

# CURLING

## Data Sheet

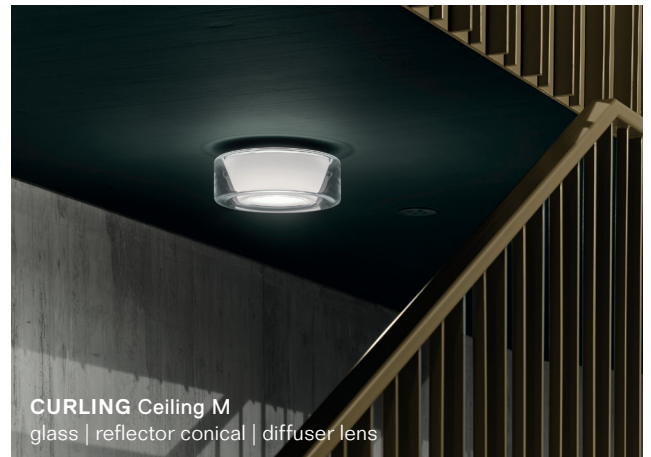
Ceiling



CURLING Ceiling M • glass | reflector cylindrical



CURLING Ceiling M • acrylic glass | reflector cylindrical



CURLING Ceiling M  
glass | reflector conical | diffuser lens



CURLING Ceiling M • glass clear | polished glass lens

# CURLING

Family

## Win with CURLING

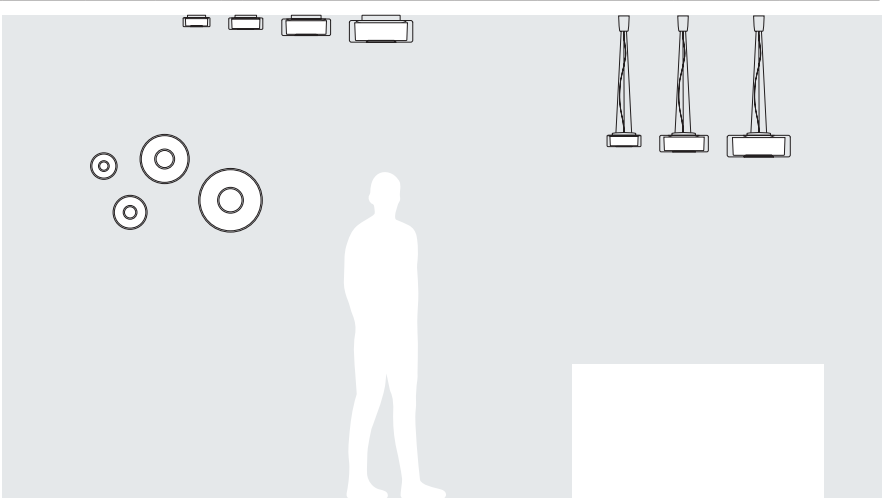
CURLING combines sustainable technology with a timelessly elegant form. Available in four different sizes with either a mouth-blown glass shade or an acrylic glass version, it comes with or without a conical or cylindrical inner reflector.

An opal diffuser beneath the light source ensures optimal light distribution. Optional optical inserts with microprismatics and various lenses produce even softer, glare-free light and offer different beam angles. The interplay of individual design elements allows for the perfect lighting atmosphere in any spatial situation.

Smart design details make CURLING both a downlight and a ceiling light. Its numerous variants can be used in virtually any setting, whether in commercial or private spaces. The acrylic version is particularly well-suited for high-traffic areas in public and semi-public environments.

