

# REFLEX<sup>2</sup>

## Data Sheet

Ceiling M



REFLEX<sup>2</sup> 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. REFLEX<sup>2</sup> 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.

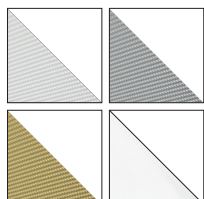
Examples of applications:  
Even at full power, REFLEX<sup>2</sup> creates an absolutely glare-free light, whose color may further be adjusted optional via Bluetooth from a warm lightbulb glow to pure white using Tunable White technology. As such, the subtle structure gives rise to intensive lighting moods in the space.

### Material

#### Surfaces



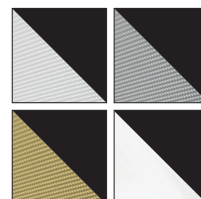
matte white  
RAL 9010



Reflector



matte black  
RAL 9005



Reflector

#### Housing

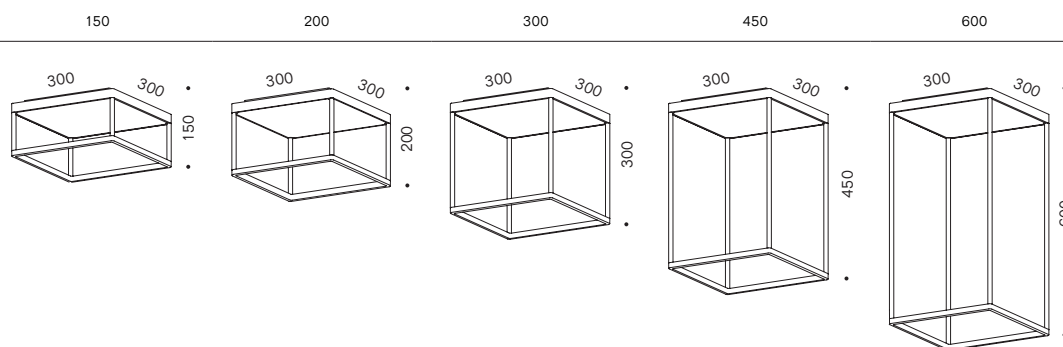
Die-cast aluminum  
Lightweight covers flat glass satinée

#### Reflector

Plexiglas® pyramid structure backside coated white, silver or gold  
Plexiglas® white matte  
REFLEX<sup>2</sup> is a modular article. Please order the luminaire and the reflector together.

### Variations

#### Dimensions in mm



#### Weight

2,2 kg      2,3 kg      2,3 kg      2,4 kg      2,5 kg

### LED

Light color	Color rendering Index CRI	Color consistency	Luminous flux	Energy efficiency class
2700 K	>90	3 Step	126 lm/W	E
3000 K	>90	3 Step	131 lm/W	E
TunableWhite	>90	3 Step	up to 149 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

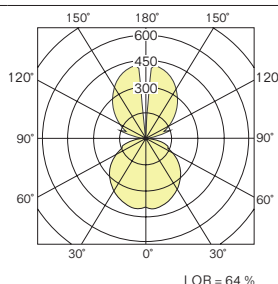
Control	Connected load	Operating voltage	Constant current / voltage	Feature
TRIAC	40 W	230 V AC / 50 Hz	800 mA / 46 V	dimnable
DALI	50 W	230 V AC / 50 Hz	1050 mA / 46 V	dimnable, Touch DIM
CASAMBI	50 W	230 V AC / 50 Hz	1050 mA / 46 V	dimnable, DALI/Touch DIM

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



### Photometric data sheet

#### REFLEX<sup>2</sup> Ceiling M 150 Plexiglas® pyramid structure white



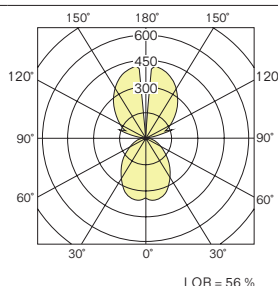
UGR ≤ 19

light: scattered upwards,  
diffuse all around due to  
reflector and ceiling

Power      CRI      CCT      Luminous flux  
(measured value)

Power	CRI	CCT	Luminous flux (measured value)
40 W	Ra>90 R9>50	2700 K	3200 lm
		3000 K	3280 lm
50 W	Ra>90 R9>50	2700 K	3980 lm
		3000 K	4080 lm

