

PHILIPS

CertaFlux

LED

CertaFlux RDL shelf 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 shelf 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 shelf 575mm 830 G1	871869962058500	929001665006	24
Certaflux RDL shelf 575mm 835 G1	871869962060800	929001665306	24
Certaflux RDL shelf 575mm 840 G1	871869962062200	929001665606	24
Certaflux RDL shelf 575mm MC G1	871869962064600	929001665906	24
Certaflux RDL shelf 855mm 827 G1	871951442107300	929003407306	24
Certaflux RDL shelf 855mm 830 G1	871869962090500	929001665106	24
Certaflux RDL shelf 855mm 835 G1	871869962092900	929001665406	24
Certaflux RDL shelf 855mm 840 G1	871869962094300	929001665706	24
Certaflux RDL shelf 855mm MC G1	871869962096700	929001666006	24
Certaflux RDL shelf 1150mm 827 G1	871951442108000	929003407406	24
Certaflux RDL shelf 1150mm 830 G1	871869962074500	929001665206	24
Certaflux RDL shelf 1150mm 835 G1	871869962076900	929001665506	24
Certaflux RDL shelf 1150mm 840 G1	871869962078300	929001665806	24
Certaflux RDL shelf 1150mm MC G1	871869962080600	929001666106	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

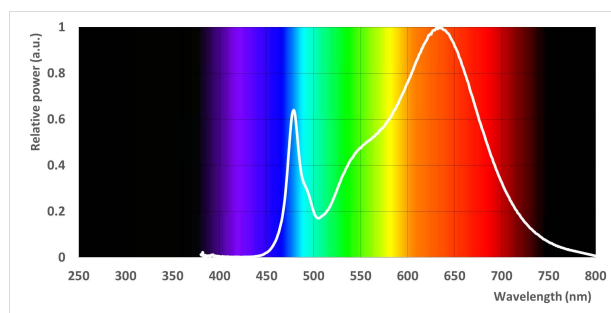
Optical characteristics - table per color (CCT)

CertaFlux RDL shelf 575mm 830 G1

Parameter	Min	Typ	Max	Unit
Luminous flux	333	370	444	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: L71000000331-30.
Registration number: 896626

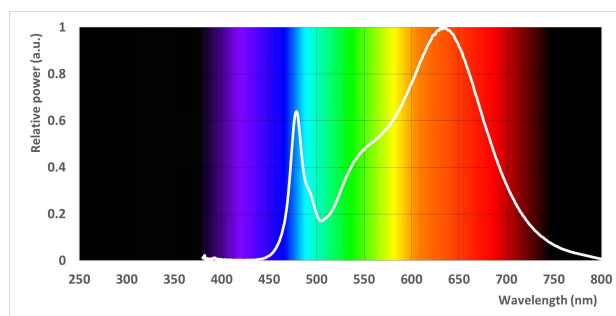


CertaFlux RDL shelf 575mm 835 G1

Parameter	Min	Typ	Max	Unit
Luminous flux	333	370	444	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: L71000000331-35.
Registration number: 896629.

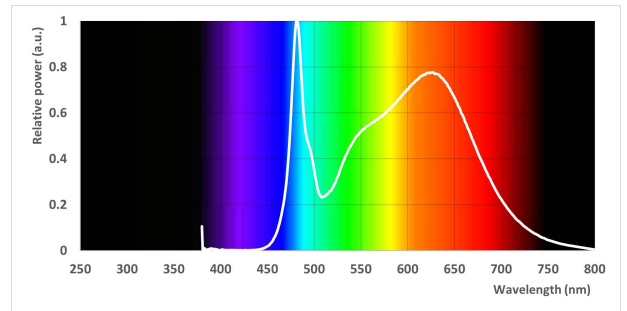


CertaFlux RDL shelf 575mm 840 G1

Parameter	Min	Typ	Max	Unit
Luminous flux	333	370	444	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

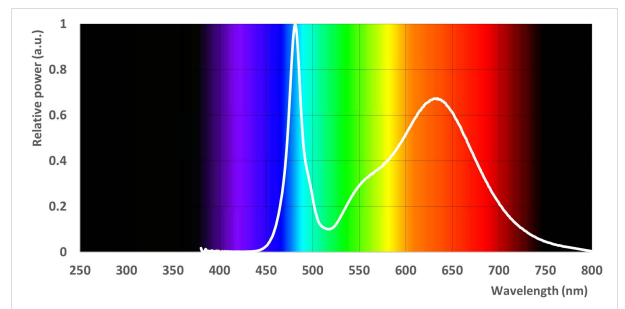
This product contains a light source of energy efficiency class E.
EPREL model identifier: L71000000331-40.
Registration number: 896632.



