REFLEX²
Data Sheet

GERMAN DESIGN AWARD WINNER 2020
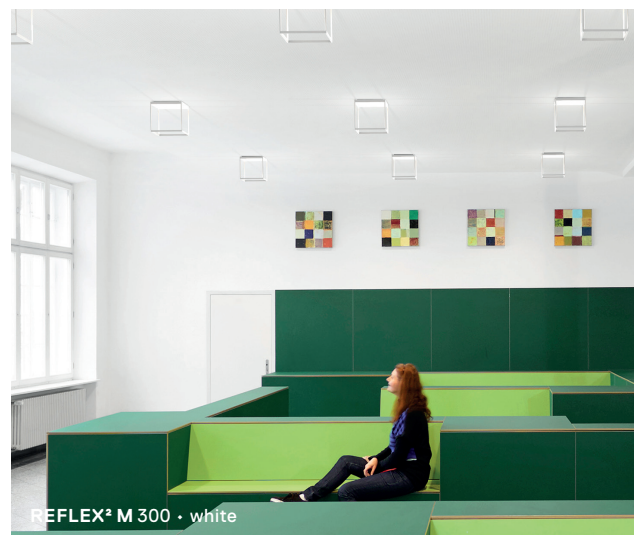
REFLEX² M 300 · white

REFLEX² M 300 · black

REFLEX² M 300 · white

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.

serien.lighting

REFLEX²

Technical data sheet

REFLEX² Floor takes up the principle of indirect lighting, which beams light into the space by means of a ceiling reflector or the ceiling, meaning that the luminaire can be put to effective use regardless of the color and properties of the ceiling, e.g., on dark ceilings. With different height versions, REFLEX² offers design options for any ceiling height.
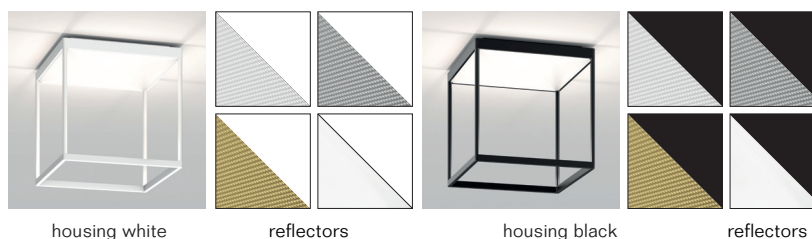
Design Jean-Marc da Costa
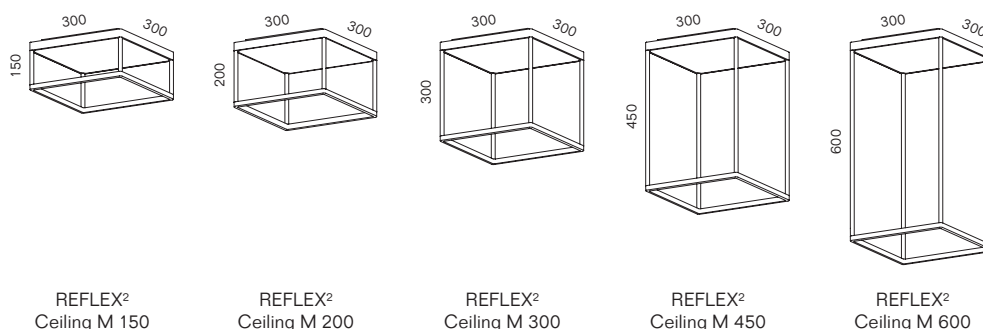
Awards

German Design Award Winner 2020

GERMAN DESIGN AWARD WINNER 2020

Material & surfaces

housing white	reflectors	housing black	reflectors

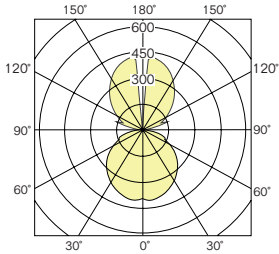| housing	aluminium black or white coated
reflector	Plexiglas® Pyramid structure rear-coated white, silver or gold or Plexiglas® matte white
lamp cover	glass semigloss