Design Jean-Marc da Costa, Manfred Wolf

### overview

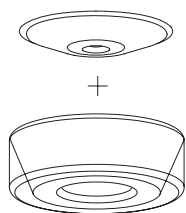


### typologies

	Ceiling	Suspension	Wall
Glass XS	● new	-	● new
Glass S	●	●	●
Glas M	●	●	●
Glass L	●	●	● new
Acrylic Glass XS	● new	-	●
Acrylic Glass S	●	●	●
Acrylic Glass M	●	●	●

### product features

#### modular item



#### DRIVER UNIT

- LED ceiling surface mounted light
- integrated control gear
- dimmable via phase dimming TRIAC, DALI or CASAMBI
- compatible with shades from the luminaire families DRAFT, DRUM und CURLING

#### CURLING

- glass or acrylic glass shade
- 4 sizes XS, S, M and L
- convenient quick-assembly of the glass shade via bayonet catch
- closed housing (IP40)

### models



#### glass shade clear

light: directed downwards,  
distributed all around



#### acrylic glass shade clear

light: directed downwards,  
distributed all around



#### glass shade clear, reflector conical

light: directed downwards,  
diffused all around



#### acrylic glass shade clear, reflector conical

light: directed downwards,  
diffused all around



#### glass shade clear, reflector cylindrical

light: directed downwards,  
diffused all around



#### acrylic glass shade clear, reflector cylindrical

light: directed downwards,  
diffused all around



#### glass shade opal

light: directed downwards,  
diffused all around



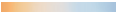

#### glass shade new silver

light: directed downwards,  
distributed all around




### materials

housing	· aluminium mirror polished
glass shade	· mouth blown crystal glass · new silver, metal-coated · opal, overlay glass
acrylic glass shade	· highly transparent polycarbonate, unbreakable
insert	· conical or cylindrical · thin-walled, translucent diffuser for a harmonious room illumination
optics	· glass lenses or diffuser glasses

### lighting technology

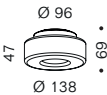
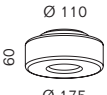
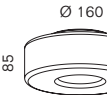

	· 2700 K · 3000 K · Dim2Warm (1800 bis 3000 K)
CRI ≥ 97 R9 ≥ 80	excellent color reproduction quality super-high CRI
2 SDCM	very high color consistency - minimal color temperature differences (MacAdam Step 2)
	Zhaga-compliant CoB holder - easy and solder-free LED assembly

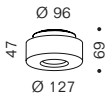
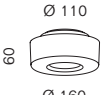
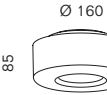
### accessories optics

		XS	S	M	L
diffuser lens		CU8556	CU8509	CU8509	CU8509
pure clear			CU8510	CU8510	CU8510
microprismatic anti-glare			CU8539	CU8536	CU8541
glass lens narrow		CU8549	CU8543	CU8555	CU8555
glass lens wide		CU8548	CU8552	CU8542	CU8542
glass lens narrow polished aluminium		CU8551	CU8545	CU8554	CU8554
glass lens wide polished aluminium		CU8550	CU8553	CU8546	CU8546
shielded		CU8547	CU8532	CU8535	CU8537

## technical data

## variants

	XS glass <b>new</b>	S glass	M glass	L glass
sizes				
weight	0,7 kg	1,5 kg	2,7 kg	4,5 kg

	XS acrylic glass <b>new</b>	S acrylic glass	M acrylic glass
sizes			
weight	0,4 kg	1,3 kg	2,4 kg

## light source

size/type	CCT	CRI	MacAdam SDCM	luminous flux (EEK)
XS <b>new</b>	2700K	Ra > 97	2 Step	110 lm/W (E)
	3000K	Ra > 97	2 Step	115 lm/W (E)
S, M, L	2700K	Ra > 97	2 Step	111 lm/W (E)
	3000K	Ra > 97	2 Step	116 lm/W (E)
S Dim2Warm	1800 - 3000 K	Ra > 95	3 Step	bis 97 lm/W (F)
M Dim2Warm	1800 - 3000 K	Ra > 95	3 Step	bis 101 lm/W (F)

Other versions (CCT/CRI) available on request.

