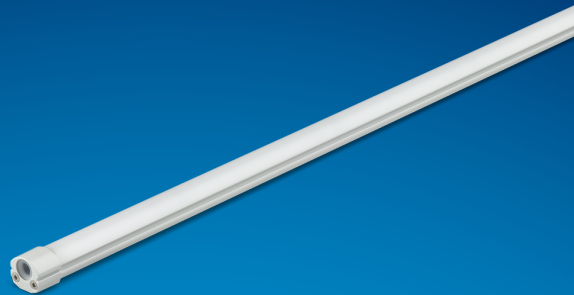


PHILIPS

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

June 2024



Ordering data

Commercial product name	EOC	12NC	EPREL registration #	Box quantity
CertaFlux RDL shelf 855mm 830 G1	8718699 620905 00	9290 016 65106	896627	24
CertaFlux RDL shelf 855mm 840 G1	8718699 620943 00	9290 016 65706	896633	24
CertaFlux RDL shelf 855mm MC G1	8718699 620967 00	9290 016 66006	not applicable	24
CertaFlux RDL shelf 1150mm 830 G1	8718699 620745 00	9290 016 65206	896628	24
CertaFlux RDL shelf 1150mm 840 G1	8718699 620783 00	9290 016 65806	896634	24
CertaFlux RDL shelf 1150mm MC G1	8718699 620806 00	9290 016 66106	not applicable	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

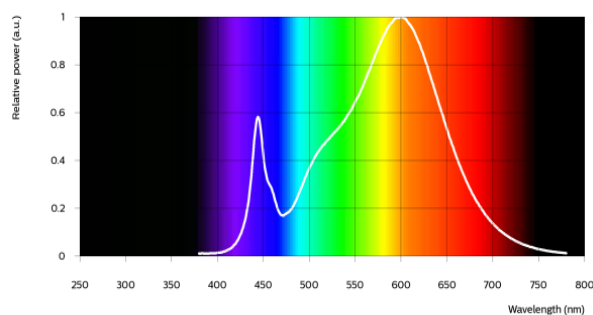
*** Maximum value for safe operation, do not operate above this value

Optical characteristics - table per color (CCT)

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

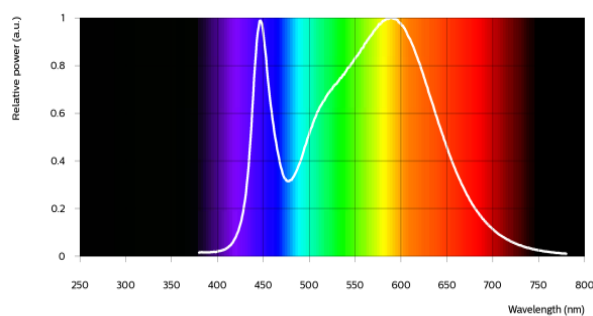


This product contains a light source of energy efficiency class E. EPREL model identifier: L71000000341-30. Registration number: 896627

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

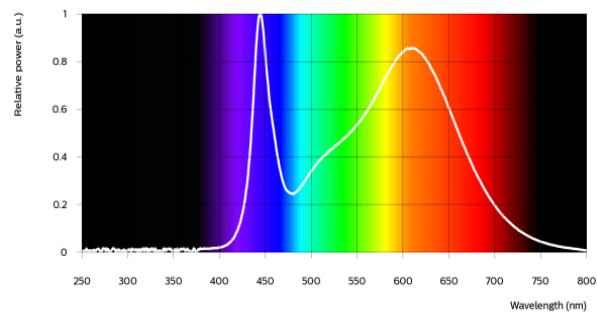


This product contains a light source of energy efficiency class E. EPREL model identifier: L71000000341-40. Registration number: 896633

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	

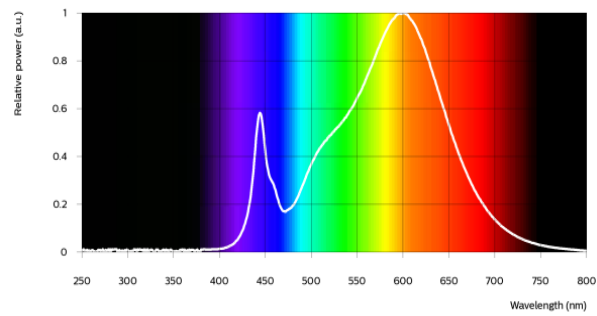
Measurement precision for flux +/- 5%, for efficacy +/- 6%., for x, y +/- 0.005, for CRI +/- 1.5



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

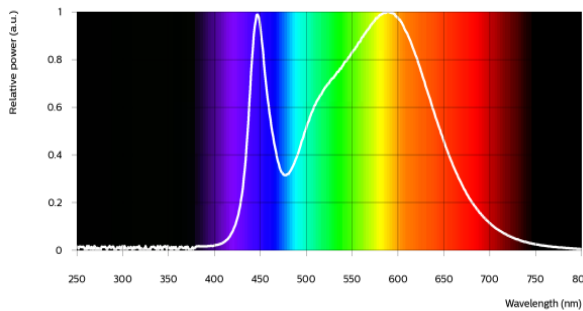


This product contains a light source of energy efficiency class E. EPREL model identifier: L71000000351-30. Registration number: 896628