Dimensions in mm

REFLEX² Ceiling M 150	REFLEX² Ceiling M 200	REFLEX² Ceiling M 300	REFLEX² Ceiling M 450	REFLEX² Ceiling M 600
300 × 300 × 150	300 × 300 × 200	300 × 300 × 300	300 × 300 × 450	300 × 300 × 600
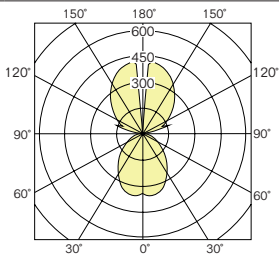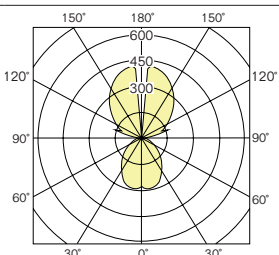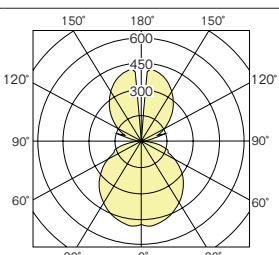
Technical data

Illuminant		LED				
Power		40 W		50 W		
Color temperature Luminous flux LED (nominal value)		2700 K 4900 lm	3000 K 5000 lm	2700 K 5700 lm	3000 K 5800 lm	2200-4000 K TW 6040 lm
Operating voltage		220–240 V				
Control		TRIAC, 1-10 V		DALI (DT6), DALI TW (DT8)		
Average lifetime LED		50.000 h*				
Energy efficiency class		A				
Warranty		2 years				
Weight	2,2 kg	2,3 kg	2,3 kg		2,4 kg	2,5 kg
Features		LED exchangeable, easy assembly, reflector easily exchangeable				
Marks		IP20 CE ⊕ F ✗				

REFLEX²

Photometric data sheet
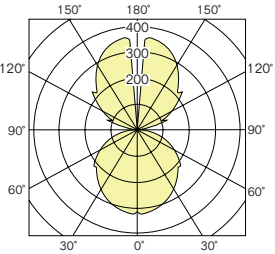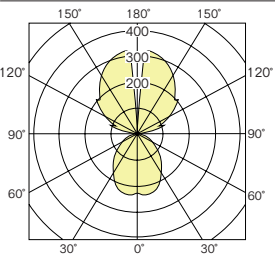
REFLEX² creates an absolutely glare-free light, whose color may further be adjusted optionally via Bluetooth from a warm lightbulb glow to pure white using Tunable White technology.

	Power	CRI	CCT	Luminous flux (measured value)
REFLEX² Ceiling M 150 Plexiglas® pyramid structure white	40 W	>90	2700 K	3200 lm
			3000 K	3280 lm
	50 W	>90	2700 K	3980 lm
light: scrattered upwars, diffuse all around due to reflector and ceiling			3000 K	4080 lm
REFLEX² Ceiling M 150 Plexiglas® pyramid structure silver	40 W	>90	2700 K	2810 lm
			3000 K	2880 lm
	50 W	>90	2700 K	3500 lm
light: scrattered upwars, diffuse all around due to reflector and ceiling			3000 K	3580 lm
REFLEX² Ceiling M 150 Plexiglas® pyramid structure gold	40 W	>90	2700 K	2700 lm
			3000 K	2770 lm
	50 W	>90	2700 K	3360 lm
light: scrattered upwars, diffuse all around due to reflector and ceiling			3000 K	3440 lm
REFLEX² Ceiling M 150 Plexiglas® matte white	40 W	>90	2700 K	3390 lm
			3000 K	3470 lm
	50 W	>90	2700 K	4210 lm
light: scrattered upwars, diffuse all around due to reflector and ceiling			3000 K	4310 lm

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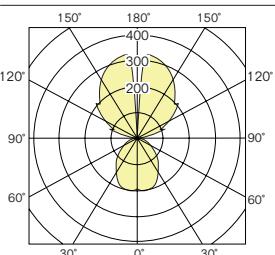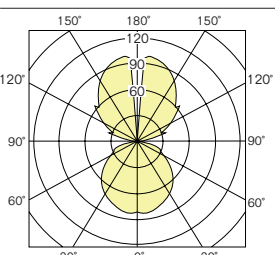
Photometric data sheet

