CURLING
Data Sheet

Ceiling S LED

CURLING Ceiling S LED · clear

CURLING Ceiling S LED · opal

CURLING Ceiling S LED · reflector: cylindrical opal

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.

CURLING

Ceiling S LED

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

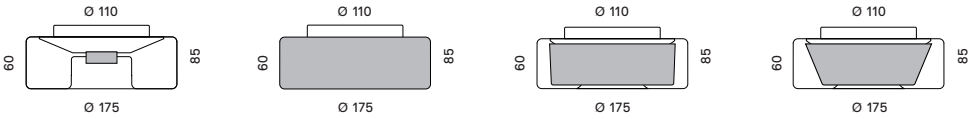
Awards

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

Dimensions



Technical data

Illuminant		LED CoB (LED unit can be replaced on site)			
Power		11 W			
Luminous flux LED (nominal value)[1] / Color temperature	2700K	950 lm			
	3000K	1000 lm			
Color rendering index	> 90 CRI (other color rendering indices available on request)				
Operating voltage	primary 220 – 240 V AC, secondary 36 V DC				
Control	TRIAC				
Average lifetime LED	50.000 h[2]				
Energy efficiency class	A++ to A				
Guarantee	2 years				
Features	glass shade mounted tool-free; 110 V versions on request				
Weight	ca. 1.0 kg				

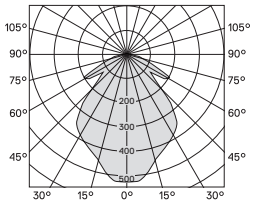
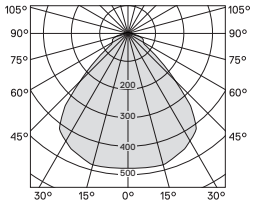
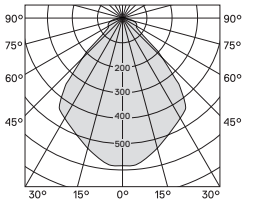
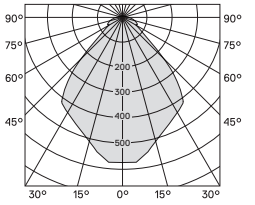
IP20

CURLING

Ceiling S 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)[1]	Color Temperature	CRI	Luminous flux (measured value)[1]
Curling Ceiling S LED Clear glass shade Light: directed downwards, decorative all around		 LOR 85 %	11 W	2700 K	80	950 lm
					90	800 lm
				3000 K	80	1020 lm
					90	820 lm
Curling Ceiling S LED Opal glass shade Light: directed downwards, diffuse all around		 LOR 75 %	11 W	2700 K	80	850 lm
					90	700 lm
				3000 K	80	900 lm
					90	750 lm
Curling Ceiling S LED Clear glass shade Reflector cylindrical opal Light: directed downwards, diffuse all around		 LOR 75 %	11 W	2700 K	80	850 lm
					90	700 lm
				3000 K	80	900 lm
					90	750 lm
Curling Ceiling S LED Clear glass shade Reflector conical opal Light: directed downwards, diffuse all around		 LOR 75 %	11 W	2700 K	80	850 lm
					90	700 lm
				3000 K	80	900 lm
					90	750 lm

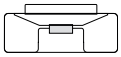
Please note:
You can download the photometric data (EULUMDAT) from http://serien.com/downloads/.

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.

CURLING

Ceiling S LED

Article numbers

		Output (nominal value)[1]	Control Technology[4]	CRI[3]	Color Temperature[3]	Article Number
	**Curling Ceiling S LED** Clear glass shade	11 W	TRIAC	> 90	2700 K	CU1001
					3000 K	CU1005
	**Curling Ceiling S LED** Opal glass shade	11 W	TRIAC	> 90	2700 K	CU1004
					3000 K	CU1008
	**Curling Ceiling S LED** Clear glass shade Reflector cylindrical opal	11 W	TRIAC	> 90	2700 K	CU1003
					3000 K	CU1007
	**Curling Ceiling S LED** Clear glass shade Reflector conical opal	11 W	TRIAC	> 90	2700 K	CU1002
					3000 K	CU1006

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.

Curling Ceiling S LED with driver ELT (A-1201)	**Distributed until March 2017**	11 W	TRIAC	Merten MEG5300-0001 Feller 40200.LED.EB Jung 225 NV DE Berker 286710	
Curling Ceiling S LED with driver Sinchun (P-4270)	**Distributed after 1st quarter of 2017**	11 W	TRIAC	Busch Jäger 6513 U-102 Busch Jäger 6523 U Berker 286710 Eltako EUD61NPN-UC Feller 40200.LED.EB	Jung 225 TDE Merten MEG5300-0001 Schalk ETD U2 Schalk F03 U2E

[1] The nominal and measured values given refer to the illuminants employed at the time the data sheet was compiled. Subject to alterations.
[2] Specified by the manufacturer. serien Raumleuchten GmbH assumes no liability for the accuracy of the information.
[3] Other versions available on request.