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

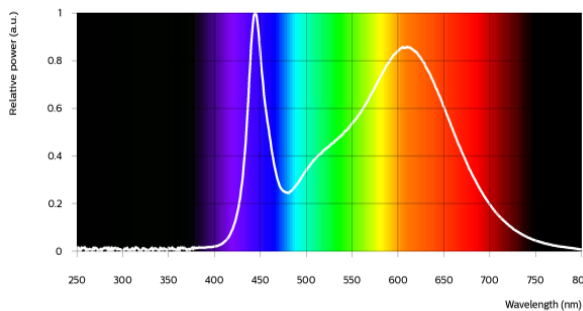


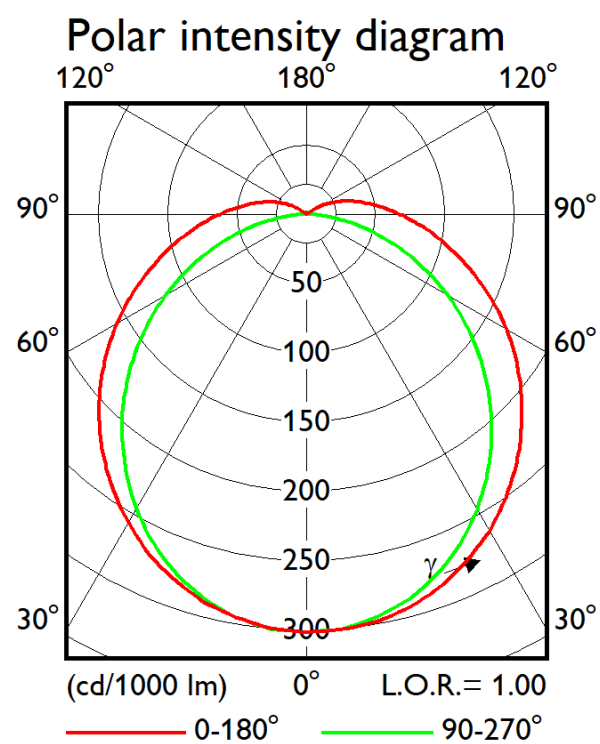
This product contains a light source of energy efficiency class E. EPREL model identifier: L71000000351-40. Registration number: 896634

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 855mm 830 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 830 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

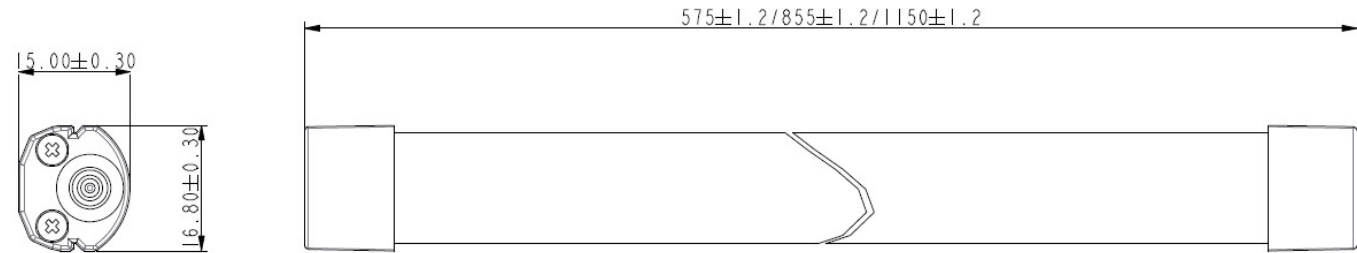
Lumen maintenance

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

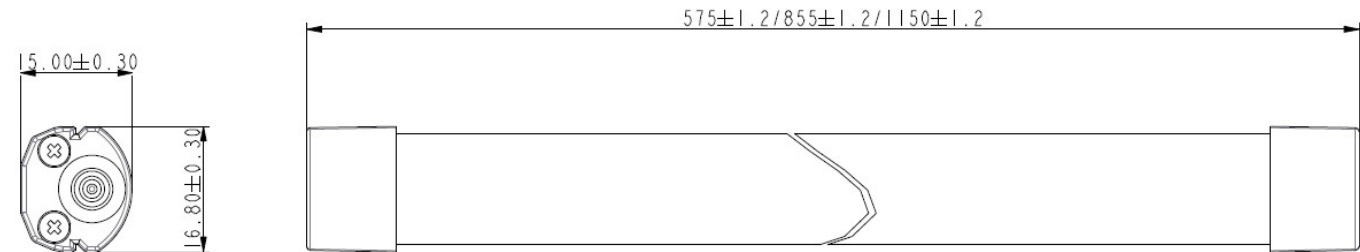
CertaFlux RDL shelf 855mm 830 G1
CertaFlux RDL shelf 855mm 840 G1
CertaFlux RDL shelf 855mm MC G1

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 840 G1
CertaFlux RDL shelf 1150mm MC 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
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
NSF
CQC
DLC
CB
CE
GB 24819
UKCA
UL

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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05/06/2024