## control gear

	XS <b>new</b>	S	M	L
TRIAC phase dimming	8 W	11 W	20 W	34 W
DALI				34 W PushDim emergency light corridorFUNCTION
DALI2	8 W PushDim	11 W PushDim	20 W PushDim	
CASAMBI	8 W	11 W	20 W	34 W

Please note: In addition to the DALI control gear, a DALI system requires a control gear and the appropriate bus wiring. In addition to the standard wiring L, N and PE, two further DALI control lines DA are required.

note



through-wiring supported

emergency light

- optional suitability for installation in emergency lighting systems
- according to IEC 61347-2-13, Annex J



- control gear can be replaced by specialists
- light source can be replaced by specialists

certificates





### lighting data

↓ The photometric data (EULUMDAT) can be downloaded from <http://serien.com/downloads/>.

#### CURLING XS new

glass shade clear,  
glass lens narrow 40°



	CRI	luminous efficacy	power	luminous flux
2700K	Ra > 97/ R9 > 80	70 lm/W	8 W	535 lm
3000K	Ra > 97/ R9 > 80	72 lm/W	8 W	562 lm

distribution (2700K)

Light: directed downwards,  
narrow beam

UGR	≤ 15,6
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#### CURLING XS new

glass shade clear,  
glass lens wide 55°



	CRI	luminous efficacy	power	luminous flux
2700K	Ra > 97/ R9 > 80	70 lm/W	8 W	535 lm
3000K	Ra > 97/ R9 > 80	72 lm/W	8 W	562 lm

distribution (2700K)

Light: directed downwards,  
wide beam

UGR	≤ 15,5
-----	--------

#### CURLING XS new

glass shade clear,  
reflector cylindrical,  
diffuser lens



	CRI	luminous efficacy	power	luminous flux
2700K	Ra > 97/ R9 > 80	60 lm/W	8 W	458 lm
3000K	Ra > 97/ R9 > 80	62 lm/W	8 W	481 lm

distribution (2700K)

Light: directed downwards,  
diffuse all around

UGR	≤ 16,3
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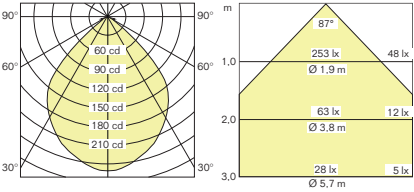
lighting data

The photometric data (EULUMDAT) can be downloaded from <http://serien.com/downloads/>.

CURLING XS new

glass shade clear,  
reflector conical,  
diffuser lens



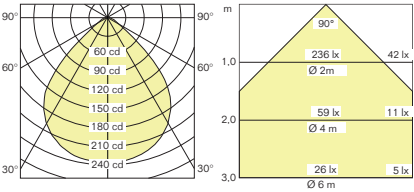
	CRI	luminous efficacy	power	luminous flux
2700K	Ra > 97/ R9 > 80	60 lm/W	8 W	458 lm
3000K	Ra > 97/ R9 > 80	62 lm/W	8 W	481 lm
distribution (2700K)				
UGR	≤ 16,3			

Light: directed downwards,  
diffuse all around

CURLING XS new

glass shade opal,  
diffuser lens



	CRI	luminous efficacy	power	luminous flux
2700K	Ra > 97/ R9 > 80	60 lm/W	8 W	463 lm
3000K	Ra > 97/ R9 > 80	63 lm/W	8 W	486 lm
distribution (2700K)				
UGR	≤ 16,7			

Light: directed downwards,  
diffuse all around



### lighting data

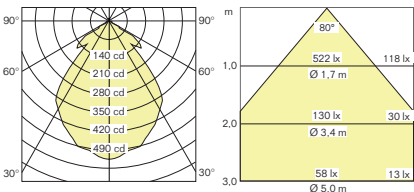
↓ The photometric data (EULUMDAT) can be downloaded from <http://serien.com/downloads/>.

