

Somnium

Carlotta de Bevilacqua

Artemide[®]

Somnium

Carlotta de Bevilacqua
2024

Somnium is a system born from the fusion of optical, structural and production elements, brought to life through transparency. At its core there is an optical cell, engineered for maximum efficiency and optimal perception. Much like a cell, it reproduces and collaborates within the system, creating a seamless flow.

The optical element, crafted from a singular material, embodies sustainable industrial intelligence in its design. It reduces material diversity, minimises weight, and simplifies production steps.

The patented optical synthesis is the principle through which to design the reality of lighting within space thanks to a system of linear or curved modules and 90° joints.

PATENT OF INVENTION: OPTICS



Artemide
App

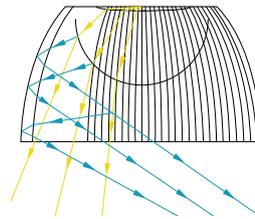


For further information on Somnium
visit artemide.com

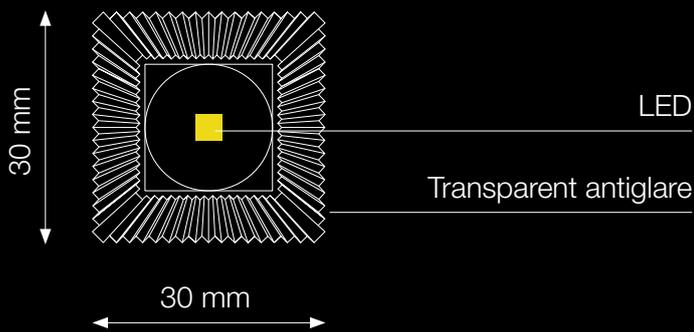
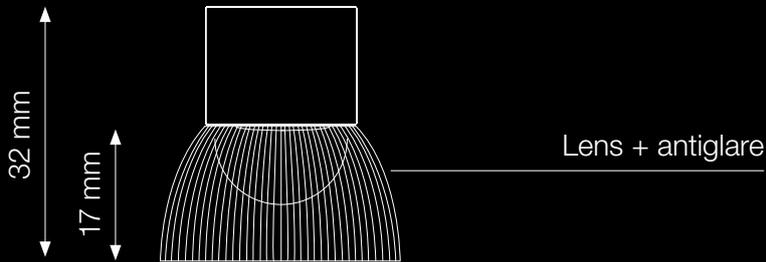
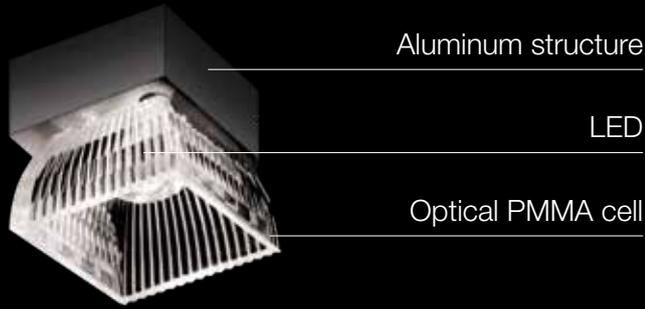
Transparency challenge

Optical control elements

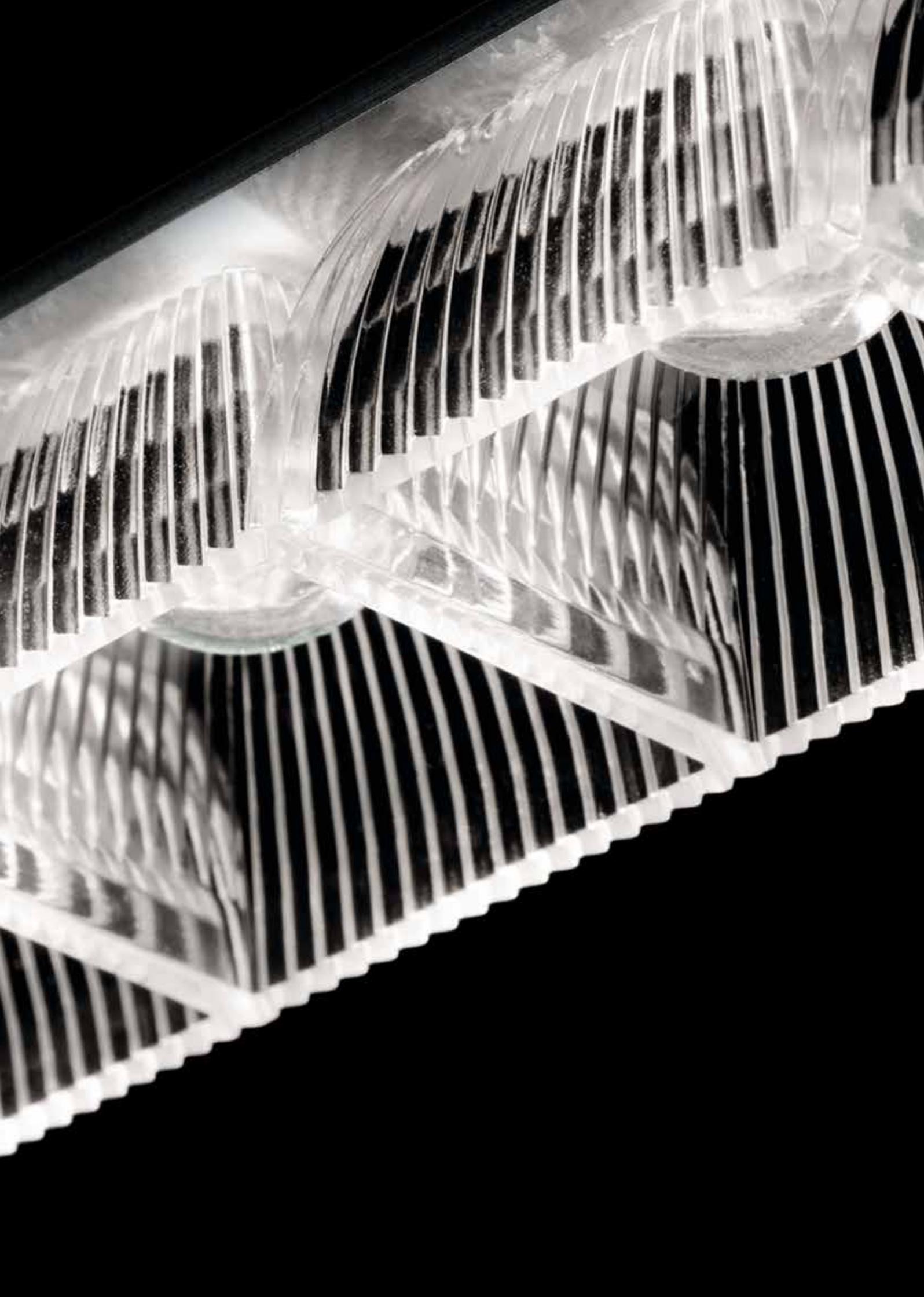
Refractive lens and TIR
(total internal reflection) antiglare
Collects around 100% of the LED
luminous flux and reflects secondary
rays maximizing the flux output.