REFLEX² creates an absolutely glare-free light, whose color may further be adjusted optionally via Bluetooth from a warm lightbulb glow to pure white using Tunable White technology.
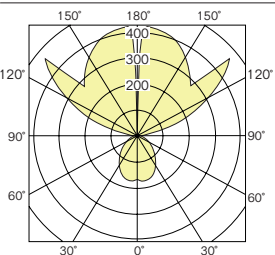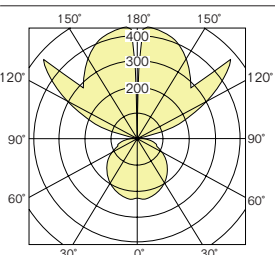
	Power	CRI	CCT	Luminous flux (measured value)
REFLEX² Ceiling M 200 **Plexiglas® pyramid structure white**	40 W	>90	2700 K	3250 lm
			3000 K	3330 lm
	50 W	>90	2700 K	4040 lm
light: scrattered upwars, diffuse all around due to reflector and ceiling			3000 K	4140 lm
REFLEX² Ceiling M 200 **Plexiglas® pyramid structure silver**	40 W	>90	2700 K	2910 lm
			3000 K	2980 lm
	50 W	>90	2700 K	3620 lm
light: scrattered upwars, diffuse all around due to reflector and ceiling			3000 K	3710 lm
REFLEX² Ceiling M 200 **Plexiglas® pyramid structure gold**	40 W	>90	2700 K	2820 lm
			3000 K	2880 lm
	50 W	>90	2700 K	3500 lm
light: scrattered upwars, diffuse all around due to reflector and ceiling			3000 K	3590 lm
REFLEX² Ceiling M 200 **Plexiglas® matte white**	40 W	>90	2700 K	3410 lm
			3000 K	3500 lm
	50 W	>90	2700 K	4240 lm
light: scrattered upwars, diffuse all around due to reflector and ceiling			3000 K	4340 lm

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

REFLEX²

Photometric data sheet
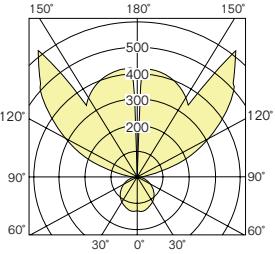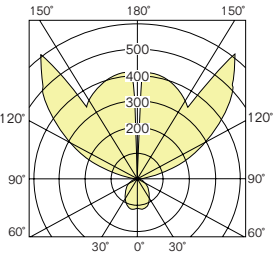
REFLEX² creates an absolutely glare-free light, whose color may further be adjusted optionally via Bluetooth from a warm lightbulb glow to pure white using Tunable White technology.
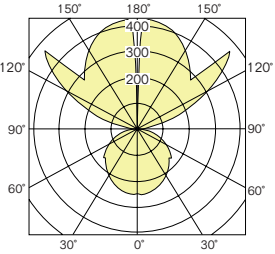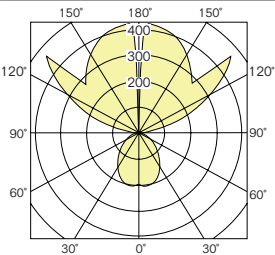
	Power	CRI	CCT	Luminous flux (measured value)
REFLEX² Ceiling M 300 Plexiglas® pyramid structure white	40 W	>90	2700 K	3350 lm
			3000 K	3430 lm
light: scrattered upwars, diffuse all around due to reflector and ceiling	50 W	>90	2700 K	4160 lm
			3000 K	4260 lm
REFLEX² Ceiling M 300 Plexiglas® pyramid structure silver	40 W	>90	2700 K	3120 lm
			3000 K	3190 lm
light: scrattered upwars, diffuse all around due to reflector and ceiling	50 W	>90	2700 K	3880 lm
			3000 K	3970 lm
REFLEX² Ceiling M 300 Plexiglas® pyramid structure gold	40 W	>90	2700 K	3050 lm
			3000 K	3120 lm
light: scrattered upwars, diffuse all around due to reflector and ceiling	50 W	>90	2700 K	3790 lm
			3000 K	3880 lm
REFLEX² Ceiling M 300 Plexiglas® matte white	40 W	>90	2700 K	3460 lm
			3000 K	3540 lm
light: scrattered upwars, diffuse all around due to reflector and ceiling	50 W	>90	2700 K	4300 lm
			3000 K	4400 lm

