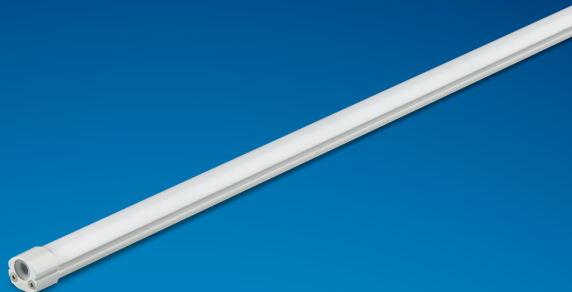


PHILIPS

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 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 shelf 575mm 830 G1	8718699 620585 00	9290 016 65006	24
CertaFlux RDL shelf 575mm 840 G1	8718699 620622 00	9290 016 65606	24
CertaFlux RDL shelf 575mm MC G1	8718699 620646 00	9290 016 65906	24
CertaFlux RDL shelf 855mm 830 G1	8718699 620905 00	9290 016 65106	24
CertaFlux RDL shelf 855mm 840 G1	8718699 620943 00	9290 016 65706	24
CertaFlux RDL shelf 855mm MC G1	8718699 620967 00	9290 016 66006	24
CertaFlux RDL shelf 1150mm 830 G1	8718699 620745 00	9290 016 65206	24
CertaFlux RDL shelf 1150mm 840 G1	8718699 620783 00	9290 016 65806	24
CertaFlux RDL shelf 1150mm MC G1	8718699 620806 00	9290 016 66106	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

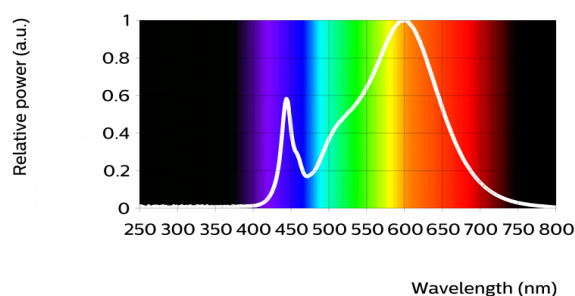
*** Maximum value for safe operation, do not operate above this value

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	

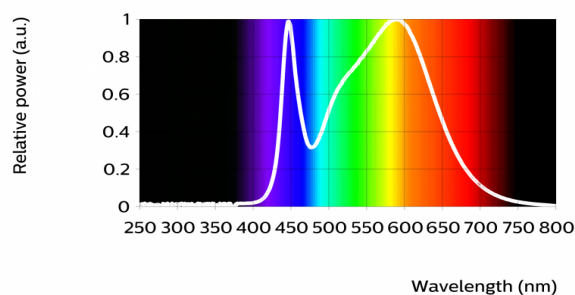
Measurement precision for flux +/- 5%, for efficacy +/- 6%., for x, y +/- 0.005, for CRI +/- 1.5



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	

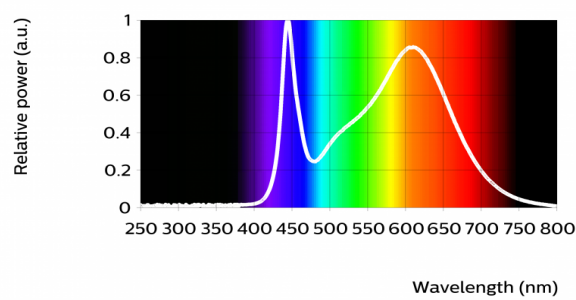
Measurement precision for flux +/- 5%, for efficacy +/- 6%., for x, y +/- 0.005, for CRI +/- 1.5



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	

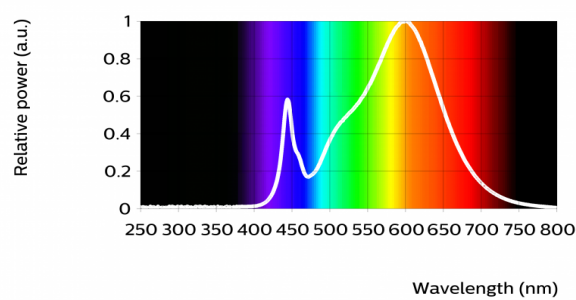
Measurement precision for flux +/- 5%, for efficacy +/- 6%., for x, y +/- 0.005, for CRI +/- 1.5



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	F A↑G 80			
Photobiological safety			RG1 unlimited	

