

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 2700 K, 3000 K, 3500 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

October 2021



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 835 G1	8718699 620684 00	9290 016 67706	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 827 G1	8719514 421110 00	9290 034 07706	24
CertaFlux RDL canopy 855mm 830 G1	8718699 621421 00	9290 016 67506	24
CertaFlux RDL canopy 855mm 835 G1	8718699 621445 00	9290 016 67806	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 827 G1	8719514 421127 00	9290 034 07806	24
CertaFlux RDL canopy 1150mm 830 G1	8718699 620820 00	9290 016 67606	24
CertaFlux RDL canopy 1150mm 835 G1	8718699 620844 00	9290 016 67906	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

Module temperatures

Parameter	Nominal*	Life**	Max***	Unit
T _a (ambient temperature)	5	30	30	°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

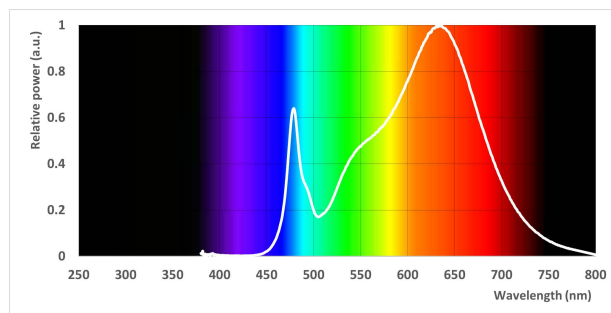
Parameter	Min	Typ	Max	Unit
Luminous flux	900	1000	1200	lm
Correlated color temperature (CCT)		3000		K
Color coordinates (CIEx, CIEy)		(0.435, 0.407)		-
Color consistency			5	SDCM
CRI	80			
Photobiological safety			RG1 unlimited	

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

This product contains a light source of energy efficiency class E.

EPREL model identifier: L71000000380-30.

Registration number: 896610.



CertaFlux RDL canopy 575mm 835 G1

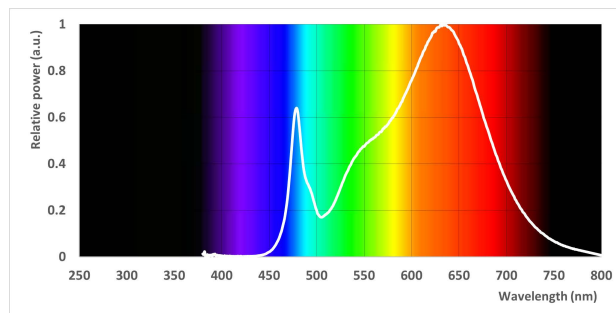
Parameter	Min	Typ	Max	Unit
Luminous flux	900	1000	1200	lm
Correlated color temperature (CCT)		3500		K
Color coordinates (CIEx, CIEy)		(0.409, 0.394)		-
Color consistency			5	SDCM
CRI	80			
Photobiological safety			RG1 unlimited	

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

This product contains a light source of energy efficiency class E.

EPREL model identifier: L71000000380-35.

Registration number: 896613.

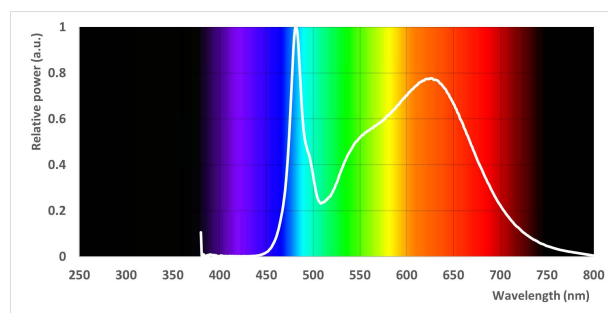


CertaFlux RDL canopy 575mm 840 G1

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

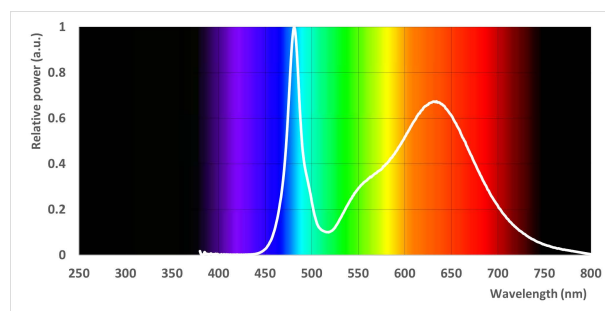
This product contains a light source of energy efficiency class E.
EPREL model identifier: L71000000380-40.
Registration number: 896617.