CertaFlux RDL shelf 575mm MC G1

Parameter	Min	Typ	Max	Unit
Luminous flux	250	278	334	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

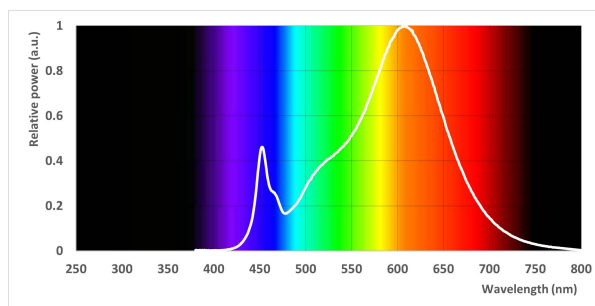


CertaFlux RDL shelf 855mm 827 G1

Parameter	Min	Typ	Max	Unit
Luminous flux	495	550	660	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: L71000000341-27.
Registration number: 896623.

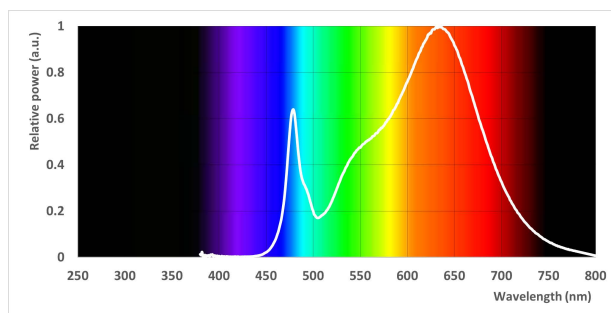


CertaFlux RDL shelf 855mm 830 G1

Parameter	Min	Typ	Max	Unit
Luminous flux	495	550	660	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: L71000000341-30.
Registration number: 896627.

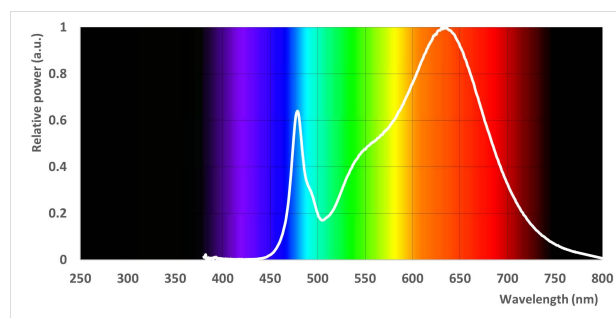


CertaFlux RDL shelf 855mm 835 G1

Parameter	Min	Typ	Max	Unit
Luminous flux	495	550	660	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: L71000000341-35.
Registration number: 896630.

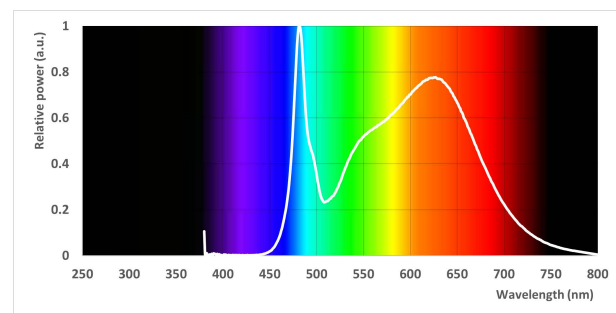


CertaFlux RDL shelf 855mm 840 G1

Parameter	Min	Typ	Max	Unit
Luminous flux	495	550	660	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

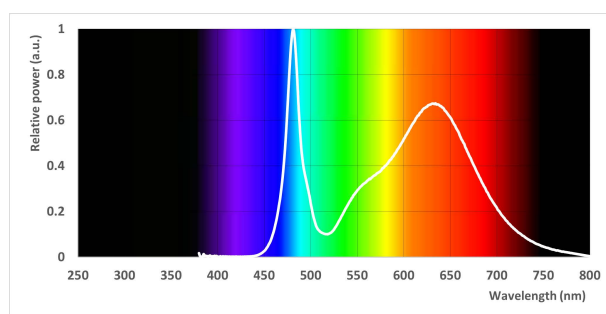
This product contains a light source of energy efficiency class E.
EPREL model identifier: L71000000341-40.
Registration number: 896633.



CertaFlux RDL shelf 855mm MC G1

Parameter	Min	Typ	Max	Unit
Luminous flux	372	413	496	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

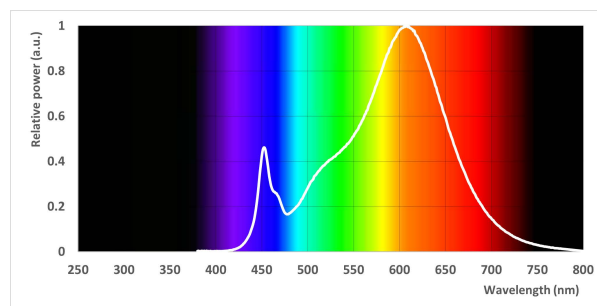


CertaFlux RDL shelf 1150mm 827 G1

Parameter	Min	Typ	Max	Unit
Luminous flux	666	740	888	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: L71000000351-27.
Registration number: 896624.



