

SML²

Data Sheet

150/220/300/600/900/1200



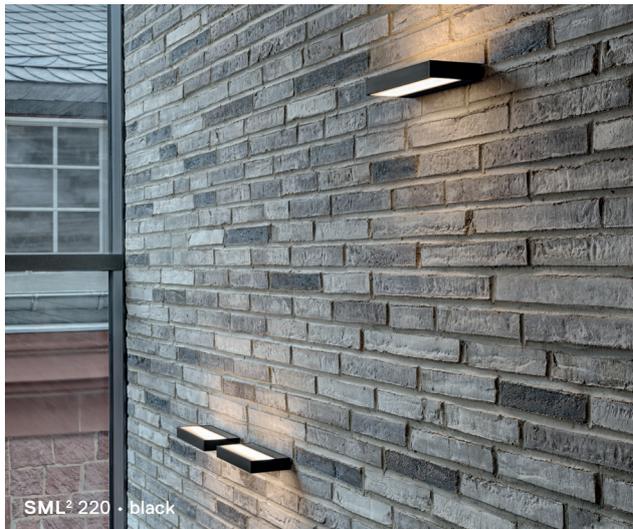
Designpreis der
Bundesrepublik
Deutschland



German
Design Award



reddot design award
NOMINEE



SML² 220 • black



SML² 900 • polished



SML² 220 • silver



SML² 220 • black



SML² 220 • silver

With its radically reduced design and exclusive features, the SML line has established itself as one of the series 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 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 Award of the Federal Republic of Germany,
Nominee 2013
Rat für Formgebung/German Design Council,
German Design Award
Design Zentrum Nordrhein-Westfalen,
Red Dot Design Award 2013



Material & surfaces



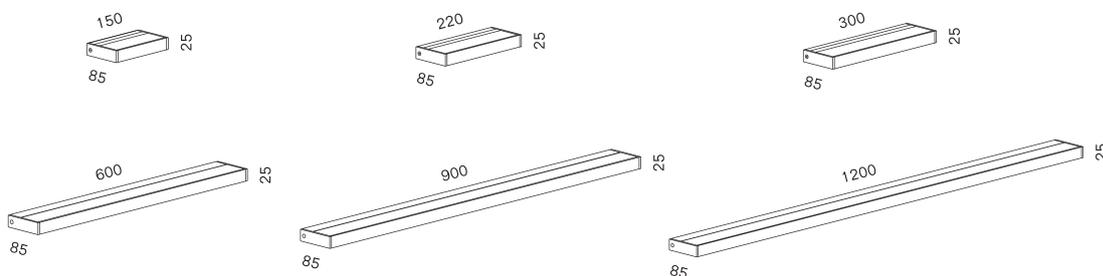
Casing

Aluminium polished or Aluminium lacquered black, silver or white

Illuminant covers

Polycarbonate satinée/satinée or satinée/raster

Dimensions in mm



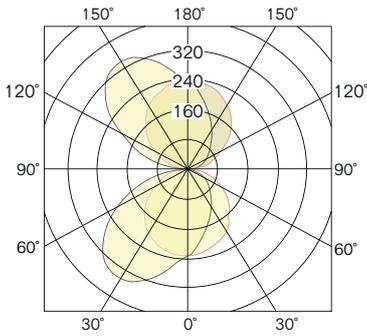
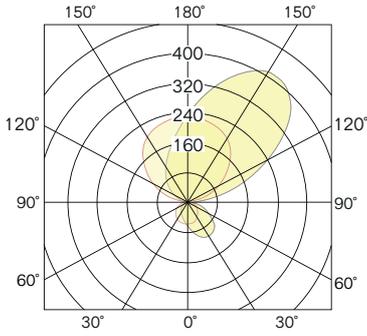
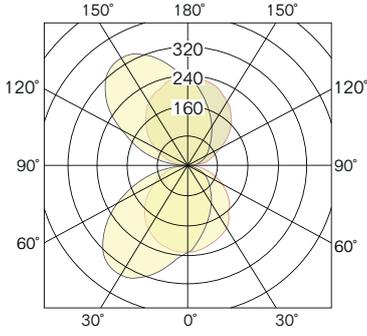
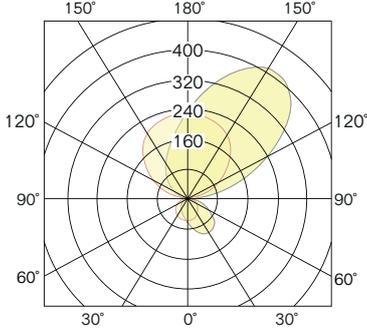
Technical data