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

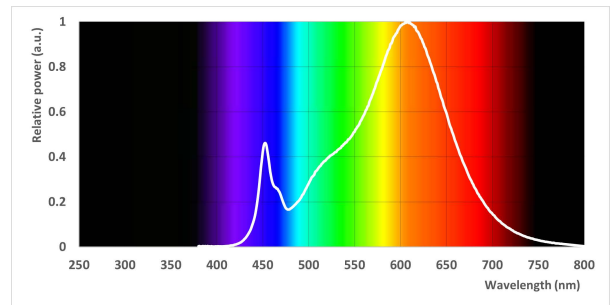


CertaFlux RDL canopy 855mm 827 G1

Parameter	Min	Typ	Max	Unit
Luminous flux	1350	1500	1800	lm
Correlated color temperature (CCT)		2700		K
Color coordinates (CIEx, CIEy)		(0.458, 0.41)		-
Color consistency			5	SDCM
CRI	80			
Photobiological safety			RG1 unlimited	

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

This product contains a light source of energy efficiency class E.
EPREL model identifier: L71000000390-27.
Registration number: 896608.

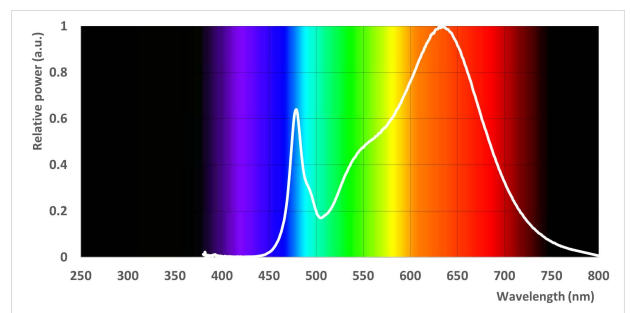


CertaFlux RDL canopy 855mm 830 G1

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

This product contains a light source of energy efficiency class E.
EPREL model identifier: L71000000390-30.
Registration number: 896611.

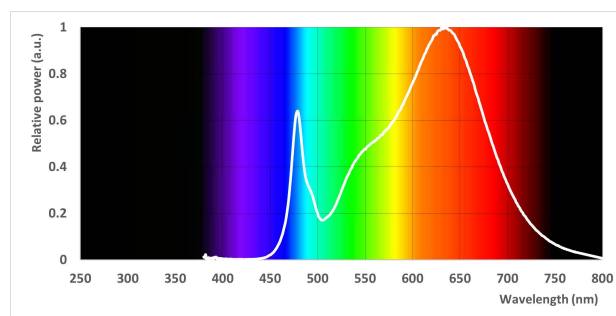


CertaFlux RDL canopy 855mm 835 G1

Parameter	Min	Typ	Max	Unit
Luminous flux	1350	1500	1800	lm
Correlated color temperature (CCT)		3500		K
Color coordinates (CIEx, CIEy)		(0.409,0.394)		-
Color consistency			5	SDCM
CRI	80			
Photobiological safety			RG1 unlimited	

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

This product contains a light source of energy efficiency class E.
EPREL model identifier: L71000000390-35.
Registration number: 896615.

