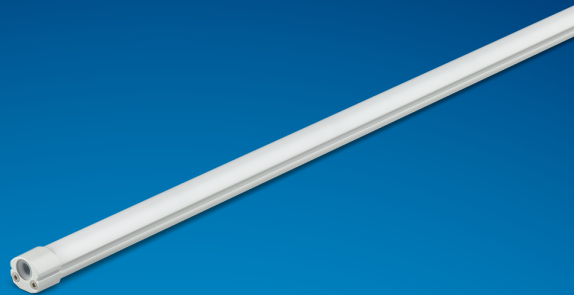


PHILIPS

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 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 canopy 575mm 830 G1	8718699 620660 00	9290 016 67406	896610	24
CertaFlux RDL canopy 575mm 840 G1	8718699 620707 00	9290 016 68006	896617	24
CertaFlux RDL canopy 575mm MC G1	8718699 620721 00	9290 016 68306	not applicable	24
CertaFlux RDL canopy 855mm 830 G1	8718699 621421 00	9290 016 67506	896611	24
CertaFlux RDL canopy 855mm 840 G1	8718699 620981 00	9290 016 68106	896618	24
CertaFlux RDL canopy 855mm MC G1	8718699 621001 00	9290 016 68406	not applicable	24
CertaFlux RDL canopy 1150mm 830 G1	8718699 620820 00	9290 016 67606	896612	24
CertaFlux RDL canopy 1150mm 840 G1	8718699 620868 00	9290 016 68206	896619	24
CertaFlux RDL canopy 1150mm MC G1	8718699 620882 00	9290 016 68506	not applicable	24

Module temperatures

Parameter	Nominal*	Life**	Max***	Unit
T _c (case temperature at T _c point)	5	30	30	°C

* Nominal value at which typical performance is specified

** Value at which life time is specified

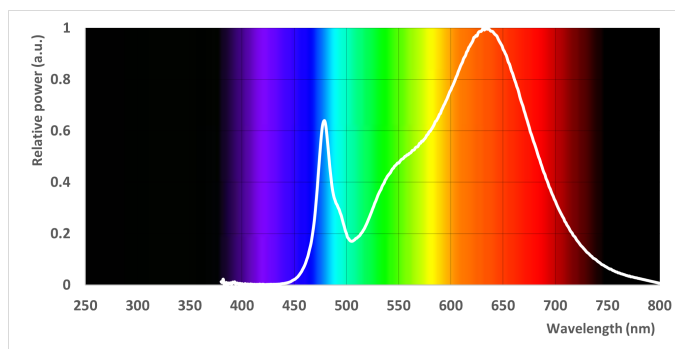
*** Maximum value for safe operation, do not operate above this value

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

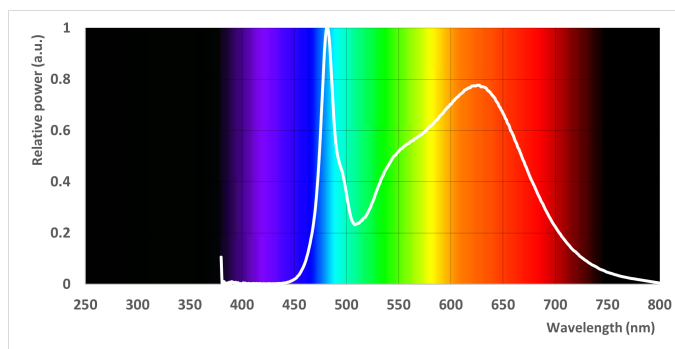


This product contains a light source of energy efficiency class E. EPREL model identifier: L71000000380-30. Registration number: 896610

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

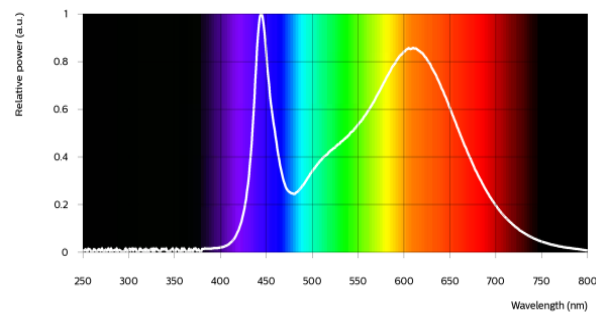


This product contains a light source of energy efficiency class E. EPREL model identifier: L71000000380-40. Registration number: 896617

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	

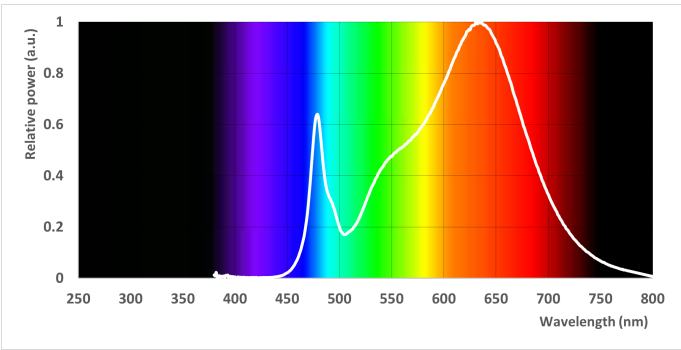
Measurement precision for flux +/- 5%, for efficacy +/- 6%., for x, y +/- 0.005, for CRI +/- 1.5