Materic convergence
between lens and antiglare
Optical PMMA

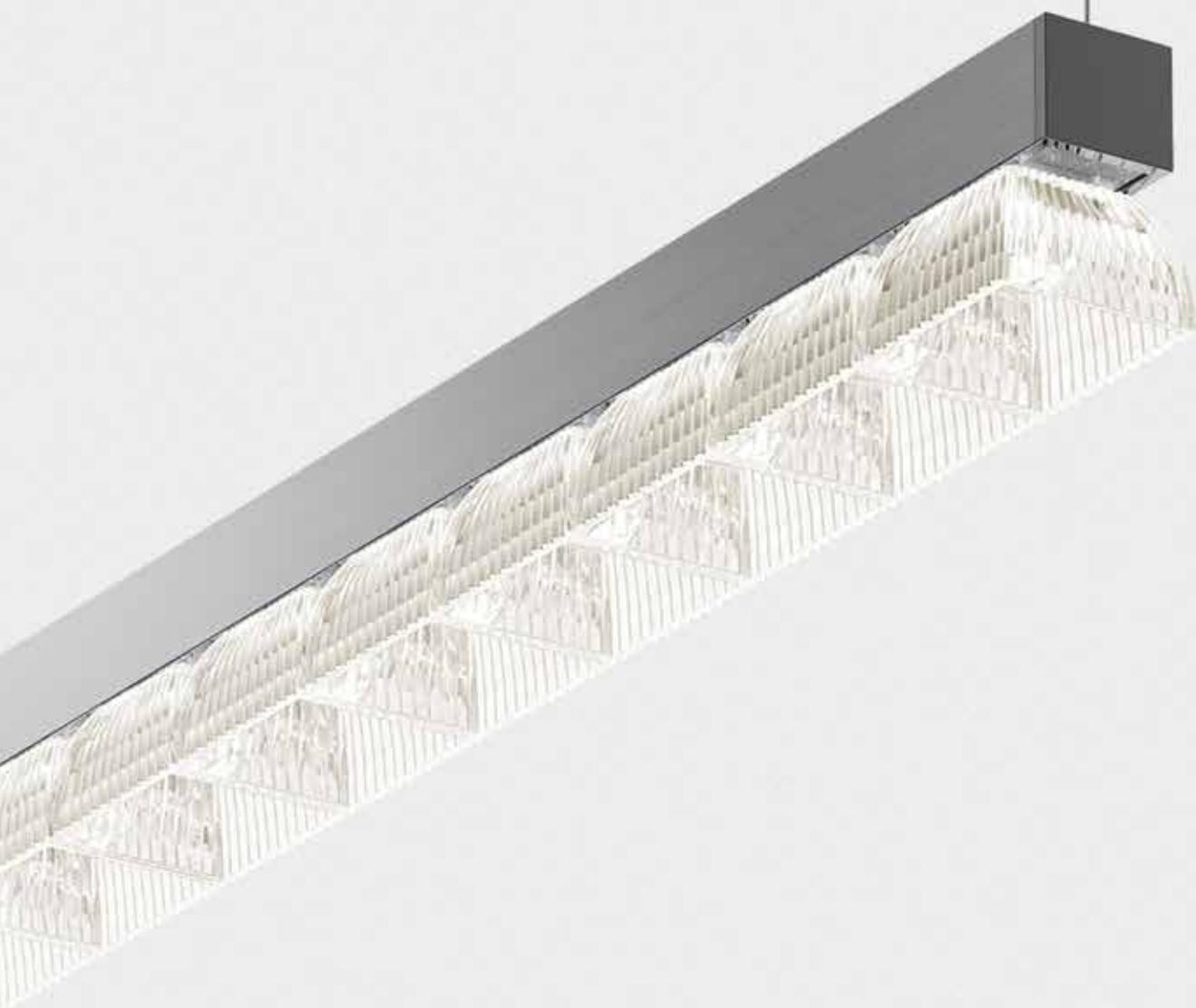






Responsible energetic project

Extreme efficacy



DIRECT EMISSION

Controlled distribution

Beam 2X35°

UGR<16

HIGH EFFICIENCY

up to 93%

HIGH EFFICACY

up to 165 lm/W stand alone

up to 160 lm/W system

CRI90



INDIRECT EMISSION

Diffused distribution

Beam 2X60°



Perceptive light principle

Balanced luminance and contrast

Somnium represents also the perceptive balance in terms of contrast between the optical structure and background. The luminance contrast, defined by the relation between the object and background luminances, is an important parameter in light design. Somnium respects values of luminous contrast up to 100, normally considered comfortable applications, in accordance with standards and other recognized parameters*.

$$C = (L_{obj} - L_{bg}) / L_{bg}$$

where:

L_{obj} = object luminance

L_{bg} = background luminance

Object luminance around us is generally between 10-20 cd/m^2 (not directly illuminated object) and 1500 cd/m^2 (directly illuminated ceiling from indirect light source).

*EN 12464 requires < 3000 cd/m^2

WELL requires < 6000 cd/m^2

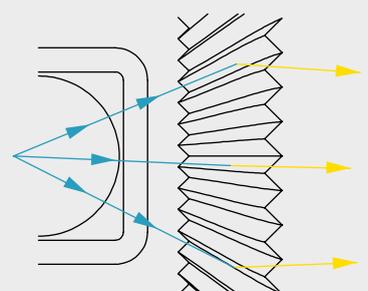
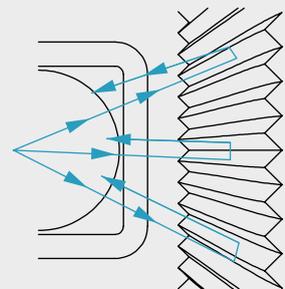
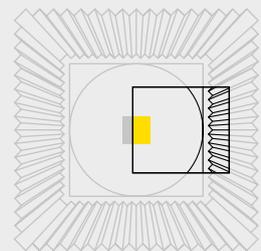


TIR (total internal reflection) optical structure ensures a comfortable perception of the product in the surrounding.

The very minimum percentage (<1%) of light that, due both to the physical phenomenon of refraction and to the natural impurity of PMMA of the lens, is diffused by the external optical structure.

Its illumination allows to perceive itself as a vivid presence contributing to the direct light emission.

The total enlightened surface captured by sight, being wider maintains the luminance <math><3000\text{ cd/m}^2</math> at





Spatial dialogue

Replicable coincidence among
optics, mechanics and electronics

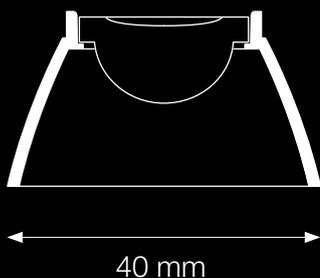


Miniaturized dimensions

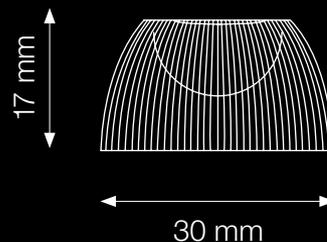
Reduced materials diversity

A perfect synthesis

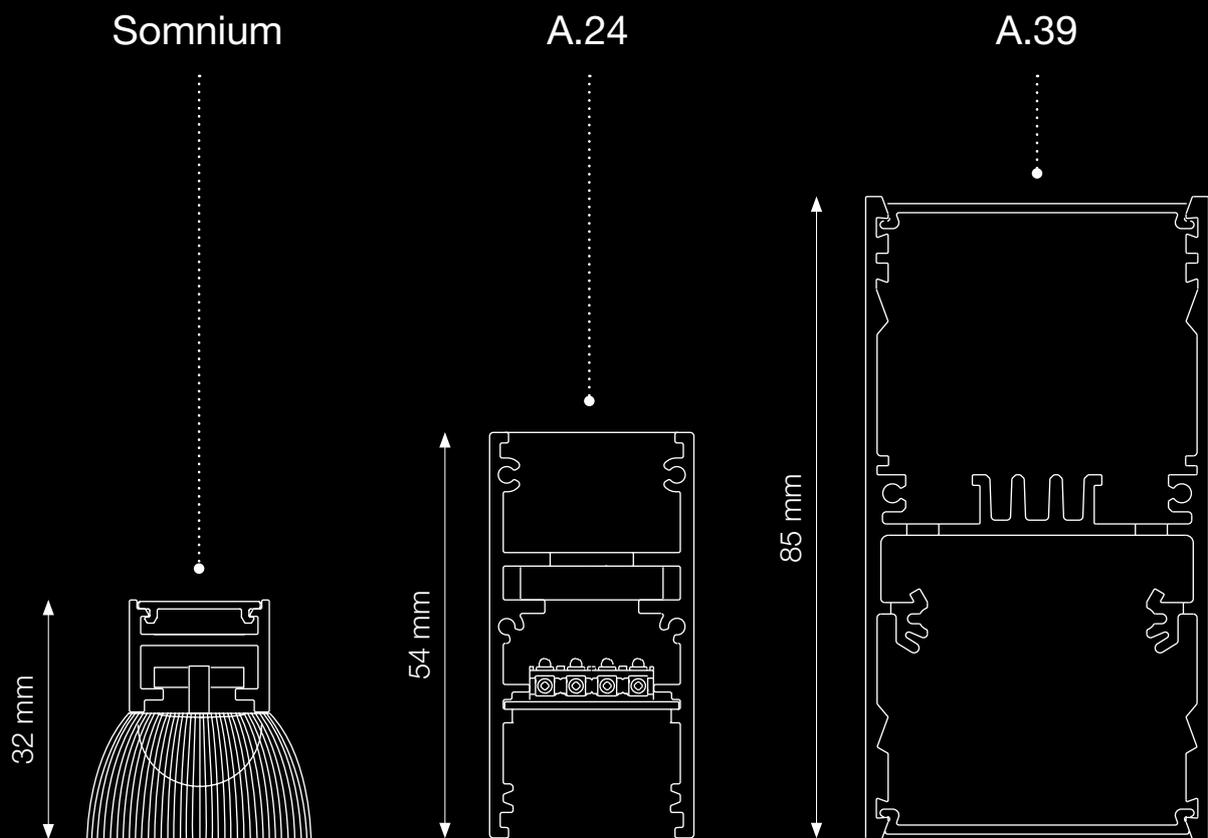
Antiglare and lens, usually made by contrasted materials, come together in a single miniaturized transparent component.



