

# CURLING

## Data Sheet

Ceiling M LED



Curling perfectly combines sustainable LED technology with elegant and timeless design. Thanks to intelligent design details, Curling functions both as a downlight and a ceiling light and is perfectly suitable for a wide range of applications.

Examples of applications:  
Private and commercial spaces. Singly and in series.  
As basic lighting in corridors, entrance halls, suites.  
In offices, hotels, restaurants. For rooms with high and low ceilings.

### Technical data sheet

The delicate glass body is available in clear or opalescent glass or as a clear outer shell with cylindrical or conical inserts. The perfect interplay of the individual design elements means light emission and moods can be perfectly tailored to every interior setting. A special optical insert, attached below the light source with two small magnets, allows for ideal light distribution and soft, glare-free light.

Design da Costa & Wolf

### Awards

Iconic Awards 2016: Interior Innovation – Best of Best

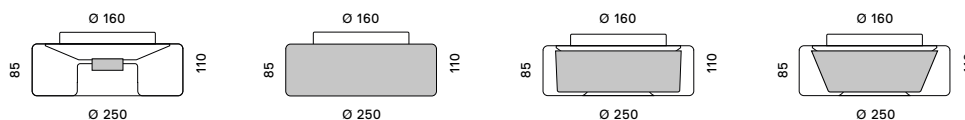


### Material & surfaces



Material canopy	aluminum			
Surface canopy	polished			
Glass shade	mouth-blown clear	mouth-blown opal	mouth-blown clear	mouth-blown clear
Reflector	optical insert	optical insert	cylindrical opal acrylic glass and optical insert	conical opal acrylic glass and optical insert

### Maße



### Technical data

Illuminant	LED CoB (The LED circuit board can be replaced by qualified staff)								
Power (nominal value)	13 W	24 W	13 W	24 W	13 W	24 W	13 W	24 W	
Luminous flux LED (nominal value) <sup>1</sup> / Color temperature	2700K	1300 lm	2600 lm	1300 lm	2600 lm	1300 lm	2600 lm	1300 lm	2600 lm
	3000K	1360 lm	2700 lm	1360 lm	2700 lm	1360 lm	2700 lm	1360 lm	2700 lm
Color rendering index	> 90 CRI (other color rendering indices available on request)								
Operating voltage	primary 220 – 240 V AC, secondary 36 V DC (13 W and 24 W models also available as primary 110 V AC, secondary 36 V DC)								
Control <sup>4</sup>	TRIAC	DALI 1 – 10 V	TRIAC	DALI 1 – 10 V	TRIAC	DALI 1 – 10 V	TRIAC	DALI 1 – 10 V	
Average lifetime LED	50.000 h <sup>2</sup>								
Energy efficiency class	A++ to A								
Guarantee	2 years								
Mounting	easy tool-free mounting of glass shade via bayonet catch								
Weight	ca. 2.1 kg								




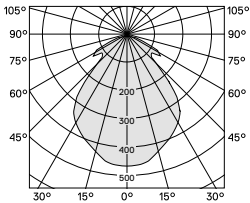

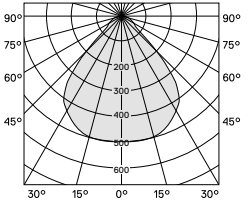

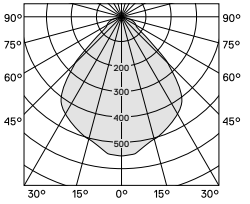

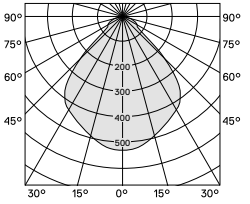
The crossed-out wheelee bin indicates that this electrical appliance must not be disposed of via household waste. In order to protect human health and the environment against potentially hazardous substances, at the end of its lifecycle this product can be taken to a collection point close to you and disposed of free of charge there. This separate disposal enables electrical appliances to be reused or recycled.

# CURLING

## Ceiling M LED

### Photometric data sheet

Depending on the version Curling Ceiling combines downwards-directed light with light softly dispersed all round or with light distributed all round. Thanks to a standardized replacement system, the LED circuit board can be replaced by qualified staff at the end of its service life.