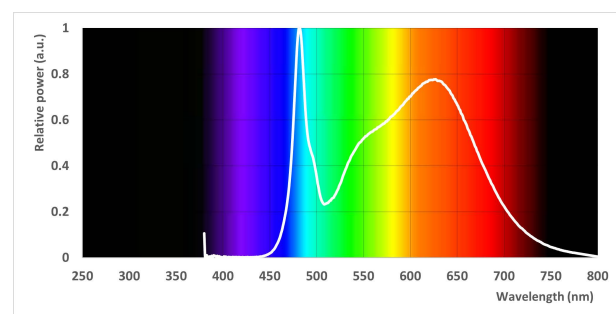


CertaFlux RDL canopy 855mm 840 G1

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

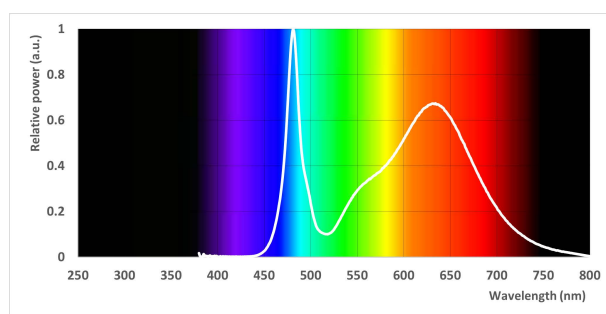
This product contains a light source of energy efficiency class E.
EPREL model identifier: L71000000390-40.
Registration number: 896618.



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

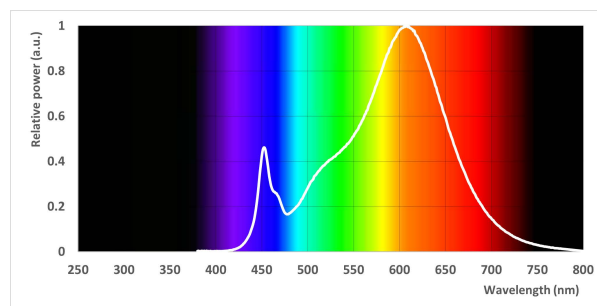


CertaFlux RDL canopy 1150mm 827 G1

Parameter	Min	Typ	Max	Unit
Luminous flux	1800	2000	2400	lm
Correlated color temperature (CCT)		3000		K
Color coordinates (CIEx, CIEy)		(0.458, 0.41)		-
Color consistency			5	SDCM
CRI	80			
Photobiological safety			RG1 unlimited	

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

This product contains a light source of energy efficiency class E.
EPREL model identifier: L71000000400-27.
Registration number: 896609.



CertaFlux RDL canopy 1150mm 830 G1

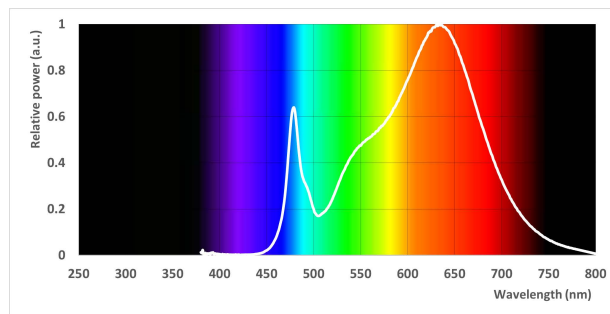
Parameter	Min	Typ	Max	Unit
Luminous flux	1800	2000	2400	lm
Correlated color temperature (CCT)		3000		K
Color coordinates (CIEx, CIEy)		(0.435, 0.407)		-
Color consistency			5	SDCM
CRI	80			
Photobiological safety			RG1 unlimited	

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

This product contains a light source of energy efficiency class E

EPREL model identifier: L71000000400-30.

Registration number: 896612.



CertaFlux RDL canopy 1150mm 835 G1

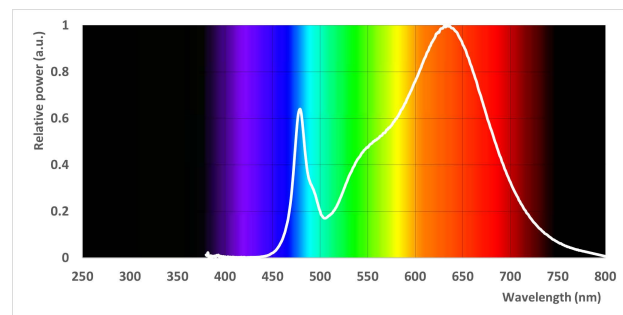
Parameter	Min	Typ	Max	Unit
Luminous flux	1800	2000	2400	lm
Correlated color temperature (CCT)		3000		K
Color coordinates (CIEx, CIEy)		(0.409, 0.394)		-
Color consistency			5	SDCM
CRI	80			
Photobiological safety			RG1 unlimited	

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

This product contains a light source of energy efficiency class E.