Traditional antiglare black/white



Somnium Transparent antiglare



Reduced dimensions and reduced weight:

Linear 1260
1260 x h 32 mm

0,6 Kg

Circular 1100
Ø1100 x h 32 mm

1,6 Kg

Cellular collaboration

Modular growth and balance

Max length 15 m
one power supply kit 200W

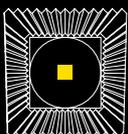
DALI2/PUSH

APP & PUSH

0-10

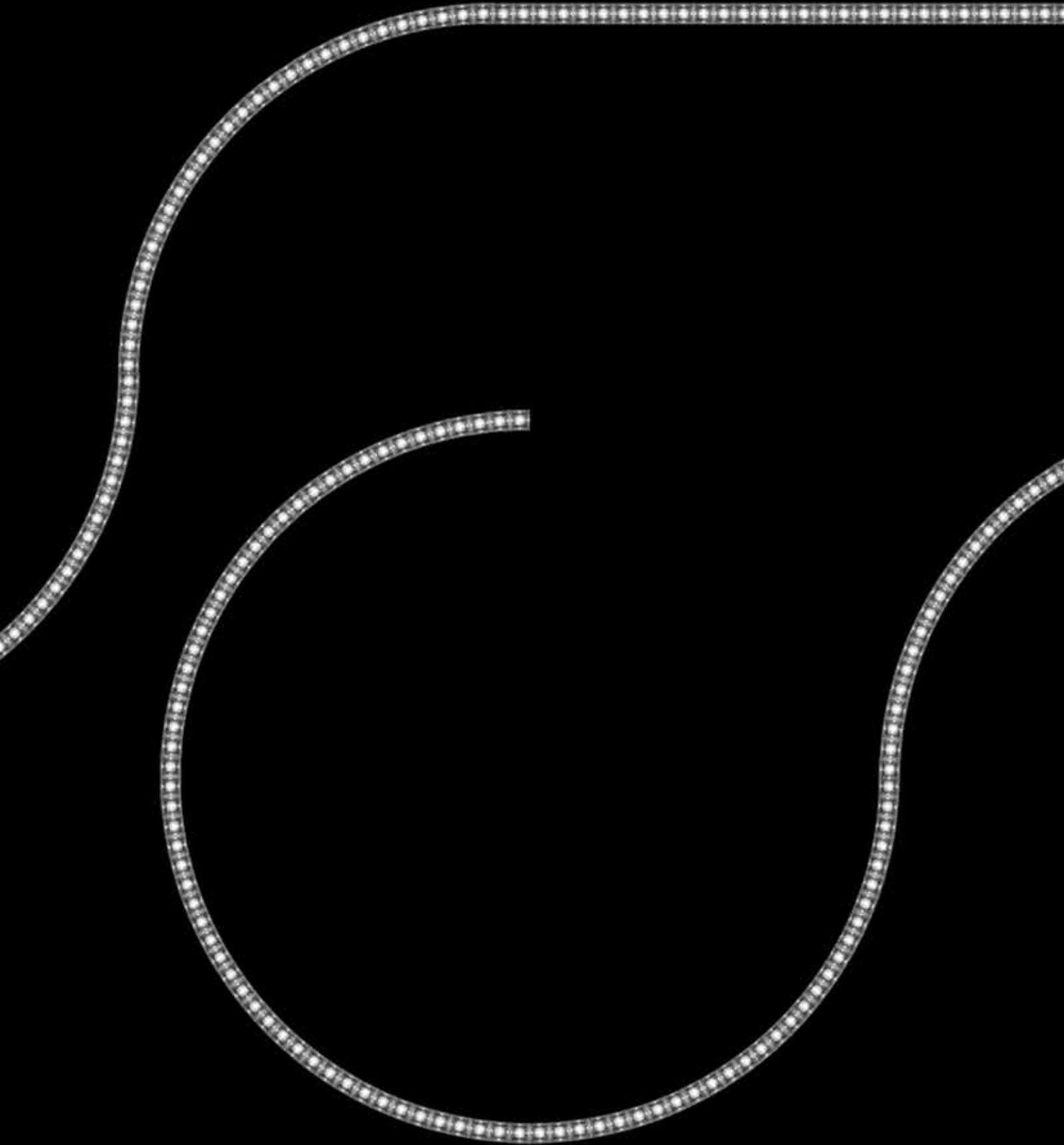


Linear growth
Square cells