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

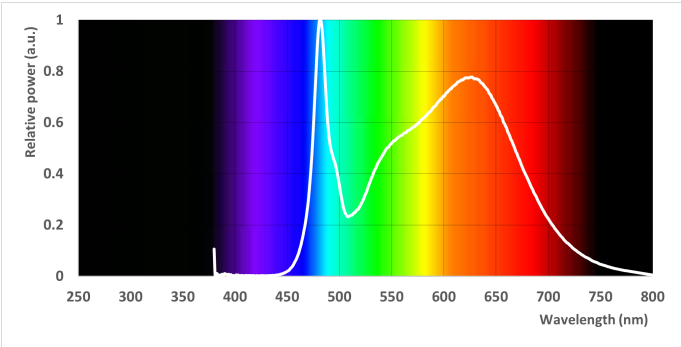


This product contains a light source of energy efficiency class E. EPREL model identifier: L71000000390-30. Registration number: 896611

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

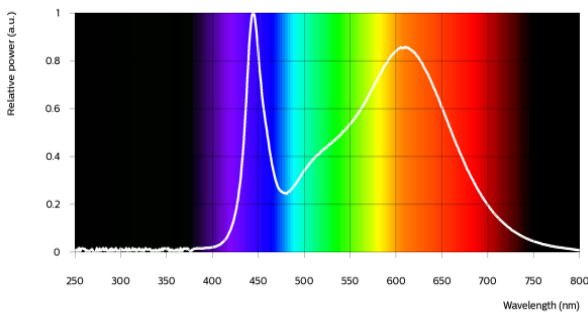


This product contains a light source of energy efficiency class E. EPREL model identifier: L71000000390-40. Registration number: 896618

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	

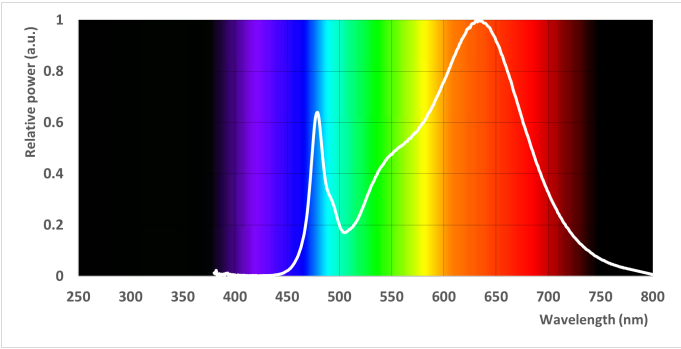
Measurement precision for flux +/- 5%, for efficacy +/- 6%., for x, y +/- 0.005, for CRI +/- 1.5



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

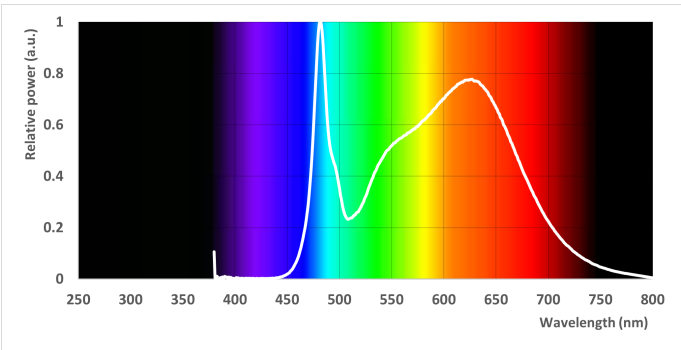


This product contains a light source of energy efficiency class E. EPREL model identifier: L71000000400-30. Registration number: 896612

