REFLEX²
Data Sheet

GERMAN DESIGN AWARD WINNER 2020

Focus Open 2021 Special Mention

REFLEX² S 450 · white

REFLEX² S 200 · white

REFLEX² S 600 · black

REFLEX² transfers the principle of the classic REFLEX luminaire to today's technology and aesthetic sensibilities. The precursor already presented a convincing lighting solution at the central ceiling connection in a space by employing a special ceiling reflector. REFLEX² now opens up this formerly closed body and further develops it into a delicate, elegantly rounded frame structure that contains the LED boards. Their light hits a prismatic reflector surface of the same basic dimensions.

Examples of applications: Even at full power, REFLEX² creates an absolutely glare-free light, whose color may further be adjusted optional via Bluetooth from a warm lightbulb glow to pure white using Tunable White technology. As such, the subtle structure gives rise to intensive lighting moods in the space.
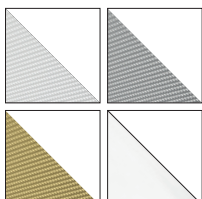
Desing Jean-Marc da Costa

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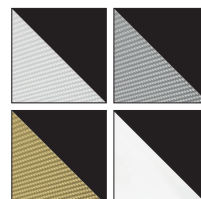## Material

Surfaces				

matte white
RAL 9010   Reflector   matte black
RAL 9005   Reflector

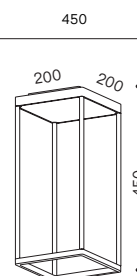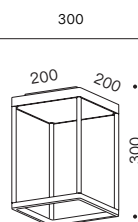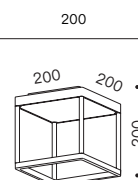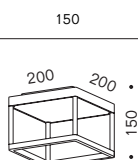| Housing	Die-cast aluminum Lightweight covers flat glass satinée
Reflector	Plexiglas® pyramid structure backside coated white, silver or gold Plexiglas® white matte REFLEX² is a modular article. Please order the luminaire and the reflector together.

Variations
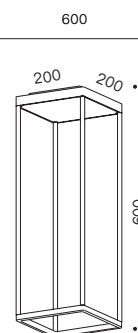
	150	200	300	450	600
Dimensions in mm	200 × 200 × 150	200 × 200 × 200	200 × 200 × 300	200 × 200 × 450	200 × 200 × 600
Weight	1,3 kg	1,4 kg	1,4 kg	1,5 kg	1,5 kg

LED

Light color	Color rendering Index CRI	Color consistency	Luminous flux	Energy efficiency class
2700 K	>90	3 Step	143,5 lm/W	D
3000 K	>90	3 Step	149,5 lm/W	D
Dim2Warm	>90	3 Step	up to 154 lm/W	D

Other versions (CCT/CRI) available on request.
LED light source replaceable by professionals
Average life 50,000 h (specification according to manufacturer).

Control gear

Control	Connected load	Operating voltage	Constant current / voltage	Feature
TRIAC	33 W	230 V AC / 50 Hz	800 mA / 33 V	dimmable
DALI	33 W	230 V AC / 50 Hz	800 mA / 33 V	dimmable, Touch DIM
CASAMBI	33 W	230 V AC / 50 Hz	800 mA / 36 V	dimmable, DALI / Touch DIM

Control gear replaceable by professionals
The luminaire may be operated at a maximum of the constant current specified above.

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Photometric data sheet
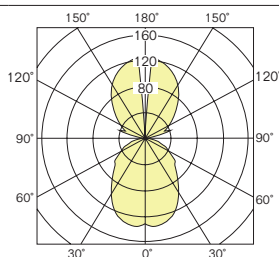
			Power	CRI	CCT	Luminous flux (measured value)

REFLEX² Ceiling S 150 Plexiglas® pyramid structure white
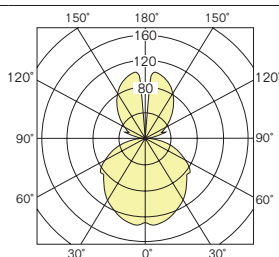
light: scrattered upwars, diffuse all around due to reflector and ceiling

33 W — Ra>90 R9>50

CCT	Luminous flux
2700 K	2250 lm
3000 K	2300 lm

REFLEX² Ceiling S 150 Plexiglas® pyramid structure silver

light: scrattered upwars, diffuse all around due to reflector and ceiling

33 W — Ra>90 R9>50

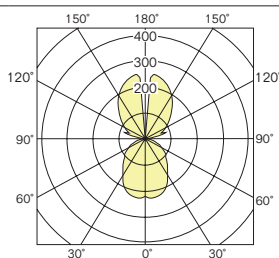| CCT	Luminous flux
2700 K	2000 lm
3000 K	2050 lm