CURLING
Data Sheet

Ceiling M LED

CURLING Ceiling M LED · clear

CURLING Ceiling M LED · reflector: cylindrical opal

CURLING Ceiling M LED · reflector: conical opal

CURLING Ceiling M LED · opal

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CURLING

Ceiling M LED

Technical data sheet

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Design da Costa & Wolf

Awards

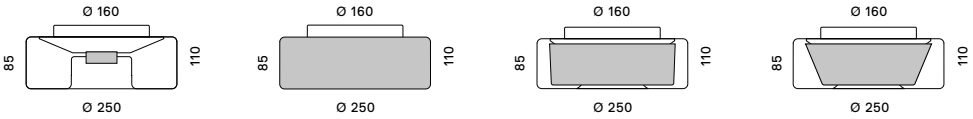
Iconic Awards 2016: Interior Innovation – Best of Best

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)[1] / 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[4]		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[2]							
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							

IP20 CE

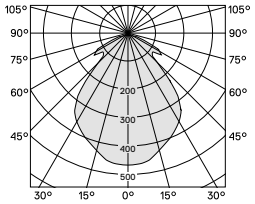
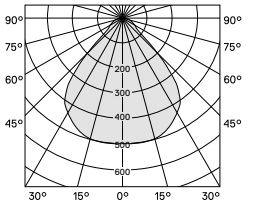
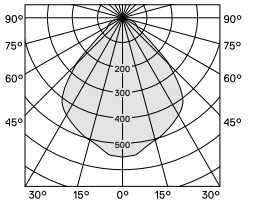
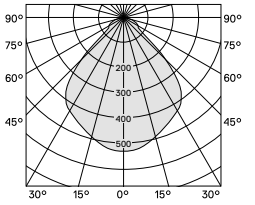
The crossed-out wheelie bin indicates that this electrical appliance must not be disposed of via household waste. In order to protect human health and the environment against potentially hazardous substances, at the end of its lifecycle this product can be taken to a collection point close to you and 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)[1]	Color Temperature	CRI	Luminous flux (measured value)[1]
Curling Ceiling M LED Clear glass shade			14 W	2700 K	80	1320 lm
					90	1150 lm
				3000 K	80	1390 lm
					90	1200 lm
			28 W	2700 K	80	2640 lm
					90	2300 lm
				3000 K	80	2780 lm
Light: directed downwards, distributed all round		LOR 89 %			90	2390 lm
Curling Ceiling M LED Opal glass shade			14 W	2700 K	80	1170 lm
					90	1020 lm
				3000 K	80	1230 lm
					90	1050 lm
			28 W	2700 K	80	2330 lm
					90	2030 lm
				3000 K	80	2450 lm
Light: directed downwards, all round softly dispersed		LOR 78 %			90	2100 lm
Curling Ceiling M LED Clear glass shade Reflector cylindrical opal			14 W	2700 K	80	1170 lm
					90	1020 lm
				3000 K	80	1230 lm
					90	1050 lm
			28 W	2700 K	80	2330 lm
					90	2030 lm
				3000 K	80	2450 lm
Light: directed downwards, all round softly dispersed		LOR 78 %			90	2100 lm
Curling Ceiling M LED Clear glass shade Reflector conical opal			14 W	2700 K	80	1170 lm
					90	1020 lm
				3000 K	80	1230 lm
					90	1060 lm
			28 W	2700 K	80	2340 lm
					90	2040 lm
				3000 K	80	2460 lm
Light: directed downwards, all round softly dispersed		LOR 79 %			90	2120 lm

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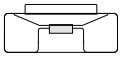
Tolerance of color temperature: +/-150 K. When not otherwise indicated the values apply for an ambient temperature of 25 °C.

CURLING

Ceiling M LED

Article numbers

		Output (nominal value)[1]	Control Technology[4]	CRI[3]	Color Temperature[3]	Article Number
	**Curling Ceiling M LED** 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	> 90	2700 K	CU1109
					3000 K	CU1113
	**Curling Ceiling M LED** 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	> 90	2700 K	CU1112
					3000 K	CU1116
	**Curling Ceiling M LED** 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	> 90	2700 K	CU1111
					3000 K	CU1115
	**Curling Ceiling M LED** 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	> 90	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.

Curling Ceiling M LED	13 W	TRIAC	MERTEN MEG5300-0001 FELLER 40200.LED.EB

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[3] Other versions available on request.
[4] Control via DALI or 1-10V requires 5-wire mains cable.