Radial growth
Trapezoidal cells







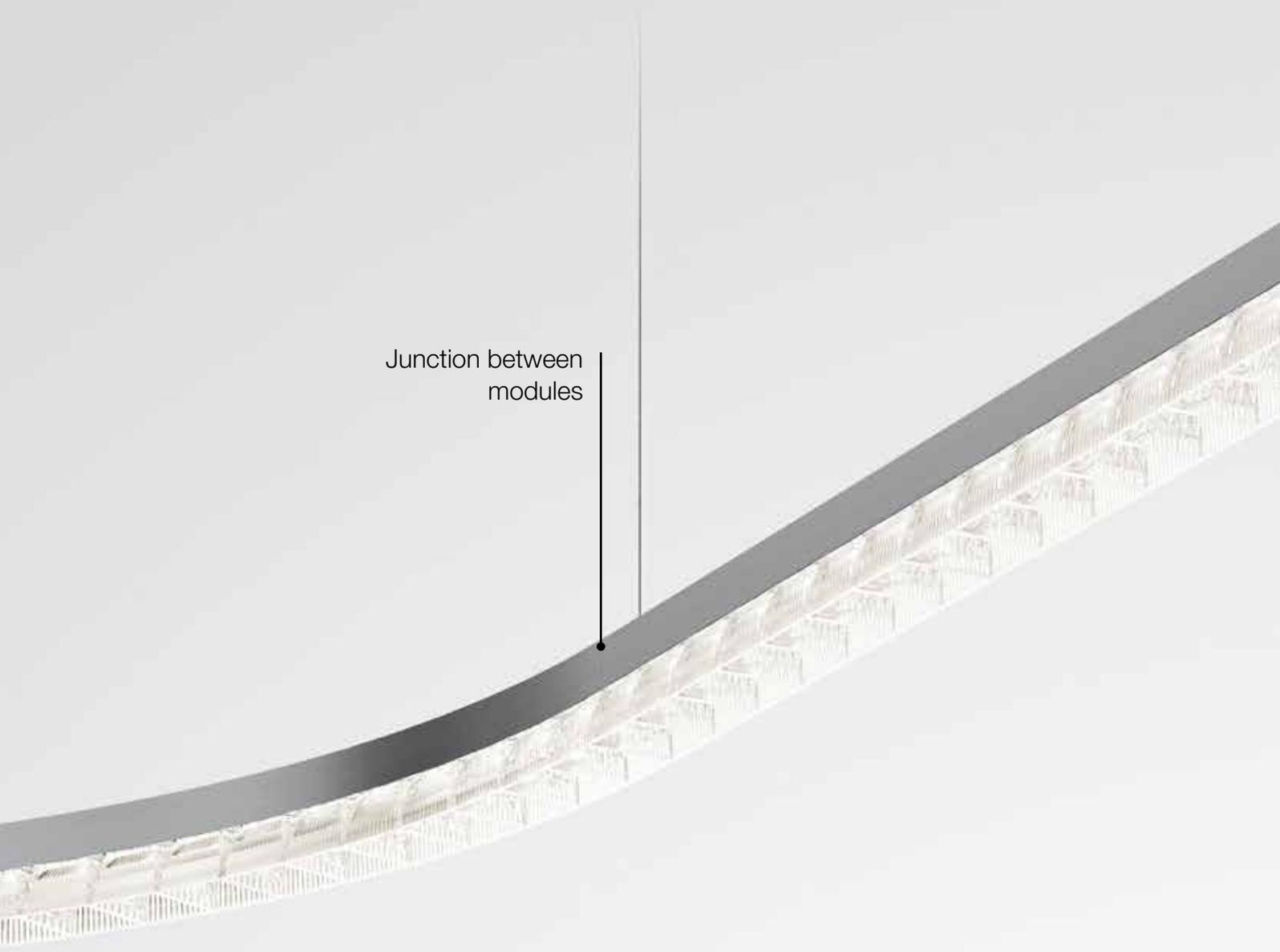


Sustainable synthesis

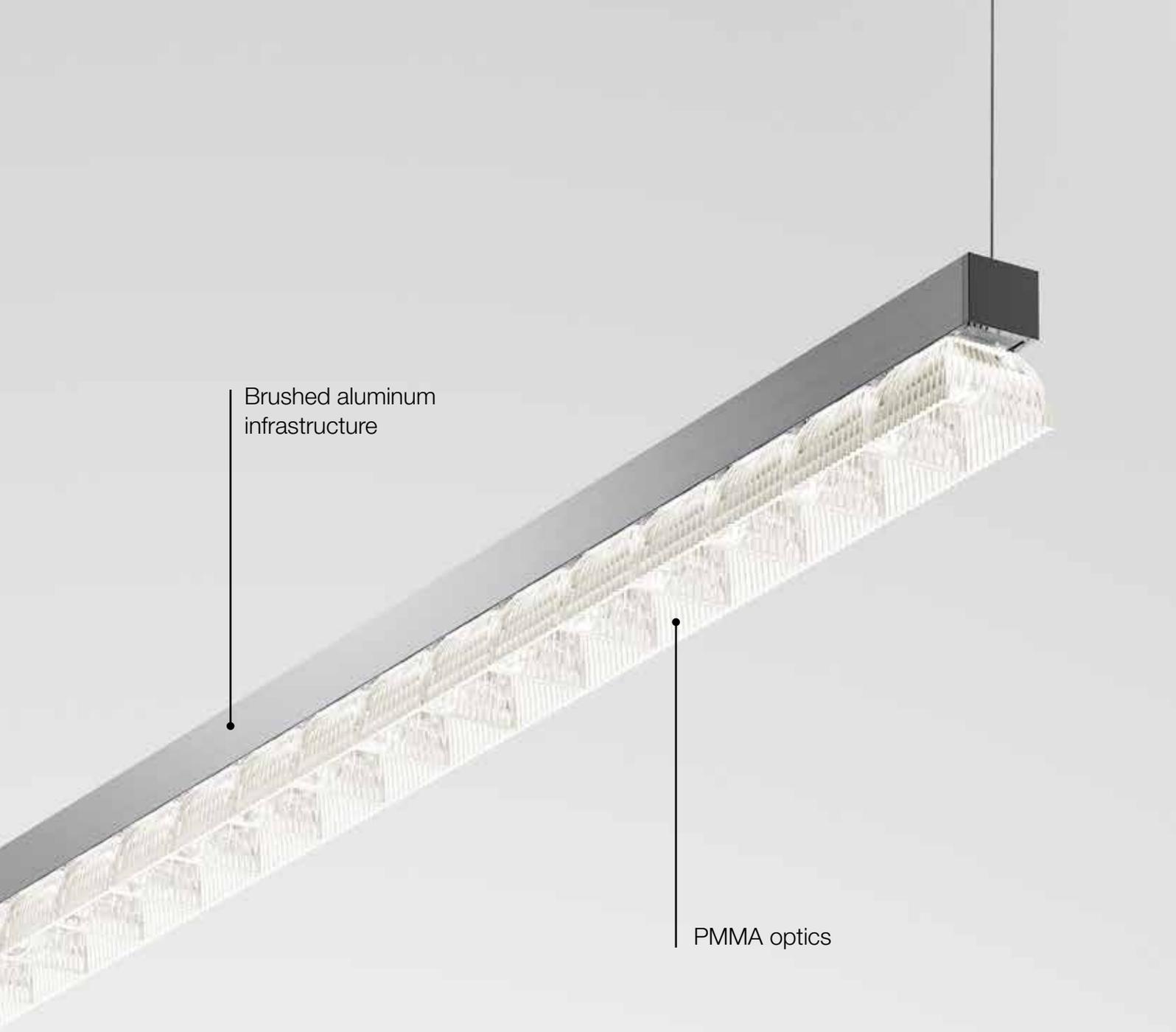
Industrial intelligence

Essential energetic consumption

Universal manufacturing act



Junction between
modules



Brushed aluminum
infrastructure

PMMA optics

Light is not dressed up with something added but summarizes the essential according to measured parameters.