Sizes	150	220	300	600	900	1200
Illuminant	LED Mid Power					
Power	10 W	15 W	20 W	20 W	30 W	40 W
Color temperature Luminous flux LED (nominal value)	2700 K	1050 lm	1500 lm	2050 lm	2050 lm	4000 lm
	3000 K	1100 lm	1570 lm	2150 lm	2150 lm	4180 lm
Operating voltage	primary 220–240 V AC, secondary 24 V DC					
Control	ON/OFF	TRIAC	TRIAC	DALI	DALI	DALI
Average lifetime LED	50.000 h*					
Energy efficiency class	A					
Warranty	2 years					
Weight	ca. 0,4 kg	ca. 0,5 kg	ca. 0,6 kg	ca. 1,0 kg	ca. 1,5 kg	ca. 1,8 kg
Marks	IP20 CE ⊕ F Ⓜ					

* Information according to the manufacturers. serien Raumleuchten GmbH accepts no liability for the accuracy of the information.

Photometric data sheet

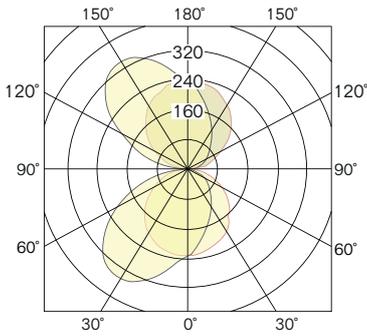
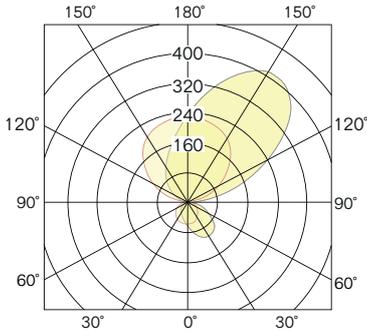
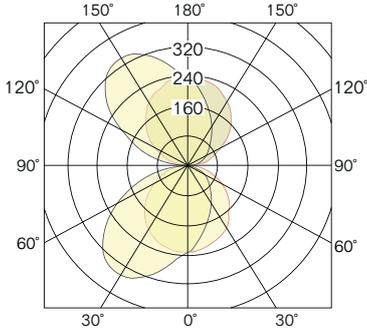
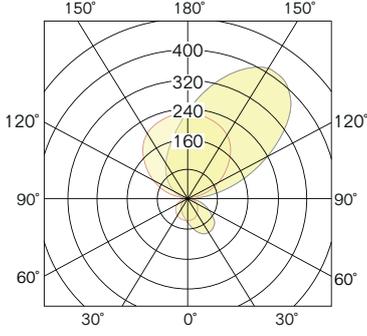
Depending on the intended use, SML² can be fitted with different illuminant covers to provide different light. Depending on the illuminant cover, light is scattered symmetrically upward and downward or shielded to one side. Moreover, the light of SML² is free of ultraviolet and infrared rays and comparable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

		Power	CRI	CCT	Luminous flux (measured value)
SML² Wall 150 satinée/satinée		10 W	>90	2700 K	775 lm
				3000 K	800 lm
Light: symmetrical scattering upward and downward					
SML² Wall 150 satinée/raster		10 W	>90	2700 K	550 lm
				3000 K	565 lm
Light: scattering to one side, to the other shielded					
SML² Wall 220 satinée/satinée		15 W	>90	2700 K	1150 lm
				3000 K	1200 lm
Light: symmetrical scattering upward and downward					
SML² Wall 220 satinée/raster		15 W	>90	2700 K	805 lm
				3000 K	840 lm
Light: scattering to one side, to the other shielded					

