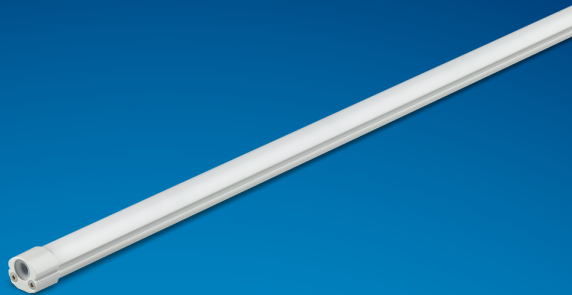


PHILIPS

CertaFlux

LED

CertaFlux RDL canopy G1



Datasheet

CertaFlux RDL LED system

Key features and benefits

- Lowest Total Cost of Ownership with rapid payback times
- Efficacy up to 120 lm/W for canopy lighting
- Choice of color temperatures 3000 K, 4000 K, Meat Color
- Natural merchandise color with specially formulated CRI >80 LEDs
- Led engine lengths optimized to standard lengths optimized for the application
- Plug and play system for easy and fast assembly
- Miniaturized slim design for aesthetic integration
- Built-in lens provides bright illumination for attractive merchandising
- Enhanced safety with 24 V supply (Safety Extra Low Voltage – SELV)
- Virtually maintenance-free due to long life-time: >50,000 hours
- True System proposition with Philips Constant Voltage LED power drivers and accessories
- Five year system warranty

September 2021



indirect



instant

Ordering data

Commercial product name	EOC	12NC	Box quantity
CertaFlux RDL canopy 575mm 830 G1	8718699 620660 00	9290 016 67406	24
CertaFlux RDL canopy 575mm 840 G1	8718699 620707 00	9290 016 68006	24
CertaFlux RDL canopy 575mm MC G1	8718699 620721 00	9290 016 68306	24
CertaFlux RDL canopy 855mm 830 G1	8718699 621421 00	9290 016 67506	24
CertaFlux RDL canopy 855mm 840 G1	8718699 620981 00	9290 016 68106	24
CertaFlux RDL canopy 855mm MC G1	8718699 621001 00	9290 016 68406	24
CertaFlux RDL canopy 1150mm 830 G1	8718699 620820 00	9290 016 67606	24
CertaFlux RDL canopy 1150mm 840 G1	8718699 620868 00	9290 016 68206	24
CertaFlux RDL canopy 1150mm MC G1	8718699 620882 00	9290 016 68506	24

Drive currents

Parameter	Nominal*	Life**	Max***	Unit
CertaFlux RDL canopy G1	800	1050	1150	mA

Module temperatures

Parameter	Nominal*	Life**	Max***	Unit
T _c (case temperature at T _c point)	45	65	75	°C

* Nominal value at which typical performance is specified

** Value at which life time is specified

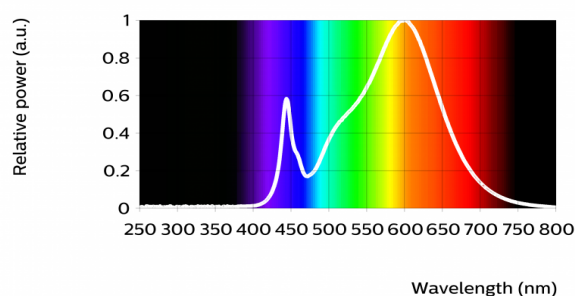
*** Maximum value for safe operation, do not operate above this value

Optical characteristics - table per color (CCT)

CertaFlux RDL canopy 575mm 830 G1

Parameter	Min	Typ	Max	Unit
Luminous flux	900	1000	1200	lm
Correlated color temperature (CCT)		3000		K
Color coordinates (CIEx, CIEy)		(0.435, 0.407)		-
Color consistency			5	SDCM
CRI		80		
Photobiological safety			RG1 unlimited	