#### CURLING S

glass shade clear

	CRI	luminous efficacy	power	luminous flux
2700K	Ra > 97/ R9 > 80	90 lm/W	11 W	978 lm
3000K	Ra > 97/ R9 > 80	94 lm/W	11 W	1027 lm

distribution (2700K)



Light: directed downwards, distributed all around

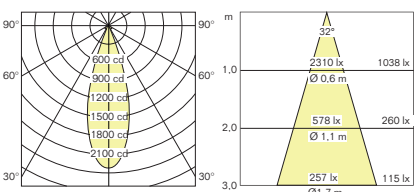
UGR ≤ 18,9

#### CURLING S

glass shade clear,  
glass lens narrow 32°

	CRI	luminous efficacy	power	luminous flux
2700K	Ra > 97/ R9 > 80	89 lm/W	11 W	968 lm
3000K	Ra > 97/ R9 > 80	93 lm/W	11 W	1016 lm

distribution (2700K)



Light: directed downwards, narrow beam

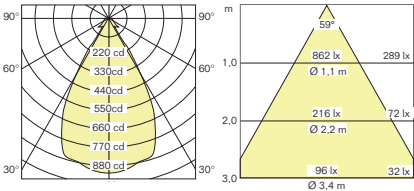
UGR ≤ 17,2

#### CURLING S

glass shade clear,  
glass lens wide 59°

	CRI	luminous efficacy	power	luminous flux
2700K	Ra > 97/ R9 > 80	86 lm/W	11 W	947 lm
3000K	Ra > 97/ R9 > 80	90 lm/W	11 W	994 lm

distribution (2700K)



Light: directed downwards, wide beam

UGR ≤ 16,3

### lighting data

↓ The photometric data (EULUMDAT) can be downloaded from <http://serien.com/downloads/>.

#### CURLING S

glass shade clear,  
reflector conical,  
diffuser lens



	CRI	luminous efficacy	power	luminous flux
2700K	Ra > 97/ R9 > 80	64lm/W	11 W	697 lm
3000K	Ra > 97/ R9 > 80	67lm/W	11 W	732lm

distribution (2700K)

Distance (m)	Beam Diameter (m)	Center Illuminance (lx)	Edge Illuminance (lx)
1.0	Ø 1.6 m	418 lx	100 lx
2.0	Ø 3.2 m	105 lx	25 lx
3.0	Ø 4.8 m	46 lx	11 lx

Light: directed downwards,  
diffuse all around

UGR ≤ 15,6

#### CURLING S

glass shade clear,  
reflector cylindrical,  
diffuser lens



	CRI	luminous efficacy	power	luminous flux
2700K	Ra > 97/ R9 > 80	64lm/W	11 W	697 lm
3000K	Ra > 97/ R9 > 80	67lm/W	11 W	732lm

distribution (2700K)

Distance (m)	Beam Diameter (m)	Center Illuminance (lx)	Edge Illuminance (lx)
1.0	Ø 1.6 m	418 lx	100 lx
2.0	Ø 3.2 m	105 lx	25 lx
3.0	Ø 4.8 m	46 lx	11 lx

Light: directed downwards,  
diffuse all around

UGR ≤ 15,6

#### CURLING S

glass shade opal,  
diffuser lens



	CRI	luminous efficacy	power	luminous flux
2700K	Ra > 97/ R9 > 80	65lm/W	11 W	704 lm
3000K	Ra > 97/ R9 > 80	70lm/W	11 W	754 lm

distribution (2700K)

Distance (m)	Beam Diameter (m)	Center Illuminance (lx)	Edge Illuminance (lx)
1.0	Ø 1.9 m	372 lx	73 lx
2.0	Ø 3.7 m	93 lx	18 lx
3.0	Ø 5.6 m	41 lx	8 lx

Light: directed downwards,  
diffuse all around

UGR ≤ 16,4

### lighting data

↓ The photometric data (EULUMDAT) can be downloaded from <http://serien.com/downloads/>.