EPREL model identifier: L71000000400-35.

Registration number: 896616.

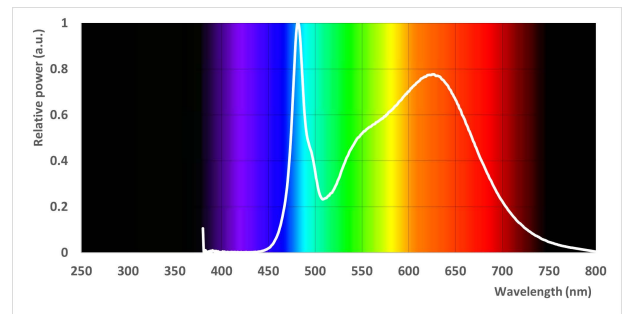


CertaFlux RDL canopy 1150mm 840 G1

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

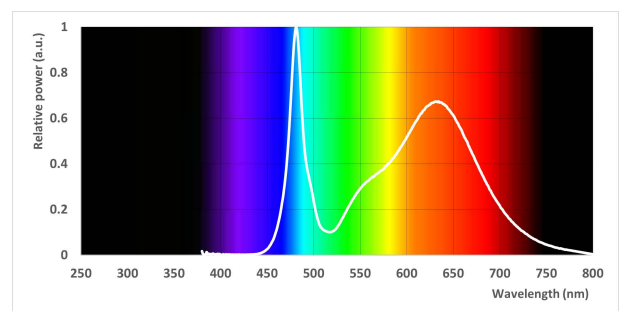
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Registration number: 896619.

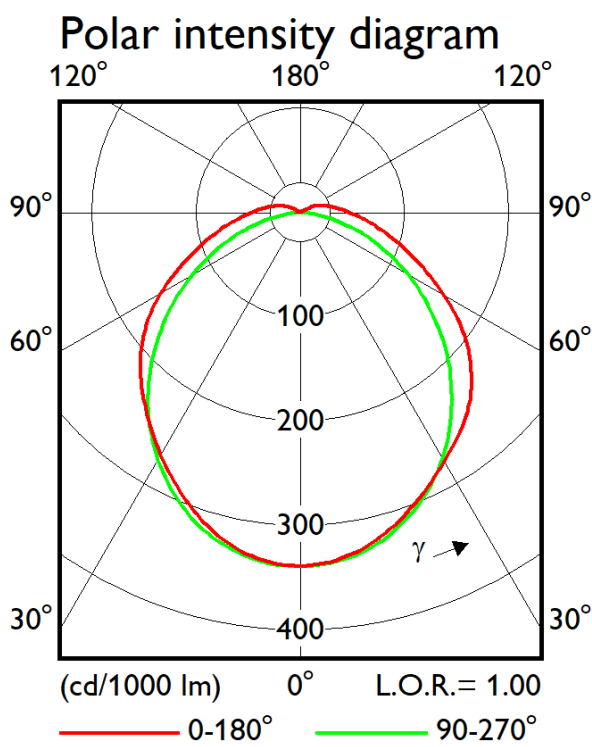


CertaFlux RDL canopy 1150mm MC G1

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 835 G1
CertaFlux RDL canopy 575mm 840 G1
CertaFlux RDL canopy 575mm MC G1

Parameter	Min	Typ	Max	Unit
Forward voltage		24.0		V
Power consumption		8.6		W = kWh/1000h

CertaFlux RDL canopy 855mm 827 G1
CertaFlux RDL canopy 855mm 830 G1
CertaFlux RDL canopy 855mm 835 G1
CertaFlux RDL canopy 855mm 840 G1
CertaFlux RDL canopy 855mm MC G1

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

CertaFlux RDL canopy 1150mm 827 G1
CertaFlux RDL canopy 1150mm 830 G1
CertaFlux RDL canopy 1150mm 835 G1
CertaFlux RDL canopy 1150mm 840 G1
CertaFlux RDL canopy 1150mm MC G1

