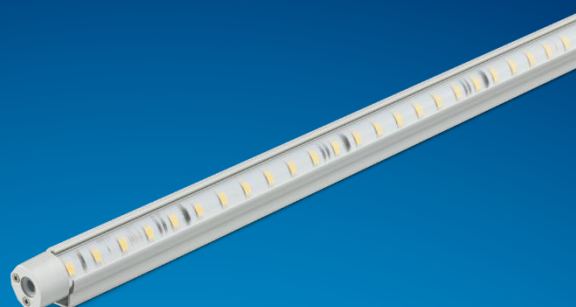


PHILIPS

CertaFlux

LED

CertaFlux RDL vertical
side 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 vertical side lighting
- Choice of color temperatures 2700 K, 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

October 2021



Ordering data

Commercial product name	EOC	12NC	Box quantity
CertaFlux RDL vrt 1500mm 827 SD WGS G1	8719514 421097 00	9290 034 07506	24
CertaFlux RDL vrt 1500mm 830 SD WGS G1	8718699 621186 00	9290 016 66206	24
CertaFlux RDL vrt 1500mm 840 SD WGS G1	8718699 621209 00	9290 016 66306	24
CertaFlux RDL vrt 1500mm MC SD WGS G1	8718699 621223 00	9290 016 66406	24
CertaFlux RDL vrt 1650mm 830 SD WGS G1	8718699 621308 00	9290 016 66806	24
CertaFlux RDL vrt 1650mm 840 SD WGS G1	8718699 621322 00	9290 016 66906	24
CertaFlux RDL vrt 1650mm MC SD WGS G1	8718699 621346 00	9290 016 67006	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)

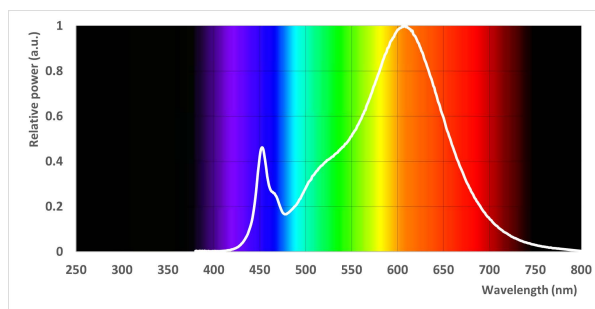
CertaFlux RDL vrt 1500mm 827 SD WGS G1

Parameter	Min	Typ	Max	Unit
Luminous flux	1040	1155	1386	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: L71000000460-27.
Registration number: 896639.

This product contains a light source of energy efficiency class E.
EPREL model identifier: L71000000470-27.
Registration number: 896640.



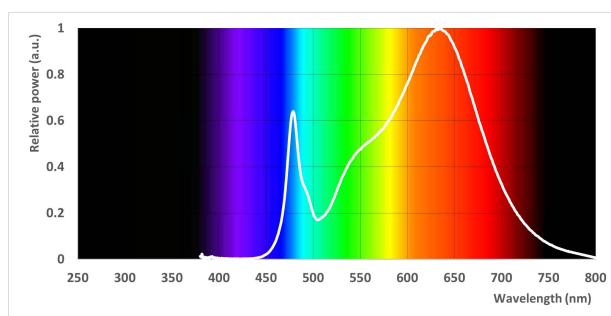
CertaFlux RDL vrt 1500mm 830 SD WGS G1

Parameter	Min	Typ	Max	Unit
Luminous flux	1040	1155	1386	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 D.
EPREL model identifier: L71000000460-30.
Registration number: 896641.

This product contains a light source of energy efficiency class D.
EPREL model identifier: L71000000470-30.
Registration number: 896642.



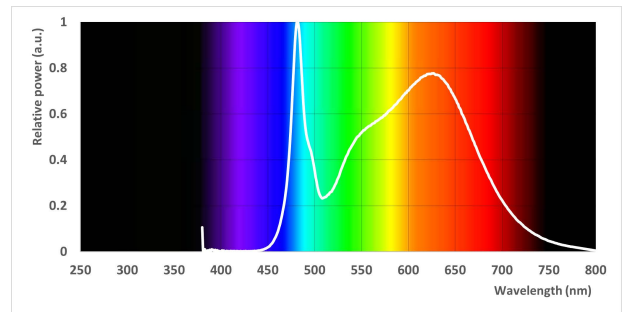
CertaFlux RDL vrt 1500mm 840 SD WGS G1

Parameter	Min	Typ	Max	Unit
Luminous flux	1040	1155	1386	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: L71000000460-40.
Registration number: 896643.

