

SML²

Data Sheet

150/220/300/600/900/1200



With its radically reduced design and exclusive features, the SML line has established itself as one of the serien trademark ranges. SML LED, the most recent addition to this successful product family, now joins the modular lighting system in its second generation as SML². With its height of just 25 mm SML² can be modularly combined with the SML halogen and fluorescent versions. The SML² line now comes in six lengths and offers wide application range and extended modularity.

Examples of application: In private and commercial spaces. Wherever flexible lighting combined with a uniform design language, low running and maintenance costs is required. Thanks to the low heat production, also ideal for lighting in places where it might be touched, for example in bathrooms, kitchens or service areas.

Technical data sheet

SML² offers all the benefits of the SML line and much more besides: Sustainable, future-proof technology, high energy efficiency and significantly reduced heat development. In collaboration with electrical engineers we have developed exclusively for the LED version of the SML family the power supply, the LED circuit board, and a highly efficient cooling system, which ensures the long life of the illuminant. At the end of its long service life, the LED circuit board can be replaced by qualified staff.

Design Jean-Marc da Costa

Awards

Design Centre of North Rhine-Westphalia,
Red Dot Award 2013
Design Award of the Federal Republic of Germany,
Nomination 2013



Material & surfaces

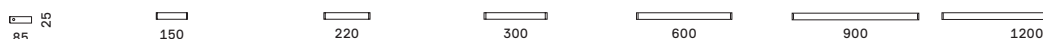


Material Housing aluminum, lamp cover polycarbonate satinée or printed with raster

Surface coated silver (RAL9006), coated white (RAL9010), coated black (RAL9005), polished

Illuminant cover satinée/satinée or satinée/Raster

Dimensions



Technical data

Illuminant	High Efficiency Quality Mid Power LED (> 130 lm/W)						
		32 pieces	48 pieces	64 pieces	64 pieces	92 pieces	128 pieces
Power		10 W	15 W	20 W	20 W	30 W	40 W
Luminous flux LED (nominal value) ^{1/}	2700 K	1050 lm	1500 lm	2050 lm	2050 lm	3000 lm	4000 lm
	3000 K	1100 lm	1570 lm	2150 lm	2150 lm	3120 lm	4180 lm
Color temperature	4000 K*	1150 lm	1650 lm	2225 lm	2225 lm	3250 lm	4350 lm
Color rendering index	> 90 CRI (other color rendering indices available on request)						
Operating voltage	primary 220–240V AC, secondary 24V DC						
					2 channels à 350mA	3 channels à 350mA	4 channels à 350mA
Control ⁴	on/off	TRIAC	TRIAC	DALI	DALI	DALI	
Average lifetime LED	50.000 h ²						
Energy efficiency class	A+ / A						
Guarantee	2 years						
Mounting	Delivery includes aluminum spacer profile (for mounting with center power outlet).						
Cleaning	Illuminant covers can be mounted or removed for cleaning purposes without tools.						
Extras	Suitable for use in emergency lighting systems						
Weight	ca. 0.35 kg	ca. 0.5 kg	ca. 0.6 kg	ca. 1.0 kg	ca. 1.5 kg	ca. 1.8 kg	

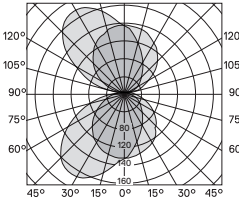
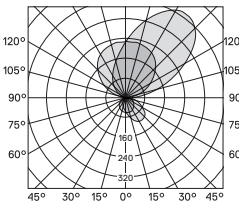
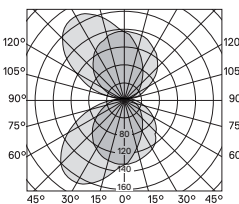
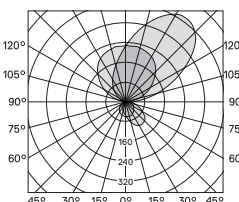
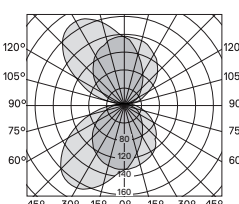
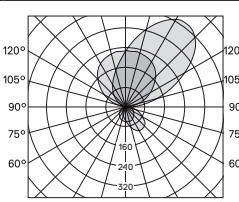
* Please ask for special delivery times and specifications.