REFLEX² Ceiling S 150 Plexiglas® pyramid structure gold

light: scrattered upwars, diffuse all around due to reflector and ceiling

33 W — Ra>90 R9>50

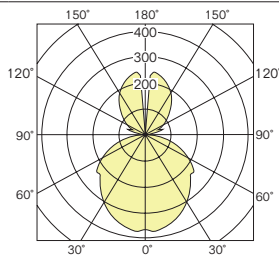| CCT	Luminous flux
2700 K	1930 lm
3000 K	1930 lm

REFLEX² Ceiling S 150 Plexiglas® matte white

light: scrattered upwars, diffuse all around due to reflector and ceiling

33 W — Ra>90 R9>50

CCT	Luminous flux
2700 K	2360 lm
3000 K	2420 lm

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

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Photometric data sheet				Power	CRI	CCT	Luminous flux (measured value)
REFLEX² Ceiling S 200 Plexiglas® pyramid structure white						2700 K	2310 lm
				33 W	Ra>90 R9>50		
light: scrattered upwars, diffuse all around due to reflector and ceiling						3000 K	2360 lm
REFLEX² Ceiling S 200 Plexiglas® pyramid structure silver						2700 K	2130 lm
				33 W	Ra>90 R9>50		
light: scrattered upwars, diffuse all around due to reflector and ceiling						3000 K	2180 lm
REFLEX² Ceiling S 200 Plexiglas® pyramid structure gold						2700 K	2080 lm
				33 W	Ra>90 R9>50		
light: scrattered upwars, diffuse all around due to reflector and ceiling						3000 K	2130 lm
REFLEX² Ceiling S 200 Plexiglas® matte white						2700 K	2390 lm
				33 W	Ra>90 R9>50		
light: scrattered upwars, diffuse all around due to reflector and ceiling						3000 K	2450 lm

Note: The photometric data (EULUMDAT) can be downloaded from https://serien.com/downloads/
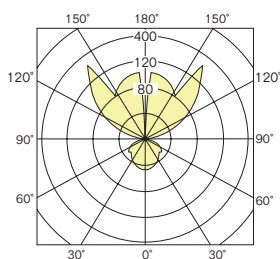
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Photometric data sheet

		Power	CRI	CCT	Luminous flux (measured value)
REFLEX² Ceiling S 300 Plexiglas® pyramid structure white		33 W	Ra>90 R9>50	2700 K	2380 lm
light: scrattered upwars, diffuse all around due to reflector and ceiling				3000 K	2430 lm
REFLEX² Ceiling S 300 Plexiglas® pyramid structure silver		33 W	Ra>90 R9>50	2700 K	2270 lm
light: scrattered upwars, diffuse all around due to reflector and ceiling				3000 K	2330 lm
REFLEX² Ceiling S 300 Plexiglas® pyramid structure gold		33 W	Ra>90 R9>50	2700 K	2240 lm
light: scrattered upwars, diffuse all around due to reflector and ceiling				3000 K	2290 lm
REFLEX² Ceiling S 300 Plexiglas® matte white		33 W	Ra>90 R9>50	2700 K	2430 lm
light: scrattered upwars, diffuse all around due to reflector and ceiling				3000 K	2490 lm
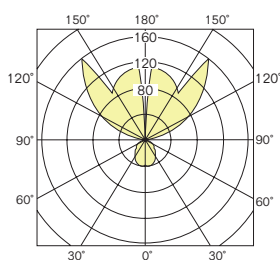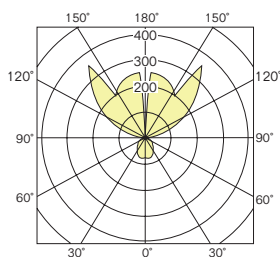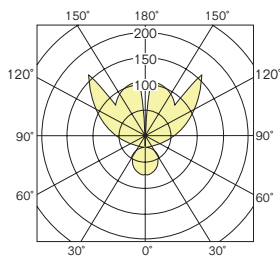
Note: The photometric data (EULUMDAT) can be downloaded from https://serien.com/downloads/

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Photometric data sheet			Power	CRI	CCT	Luminous flux (measured value)
REFLEX² Ceiling S 450 Plexiglas® pyramid structure white			33 W	Ra>90 R9>50	2700 K	2400 lm
light: scrattered upwars, diffuse all around due to reflector and ceiling					3000 K	2460 lm
REFLEX² Ceiling S 450 Plexiglas® pyramid structure silver			33 W	Ra>90 R9>50	2700 K	2320 lm
light: scrattered upwars, diffuse all around due to reflector and ceiling					3000 K	2380 lm
REFLEX² Ceiling S 450 Plexiglas® pyramid structure gold			33 W	Ra>90 R9>50	2700 K	2290 lm
light: scrattered upwars, diffuse all around due to reflector and ceiling					3000 K	2350 lm
REFLEX² Ceiling S 450 Plexiglas® matte white			33 W	Ra>90 R9>50	2700 K	2440 lm
light: scrattered upwars, diffuse all around due to reflector and ceiling					3000 K	2500 lm