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

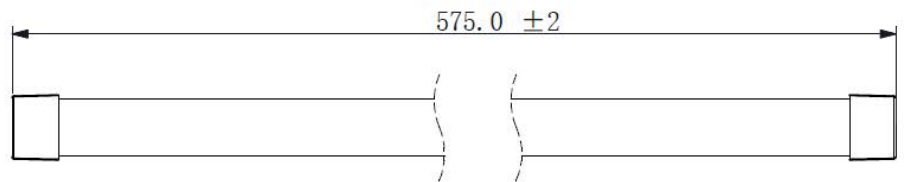
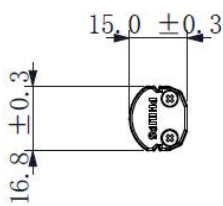
Lumen maintenance

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 (all sizes are guaranteed at Ta:25 °C)

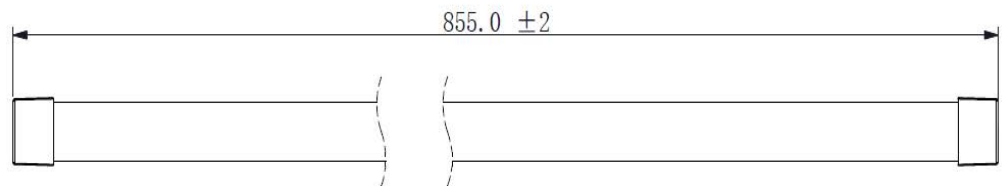
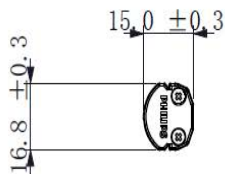
[CertaFlux RDL canopy 575mm 830 G1](#)
[CertaFlux RDL canopy 575mm 835 G1](#)
[CertaFlux RDL canopy 575mm 840 G1](#)
[CertaFlux RDL canopy 575mm MC G1](#)

Parameter	Min	Typ	Max	Unit
Length	573	575	577	mm
Width	16.5	16.8	17.1	mm
Height	14.7	15	15.3	mm
Product mass		43		gram



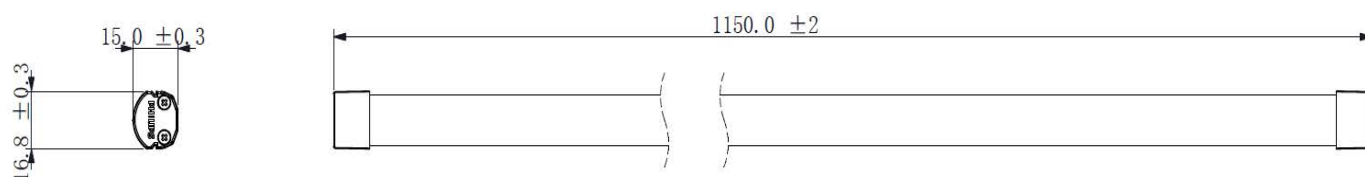
[CertaFlux RDL canopy 855mm 827 G1](#)
[CertaFlux RDL canopy 855mm 830 G1](#)
[CertaFlux RDL canopy 855mm 835 G1](#)
[CertaFlux RDL canopy 855mm 840 G1](#)
[CertaFlux RDL canopy 855mm MC G1](#)

Parameter	Min	Typ	Max	Unit
Length	853	855	857	mm
Width	16.5	16.8	17.1	mm
Height	14.7	15	15.3	mm
Product mass		65		gram



[CertaFlux RDL canopy 1150mm 827 G1](#)
[CertaFlux RDL canopy 1150mm 830 G1](#)
[CertaFlux RDL canopy 1150mm 835 G1](#)
[CertaFlux RDL canopy 1150mm 840 G1](#)
[CertaFlux RDL canopy 1150mm MC G1](#)

Parameter	Min	Typ	Max	Unit
Length	1148	1150	1152	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 (Tc-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

CE/CB/ENEC

UKCA

UL

NSF

CQC

DLC

IEC/EN 62031

UL 2108

GB 24819

Relevant clauses of IEC/EN 60335-1

Annex CC of IEC/EN 60335-2-24

Annex BB of IEC/EN 60335-2-89

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

Modules with MC color are out of scope of ecodesign requirement due to special color point.



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