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

Photometric data sheet

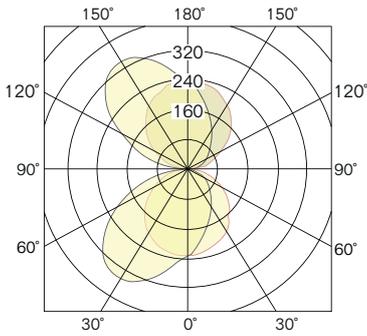
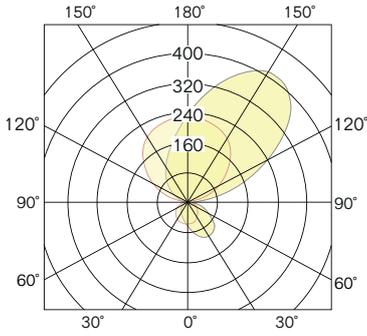
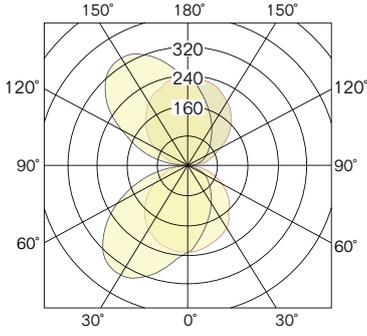
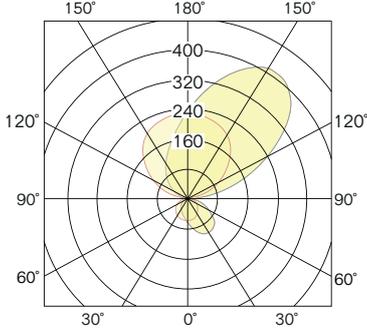
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		Power	CRI	CCT	Luminous flux (measured value)
SML² Wall 300 satinée/satinée		20 W	>90	2700 K	1550 lm
				3000 K	1600 lm
Light: symmetrical scattering upward and downward					
SML² Wall 300 satinée/raster		20 W	>90	2700 K	1085 lm
				3000 K	1120 lm
Light: scattering to one side, to the other shielded					
SML² Wall 600 satinée/satinée		20 W	>90	2700 K	1550 lm
				3000 K	1600 lm
Light: symmetrical scattering upward and downward					
SML² Wall 600 satinée/raster		20 W	>90	2700 K	1085 lm
				3000 K	1120 lm
Light: scattering to one side, to the other shielded					

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

Photometric data sheet

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	CRI	CCT	Luminous flux (measured value)
SML² Wall 900 satinée/satinée		30 W	>90	2700 K	2350 lm
				3000 K	2400 lm
Light: symmetrical scattering upward and downward					
SML² Wall 900 satinée/raster		30 W	>90	2700 K	1650 lm
				3000 K	1680 lm
Light: scattering to one side, to the other shielded					
SML² Wall 1200 satinée/satinée		40 W	>90	2700 K	3100 lm
				3000 K	3200 lm
Light: symmetrical scattering upward and downward					
SML² Wall 1200 satinée/raster		40 W	>90	2700 K	2170 lm
				3000 K	2240 lm
Light: scattering to one side, to the other shielded					

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

Article numbers

SML² Wall 150

figure	description	lamp	control	power	CCT	art.-no.
	silver, satinée/satinée	LED	ON/OFF	10 W	2700 K	SM1325
					3000 K	SM1227
	silver, satinée/raster	LED	ON/OFF	10 W	2700 K	SM1326
					3000 K	SM1228
	white, satinée/satinée	LED	ON/OFF	10 W	2700 K	SM1327
					3000 K	SM1229
	white, satinée/raster	LED	ON/OFF	10 W	2700 K	SM1328
					3000 K	SM1230
	black, satinée/satinée	LED	ON/OFF	10 W	2700 K	SM1329
					3000 K	SM1231
	black, satinée/raster	LED	ON/OFF	10 W	2700 K	SM1330
					3000 K	SM1232
	polished, satinée/satinée	LED	ON/OFF	10 W	2700 K	SM1331
					3000 K	SM1233
	polished, satinée/raster	LED	ON/OFF	10 W	2700 K	SM1332
					3000 K	SM1234

SML² Wall 220

figure	description	lamp	control	power	CCT	art.-no.
	silver, satinée/satinée	LED	TRIAC	15 W	2700 K	SM1333
					3000 K	SM1235
	silver, satinée/raster	LED	TRIAC	15 W	2700 K	SM1334
					3000 K	SM1236
	white, satinée/satinée	LED	TRIAC	15 W	2700 K	SM1335
					3000 K	SM1237
	white, satinée/raster	LED	TRIAC	15 W	2700 K	SM1336
					3000 K	SM1238
	black, satinée/satinée	LED	TRIAC	15 W	2700 K	SM1337
					3000 K	SM1239
	black, satinée/raster	LED	TRIAC	15 W	2700 K	SM1338
					3000 K	SM1240
	polished, satinée/satinée	LED	TRIAC	15 W	2700 K	SM1339
					3000 K	SM1241
	polished, satinée/raster	LED	TRIAC	15 W	2700 K	SM1340
					3000 K	SM1242