CertaFlux RDL shelf 1150mm 830 G1

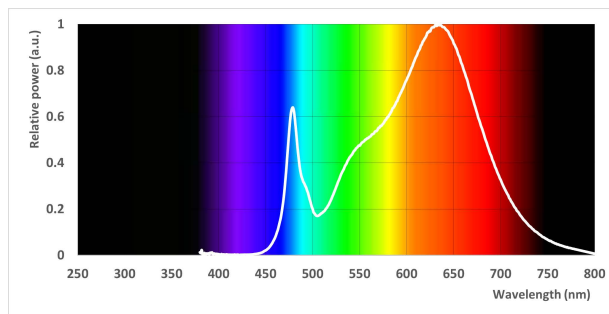
Parameter	Min	Typ	Max	Unit
Luminous flux	666	740	888	lm
Correlated color temperature (CCT)		3000		K
Color coordinates (CIEx, CIEy)		(0.435, 0.407)		-
Color consistency			5	SDCM
CRI	80			
Photobiological safety			RG1 unlimited	

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: L71000000351-30.

Registration number: 896628.



CertaFlux RDL shelf 1150mm 835 G1

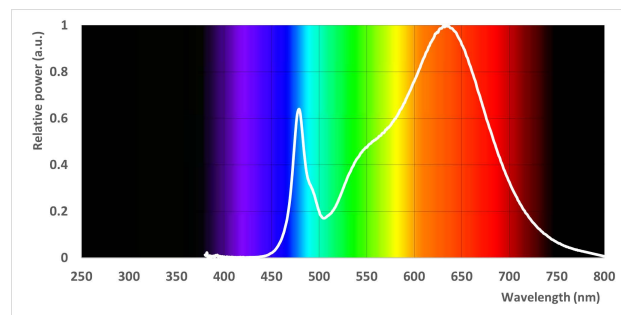
Parameter	Min	Typ	Max	Unit
Luminous flux	666	740	888	lm
Correlated color temperature (CCT)		3500		K
Color coordinates (CIEx, CIEy)		(0.409, 0.394)		-
Color consistency			5	SDCM
CRI	80			
Photobiological safety			RG1 unlimited	

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: L71000000351-35.

Registration number: 896631.

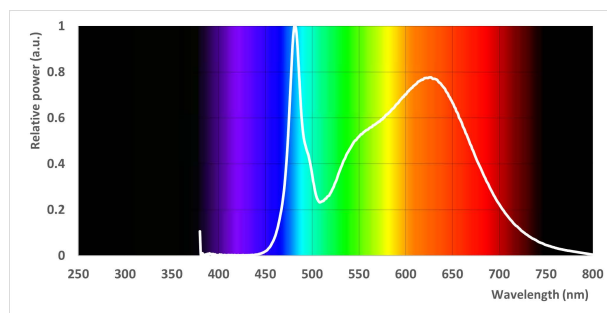


CertaFlux RDL shelf 1150mm 840 G1

Parameter	Min	Typ	Max	Unit
Luminous flux	666	740	888	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

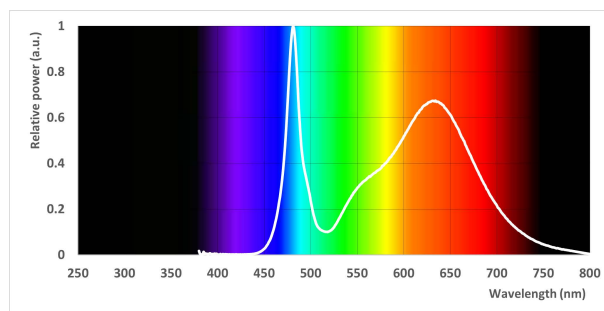
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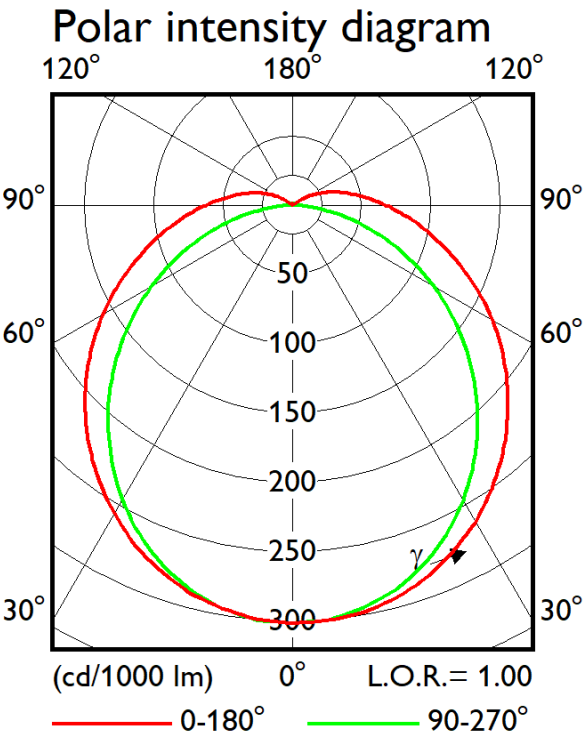