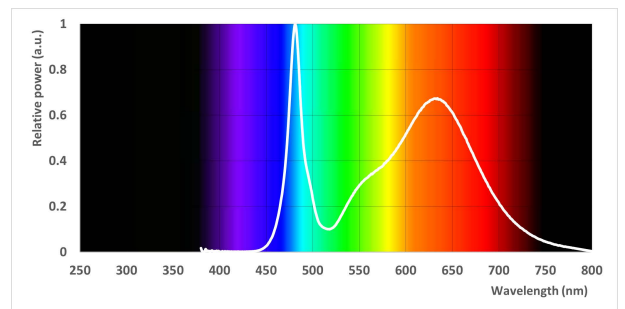
This product contains a light source of energy efficiency class E.
EPREL model identifier: L71000000470-30.
Registration number: 896644.



CertaFlux RDL vrt 1500mm MC SD WGS G1

Parameter	Min	Typ	Max	Unit
Luminous flux	981	1090	1308	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

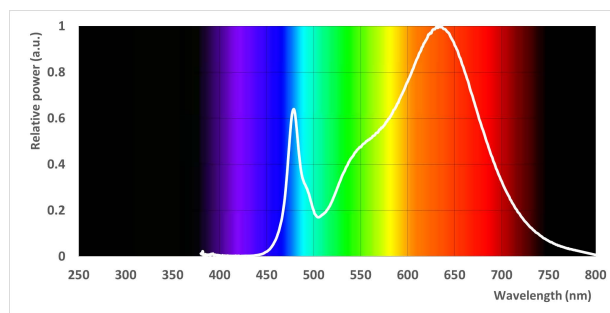


CertaFlux RDL vrt 1650mm 830 SD WGS G1

Parameter	Min	Typ	Max	Unit
Luminous flux	1143	1270	1524	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: L71000000480-30.
Registration number: 896614.



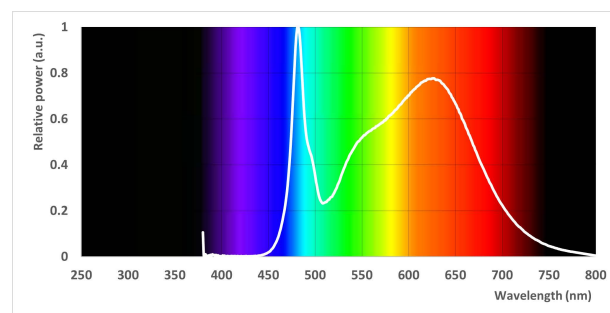
This product contains a light source of energy efficiency class E.
EPREL model identifier: L71000000490-30.
Registration number: 896625.

CertaFlux RDL vrt 1650mm 840 SD WGS G1

Parameter	Min	Typ	Max	Unit
Luminous flux	1143	1270	1524	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

This product contains a light source of energy efficiency class E.
EPREL model identifier: L71000000480-40.
Registration number: 896636.

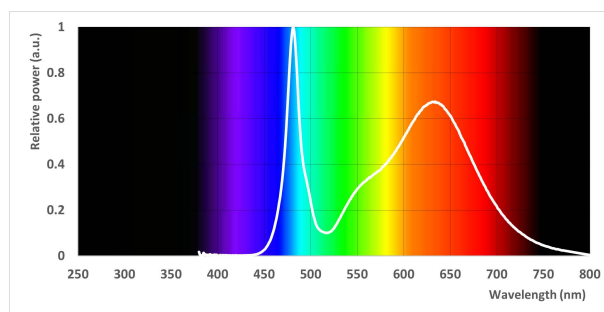


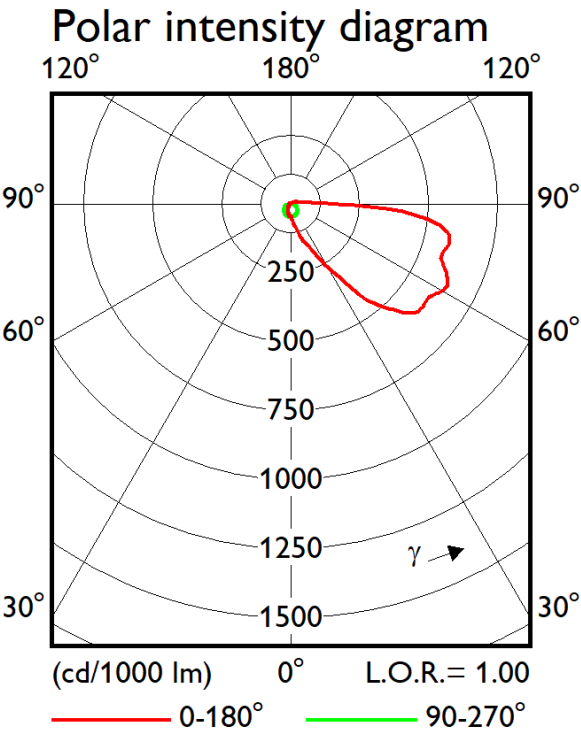
This product contains a light source of energy efficiency class E.
EPREL model identifier: L71000000490-40.
Registration number: 896647.