Article numbers

SML² Wall 300

figure	description	lamp	control	power	CCT	art.-no.
	silver, satinée/satinée	LED	TRIAC	20 W	2700 K	SM1341
					3000 K	SM1243
			DALI	20 W	2700 K	SM1601
					3000 K	SM1602
	silver, satinée/raster	LED	TRIAC	20 W	2700 K	SM1343
					3000 K	SM1244
			DALI	20 W	2700 K	SM1603
					3000 K	SM1604
	white, satinée/satinée	LED	TRIAC	20 W	2700 K	SM1343
					3000 K	SM1245
			DALI	20 W	2700 K	SM1605
					3000 K	SM1606
	white, satinée/raster	LED	TRIAC	20 W	2700 K	SM1344
					3000 K	SM1246
			DALI	20 W	2700 K	SM1607
					3000 K	SM1608
	black, satinée/satinée	LED	TRIAC	20 W	2700 K	SM1345
					3000 K	SM1247
			DALI	20 W	2700 K	SM1609
					3000 K	SM1610
	black, satinée/raster	LED	TRIAC	20 W	2700 K	SM1346
					3000 K	SM1248
			DALI	20 W	2700 K	SM1611
					3000 K	SM1612
	polished, satinée/satinée	LED	TRIAC	20 W	2700 K	SM1347
					3000 K	SM1249
			DALI	20 W	2700 K	SM1613
					3000 K	SM1614
	polished, satinée/raster	LED	TRIAC	20 W	2700 K	SM1348
					3000 K	SM1250
			DALI	20 W	2700 K	SM1615
					3000 K	SM1616

Article numbers

SML² Wall 600

figure	description	lamp	control	power	CCT	art.-no.
● ⊖	silver, satinée/satinée	LED	TRIAC	20 W	2700 K	SM1701
					3000 K	SM1801
					2700 K	SM1349
			DALI	20 W	3000 K	SM1251
					2700 K–5000 K TW	SM1501
● ⊖	silver, satinée/raster	LED	TRIAC	20 W	2700 K	SM1702
					3000 K	SM1802
					2700 K	SM1350
			DALI	20 W	3000 K	SM1252
					2700 K–5000 K TW	SM1502
○ ⊖	white, satinée/satinée	LED	TRIAC	20 W	2700 K	SM1703
					3000 K	SM1803
					2700 K	SM1351
			DALI	20 W	3000 K	SM1253
					2700 K–5000 K TW	SM1503
○ ⊖	white, satinée/raster	LED	TRIAC	20 W	2700 K	SM1704
					3000 K	SM1804
					2700 K	SM1352
			DALI	20 W	3000 K	SM1254
					2700 K–5000 K TW	SM1504
● ⊖	black, satinée/satinée	LED	TRIAC	20 W	2700 K	SM1705
					3000 K	SM1805
					2700 K	SM1353
			DALI	20 W	3000 K	SM1255
					2700 K–5000 K TW	SM1505
● ⊖	black, satinée/raster	LED	TRIAC	20 W	2700 K	SM1706
					3000 K	SM1806
					2700 K	SM1354
			DALI	20 W	3000 K	SM1256
					2700 K–5000 K TW	SM1506
● ⊖	polished, satinée/satinée	LED	TRIAC	20 W	2700 K	SM1707
					3000 K	SM1807
					2700 K	SM1355
			DALI	20 W	3000 K	SM1257
					2700 K–5000 K TW	SM1507
● ⊖	polished, satinée/raster	LED	TRIAC	20 W	2700 K	SM1708
					3000 K	SM1808
					2700 K	SM1356
			DALI	20 W	3000 K	SM1258
					2700 K–5000 K TW	SM1508