#### CURLING S

glass shade  
new silver



	CRI	luminous efficacy	power	luminous flux
2700K	Ra > 97/ R9 > 80	61 lm/W	11 W	654 lm
3000K	Ra > 97/ R9 > 80	63 lm/W	11 W	678 lm

Light: directed downwards,  
distributed all around

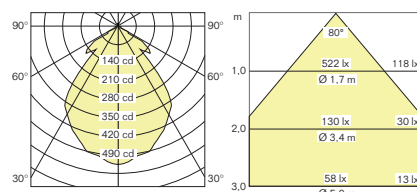
#### CURLING S

acrylic glass shade  
clear



	CRI	luminous efficacy	power	luminous flux
2700K	Ra > 97/ R9 > 80	90 lm/W	11 W	978 lm
3000K	Ra > 97/ R9 > 80	94 lm/W	11 W	1027 lm

distribution (2700K)



Light: directed downwards,  
distributed all around

UGR ≤ 18,9

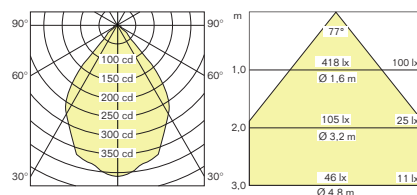
#### CURLING S

acrylic glass shade  
clear,  
reflector conical  
diffuser lens



	CRI	luminous efficacy	power	luminous flux
2700K	Ra > 97/ R9 > 80	64 lm/W	11 W	697 lm
3000K	Ra > 97/ R9 > 80	67 lm/W	11 W	732 lm

distribution (2700K)



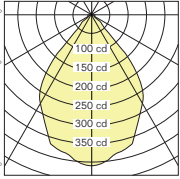
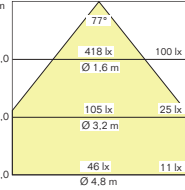
Light: directed downwards,  
diffuse all around

UGR ≤ 15,6

lighting data

The photometric data (EULUMDAT) can be downloaded from <http://serien.com/downloads/>.

**CURLING S**  
acrylic glass shade  
clear,  
reflector cylindrical,  
diffuser lens

	CRI	luminous efficacy	power	luminous flux
2700K	Ra > 97/ R9 > 80	64lm/W	11 W	697 lm
3000K	Ra > 97/ R9 > 80	67lm/W	11 W	732lm
distribution (2700K)	<div><div></div><div></div></div> <div>Light: directed downwards, diffuse all around</div>			
UGR	≤ 15,6			



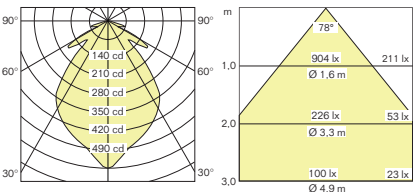
### lighting data

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#### CURLING M

glass shade clear

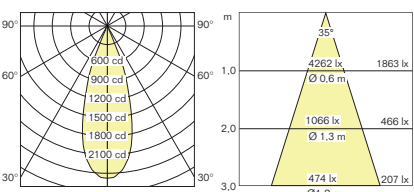


	CRI	luminous efficacy	power	luminous flux
2700K	Ra > 97/ R9 > 80	87 lm/W	20W	1670lm
3000K	Ra > 97/ R9 > 80	91lm/W	20W	1754lm
distribution (2700K)				
				
UGR	≤ 19,9			

#### CURLING M

glass shade clear,  
glass lens narrow 35°

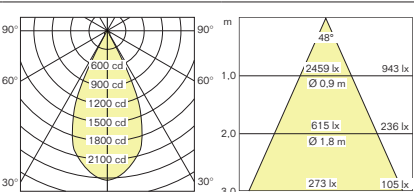


	CRI	luminous efficacy	power	luminous flux
2700K	Ra > 97/ R9 > 80	87 lm/W	20W	1701 lm
3000K	Ra > 97/ R9 > 80	92 lm/W	20W	1786 lm
distribution (2700K)				
				
UGR	≤ 13,1			

#### CURLING M

glass shade clear,  
glass lens wide 48°



	CRI	luminous efficacy	power	luminous flux
2700K	Ra > 97/ R9 > 80	84 lm/W	20W	1622 lm
3000K	Ra > 97/ R9 > 80	89 lm/W	20W	1703 lm
distribution (2700K)				
				
UGR	≤ 13,3			

### lighting data

↓ The photometric data (EULUMDAT) can be downloaded from <http://serien.com/downloads/>.