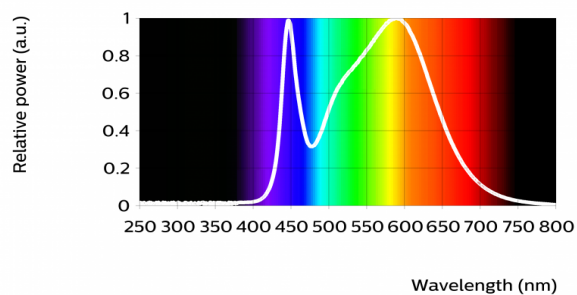
Measurement precision for flux +/- 5%, for efficacy +/- 6%., for x, y +/- 0.005, for CRI +/- 1.5



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	

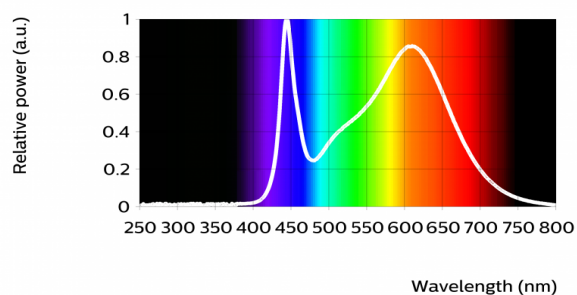
Measurement precision for flux +/- 5%, for efficacy +/- 6%., for x, y +/- 0.005, for CRI +/- 1.5



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	

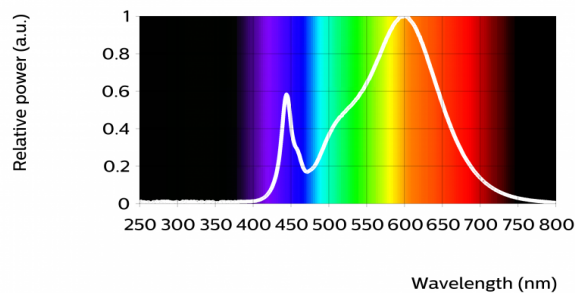
Measurement precision for flux +/- 5%, for efficacy +/- 6%., for x, y +/- 0.005, for CRI +/- 1.5



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	

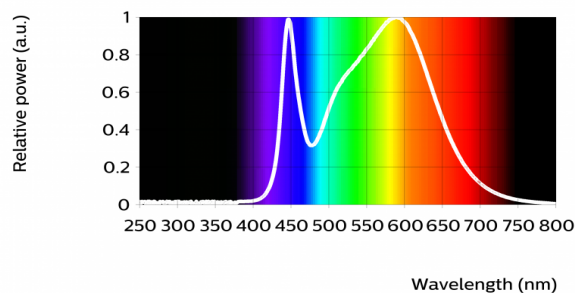
Measurement precision for flux +/- 5%, for efficacy +/- 6%., for x, y +/- 0.005, for CRI +/- 1.5



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	

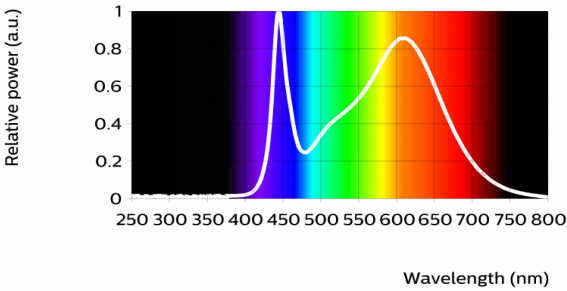
Measurement precision for flux +/- 5%, for efficacy +/- 6%., for x, y +/- 0.005, for CRI +/- 1.5

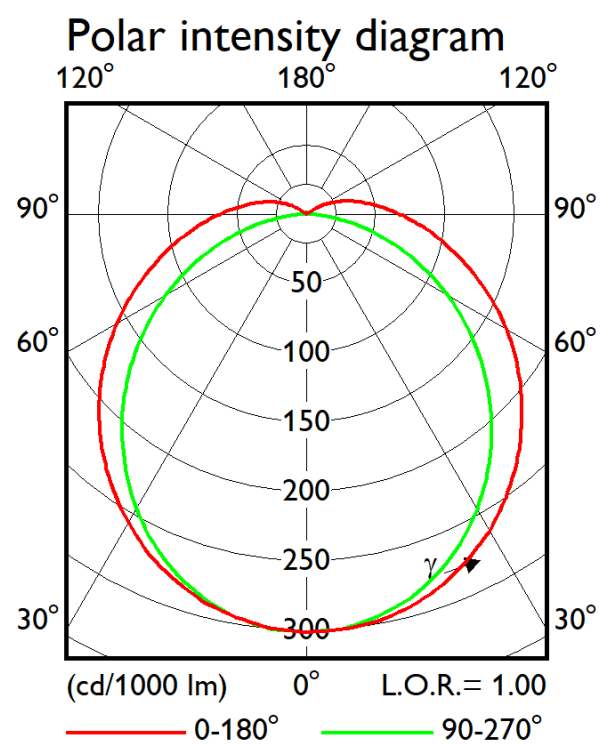


CertaFlux RDL shelf 1150mm MC G1

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 MC G1](#)