#### REFLEX<sup>2</sup> Ceiling M 150 Plexiglas® pyramid structure silver

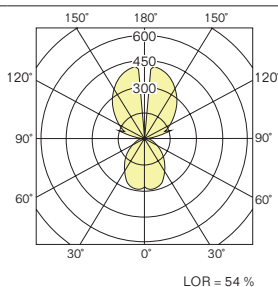
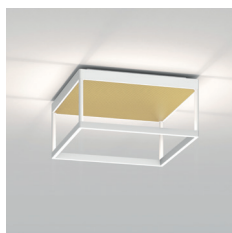


UGR ≤ 16

light: scattered upwards,  
diffuse all around due to  
reflector and ceiling

Power	CRI	CCT	Luminous flux (measured value)
40 W	Ra>90 R9>50	2700 K	2810 lm
		3000 K	2880 lm
50 W	Ra>90 R9>50	2700 K	3500 lm
		3000 K	3580 lm

#### REFLEX<sup>2</sup> Ceiling M 150 Plexiglas® pyramid structure gold

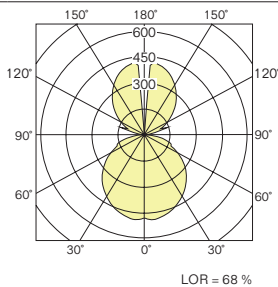


UGR ≤ 13

light: scattered upwards,  
diffuse all around due to  
reflector and ceiling

Power	CRI	CCT	Luminous flux (measured value)
40 W	Ra>90 R9>50	2700 K	2700 lm
		3000 K	2770 lm
50 W	Ra>90 R9>50	2700 K	3360 lm
		3000 K	3440 lm

#### REFLEX<sup>2</sup> Ceiling M 150 Plexiglas® matte white



UGR ≤ 19

light: scattered upwards,  
diffuse all around due to  
reflector and ceiling

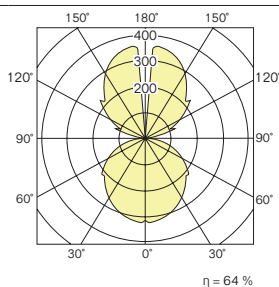
Power	CRI	CCT	Luminous flux (measured value)
40 W	Ra>90 R9>50	2700 K	3390 lm
		3000 K	3470 lm
50 W	Ra>90 R9>50	2700 K	4210 lm
		3000 K	4310 lm



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

### Photometric data sheet

#### REFLEX<sup>2</sup> Ceiling M 200 Plexiglas® pyramid structure white



UGR ≤ 19

light: scattered upwards,  
diffuse all around due to  
reflector and ceiling

Power      CRI      CCT      Luminous flux  
(measured value)