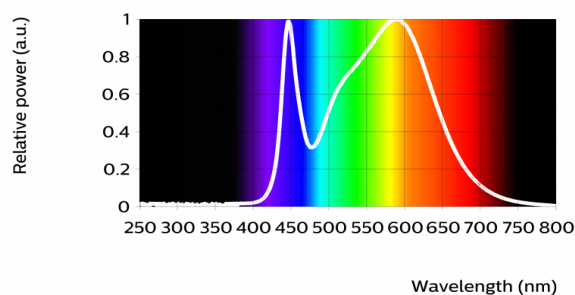
Measurement precision for flux +/- 5%, for efficacy +/- 6%., for x, y +/- 0.005, for CRI +/- 1.5



CertaFlux RDL canopy 575mm 840 G1

Parameter	Min	Typ	Max	Unit
Luminous flux	900	1000	1200	lm
Correlated color temperature (CCT)		4000		K
Color coordinates (CIEx, CIEy)		(0.382, 0.382)		-
Color consistency			5	SDCM
CRI		80		
Photobiological safety			RG1 unlimited	

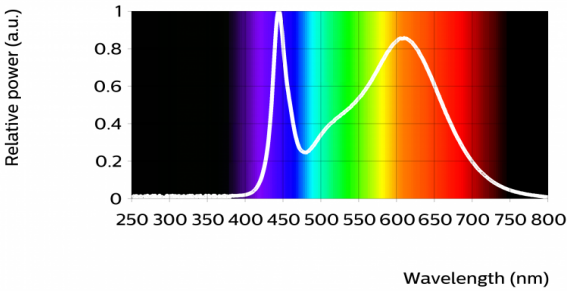
Measurement precision for flux +/- 5%, for efficacy +/- 6%., for x, y +/- 0.005, for CRI +/- 1.5



CertaFlux RDL canopy 575mm MC G1

Parameter	Min	Typ	Max	Unit
Luminous flux	630	700	840	lm
Color coordinates (CIEx, CIEy)		(0.391, 0.334)		-
Color consistency			5	SDCM
CRI	80			
Photobiological safety			RG1 unlimited	

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

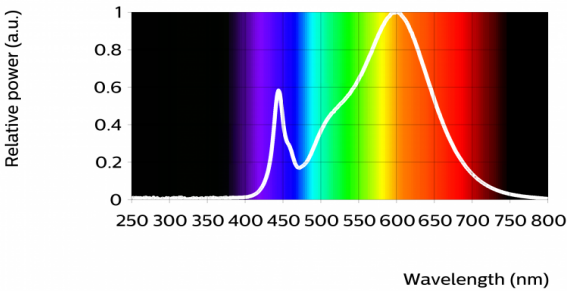


CertaFlux RDL canopy 855mm 830 G1

Parameter	Min	Typ	Max	Unit
Luminous flux	1350	1500	1800	lm
Correlated color temperature (CCT)		3000		K
Color coordinates (CIEx, CIEy)		(0.435, 0.407)		-
Color consistency			5	SDCM
CRI	80			
Photobiological safety			RG1 unlimited	



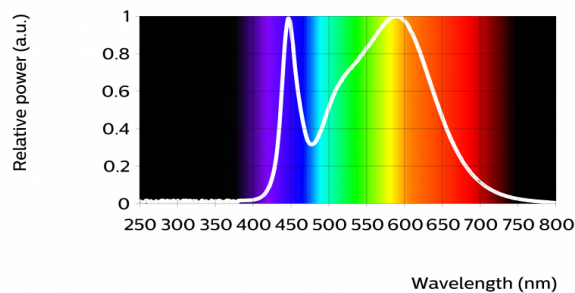
Measurement precision for flux +/- 5%, for efficacy +/- 6%., for x, y +/- 0.005, for CRI +/- 1.5



CertaFlux RDL canopy 855mm 840 G1

Parameter	Min	Typ	Max	Unit
Luminous flux	1350	1500	1800	lm
Correlated color temperature (CCT)		4000		K
Color coordinates (CIEx, CIEy)		(0.382, 0.382)		-
Color consistency			5	SDCM
CRI	 80			
Photobiological safety			RG1 unlimited	