Optical PMMA

Injection mold

Structural aluminum

Extrusion

Somnium Stand alone

Integrating different performances

CONFIGURATIONS

CONSTANT CURRENT FED

Linear 1260

1260 x h 32 mm

Total Power: 20W

Flux: 3287 lm

Linear 1680

1680 x h 32 mm

Total Power: 27W

Flux: 4383 lm

Linear 2100

2100 x h 32 mm

Total Power: 34W

Flux: 5479 lm

Circular 832

Ø832 x h 32 mm

Total Power: 27W

Flux: 4452 lm

Circular 1100

Ø1100 x h 32 mm

Total Power: 36W

Flux: 5936 lm

SCENARIOS

WORKPLACES

Stand alone

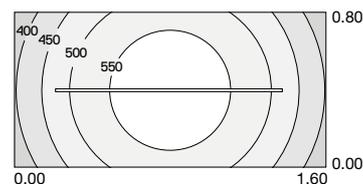
1 linear 1260

Total Power: 20W

Direct + indirect

3000K

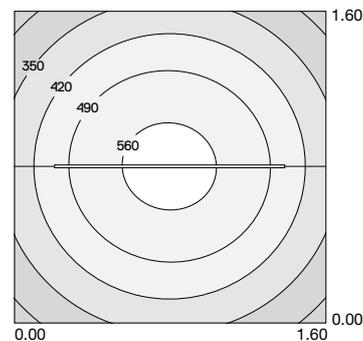
n.1 desk



Installation h 2400 mm - Desk h 750 mm

$E_{av} = 572 \text{ lx}$ $u_0 = 0,711$

n.2 desks



Installation h 2400 mm - Desk h 750 mm

$E_{av} = 510 \text{ lx}$ $u_0 = 0,571$

Linear 1260



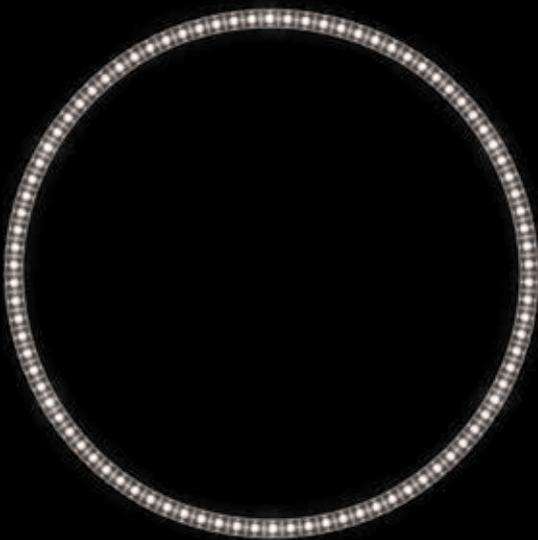
Linear 1680



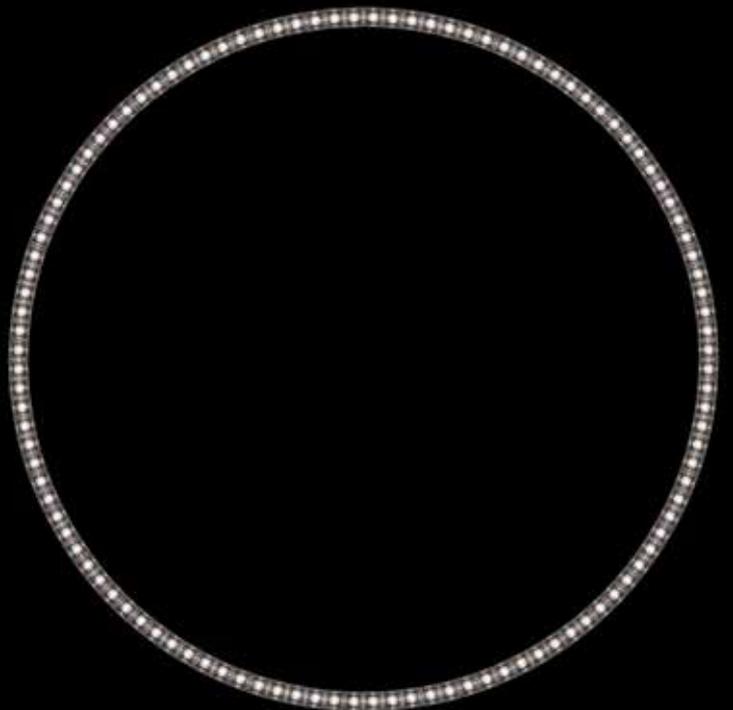
Linear 2100



Circular 832



Circular 1100



SOMNIUM STAND ALONE

Brushed Aluminum



Direct and indirect emissions are simultaneously controlled.
 0-10 dimming: 120-240 supply voltage.

MacAdam 3SDCM
 Life L70(17k) 102000h
 CRI=90

IP20

 Glow wire test 650°

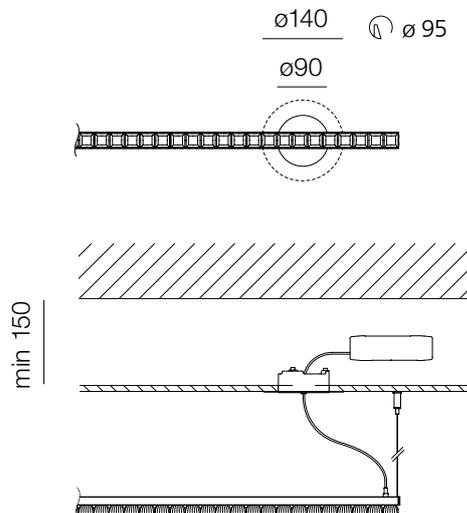
STAND ALONE LINEAR

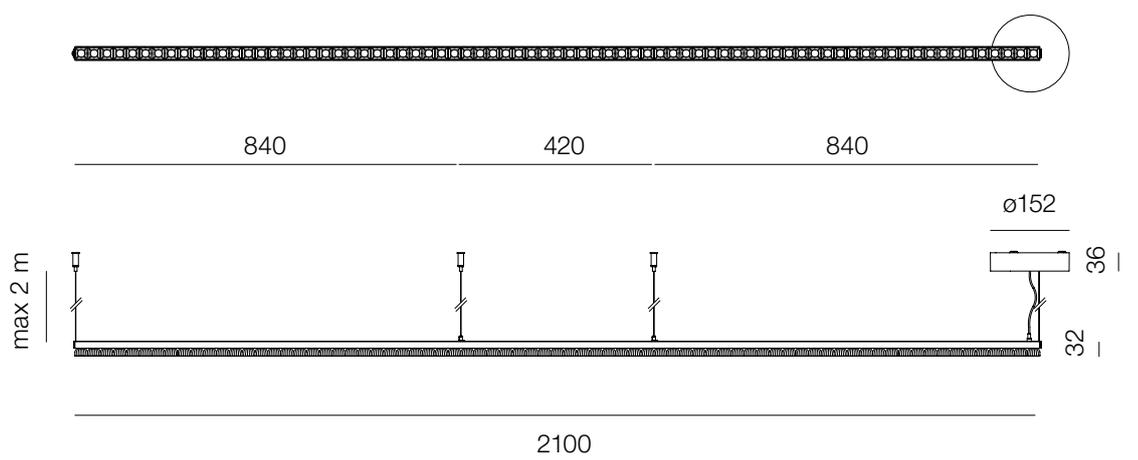
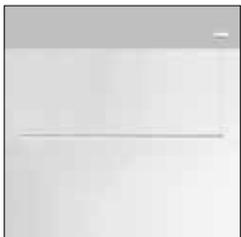
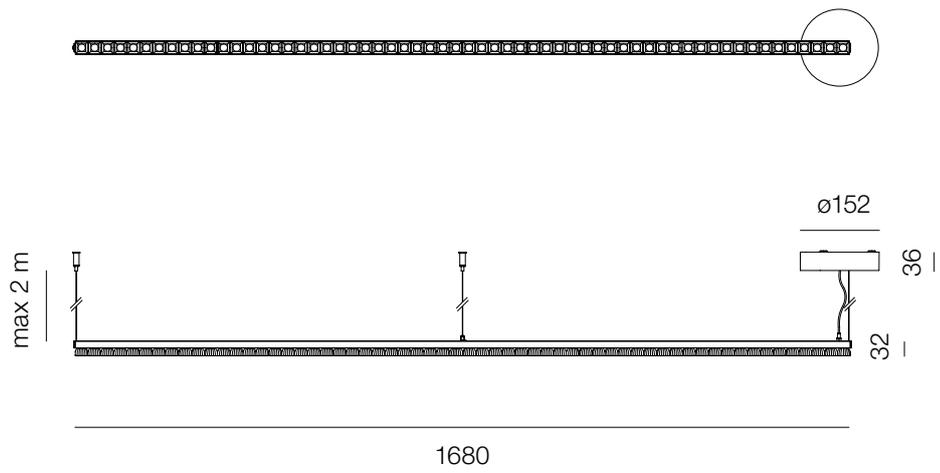
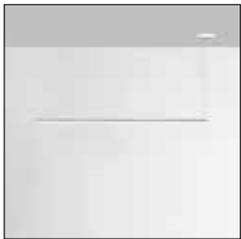
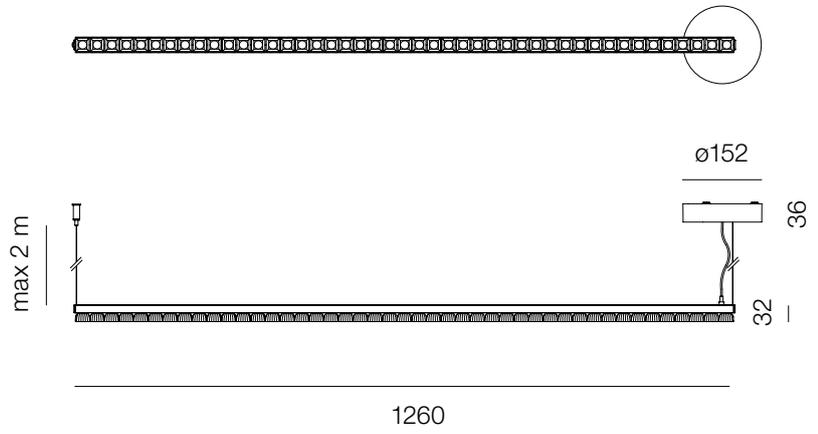
Direct + indirect emission with ceiling power supply						DALI/PUSH	APP & PUSH	0-10'
Size	Weight	W	Supply voltage	Flux	CCT	Code	Code	Code
h32 x 1260 mm	0,6 kg	20W	220-240V	1726 lm direct	3000K	TT61000	TT61000APP	TT61000CO
				1561 lm indirect				
				1726 lm direct	4000K			
h32 x 1680 mm	0,8 kg	27W	220-240V	2301 lm direct	3000K	TT71000	TT71000APP	TT71000CO
				2082 lm indirect				
				2301 lm direct	4000K			
h32 x 2100 mm	1,0 kg	34W	220-240V	2877 lm direct	3000K	TT81000	TT81000APP	TT81000CO
				2602 lm indirect				
				2877 lm direct	4000K			
				2602 lm indirect		TT82000	TT82000APP	TT82000ACO

Direct + indirect emission with trimless recessed power supply						DALI/PUSH	APP & PUSH	0-10'
Size	Weight	W	Supply voltage	Flux	CCT	Code	Code	Code
h32 x 1260 mm	0,6 kg	20W	220-240V	1726 lm direct	3000K	TT61100	TT61100APP	TT61100CO
				1561 lm indirect				
				1726 lm direct	4000K			
h32 x 1680 mm	0,8 kg	27W	220-240V	2301 lm direct	3000K	TT71100	TT71100APP	TT71100CO
				2082 lm indirect				
				2301 lm direct	4000K			
h32 x 2100 mm	1,0 kg	34W	220-240V	2877 lm direct	3000K	TT81100	TT81100APP	TT81100CO
				2602 lm indirect				
				2877 lm direct	4000K			
				2602 lm indirect		TT82100	TT82100APP	TT82100CO



Trimless recessed power supply
 Detail with linear 1260





SOMNIUM STAND ALONE

Brushed Aluminum



Direct and indirect emissions are simultaneously controlled.