Article numbers

SML² Wall 900

figure	description	lamp	control	power	CCT	art.-no.
● ⊖	silver, satinée/satinée	LED	TRIAC	30 W	2700 K	SM1709
					3000 K	SM1809
					2700 K	SM1357
			DALI	30 W	3000 K	SM1259
					2700 K–5000 K TW	SM1511
● ●	silver, satinée/raster	LED	TRIAC	30 W	2700 K	SM1710
					3000 K	SM1810
					2700 K	SM1358
			DALI	30 W	3000 K	SM1260
					2700 K–5000 K TW	SM1512
○ ⊖	white, satinée/satinée	LED	TRIAC	30 W	2700 K	SM1711
					3000 K	SM1811
					2700 K	SM1359
			DALI	30 W	3000 K	SM1261
					2700 K–5000 K TW	SM1513
○ ●	white, satinée/raster	LED	TRIAC	30 W	2700 K	SM1712
					3000 K	SM1812
					2700 K	SM1360
			DALI	30 W	3000 K	SM1262
					2700 K–5000 K TW	SM1514
● ⊖	black, satinée/satinée	LED	TRIAC	30 W	2700 K	SM1713
					3000 K	SM1813
					2700 K	SM1361
			DALI	30 W	3000 K	SM1263
					2700 K–5000 K TW	SM1515
● ●	black, satinée/raster	LED	TRIAC	30 W	2700 K	SM1714
					3000 K	SM1814
					2700 K	SM1362
			DALI	30 W	3000 K	SM1264
					2700 K–5000 K TW	SM1516
● ⊖	polished, satinée/satinée	LED	TRIAC	30 W	2700 K	SM1715
					3000 K	SM1815
					2700 K	SM1363
			DALI	30 W	3000 K	SM1265
					2700 K–5000 K TW	SM1517
● ●	polished, satinée/raster	LED	TRIAC	30 W	2700 K	SM1716
					3000 K	SM1816
					2700 K	SM1364
			DALI	30 W	3000 K	SM1266
					2700 K–5000 K TW	SM1518

Article numbers

SML² Wall 1200

figure	description	lamp	control	power	CCT	art.-no.
● ⊖	silver, satinée/satinée	LED	TRIAC	40 W	2700 K	SM1717
					3000 K	SM1817
					2700 K	SM1365
			DALI	40 W	3000 K	SM1267
					2700 K–5000 K TW	SM1521
● ⊖	silver, satinée/raster	LED	TRIAC	40 W	2700 K	SM1718
					3000 K	SM1818
					2700 K	SM1366
			DALI	40 W	3000 K	SM1268
					2700 K–5000 K TW	SM1522
○ ⊖	white, satinée/satinée	LED	TRIAC	40 W	2700 K	SM1719
					3000 K	SM1819
					2700 K	SM1367
			DALI	40 W	3000 K	SM1269
					2700 K–5000 K TW	SM1523
○ ⊖	white, satinée/raster	LED	TRIAC	40 W	2700 K	SM1720
					3000 K	SM1820
					2700 K	SM1368
			DALI	40 W	3000 K	SM1270
					2700 K–5000 K TW	SM1524
● ⊖	black, satinée/satinée	LED	TRIAC	40 W	2700 K	SM1721
					3000 K	SM1821
					2700 K	SM1369
			DALI	40 W	3000 K	SM1271
					2700 K–5000 K TW	SM1525
● ⊖	black, satinée/raster	LED	TRIAC	40 W	2700 K	SM1722
					3000 K	SM1822
					2700 K	SM1370
			DALI	40 W	3000 K	SM1272
					2700 K–5000 K TW	SM1526
● ⊖	polished, satinée/satinée	LED	TRIAC	40 W	2700 K	SM1723
					3000 K	SM1823
					2700 K	SM1371
			DALI	40 W	3000 K	SM1273
					2700 K–5000 K TW	SM1527
● ⊖	polished, satinée/raster	LED	TRIAC	40 W	2700 K	SM1724
					3000 K	SM1824
					2700 K	SM1372
			DALI	40 W	3000 K	SM1274
					2700 K–5000 K TW	SM1528

Special versions

Other versions (CCT/CRI) and different coatings available on request.

Lighting data

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.

Caption

+ 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 www.casambi.com .
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	Luminaires with this characteristic have the Dim2Warm function which, when dimmed, reproduces the colour gradient with the warmer light colour of a classic filament lamp.
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 photometric data (EULUMDAT) can be downloaded from https://serien.com/downloads/
	We are happy to make the Excel file with article numbers and current prices available to our trade partners. Please contact us at: serien@serien.com
	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.

At www.serien.com/downloads you will find helpful information and the latest technical data:

Data sheets, catalogues, price lists, lighting data (EULUMDAT), 3D CAD data, declarations of conformity, returns form, FAQs, assembly instructions, drilling templates and other service instructions.

Credits

©Photography: Farideh Fotografie, Christoph Lison, Rendering: serien.lighting

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