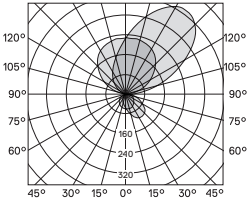
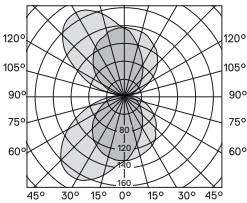
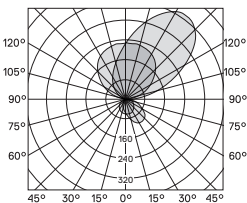
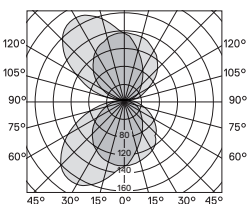
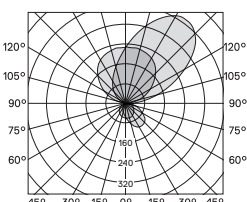
The crossed-out whee bin indicates that this electrical appliance must not be disposed of via household waste. In order to protect human health and the environment against potentially hazardous substances, at the end of its lifecycle this product can be taken to a collection point close to you and disposed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

Photometric data sheet (1/2)

Depending on the intended use, SML² can be fitted with different illuminant covers to provide different light. Depending on the illuminant cover, light is scattered symmetrically upward and downward or shielded to one side. Moreover, the light of SML² is free of ultraviolet and infrared rays and comparable in brilliance with the performance of halogen bulbs.

		Power (measured value) ¹	CRI	Color Temperature	Luminous flux (measured value) ¹
SML² 150 satinée/satinée		10 W	90	2700 K	775 lm
				3000 K	800 lm
				4000 K*	850 lm
Light: scattered symmetrically up and down					
satinée/raster		10 W	90	2700 K	550 lm
				3000 K	565 lm
				4000 K*	595 lm
Light: scattered upward dimmed down or dimmed up and scattered down					
SML² 220 satinée/satinée		15 W	90	2700 K	1150 lm
				3000 K	1200 lm
				4000 K*	1275 lm
Light: scattered symmetrically up and down					
satinée/raster		15 W	90	2700 K	805 lm
				3000 K	840 lm
				4000 K*	895 lm
Light: scattered upward dimmed down or dimmed up and scattered down					
SML² 300 satinée/satinée		20 W	90	2700 K	1550 lm
				3000 K	1600 lm
				4000 K*	1700 lm
Light: scattered symmetrically up and down					
satinée/raster		20 W	90	2700 K	1085 lm
				3000 K	1120 lm
				4000 K*	1200 lm
Light: scattered upward dimmed down or dimmed up and scattered down					

Photometric data sheet (2/2)

		Power (measured value) ¹	CRI	Color Temperature	Luminous flux (measured value) ¹
SML² 600 satinée/satinée Light: scattered symmetrically up and down		20 W	90	2700 K	1550 lm
				3000 K	1600 lm
				4000 K*	1700 lm
satinée/raster Light: scattered upward dimmed down or dimmed up and scattered down		20 W	90	2700 K	1085 lm
				3000 K	1120 lm
				4000 K*	1200 lm
SML² 900 satinée/satinée Light: scattered symmetrically up and down		30 W	90	2700 K	2350 lm
				3000 K	2400 lm
				4000 K*	2550 lm
satinée/raster Light: scattered upward dimmed down or dimmed up and scattered down		30 W	90	2700 K	1650 lm
				3000 K	1680 lm
				4000 K*	1785 lm
SML² 1200 satinée/satinée Light: scattered symmetrically up and down		40 W	90	2700 K	3100 lm
				3000 K	3200 lm
				4000 K*	3400 lm
satinée/raster Light: scattered upward dimmed down or dimmed up and scattered down		40 W	90	2700 K	2170 lm
				3000 K	2240 lm
				4000 K*	2380 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.



* Please ask for special delivery times and specifications.