CertaFlux RDL shelf 1150mm MC G1

Parameter	Min	Typ	Max	Unit
Luminous flux	500	555	666	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 shelf 575mm 830 G1
CertaFlux RDL shelf 575mm 835 G1
CertaFlux RDL shelf 575mm 840 G1
CertaFlux RDL shelf 575mm MC G1

Parameter	Min	Typ	Max	Unit
Forward voltage		24.0		V
Power consumption		3		W = kWh/1000h

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

Parameter	Min	Typ	Max	Unit
Forward voltage		24.0		V
Power consumption		4.7		W = kWh/1000h

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

Parameter	Min	Typ	Max	Unit
Forward voltage		24.0		V
Power consumption		6.2		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	>54
	Ta 5 °C	>54	>54	>54	>54	>54	>54
	Ta 30°C	>54	>54	>54	50	48	47

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

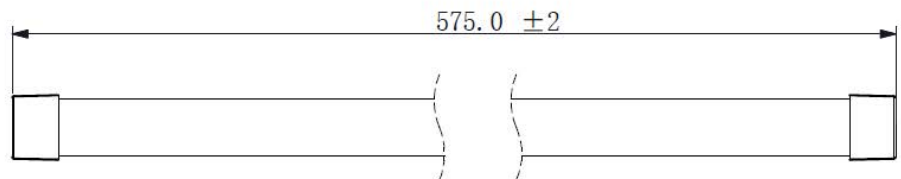
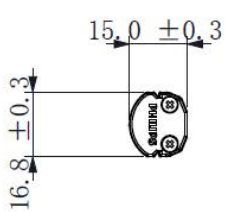
[CertaFlux RDL shelf 575mm 830 G1](#)

[CertaFlux RDL shelf 575mm 835 G1](#)

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

[CertaFlux RDL shelf 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 shelf 855mm 827 G1](#)

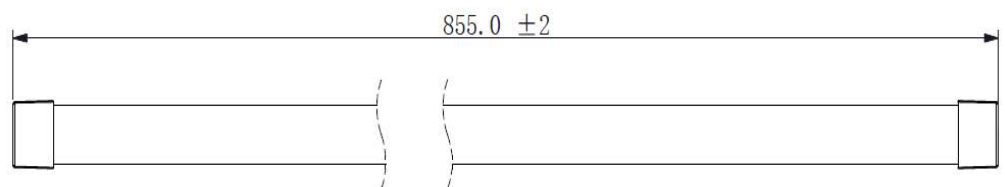
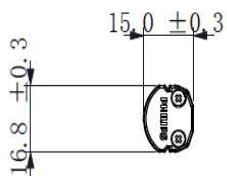
[CertaFlux RDL shelf 855mm 830 G1](#)

[CertaFlux RDL shelf 855mm 835 G1](#)

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

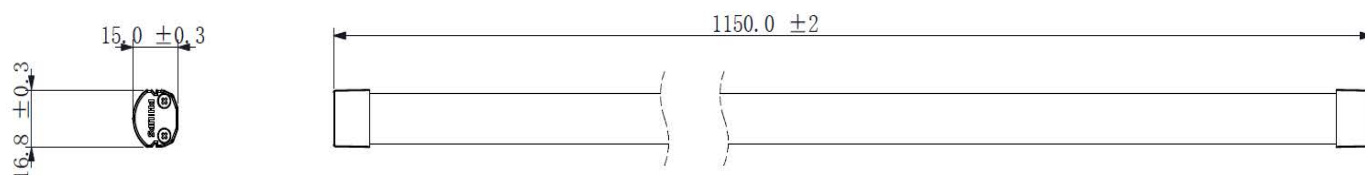
[CertaFlux RDL shelf 855mm MC G1](#)

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 shelf 1150mm 827 G1](#)
[CertaFlux RDL shelf 1150mm 830 G1](#)
[CertaFlux RDL shelf 1150mm 835 G1](#)
[CertaFlux RDL shelf 1150mm 840 G1](#)
[CertaFlux RDL shelf 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 _{ac}
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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01/09/2021