MacAdam 3SDCM
Life L70(17k) 102000h
CRI=90

IP20



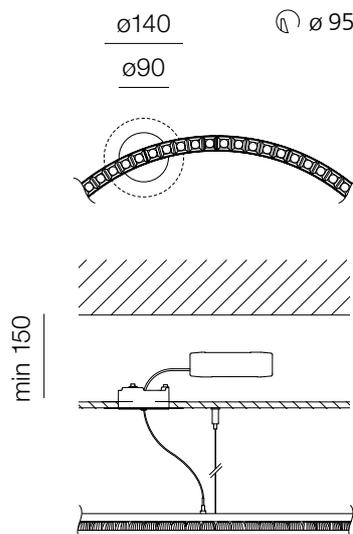
Glow wire test
650°

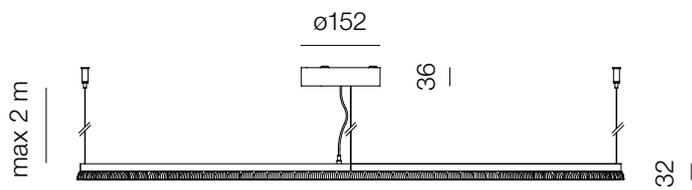
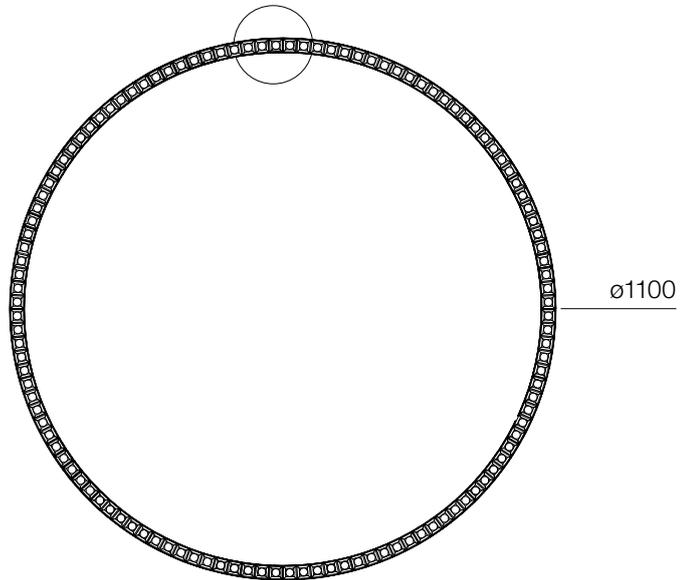
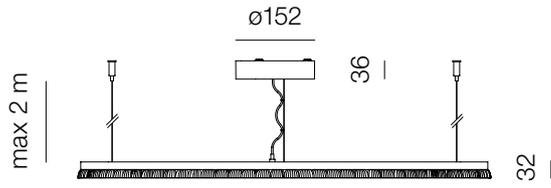
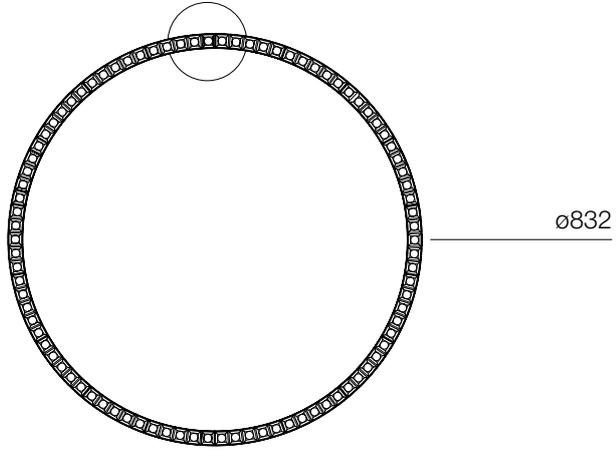
STAND ALONE CIRCULAR

Direct and indirect emission with ceiling power supply						DALI/PUSH	APP & PUSH	0-10
Size	Weight	W	Driver supply voltage	Flux	CCT	Code	Code	Code
h32 x ø832 mm	1,2 kg	27W	220-240V	2338 lm direct	3000K	TT93000	TT93000APP	TT93000CO
				2114 lm indirect	4000K			
				2338 lm direct	3000K	TT94000	TT94000APP	TT94000CO
				2114 lm indirect	4000K			
h32 x ø1100 mm	1,6 kg	36W	220-240V	3117 lm direct	3000K	TT91000	TT91000APP	TT91000CO
				2819 lm indirect	4000K			
				3117 lm direct	3000K	TT92000	TT92000APP	TT92000CO
				2819 lm indirect	4000K			

Direct and indirect emission with trimless recessed power supply						DALI/PUSH	APP & PUSH	0-10
Size	Weight	W	Driver supply voltage	Flux	CCT	Code	Code	Code
h32 x ø832 mm	1,2 kg	27W	220-240V	2338 lm direct	3000K	TT93100	TT93100APP	TT93100APP
				2114 lm indirect	4000K			
				2338 lm direct	3000K	TT94100	TT94100APP	TT94100APP
				2114 lm indirect	4000K			
h32 x ø1100 mm	1,6 kg	36W	220-240V	3117 lm direct	3000K	TT91100	TT91100APP	TT91100APP
				2819 lm indirect	4000K			
				3117 lm direct	3000K	TT92100	TT92100APP	TT92100APP
				2819 lm indirect	4000K			

Trimless recessed power supply
Detail with circular Ø832





Somnium System

Linear modules and 90° angle

CONFIGURATIONS

48Vdc CONSTANT VOLTAGE FED
Max 15m with one power supply kit 200W

Linear module 420

420 x h 32 mm
Total Power: 5,4W
Flux: 829 lm

Linear module 840

840 x h 32 mm
Total Power: 10,5W
Flux: 1659 lm

Linear module 1260

1260 x h 32 mm
Total Power: 16W
Flux: 2488 lm

Linear module 2100

2100 x h 32 mm
Total Power: 24W
Flux: 3710 lm

Linear module 2100

2100 x h 32 mm
Total Power: 24W
Flux: 3710 lm

Angle module 90°

225 x 225 x h 32 mm
Total Power: 5,4W
Flux: 892 lm

SCENARIOS

WORKPLACES

System

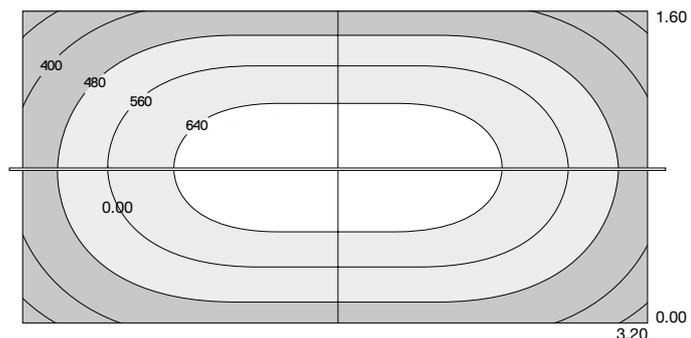
Linear modules: 2x1260 + 2x420 - tot. 3360 mm