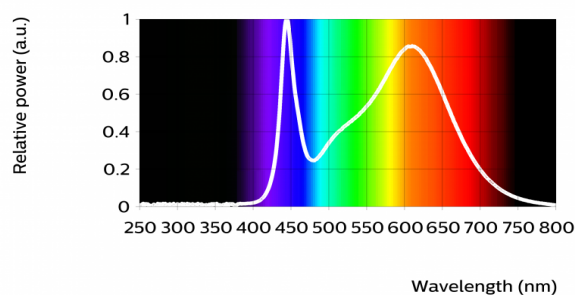
Measurement precision for flux +/- 5%, for efficacy +/- 6%., for x, y +/- 0.005, for CRI +/- 1.5



CertaFlux RDL canopy 855mm MC G1

Parameter	Min	Typ	Max	Unit
Luminous flux	945	1050	1260	lm
Color coordinates (CIEx, CIEy)		(0.391, 0.334)		-
Color consistency			5	SDCM
CRI	80			
Photobiological safety			RG1 unlimited	

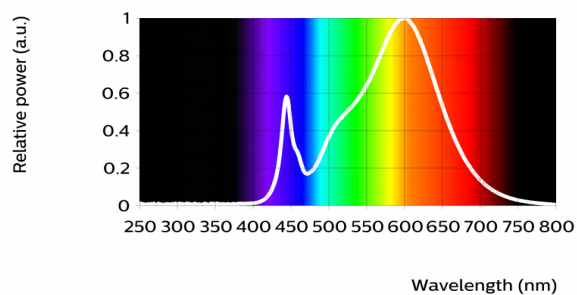
Measurement precision for flux +/- 5%, for efficacy +/- 6%., for x, y +/- 0.005, for CRI +/- 1.5



CertaFlux RDL canopy 1150mm 830 G1

Parameter	Min	Typ	Max	Unit
Luminous flux	1800	2000	2400	lm
Correlated color temperature (CCT)		3000		K
Color coordinates (CIEx, CIEy)		(0.435, 0.407)		-
Color consistency			5	SDCM
CRI	 80			
Photobiological safety			RG1 unlimited	

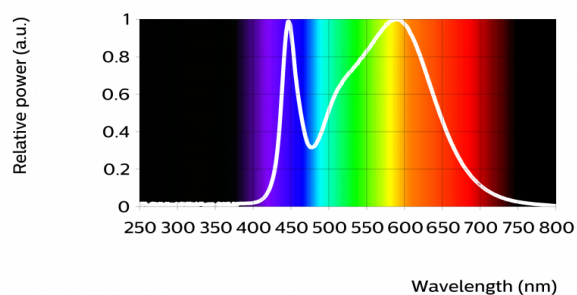
Measurement precision for flux +/- 5%, for efficacy +/- 6%., for x, y +/- 0.005, for CRI +/- 1.5



CertaFlux RDL canopy 1150mm 840 G1

Parameter	Min	Typ	Max	Unit
Luminous flux	1800	2000	2400	lm
Correlated color temperature (CCT)		4000		K
Color coordinates (CIEx, CIEy)		(0.382, 0.382)		-
Color consistency			5	SDCM
CRI	 80			
Photobiological safety			RG1 unlimited	

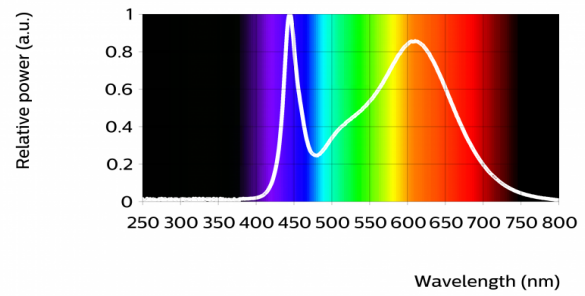
Measurement precision for flux +/- 5%, for efficacy +/- 6%., for x, y +/- 0.005, for CRI +/- 1.5

