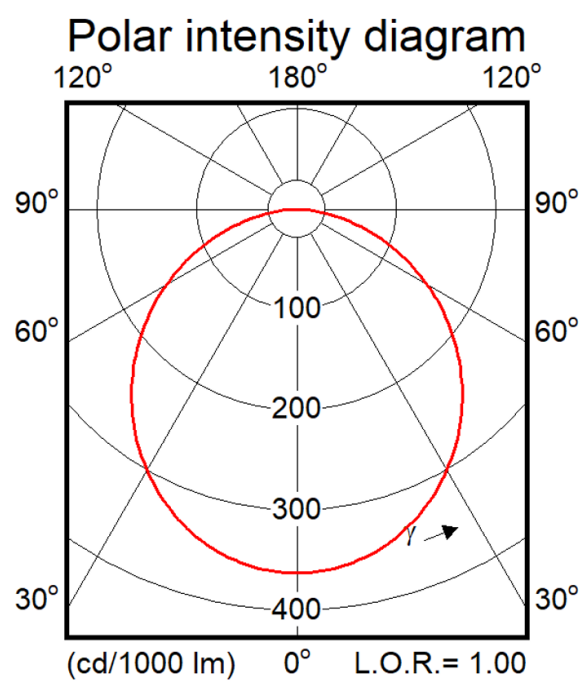
Operation point	865	lm	lm/W
80% I-nom 400mA	Tc 25 °C	1859	141
	Tc-nom 50 °C	1796	139
	Tc-max 90 °C	1684	134
I-nom 500mA	Tc 25 °C	2300	138
	Tc-nom 50 °C	2210	134
	Tc-max 90 °C	2062	130
I-max 900mA	Tc 25 °C	3933	127
	Tc-nom 50 °C	3761	124
	Tc-max 90 °C	3448	117



This product contains a light source of energy efficiency class E. EPREL model identifier: 929003391680LS. Registration number: 840085

Beam shape

CertaFlux DLM Slim 2000lm 8" G2



Electrical characteristics

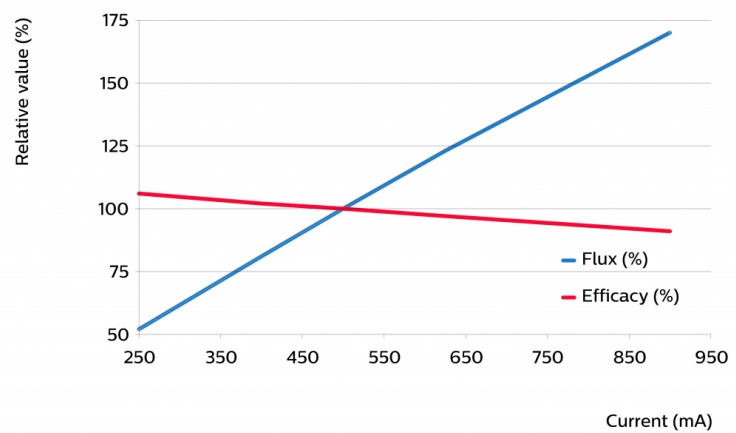
Parameter	Min	Typ	Max	Unit
Forward voltage	31.0	33.0	36.0	V
Power consumption	15.5	16.5	18.0	W = kWh/1000h
Number of modules in series per chain			1	
Number of modules in parallel			1	