Total Power: 42,8W

Direct + indirect

3000K

n.4 desks



Installation h 2400 mm - Desk h 750 mm
 $E_{av} = 537 \text{ lx}$ $u_0 = 0,552$

Linear module 420



Angle module 90°



Linear module 840



Linear module 1260



Linear module 2100



Somnium System

Curved modules

CONFIGURATIONS

48Vdc CONSTANT VOLTAGE FED

Max 15m with one power supply kit 200W

Round module R282,5 90°

282,5 x 282,5 x h 32 mm

Total Power: 5,4W

Flux: 829 lm

Round module R416 60°

223 x 360 x h 32 mm

Total Power: 5,4W

Flux: 829 lm

Round module R416 120°

182 x 388 x h 32 mm

Total Power: 10,5W

Flux: 1659 lm

Round module R550 45°

158 x 378 x h 32 mm

Total Power: 5,4W

Flux: 829 lm

Round module R550 90°

550 x 550 x h 32 mm

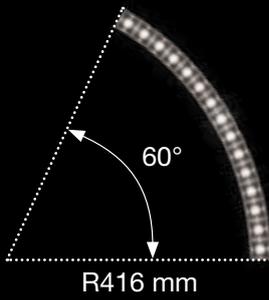
Total Power: 10,5W

Flux: 1659 lm

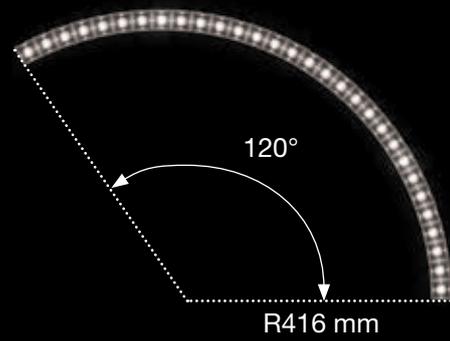
Round module 90°



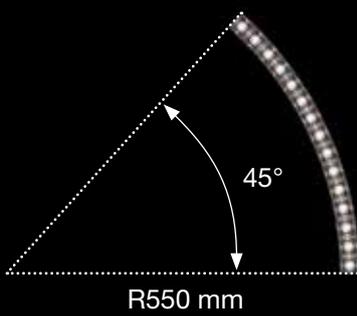
Round module 60°



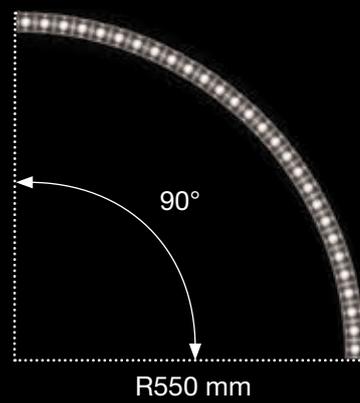
Round module 120°



Round module 45°



Round module 90°

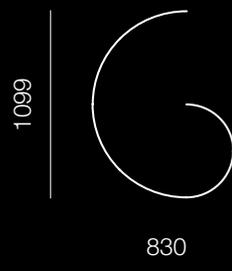
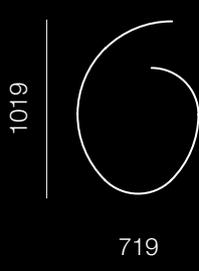


Systemic configurations

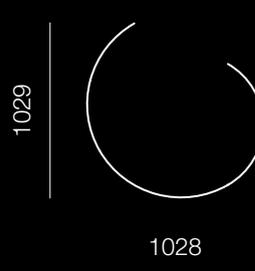
Wide range of layouts

OPEN CONFIGURATIONS WITH CURVED MODULES 48Vdc CONSTANT VOLTAGE FED

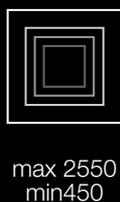
n. 4 Round modules R550 45°
+ n. 2 Round modules R282,5 90°



n. 4 Round modules R550 45°
+ n. 2 Round modules R416 60°



n. 4 Angle modules L225 90°
+ Linear modules available



n. 4 Angle modules L225 90°
+ Linear modules available



max 1260
min 450

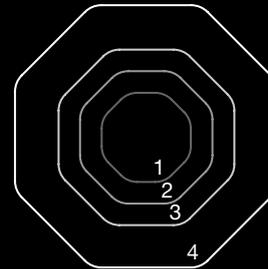
CLOSED CONFIGURATIONS

48Vdc CONSTANT VOLTAGE FED

n. 8 Round modules R550 45°
+ Linear modules available

The concentric versions are composed by:

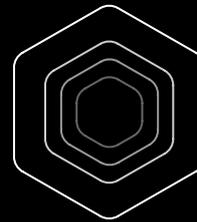
1. Linear module 420
2. Linear module 840
3. Linear module 1260
4. Linear module 2100



max 6193
min 2125

max 6193
min 2125

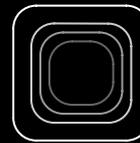
n. 6 Round modules R416 60°
+ Linear modules available



max 5030
min 1672

max 4470
min 1560

n. 4 Round modules R550 90°
+ Linear modules available



max 3200
min 1520

n. 4 Round modules R282,5 90°
+ Linear modules available



max 2665
min 985

n. 3 Round modules R416 120°
+ Linear modules available



max 2650
min 1196

max 2932
min 1252

n. 2 Round modules R282,5 90°
+ n. 2 Round modules R550 90°



722

943

SOMNIUM SYSTEM

Brushed Aluminum



Direct and indirect emissions are simultaneously controlled.

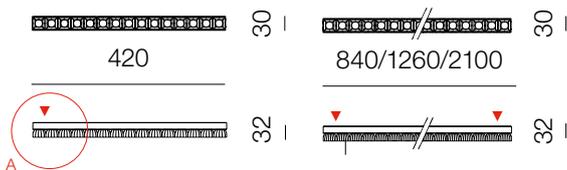
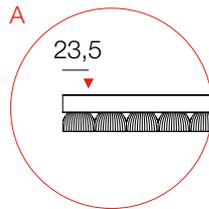
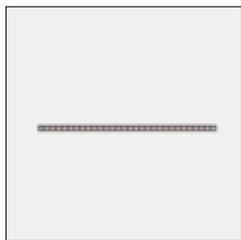
*2 suspension cables included.

MacAdam 3SDCM
Life L70(17k) 102000h
CRI=90

IP20
Glow wire test
650°

LINEAR MODULES

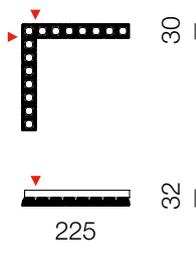
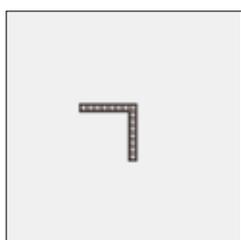
Direct + indirect emission					Code
Size	Weight	W	Flux	CCT	
h32 x 420 mm	0,2 kg	5,4W	435 lm direct	3000K	TT01000
			394 lm indirect		
h32 x 840 mm	0,4 kg	10,5W	435 lm direct	4000K	TT02000
			394 lm indirect		
h32 x 1260 mm	0,6 kg	16W	871 lm direct	3000K	TT11000
			788 lm indirect		
h32 x 2100 mm*	1,0 kg	24W	871 lm direct	4000K	TT12000
			788 lm indirect		
h32 x 1260 mm	0,6 kg	16W	1306 lm direct	3000K	TT21000
			1182 lm indirect		
h32 x 2100 mm*	1,0 kg	24W	1306 lm direct	4000K	TT22000
			1182 lm indirect		
h32 x 2100 mm*	1,0 kg	24W	1948 lm direct	3000K	TT31000
			1762 lm indirect		
h32 x 2100 mm*	1,0 kg	24W	1948 lm direct	4000K	TT32000
			1762 lm indirect		



The red arrows on the modules indicate the power supply connection points.
Linear module 420 features a single connection point; it can be rotated to allow flexible positioning.