CertaFlux RDL vrt 1650mm MC SD WGS G1

Parameter	Min	Typ	Max	Unit
Luminous flux	1080	1200	1440	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 vrt 1500mm 827 SD WGS G1

CertaFlux RDL vrt 1500mm 830 SD WGS G1

CertaFlux RDL vrt 1500mm 840 SD WGS G1

Parameter	Min	Typ	Max	Unit
Forward voltage		24.0		V
Power consumption		9.4		W = kWh/1000h

CertaFlux RDL vrt 1500mm MC SD WGS G1

Parameter	Min	Typ	Max	Unit
Forward voltage		24.0		V
Power consumption		12..8		W = kWh/1000h

CertaFlux RDL vrt 1650mm 830 SD WGS G1

CertaFlux RDL vrt 1650mm 840 SD WGS G1

Parameter	Min	Typ	Max	Unit
Forward voltage		24.0		V
Power consumption		10.8		W = kWh/1000h

CertaFlux RDL vrt 1650mm MC SD WGS G1

Parameter	Min	Typ	Max	Unit
Forward voltage		24.0		V
Power consumption		14.2		W = kWh/1000h

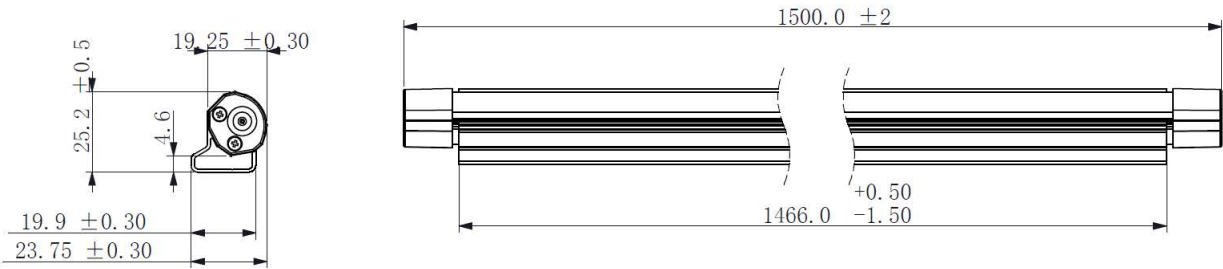
Lumen maintenance

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	51	50	50

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

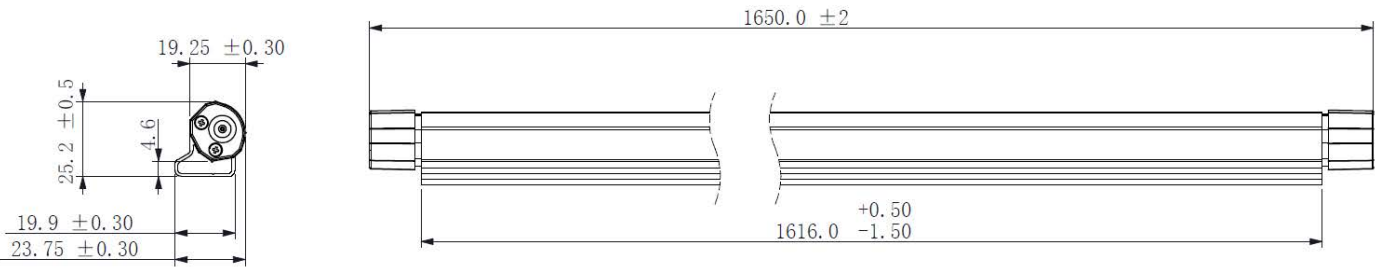
[CertaFlux RDL vrt 1500mm 827 SD WGS G1](#)
[CertaFlux RDL vrt 1500mm 830 SD WGS G1](#)
[CertaFlux RDL vrt 1500mm 840 SD WGS G1](#)
[CertaFlux RDL vrt 1500mm MC SD WGS G1](#)

Parameter	Min	Typ	Max	Unit
Length	1498	1500	1502	mm
Width	22.9	23.2	23.5	mm
Height	24.2	24.7	25.2	mm
Product mass		264		gram



[CertaFlux RDL vrt 1650mm 830 SD WGS G1](#)
[CertaFlux RDL vrt 1650mm 840 SD WGS G1](#)
[CertaFlux RDL vrt 1650mm MC SD WGS G1](#)

Parameter	Min	Typ	Max	Unit
Length	1648	1650	1652	mm
Width	22.9	23.2	23.5	mm
Height	24.2	24.7	25.2	mm
Product mass		292		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

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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