40 W

Ra>90  
R9>50

2700 K      3250 lm

3000 K      3330 lm

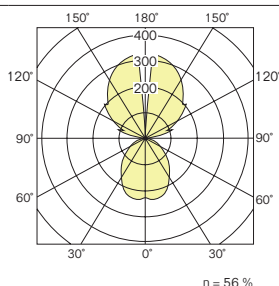
50 W

Ra>90  
R9>50

2700 K      4040 lm

3000 K      4140 lm

#### REFLEX<sup>2</sup> Ceiling M 200 Plexiglas® pyramid structure silver



UGR ≤ 16

light: scattered upwards,  
diffuse all around due to  
reflector and ceiling

40 W

Ra>90  
R9>50

2700 K      2910 lm

3000 K      2980 lm

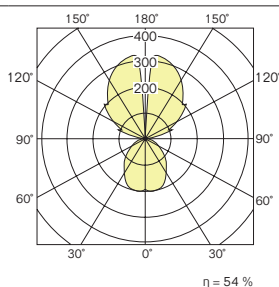
50 W

Ra>90  
R9>50

2700 K      3620 lm

3000 K      3710 lm

#### REFLEX<sup>2</sup> Ceiling M 200 Plexiglas® pyramid structure gold



UGR ≤ 13

light: scattered upwards,  
diffuse all around due to  
reflector and ceiling

40 W

Ra>90  
R9>50

2700 K      2820 lm

3000 K      2880 lm

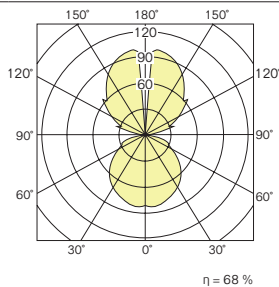
50 W

Ra>90  
R9>50

2700 K      3500 lm

3000 K      3590 lm

#### REFLEX<sup>2</sup> Ceiling M 200 Plexiglas® matte white



UGR ≤ 19

light: scattered upwards,  
diffuse all around due to  
reflector and ceiling

40 W

Ra>90  
R9>50

2700 K      3410 lm

3000 K      3500 lm

50 W

Ra>90  
R9>50

2700 K      4240 lm

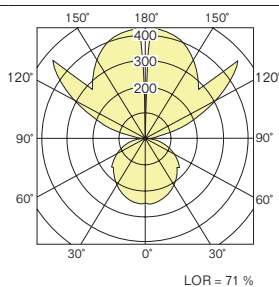
3000 K      4340 lm



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

### Photometric data sheet

#### REFLEX<sup>2</sup> Ceiling M 300 Plexiglas® pyramid structure white



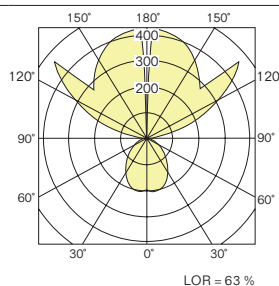
UGR ≤16

light: scattered upwards,  
diffuse all around due to  
reflector and ceiling

Power      CRI      CCT      Luminous flux  
(measured value)

40 W	Ra>90 R9>50	2700 K	3350 lm
		3000 K	3430 lm
50 W	Ra>90 R9>50	2700 K	4160 lm
		3000 K	4260 lm

#### REFLEX<sup>2</sup> Ceiling M 300 Plexiglas® pyramid structure silver

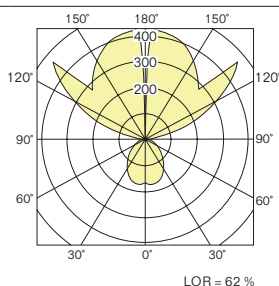


UGR ≤13

light: scattered upwards,  
diffuse all around due to  
reflector and ceiling

40 W	Ra>90 R9>50	2700 K	3120 lm
		3000 K	3190 lm
50 W	Ra>90 R9>50	2700 K	3880 lm
		3000 K	3970 lm

#### REFLEX<sup>2</sup> Ceiling M 300 Plexiglas® pyramid structure gold

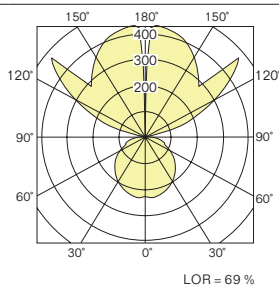


UGR ≤13

light: scattered upwards,  
diffuse all around due to  
reflector and ceiling

40 W	Ra>90 R9>50	2700 K	3050 lm
		3000 K	3120 lm
50 W	Ra>90 R9>50	2700 K	3790 lm
		3000 K	3880 lm

#### REFLEX<sup>2</sup> Ceiling M 300 Plexiglas® matte white



UGR ≤16

light: scattered upwards,  
diffuse all around due to  
reflector and ceiling

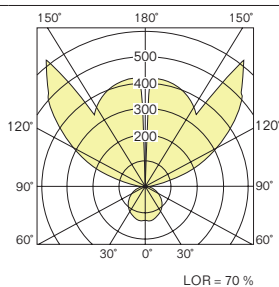
40 W	Ra>90 R9>50	2700 K	3460 lm
		3000 K	3540 lm
50 W	Ra>90 R9>50	2700 K	4300 lm
		3000 K	4400 lm

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

### Photometric data sheet

#### REFLEX<sup>2</sup> Ceiling M 450 Plexiglas® pyramid structure white

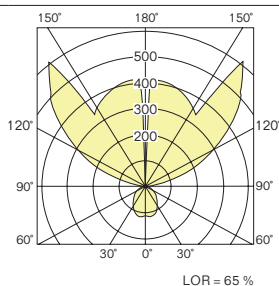
UGR ≤13  
light: scattered upwards,  
diffuse all around due to  
reflector and ceiling



Power	CRI	CCT	Luminous flux (measured value)
40 W	Ra>90 R9>50	2700 K	3420 lm
		3000 K	3500 lm
50 W	Ra>90 R9>50	2700 K	4260 lm
		3000 K	4360 lm

#### REFLEX<sup>2</sup> Ceiling M 450 Plexiglas® pyramid structure silver

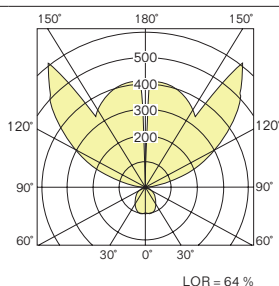
UGR ≤13  
light: scattered upwards,  
diffuse all around due to  
reflector and ceiling