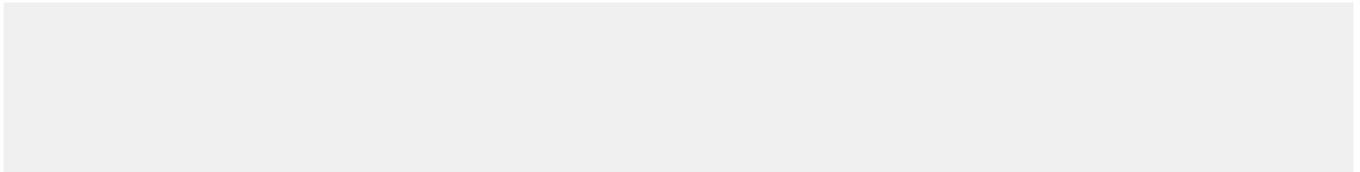
JOINT

Angle module direct + indirect emission					Code
Size	Weight	W	Flux	CCT	
32h x 225 x 225 mm	0,2 kg	5,4W	435 lm direct	3000K	TT35000
			394 lm indirect		
32h x 225 x 225 mm	0,2 kg	5,4W	435 lm direct	4000K	TT36000
			394 lm indirect		

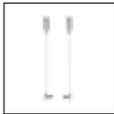


The red arrows on the modules indicate the power supply connection points.
90° angle module features two connection points.

SOMNIUM SYSTEM

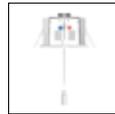


Accessories



End caps kit
Includes: 2 end caps with suspension/ceiling mounting cables

Code
TT50300



Recessed canopy for remote driver fed output constant voltage max 175W SELV 48 VDC 111x111x53h

Code
TT50605



Mechanical joint kit
Includes: 1 mechanical joint with suspension/ceiling mounting cable
For module connection

TT50400

Power supply



200W Ceiling power supply kit
Output max 175W
(cable length: 2 m)
220-240VAC-48VDC
IP20
400x110x52h

DALI2/PUSH

Code
TT50200

APP & PUSH

Code
TT50200APP

0-10

Code
TT50100



200W Trimless recessed power supply kit
Output max 175W
(cable length: 2 m)
220-240VAC-48VDC
IP20
396x195x112h

TT51200

TT51200APP

TT51100

W	Output max	Dimming type	Circuit Breaker	Cable length	Supply voltage	Output voltage	Class	Code	L _{mm}	W _{mm}	H _{mm}
200W	175W	DALI2/PUSH ¹	B16A: 3 C16A: 5 C20A: 6	2 m	220-240V	48Vdc PWM High frequency		TT50200	400	110	52
								TT51200	396	195	112
200W	175W	APP & PUSH	B16A: 3 C16A: 5 C20A: 6	2 m	220-240V	48Vdc PWM High frequency		TT50200APP	400	110	52
								TT51200APP	396	195	112
200W	175W	0-10	B16A: 3 C16A: 5 C20A: 6	2 m	120-240V	48Vdc PWM High frequency		TT50100	400	110	52
								TT51100	396	195	112

¹ For DALI2 protocol, implementation of part 251 (Luminaire data), 252 (Energy data) and 253 (Diagnostics data).

SOMNIUM SYSTEM

Brushed Aluminum



00

Direct and indirect emissions are simultaneously controlled.
*1 suspension cable included.

MacAdam 3SDCM
Life L70(17k) 102000h
CRI=90

IP20

Glow wire test
650°

ROUND MODULES

Direct + indirect emission

Size	Weight	W	Flux	CCT	Code
h32 x 282,5 x 282,5 mm R282,5 90°	0,2 kg	5,4W	435 lm direct	3000K	TT43100
			394 lm indirect		
			435 lm direct	4000K	TT44100
			394 lm indirect		
h32 x 223 x 360 mm R416 60°	0,2 kg	5,4W	435 lm direct	3000K	TT45000
			394 lm indirect		
			435 lm direct	4000K	TT46000
			394 lm indirect		
h32 x 182 x 388 mm* R416 120°	0,4 kg	10,5W	871 lm direct	3000K	TT47000
			788 lm indirect		
			871 lm direct	4000K	TT48000
			788 lm indirect		
h32 x 158 x 378 mm R550 45°	0,2 kg	5,4W	435 lm direct	3000K	TT41000
			394 lm indirect		
			435 lm direct	4000K	TT42000
			394 lm indirect		
h32 x 550 x 550 mm* R550 90°	0,4 kg	10,5W	871 lm direct	3000K	TT43000
			788 lm indirect		
			871 lm direct	4000K	TT44000
			788 lm indirect		

Accessories



End caps kit
Includes: 2 end caps with suspension/ceiling mounting cables

Code
TT50300



Recessed canopy for remote driver fed output constant voltage max 175W SELV 48 VDC 111x111x53h

Code
TT50605



Mechanical joint kit
Includes: 1 mechanical joint with suspension/ceiling mounting cable
For module connection

TT50400

Power supply



200W Ceiling power supply kit
Output max 175W
(cable length: 2 m)
220-240VAC-48VDC
IP20
400x110x52h

DALI2/PUSH

Code
TT50200

APP & PUSH

Code
TT50200APP

0-10

Code
TT50100



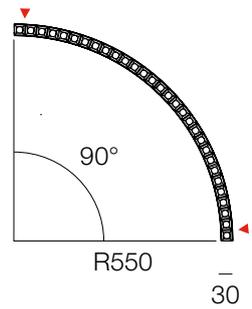
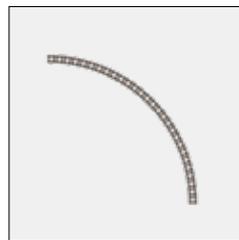
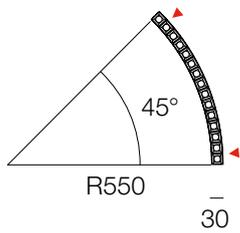
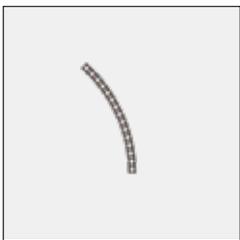
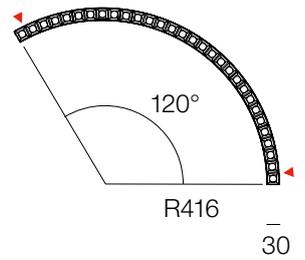
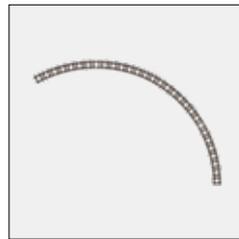
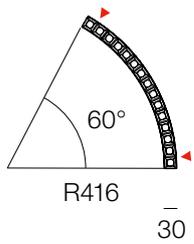
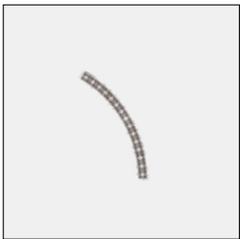
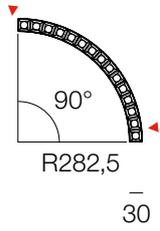
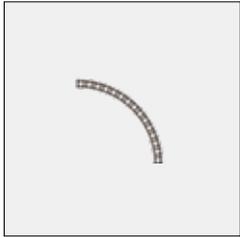
200W Trimless recessed power supply kit
Output max 175W
(cable length: 2 m)
220-240VAC-48VDC
IP20
396x195x112h

TT51200

TT51200APP

TT51100

W	Output max	Driver type	Circuit Breaker	Cable length	Supply voltage	Output voltage	Class	Code	L _{mm}	W _{mm}	H _{mm}
200W	175W	DALI2/PUSH ¹	B16A: 3 C16A: 5 C20A: 6	2 m	220-240V	48Vdc PWM High frequency		TT50200	400	110	52
								TT51200	396	195	112
200W	175W	APP & PUSH	B16A: 3 C16A: 5 C20A: 6	2 m	220-240V	48Vdc PWM High frequency		TT50200APP	400	110	52
								TT51200APP	396	195	112
200W	175W	0-10	B16A: 3 C16A: 5 C20A: 6	2 m	120-240V	48Vdc PWM High frequency		TT50100	400	110	52
								TT51100	396	195	112



Lateral view of a curved module:



The red arrows on the modules indicate the power supply connection points.
The connection points are located in the upper part of each module.





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