CURLING
Datenblatt

Ceiling L LED

CURLING Ceiling L LED · reflector: cylindrical opal

CURLING Ceiling L LED · clear

CURLING Ceiling L LED · opal

CURLING Ceiling L LED · reflector: cylindrical opal

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CURLING

Ceiling L LED

Technical data sheet

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Design da Costa & Wolf

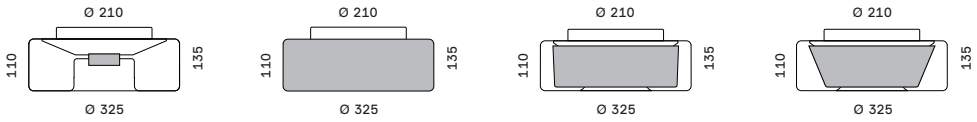
Awards

Iconic Awards 2016: Interior Innovation – Best of Best

Material & surfaces


Material canopy	aluminum			
Surface canopy	polished			
Glass shade	mouth-blown clear	mundgeblasen 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

Dimensions



Technical data

Illuminant	LED CoB (The LED circuit board can be replaced by qualified staff)				
Power (nominal value)[1]	34 W				
Luminous flux LED (nominal value)[1] / Color temperature	2700K	2810 lm	2260 lm	2310 lm	2220 lm
	3000K	3280 lm	2640 lm	2700lm	2590 lm
Color rendering index	> 90 CRI (other color rendering indices available on request)				
Operating voltage	primary 220 – 240 V AC, secondary 36 V DC				
Control	TRIAC / DALI / 1 – 10 V				
Average lifetime LED	50.000 h[2]				
Energy efficiency class	A++ to A				
Guarantee	2 years				
Mounting	easy tool-free mounting of glass shade via bayonet catch				
Weight	ca. 3.6 kg				

IP20

The crossed-out wheelie 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.

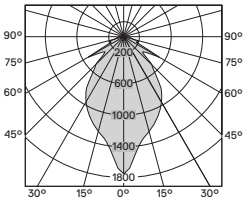
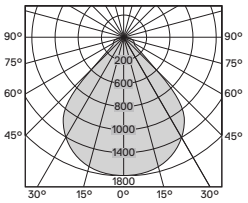
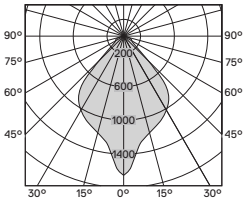
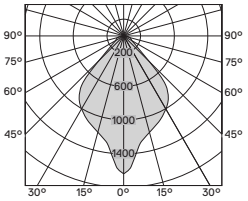
 As per September 2017

CURLING

Ceiling L 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)	Color Temperature	CRI	Luminous flux (measured value)[1]
Curling Ceiling L LED Clear glass shade Light: directed downwards, distributed all round		 LOR 90 %	33,2 W	2700 K	80	3380 lm
					90	2810 lm
				3000 K	80	3970 lm
					90	3280 lm
Curling Ceiling L LED Opal glass shade Light: directed downwards, all round softly dispersed		 LOR 75 %	33,2 W	2700 K	80	2720 lm
					90	2260 lm
				3000 K	80	3190 lm
					90	2640 lm
Curling Ceiling L LED Clear glass shade Reflector cylindrical opal Light: directed downwards, all round softly dispersed		 LOR 75 %	33,2 W	2700 K	80	2780 lm
					90	2310 lm
				3000 K	80	3270 lm
					90	2700 lm
Curling Ceiling L LED Clear glass shade Reflector conical opal Light: directed downwards, all round softly dispersed		 LOR 75 %	33,2 W	2700 K	80	2670 lm
					90	2220 lm
				3000 K	80	3130 lm
					90	2590 lm

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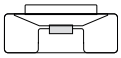
Tolerance of color temperature: +/-150 K. When not otherwise indicated the values apply for an ambient temperature of 25 °C.

CURLING

Ceiling L LED

Article numbers

		Output (nominal value)[1]	Control Technology[4]	CRI[3]	Color Temperature[3]	Article Number
	Curling Ceiling L LED Clear glass shade	34 W	TRIAC	> 90	2700 K	CU1317
					3000 K	CU1321
			DALI	> 90	2700 K	CU1301
					3000 K	CU1305
			1 – 10 V	> 90	2700 K	CU1309
					3000 K	CU1313
	Curling Ceiling L LED Opal glass shade	34 W	TRIAC	> 90	2700 K	CU1320
					3000 K	CU1324
			DALI	> 90	2700 K	CU1304
					3000 K	CU1308
			1 – 10 V	> 90	2700 K	CU1312
					3000 K	CU1316
	Curling Ceiling S LED Clear glass shade Reflector cylindrical opal	34 W	TRIAC	> 90	2700 K	CU1319
					3000 K	CU1323
			DALI	> 90	2700 K	CU1303
					3000 K	CU1307
			1 – 10 V	> 90	2700 K	CU1311
					3000 K	CU1315
	Curling Ceiling S LED Clear glass shade Reflector conical opal	34 W	TRIAC	> 90	2700 K	CU1318
					3000 K	CU1322
			DALI	> 90	2700 K	CU1302
					3000 K	CU1306
			1 – 10 V	> 90	2700 K	CU1310
					3000 K	CU1314

Recommended dimmers

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Curling Ceiling L LED	34 W	TRIAC	BERKER 286710 BUSCH JÄGER 6513 U-102 Feller 40600.RL. (all variations) JUNG 225 TDE MERTEN MEG5139

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[3] Other versions available on request.
[4] Control via DALI or 1-10V requires 5-wire mains cable.