#### CURLING M

glass shade clear,  
reflector conical,  
diffuser lens



	CRI	luminous efficacy	power	luminous flux
2700K	Ra > 97/ R9 > 80	59 lm/W	20W	1129lm
3000K	Ra > 97/ R9 > 80	62lm/W	20W	1185lm

distribution (2700K)

Light: directed downwards,  
diffuse all around

UGR ≤ 16

#### CURLING M

glass shade clear,  
reflector cylindrical,  
diffuser lens



	CRI	luminous efficacy	power	luminous flux
2700K	Ra > 97/ R9 > 80	59 lm/W	20W	1129lm
3000K	Ra > 97/ R9 > 80	62lm/W	20W	1185lm

distribution (2700K)

Light: directed downwards,  
diffuse all around

UGR ≤ 16

#### CURLING M

glass shade opal,  
diffuser lens



	CRI	luminous efficacy	power	luminous flux
2700K	Ra > 97/ R9 > 80	57 lm/W	20W	1108lm
3000K	Ra > 97/ R9 > 80	59lm/W	20W	1157lm

distribution (2700K)

Light: directed downwards,  
diffuse all around

UGR ≤ 15,5

### lighting data

↓ The photometric data (EULUMDAT) can be downloaded from <http://serien.com/downloads/>.

#### CURLING M

glass shade  
new silver



	CRI	luminous efficacy	power	luminous flux
2700K	Ra > 97/ R9 > 80	57 lm/W	20W	1108lm
3000K	Ra > 97/ R9 > 80	59 lm/W	20W	1157lm

Light: directed downwards,  
distributed all around

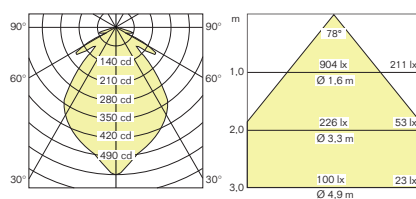
#### CURLING M

acrylic glass shade  
clear



	CRI	luminous efficacy	power	luminous flux
2700K	Ra > 97/ R9 > 80	87 lm/W	20W	1670lm
3000K	Ra > 97/ R9 > 80	91 lm/W	20W	1754lm

distribution (2700K)



Light: directed downwards,  
distributed all around

UGR ≤ 19,9

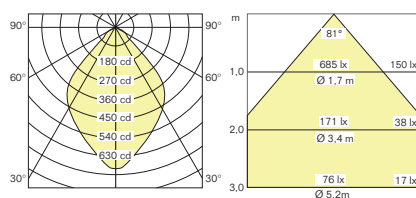
#### CURLING M

acrylic glass shade  
clear,  
reflector conical,  
diffuser lens



	CRI	luminous efficacy	power	luminous flux
2700K	Ra > 97/ R9 > 80	59 lm/W	20W	1129lm
3000K	Ra > 97/ R9 > 80	62 lm/W	20W	1185lm

distribution (2700K)



Light: directed downwards,  
diffuse all around

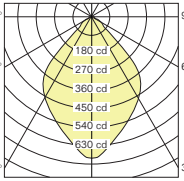
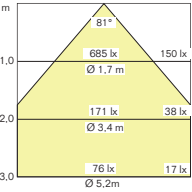
UGR ≤ 16



lighting data

The photometric data (EULUMDAT) can be downloaded from <http://serien.com/downloads/>.

CURLING M  
acrylic glass shade  
clear,  
reflector cylindrical,  
diffuser lens

	CRI	luminous efficacy	power	luminous flux
2700K	Ra > 97/ R9 > 80	59lm/W	20W	1129lm
3000K	Ra > 97/ R9 > 80	62lm/W	20W	1185lm
distribution (2700K)	<div><div></div><div></div></div> <div>Light: directed downwards, diffuse all around</div>			
UGR	≤ 16			



# CURLING

Ceiling

## lighting data

↓ The photometric data (EULUMDAT) can be downloaded from <http://serien.com/downloads/>.