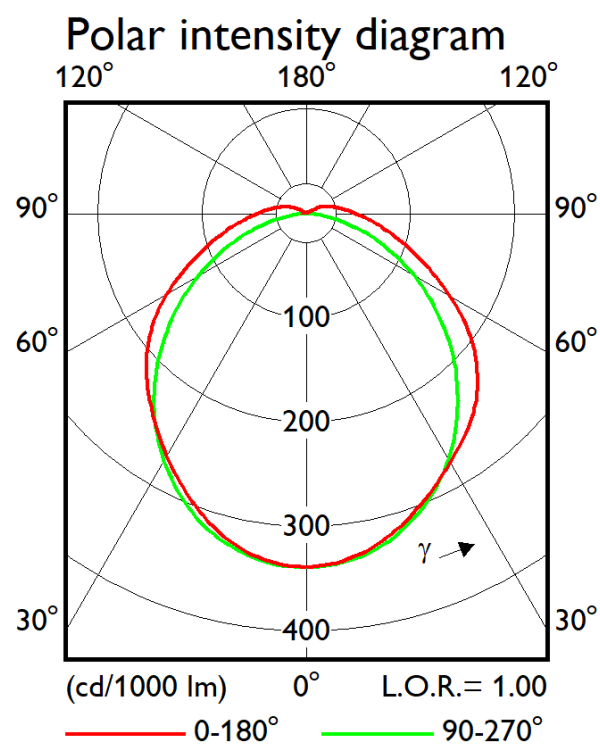


CertaFlux RDL canopy 1150mm MC G1

Parameter	Min	Typ	Max	Unit
Luminous flux	1260	1400	1680	lm
Color coordinates (CIEx, CIEy)		(0.391, 0.334)		-
Color consistency			5	SDCM
CRI	80			
Photobiological safety			RG1 unlimited	

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





Electrical characteristics

[CertaFlux RDL canopy 575mm 830 G1](#)

[CertaFlux RDL canopy 575mm MC G1](#)

[CertaFlux RDL canopy 575mm 840 G1](#)

Parameter	Min	Typ	Max	Unit
Forward voltage		24.0		V
Power consumption		8.60		W = kWh/1000h

[CertaFlux RDL canopy 855mm 830 G1](#)

[CertaFlux RDL canopy 855mm MC G1](#)

[CertaFlux RDL canopy 855mm 840 G1](#)

Parameter	Min	Typ	Max	Unit
Forward voltage		24.0		V
Power consumption		12.9		W = kWh/1000h

[CertaFlux RDL canopy 1150mm 830 G1](#)

[CertaFlux RDL canopy 1150mm MC G1](#)

[CertaFlux RDL canopy 1150mm 840 G1](#)

Parameter	Min	Typ	Max	Unit
Forward voltage		24.0		V
Power consumption		17.2		W = kWh/1000h

Lumen maintenance

Operation point	Lumen maintenance x 1000 hours	L70			L80		
		B50	B20	B10	B50	B20	B10
	Ta -20°C	>54	>54	>54	>54	>54	53
	Ta 5 °C	>54	>54	>54	46	43	42
	Ta 30°C	>54	53	52	34	33	32

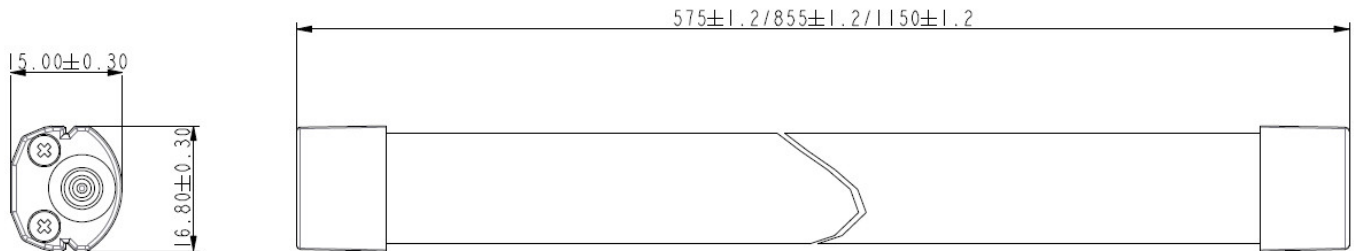
Mechanical characteristics

CertaFlux RDL canopy 575mm 830 G1

CertaFlux RDL canopy 575mm 840 G1

CertaFlux RDL canopy 575mm MC G1

Parameter	Min	Typ	Max	Unit
Length	573.8	575	576.2	mm
Width	16.5	16.8	17.1	mm
Height	14.7	15	15.3	mm
Product mass		43		gram