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

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Photometric data sheet			Power	CRI	CCT	Luminous flux (measured value)
REFLEX² Ceiling S 600 Plexiglas® pyramid structure white					2700 K	2420 lm
			33 W	Ra>90 R9>50		
light: scrattered upwars, diffuse all around due to reflector and ceiling					3000 K	2480 lm
REFLEX² Ceiling S 600 Plexiglas® pyramid structure silver					2700 K	2360 lm
			33 W	Ra>90 R9>50		
light: scrattered upwars, diffuse all around due to reflector and ceiling					3000 K	2420 lm
REFLEX² Ceiling S 600 Plexiglas® pyramid structure gold					2700 K	2340 lm
			33 W	Ra>90 R9>50		
light: scrattered upwars, diffuse all around due to reflector and ceiling					3000 K	2400 lm
REFLEX² Ceiling S 600 Plexiglas® matte white					2700 K	2450 lm
			33 W	Ra>90 R9>50		
light: scrattered upwars, diffuse all around due to reflector and ceiling					3000 K	2510 lm

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REFLEX² Ceiling S

figure	description	lamp	control	power	CCT	art.-no.
●	150 schwarz	LED	TRIAC	33 W	2700 K	RE2450
					3000 K	RE2451
					2200–3000 K D2W	RE2401
			DALI	33 W	2700 K	RE2460
					3000 K	RE2461
					2200–3000 K D2W	RE2402
					2200–3000 K D2W + C	RE2402C
○	150 weiß	LED	TRIAC	33 W	2700 K	RE2452
					3000 K	RE2453
					2200–3000 K D2W	RE2403
			DALI	33 W	2700 K	RE2462
					3000 K	RE2463
					2200–3000 K D2W	RE2404
					2200–3000 K D2W + C	RE2404C
●	200 schwarz	LED	TRIAC	33 W	2700 K	RE2550
					3000 K	RE2551
					2200–3000 K D2W	RE2501
			DALI	33 W	2700 K	RE2560
					3000 K	RE2561
					2200–3000 K D2W	RE2502
					2200–3000 K D2W + C	RE2502C
○	200 weiß	LED	TRIAC	33 W	2700 K	RE2552
					3000 K	RE2553
					2200–3000 K D2W	RE2503
			DALI	33 W	2700 K	RE2562
					3000 K	RE2563
					2200–3000 K D2W	RE2504
					2200–3000 K D2W + C	RE2504C
●	300 schwarz	LED	TRIAC	33 W	2700 K	RE2650
					3000 K	RE2651
					2200–3000 K D2W	RE2601
			DALI	33 W	2700 K	RE2660
					3000 K	RE2661
					2200–3000 K D2W	RE2602
					2200–3000 K D2W + C	RE2602C
○	300 weiß	LED	TRIAC	33 W	2700 K	RE2652
					3000 K	RE2653
					2200–3000 K D2W	RE2603
			DALI	33 W	2700 K	RE2662
					3000 K	RE2663
					2200–3000 K D2W	RE2604
					2200–3000 K D2W + C	RE2604C

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REFLEX² Ceiling S

figure	description	lamp	control	power	CCT	art.-no.
●	450 schwarz	LED	TRIAC	33 W	2700 K	RE2750
					3000 K	RE2751
					2200–3000 K D2W	RE2701
			DALI	33 W	2700 K	RE2760
					3000 K	RE2761
					2200–3000 K D2W	RE2702
					2200–3000 K D2W + C	RE2702C
○	450 weiß	LED	TRIAC	33 W	2700 K	RE2752
					3000 K	RE2753
					2200–3000 K D2W	RE2703
			DALI	33 W	2700 K	RE2762
					3000 K	RE2763
					2200–3000 K D2W	RE2704
					2200–3000 K D2W + C	RE2704C
●	600 schwarz	LED	TRIAC	33 W	2700 K	RE2950
					3000 K	RE2951
					2200–3000 K D2W	RE2901
			DALI	33 W	2700 K	RE2960
					3000 K	RE2961
					2200–3000 K D2W	RE2902
					2200–3000 K D2W + C	RE2902C
○	600 weiß	LED	TRIAC	33 W	2700 K	RE2952
					3000 K	RE2953
					2200–3000 K D2W	RE2903
			DALI	33 W	2700 K	RE2962
					3000 K	RE2963
					2200–3000 K D2W	RE2904
					2200–3000 K D2W + C	RE2904C

REFLEX² Ceiling S Reflektor

figure	description	art.-no.
○	Pyramidenstruktur weiß	RE3051
◉	Pyramidenstruktur silber	RE3052
◉	Pyramidenstruktur gold	RE3053
○	matt weiß	RE3054

REFLEX² ist ein modularer Artikel. Bitte jeweils Leuchteneinheit und Reflektor zusammen bestellen.

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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 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	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 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.
⤓	**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, 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.

Imprint

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