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

Parameter	Min	Typ	Max	Unit
Forward voltage		24.0		V
Power consumption		3.00		W = kWh/1000h

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

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

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

Parameter	Min	Typ	Max	Unit
Forward voltage		24.0		V
Power consumption		4.70		W = kWh/1000h

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

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

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

Parameter	Min	Typ	Max	Unit
Forward voltage		24.0		V
Power consumption		6.20		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

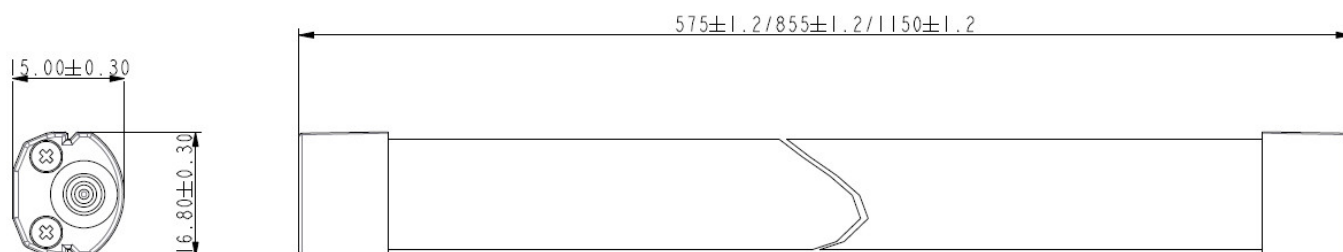
Mechanical characteristics

CertaFlux RDL shelf 575mm 830 G1

CertaFlux RDL shelf 575mm MC G1

CertaFlux RDL shelf 575mm 840 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

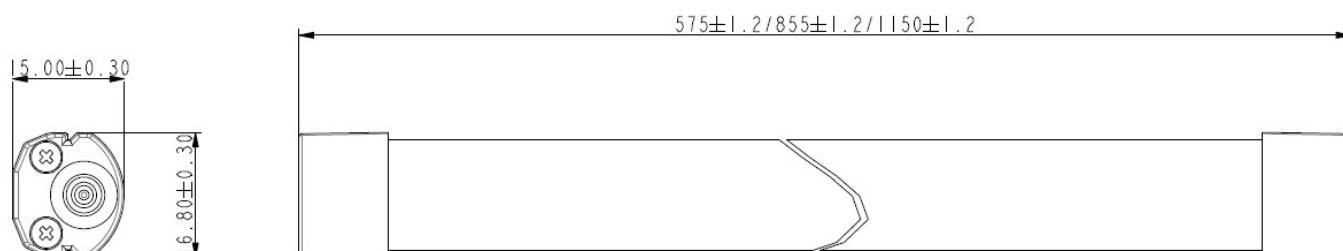


CertaFlux RDL shelf 855mm 830 G1

CertaFlux RDL shelf 855mm MC G1

CertaFlux RDL shelf 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

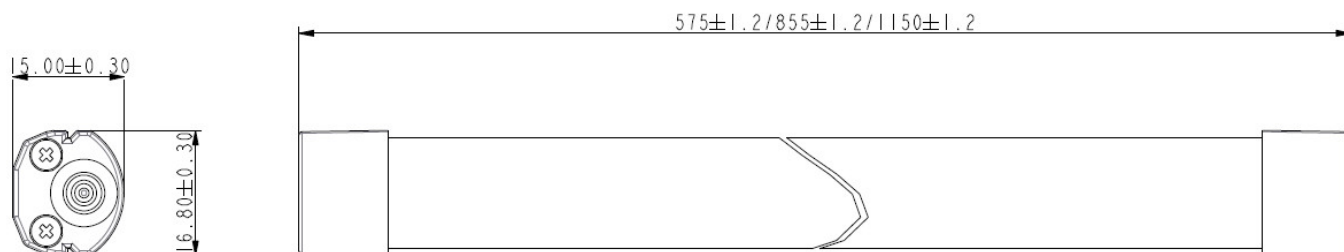


CertaFlux RDL shelf 1150mm 830 G1

CertaFlux RDL shelf 1150mm MC G1

CertaFlux RDL shelf 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 (Tc-max)		70	°C
ESD (direct contact)	4		kV
ESD (air)	8		kV
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.



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13/09/2021