40 W	Ra>90 R9>50	2700 K	3270 lm
		3000 K	3350 lm
50 W	Ra>90 R9>50	2700 K	4070 lm
		3000 K	4170 lm

#### REFLEX<sup>2</sup> Ceiling M 450 Plexiglas® pyramid structure gold

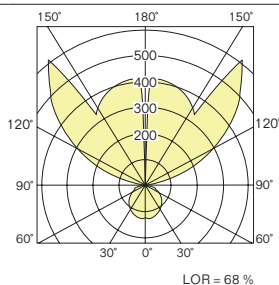
UGR ≤13  
light: scattered upwards,  
diffuse all around due to  
reflector and ceiling



40 W	Ra>90 R9>50	2700 K	3230 lm
		3000 K	3300 lm
50 W	Ra>90 R9>50	2700 K	4010 lm
		3000 K	4110 lm

#### REFLEX<sup>2</sup> Ceiling M 450 Plexiglas® matte white

UGR ≤13  
light: scattered upwards,  
diffuse all around due to  
reflector and ceiling

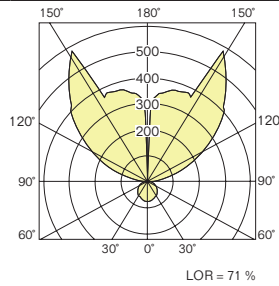


40 W	Ra>90 R9>50	2700 K	3490 lm
		3000 K	3580 lm
50 W	Ra>90 R9>50	2700 K	4350 lm
		3000 K	4450 lm

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

### Photometric data sheet

#### REFLEX<sup>2</sup> Ceiling M 600 Plexiglas® pyramid structure white



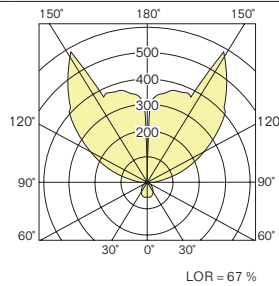
UGR ≤13

light: scattered upwards,  
diffuse all around due to  
reflector and ceiling

Power      CRI      CCT      Luminous flux  
(measured value)

40 W	Ra>90 R9>50	2700 K	3460 lm
		3000 K	3550 lm
50 W	Ra>90 R9>50	2700 K	4310 lm
		3000 K	4410 lm

#### REFLEX<sup>2</sup> Ceiling M 600 Plexiglas® pyramid structure silver

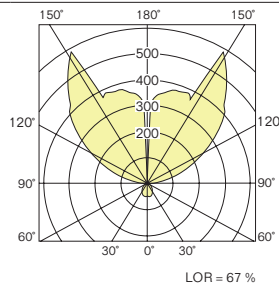


UGR ≤13

light: scattered upwards,  
diffuse all around due to  
reflector and ceiling

40 W	Ra>90 R9>50	2700 K	3360 lm
		3000 K	3440 lm
50 W	Ra>90 R9>50	2700 K	4180 lm
		3000 K	4280 lm

#### REFLEX<sup>2</sup> Ceiling M 600 Plexiglas® pyramid structure gold

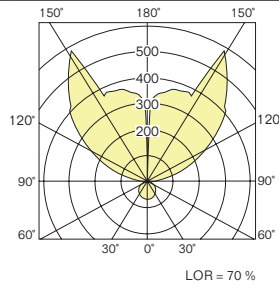


UGR ≤13

light: scattered upwards,  
diffuse all around due to  
reflector and ceiling

40 W	Ra>90 R9>50	2700 K	3330 lm
		3000 K	3410 lm
50 W	Ra>90 R9>50	2700 K	4140 lm
		3000 K	4240 lm

#### REFLEX<sup>2</sup> Ceiling M 600 Plexiglas® matte white



UGR ≤13

light: scattered upwards,  
diffuse all around due to  
reflector and ceiling

40 W	Ra>90 R9>50	2700 K	3520 lm
		3000 K	3600 lm
50 W	Ra>90 R9>50	2700 K	4370 lm
		3000 K	4480 lm

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

REFLEX<sup>2</sup> Ceiling M

figure	description	lamp	control	power	CCT	art.-no.
●	150 black	LED	TRIAC	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	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	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	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	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	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	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	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	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	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	





### REFLEX<sup>2</sup> Ceiling M Reflector

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

REFLEX<sup>2</sup> is a modular article. Please order the lamp unit and reflector together.

## 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 <a href="http://www.casambi.com">www.casambi.com</a> .
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 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.
	<b>At <a href="http://www.serien.com/downloads">www.serien.com/downloads</a></b> 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.

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