### CURLING L

glass shade clear



	CRI	luminous efficacy	power	luminous flux
2700K	Ra > 97/ R9 > 80	85 lm/W	34 W	2915 lm
3000K	Ra > 97/ R9 > 80	89 lm/W	34 W	3060 lm

distribution (2700K)

Light: directed downwards, distributed all around

UGR ≤ 20,2

### CURLING L

glass shade clear,  
reflector conical,  
diffuser lens



	CRI	luminous efficacy	power	luminous flux
2700K	Ra > 97/ R9 > 80	64 lm/W	34 W	2159 lm
3000K	Ra > 97/ R9 > 80	67 lm/W	34 W	2267 lm

distribution (2700K)

Light: directed downwards, diffuse all around

UGR ≤ 15,6

### CURLING L

glass shade clear,  
reflector cylindrical,  
diffuser lens





	CRI	luminous efficacy	power	luminous flux
2700K	Ra > 97/ R9 > 80	64 lm/W	34 W	2159 lm
3000K	Ra > 97/ R9 > 80	67 lm/W	34 W	2267 lm

distribution (2700K)

Light: directed downwards, diffuse all around

UGR ≤ 15,6

### Information

+ C	+C indicates products with pre-programmed CASAMBI module integrated in the luminaire. The CASAMBI functionality is basically applicable to all our products. For the different possibilities of integration (depending on the temperature) – in the luminaire, in the suspended ceiling, in the switch or the distribution box) we will be pleased to inform you. CASAMBI is a lighting control system which is operated via Bluetooth and can be integrated completely into the luminaire or behind the light switch. It is controlled via mobile devices using the free CASAMBI app, making its operation simple and intuitive. CASAMBI expands the possibilities of control with new options such as dimming, the programming of specific scenarios or groups, automations and many more. For further information, please visit <a href="http://www.casambi.com">www.casambi.com</a> .
CCT	CCT (Correlated Color Temperature) is the colour temperature of an LED and is specified in Kelvin (K). We supply LED lights with a colour temperature of 2700 K at short notice. LED lights with a color temperature of 3000 K and higher usually have longer delivery times.
CRI	Colour Rendering Index
D2W	Dim2Warm refers to a luminaire functionality that imitates the pleasant dimming behavior of classic incandescent lamps. When dimmed, the light not only becomes darker, but also changes its colour to warm white tone.
DALI 1-10 V	5-core mains cable required for control via DALI or 1–10 V. All LED luminaires operated with DALI power supply units are suitable for use in emergency lighting systems.
Lumen	The luminous flux (lumen) specifications are nominal values, i.e. pure module luminous flux values. The luminous flux indicates how much light radiates in all directions.
TW	Luminaires with this characteristic have variable colour temperature control from warm to cool white light.
UGR	Unified Glare Rating
IP	Protection class
LOR	The luminaire operating efficiency is given as a LOR value (Light Output Ratio) in percent.
	The crossed-out wheeled bin indicates that this electrical appliance must not be disposed of via household waste. In order to protect human health and the environment against potentially hazardous substances, at the end of its lifecycle this product can be taken to a collection point close to you and disposed of free of charge there. This separate disposal enables electrical appliances to be reused or recycled.
	<b>At <a href="http://www.serien.com/downloads">www.serien.com/downloads</a></b> you will find helpful information and the latest technical data: Data sheets, catalogues, price lists, lighting data (EULUMDAT), 3D CAD data, EU Energy labels, declarations of conformity, returns form, FAQs, assembly instructions, drilling templates and other service instructions.
✓	This data sheet supersedes all previously published data sheet. The drawings shown in this document are for informational purposes only. Although great care has been taken when creating them, their proportions may not correctly reflect the proportions of the real product.
	All values are rated values. Power and luminous flux are subject to an initial tolerance of +/- 10%. Tolerance of color temperature: +/-150 K. When not otherwise indicated the values apply for an ambient temperature of 25 °C. The specified nominal and measured values refer to the illuminants used at the time the data sheet was prepared. Omissions excepted.

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