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

Tuning information

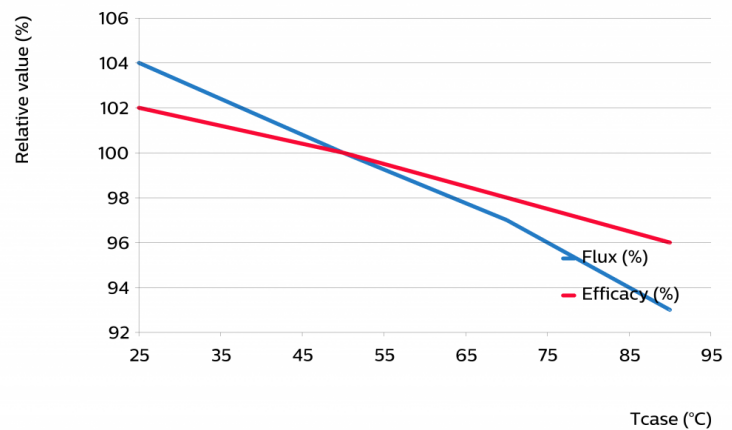
Flux and efficacy versus current (at Tc nominal)

I [mA]	Flux [%]	Efficacy [%]
900	170	91
625	123	97
500	100	100
400	81	102
250	52	106



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

Tc [°C]	Flux [%]	Efficacy [%]
90	93	96
70	97	98
50	100	100
25	104	102



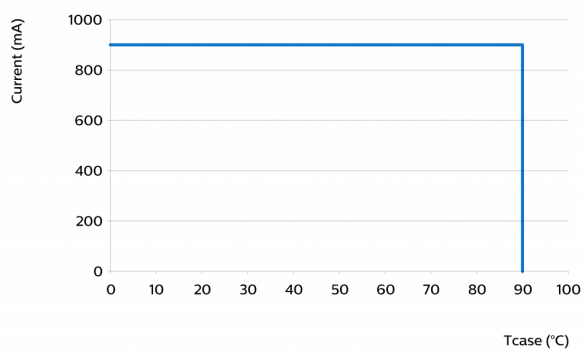
Lumen maintenance

Operation point	Lumen maintenance x 1000 hours	L70			L80			L90		
		B50	B20	B10	B50	B20	B10	B50	B20	B10
80% I nom 400mA	Tc nom 50°C	>30	>30	>30	>30	>30	>30	>30	>30	>30
	Tc 65°C	>30	>30	>30	>30	>30	>30	>30	29	27
	Tc max 90°C	>30	>30	>30	>30	>30	>30	27	23	21
I nom 500mA	Tc nom 50°C	>30	>30	>30	>30	>30	>30	>30	>30	29
	Tc 65°C	>30	>30	>30	>30	>30	>30	>30	28	25
	Tc max 90°C	>30	>30	>30	>30	>30	>30	26	22	20
I max 900mA	Tc nom 50°C	>30	>30	>30	>30	>30	>30	>30	28	25
	Tc 65°C	>30	>30	>30	>30	>30	>30	28	24	22
	Tc max 90°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



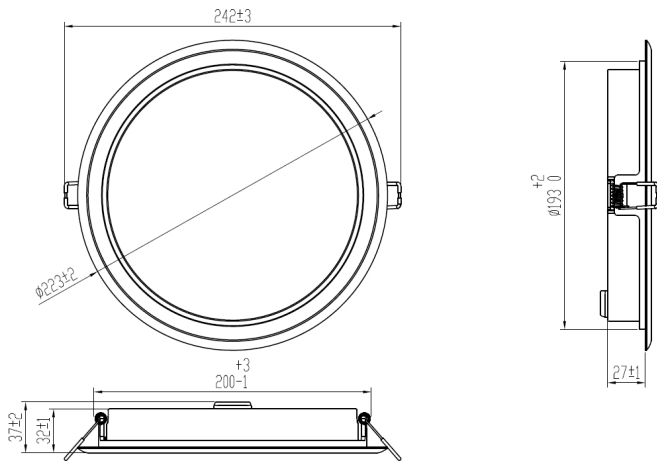
Wiring

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	221	223	225	mm
Width	221	223	225	mm
Height	35.5	36.5	37.5	mm
Product mass		250		gram



Absolute ratings

Parameter	Min	Max	Unit
Current through the LED module (I-max)		900	mA
Case temperature (Tc-max)		90	°C
ESD (air)	8		kV
Working voltage		60	V _{dc}
Ambient temperature	-20	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



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