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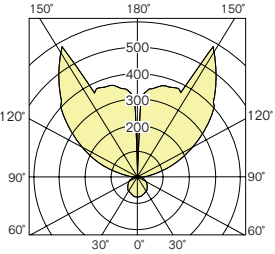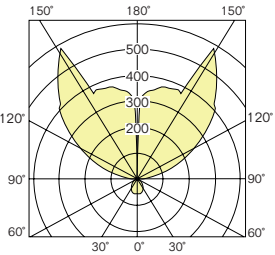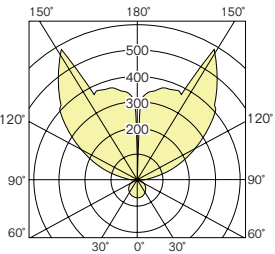
Photometric data sheet

REFLEX² creates an absolutely glare-free light, whose color may further be adjusted optionally via Bluetooth from a warm lightbulb glow to pure white using Tunable White technology.

		Power	CRI	CCT	Luminous flux (measured value)
REFLEX² Ceiling M 450 Plexiglas® pyramid structure white		40 W	>90	2700 K	3420 lm
				3000 K	3500 lm
		50 W	>90	2700 K	4260 lm
light: scrattered upwars, diffuse all around due to reflector and ceiling				3000 K	4360 lm
REFLEX² Ceiling M 450 Plexiglas® pyramid structure silver		40 W	>90	2700 K	3270 lm
				3000 K	3350 lm
		50 W	>90	2700 K	4070 lm
light: scrattered upwars, diffuse all around due to reflector and ceiling				3000 K	4170 lm
REFLEX² Ceiling M 450 Plexiglas® pyramid structure gold		40 W	>90	2700 K	3230 lm
				3000 K	3300 lm
		50 W	>90	2700 K	4010 lm
light: scrattered upwars, diffuse all around due to reflector and ceiling				3000 K	4110 lm
REFLEX² Ceiling M 450 Plexiglas® matte white		40 W	>90	2700 K	3490 lm
				3000 K	3580 lm
		50 W	>90	2700 K	4350 lm
light: scrattered upwars, diffuse all around due to reflector and ceiling				3000 K	4450 lm

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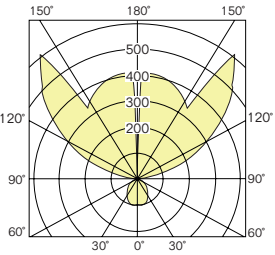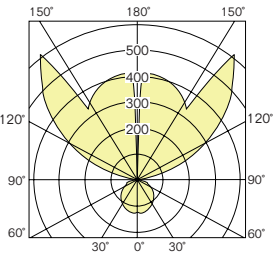
Photometric data sheet

REFLEX² creates an absolutely glare-free light, whose color may further be adjusted optionally via Bluetooth from a warm lightbulb glow to pure white using Tunable White technology.

	Power	CRI	CCT	Luminous flux (measured value)
REFLEX² Ceiling M 600 Plexiglas® pyramid structure white	40 W	>90	2700 K	3460 lm
			3000 K	3550 lm
light: scrattered upwars, diffuse all around due to reflector and ceiling	50 W	>90	2700 K	4310 lm
			3000 K	4410 lm
REFLEX² Ceiling M 600 Plexiglas® pyramid structure silver	40 W	>90	2700 K	3360 lm
			3000 K	3440 lm
light: scrattered upwars, diffuse all around due to reflector and ceiling	50 W	>90	2700 K	4180 lm
			3000 K	4280 lm
REFLEX² Ceiling M 600 Plexiglas® pyramid structure gold	40 W	>90	2700 K	3330 lm
			3000 K	3410 lm
light: scrattered upwars, diffuse all around due to reflector and ceiling	50 W	>90	2700 K	4140 lm
			3000 K	4240 lm
REFLEX² Ceiling M 600 Plexiglas® matte white	40 W	>90	2700 K	3520 lm
			3000 K	3600 lm
light: scrattered upwars, diffuse all around due to reflector and ceiling	50 W	>90	2700 K	4370 lm
			3000 K	4480 lm