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

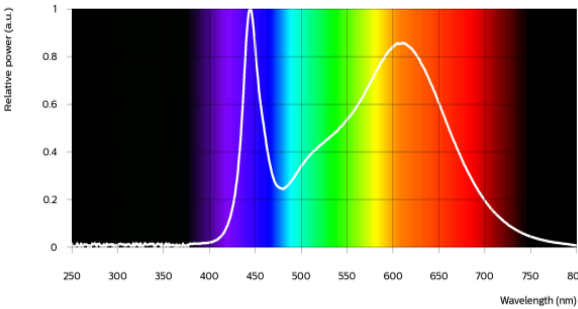


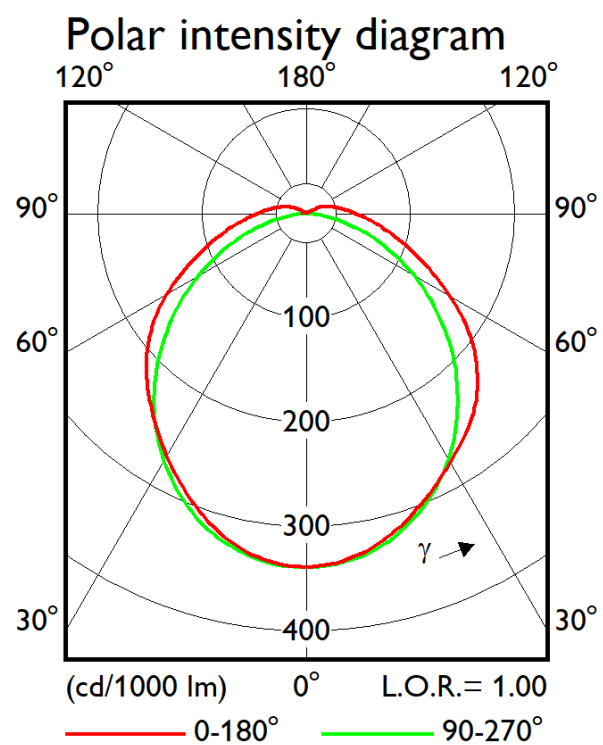
This product contains a light source of energy efficiency class E. EPREL model identifier: L71000000400-40. Registration number: 896619

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 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 830 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 830 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

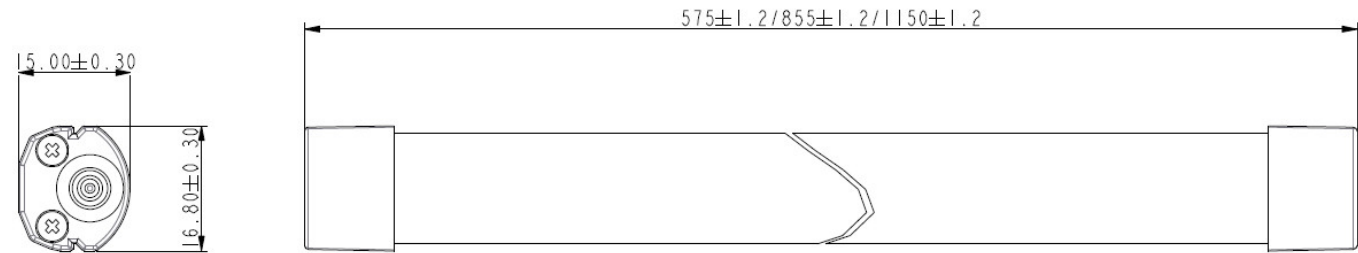
Lumen maintenance

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

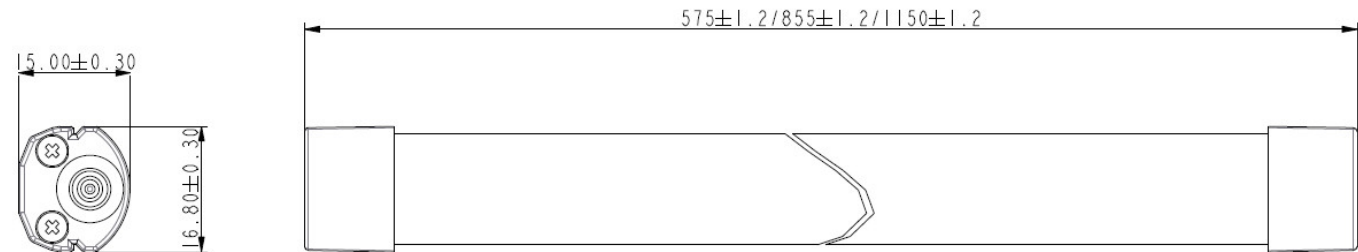
CertaFlux RDL canopy 575mm 830 G1
CertaFlux RDL canopy 575mm 840 G1
CertaFlux RDL canopy 575mm MC G1

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



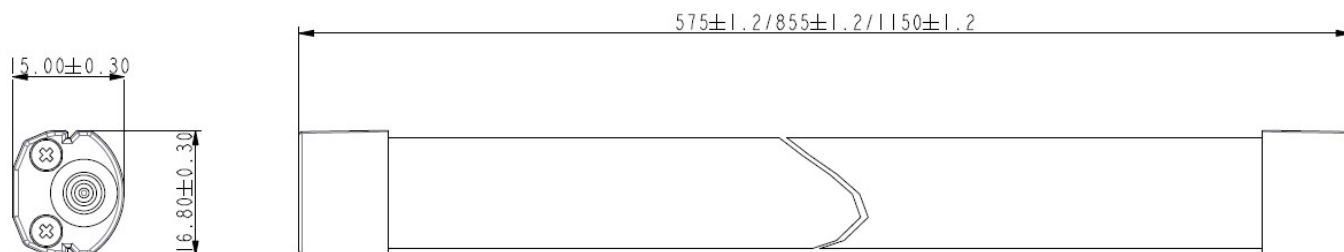
CertaFlux RDL canopy 855mm 830 G1
CertaFlux RDL canopy 855mm 840 G1
CertaFlux RDL canopy 855mm MC G1

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 canopy 1150mm 830 G1
CertaFlux RDL canopy 1150mm 840 G1
CertaFlux RDL canopy 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 (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

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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25/06/2024