			Power (measured value) <sup>1</sup>	Color Temperature	CRI	Luminous flux (measured value) <sup>1</sup>
<b>Curling Ceiling M LED</b> Clear glass shade  Light: directed downwards, distributed all round		 <p>LOR 89 %</p>	14 W	2700 K	80	1320 lm
				90	1150 lm	
			28 W	3000 K	80	1390 lm
				90	1200 lm	
				2700 K	80	2640 lm
				90	2300 lm	
<b>Curling Ceiling M LED</b> Opal glass shade  Light: directed downwards, all round softly dispersed		 <p>LOR 78 %</p>	14 W	2700 K	80	1170 lm
				90	1020 lm	
			28 W	3000 K	80	1230 lm
				90	1050 lm	
				2700 K	80	2330 lm
				90	2030 lm	
<b>Curling Ceiling M LED</b> Clear glass shade Reflector cylindrical opal  Light: directed downwards, all round softly dispersed		 <p>LOR 78 %</p>	14 W	2700 K	80	1170 lm
				90	1020 lm	
			28 W	3000 K	80	1230 lm
				90	1050 lm	
				2700 K	80	2330 lm
				90	2030 lm	
<b>Curling Ceiling M LED</b> Clear glass shade Reflector conical opal  Light: directed downwards, all round softly dispersed		 <p>LOR 79 %</p>	14 W	2700 K	80	1170 lm
				90	1020 lm	
			28 W	3000 K	80	1230 lm
				90	1060 lm	
				2700 K	80	2340 lm
				90	2040 lm	
				3000 K	80	2460 lm
				90	2120 lm	

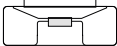



Please note:

You can download the photometric data (EULUMDAT) from <http://serien.com/downloads/>.

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.

### Article numbers

		Output (nominal value) <sup>1</sup>	Control Technology <sup>4</sup>	CRI <sup>3</sup>	Color Temperature <sup>3</sup>	Article Number	
	<b>Curling Ceiling M LED</b> Clear glass shade	13 W	TRIAC	> 90	2700 K	CU1101	
					3000 K	CU1105	
		24 W	DALI	> 90	2700 K	CU1161	
					3000 K	CU1165	
					1 – 10 V	2700 K	CU1109
						3000 K	CU1113
	<b>Curling Ceiling M LED</b> Opal glass shade	13 W	TRIAC	> 90	2700 K	CU1104	
					3000 K	CU1108	
		24 W	DALI	> 90	2700 K	CU1164	
					3000 K	CU1168	
					1 – 10 V	2700 K	CU1112
						3000 K	CU1116
	<b>Curling Ceiling M LED</b> Clear glass shade Reflector cylindrical opal	13 W	TRIAC	> 90	2700 K	CU1103	
					3000 K	CU1107	
		24 W	DALI	> 90	2700 K	CU1163	
					3000 K	CU1167	
					1 – 10 V	2700 K	CU1111
						3000 K	CU1115
	<b>Curling Ceiling M LED</b> Clear glass shade Reflector conical opal	13 W	TRIAC	> 90	2700 K	CU1102	
					3000 K	CU1106	
		24 W	DALI	> 90	2700 K	CU1162	
					3000 K	CU1166	
					1 – 10 V	2700 K	CU1110
						3000 K	CU1114

### Recommended dimmers

The following list is the result of internal tests conducted in a controlled environment. However, in some cases there is a possibility that owing to technical specifications (e. g., drivers, cables, switches, etc.) a specific combination of dimmer and LEDs does not work. As such our recommendations do not represent a guarantee.

<b>Curling Ceiling M LED</b>	13 W	TRIAC	MERTEN MEG5300-0001 FELLER 40200.LED.EB
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<sup>1</sup> The nominal and measured values given refer to the illuminants employed at the time the data sheet was compiled. Subject to alterations.

<sup>2</sup> Specified by the manufacturer. serien Raumeuchten GmbH assumes no liability for the accuracy of the information.

<sup>3</sup> Other versions available on request.

<sup>4</sup> Control via DALI or 1-10V requires 5-wire mains cable.