Note: The photometric data (EULUMDAT) can be downloaded from https://serien.com/downloads/
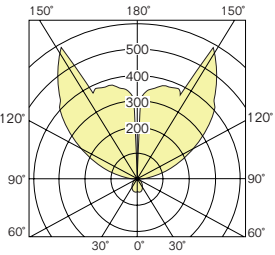
REFLEX²

Article numbers

REFLEX² Ceiling M

figure	description	lamp	control	power	CCT	art.-no.
●	150 black	LED	TRIAC 1–10 V	40 W	2700 K	RE2001
					3000 K	RE2002
			DALI	50 W	2700 K	RE2003
					3000 K	RE2004
					2200–4000 K TW	RE2005
					2200–4000 K TW + C	RE2005C
○	150 white	LED	TRIAC 1–10 V	40 W	2700 K	RE2006
					3000 K	RE2007
			DALI	50 W	2700 K	RE2008
					3000 K	RE2009
					2200–4000 K TW	RE2010
					2200–4000 K TW + C	RE2010C
●	200 black	LED	TRIAC 1–10 V	40 W	2700 K	RE2801
					3000 K	RE2802
			DALI	50 W	2700 K	RE2803
					3000 K	RE2804
					2200–4000 K TW	RE2805
					2200–4000 K TW + C	RE2805C
○	200 white	LED	TRIAC 1–10 V	40 W	2700 K	RE2806
					3000 K	RE2807
			DALI	50 W	2700 K	RE2808
					3000 K	RE2809
					2200–4000 K TW	RE2810
					2200–4000 K TW + C	RE2810C
●	300 black	LED	TRIAC 1–10 V	40 W	2700 K	RE2101
					3000 K	RE2102
			DALI	50 W	2700 K	RE2103
					3000 K	RE2104
					2200–4000 K TW	RE2105
					2200–4000 K TW + C	RE2105C
○	300 white	LED	TRIAC 1–10 V	40 W	2700 K	RE2106
					3000 K	RE2107
			DALI	50 W	2700 K	RE2108
					3000 K	RE2109
					2200–4000 K TW	RE2110
					2200–4000 K TW + C	RE2110C
●	450 black	LED	TRIAC 1–10 V	40 W	2700 K	RE2201
					3000 K	RE2202
			DALI	50 W	2700 K	RE2203
					3000 K	RE2204
					2200–4000 K TW	RE2205
					2200–4000 K TW + C	RE2205C
○	450 white	LED	TRIAC 1–10 V	40 W	2700 K	RE2206
					3000 K	RE2207
			DALI	50 W	2700 K	RE2208
					3000 K	RE2209
					2200–4000 K TW	RE2210
					2200–4000 K TW + C	RE2210C
●	600 black	LED	TRIAC 1–10 V	40 W	2700 K	RE2301
					3000 K	RE2302
			DALI	50 W	2700 K	RE2303
					3000 K	RE2304
					2200–4000 K TW	RE2305
					2200–4000 K TW + C	RE2305C
○	600 white	LED	TRIAC 1–10 V	40 W	2700 K	RE2306
					3000 K	RE2307
			DALI	50 W	2700 K	RE2308
					3000 K	RE2309
					2200–4000 K TW	RE2310
					2200–4000 K TW + C	RE2310C

REFLEX²

Article numbers

REFLEX² Ceiling M Reflector

figure	description	Art.-Nr.
	pyramid structure white	RE3001
	pyramid structure silver	RE3002
	pyramid structure gold	RE3003
	matte white	RE3004

REFLEX² is a modular article. Please order the lamp unit and reflector together.

Special versions

Other versions (CCT/CRI), different coatings and special lenghts 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 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, declarations of conformity, returns form, FAQs, assembly instructions, drilling templates and other service instructions.

Credits

©Photography: Christoph Lison, Becker Lacour - Olaf Becker, Rendering: serien.lighting

Imprint

coming soon