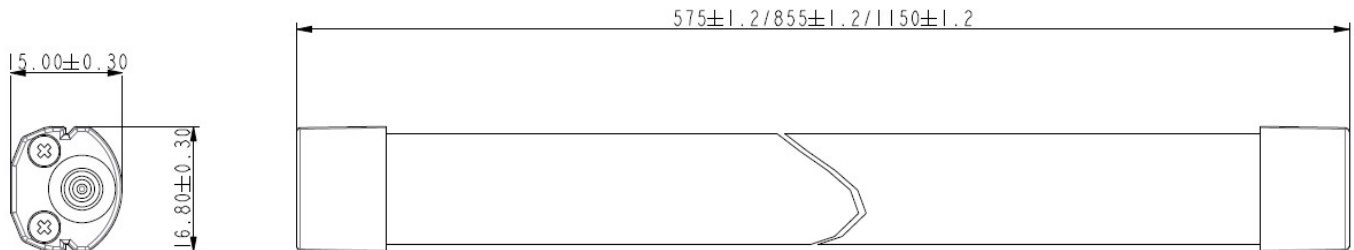


CertaFlux RDL canopy 855mm 830 G1

CertaFlux RDL canopy 855mm MC G1

CertaFlux RDL canopy 855mm 840 G1

Parameter	Min	Typ	Max	Unit
Length	853.8	855	856.3	mm
Width	16.5	16.8	17.1	mm
Height	14.7	15	15.3	mm
Product mass		65		gram

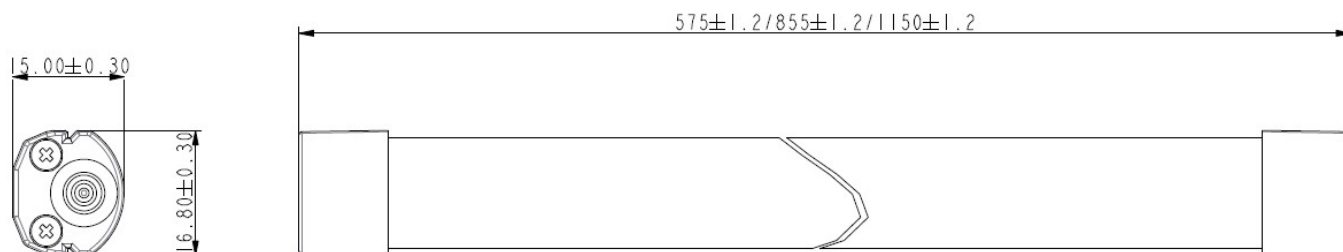


CertaFlux RDL canopy 1150mm 830 G1

CertaFlux RDL canopy 1150mm MC G1

CertaFlux RDL canopy 1150mm 840 G1

Parameter	Min	Typ	Max	Unit
Length	1148.8	1150	1151.2	mm
Width	16.5	16.8	17.1	mm
Height	14.7	15	15.3	mm
Product mass		87		gram



Absolute ratings

Parameter	Min	Max	Unit
Case temperature (T _c -max)		70	°C
ESD (direct contact)	4		kV
ESD (air)	8		kV
Working voltage		60	V _{dc}
Ambient temperature	-30	30	°C
Storage temperature	-30	60	°C

Application information

Certificates and Standards

IEC/EN 62031

IEC/EN 62471

Relevant clauses of IEC/EN 60335-1

Annex CC of IEC/EN 60335-2-24

Annex BB of IEC/EN 60335-2-89

ENEC

UL 2108

CSA C22.2 No.9.0-96

CSA C22.2 No.250.0-08

NSF

CQC

DLC

Environmental

RoHS/REACH

Application

IP rating	IP54, IK02
Overheating protection	No protection
Luminaire class	IEC Class III when connected to a SELV Philips Constant Voltage 24 VDC drivers
Dimming	Yes

Notes

Special colors; Modules with MC color are special purpose modules for refrigerated cabinets, not for general lighting.



© 2021 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: 3 Guildford Business Park, GU2 8XG

13/09/2021