Article numbers

		Output (nominal value) ¹	Control Technology ⁴	CRI ³	Color Temperature ³	Illuminant covers	silver	white	black	polished
□	SML ² 150	10 W	on/off (not dimmmable)	90	2700 K	satinee/satinee	SM1325	SM1327	SM1329	SM1331
						satinee/raster	SM1326	SM1328	SM1330	SM1332
					3000 K	satinee/satinee	SM1227	SM1229	SM1231	SM1233
						satinee/raster	SM1228	SM1230	SM1232	SM1234
					4000 K*	satinee/satinee	SM1425	SM1427	SM1429	SM1431
						satinee/raster	SM1426	SM1428	SM1430	SM1432
□	SML ² 220	15 W	TRIAC	90	2700 K	satinee/satinee	SM1333	SM1335	SM1337	SM1339
						satinee/raster	SM1334	SM1336	SM1338	SM1340
					3000 K	satinee/satinee	SM1235	SM1237	SM1239	SM1241
						satinee/raster	SM1236	SM1238	SM1240	SM1242
					4000 K*	satinee/satinee	SM1433	SM1435	SM1437	SM1439
						satinee/raster	SM1434	SM1436	SM1438	SM1440
□	SML ² 300	20 W	TRIAC	90	2700 K	satinee/satinee	SM1341	SM1343	SM1345	SM1347
						satinee/raster	SM1342	SM1344	SM1346	SM1348
					3000 K	satinee/satinee	SM1243	SM1245	SM1247	SM1249
						satinee/raster	SM1244	SM1246	SM1248	SM1250
					4000 K*	satinee/satinee	SM1441	SM1443	SM1445	SM1447
						satinee/raster	SM1442	SM1444	SM1446	SM1448
□	SML ² 600	20W	DALI	90	2700 K	satinee/satinee	SM1349	SM1351	SM1353	SM1355
						satinee/raster	SM1350	SM1352	SM1354	SM1356
					3000 K	satinee/satinee	SM1251	SM1253	SM1255	SM1257
						satinee/raster	SM1252	SM1254	SM1256	SM1258
					4000 K*	satinee/satinee	SM1449	SM1451	SM1453	SM1455
						satinee/raster	SM1450	SM1452	SM1454	SM1456
□	SML ² 900	30 W	DALI	90	2700 K	satinee/satinee	SM1357	SM1359	SM1361	SM1363
						satinee/raster	SM1358	SM1360	SM1362	SM1364
					3000 K	satinee/satinee	SM1259	SM1261	SM1263	SM1265
						satinee/raster	SM1260	SM1262	SM1264	SM1266
					4000 K*	satinee/satinee	SM1457	SM1459	SM1461	SM1463
						satinee/raster	SM1458	SM1460	SM1462	SM1464
□	SML ² 1200	40 W	DALI	90	2700 K	satinee/satinee	SM1365	SM1367	SM1369	SM1371
						satinee/raster	SM1366	SM1368	SM1370	SM1372
					3000 K	satinee/satinee	SM1267	SM1269	SM1271	SM1273
						satinee/raster	SM1268	SM1270	SM1272	SM1274
					4000 K*	satinee/satinee	SM1469	SM1467	SM1465	SM1471
						satinee/raster	SM1466	SM1468	SM1470	SM1472

* Please ask for special delivery times and specifications.

Accessories

		Length in mm	silver	white	black	polished
	Cover Plate	150	SM4053	SM4056	SM4059	SM4062
		220	SM4054	SM4057	SM4060	SM4052
		300	SM4055	SM4058	SM4061	SM4048
	Mirror Adapter	–	ZB1001	–	–	–

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.

SML² 220	15 W	TRIAC	digitalSTROM GE-KM200	Merten MEG5139
			Feller 40200.LED.EB	Merten MEG5300-0001
			Feller 40600.RL. (all variants)	Merten MEG5134
			Feller 40200.LED. (all variants)	Gira 245000
			Schalk ETD U2	Gira 540000
SML² 300	20 W	TRIAC	Schalk F03 U2E	Gira 244000
			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 Raumeuchten GmbH assumes no liability for the accuracy of the information.

³ Other versions available on request.

⁴ Control via DALI requires 5-wire mains cable.