

# Somnium

Carlotta de Bevilacqua

**Artemide**<sup>®</sup>

# 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.

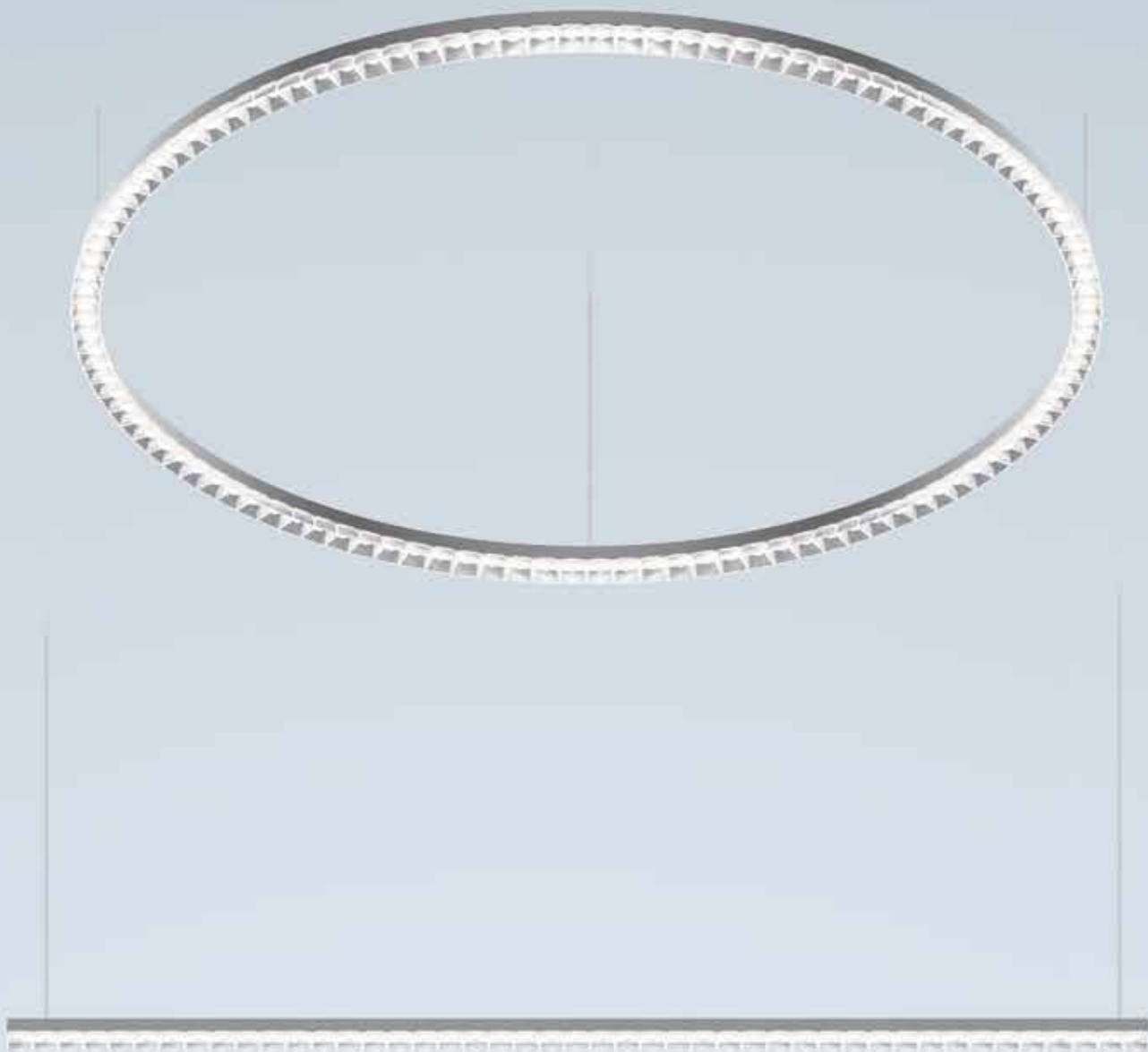
The optical element, crafted from a singular material, embodies sustainable industrial intelligence in its design. It reduces material diversity, minimises weight, and simplifies production steps.

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

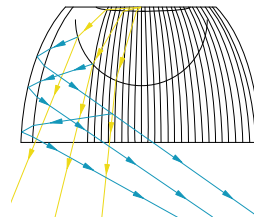


For further information on Somnium  
visit [artemide.com](http://artemide.com)

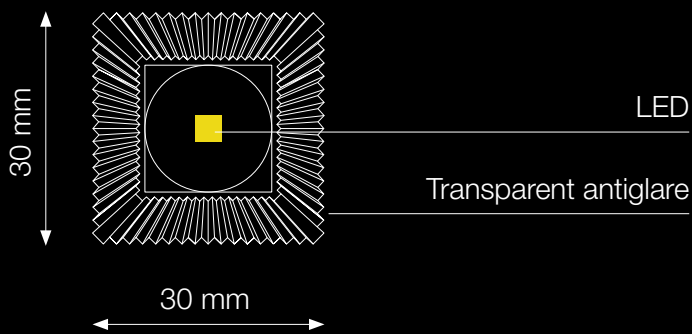
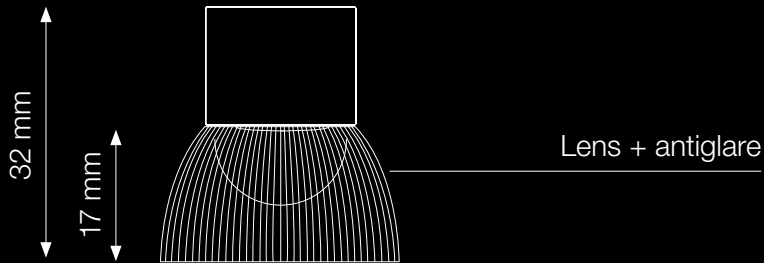
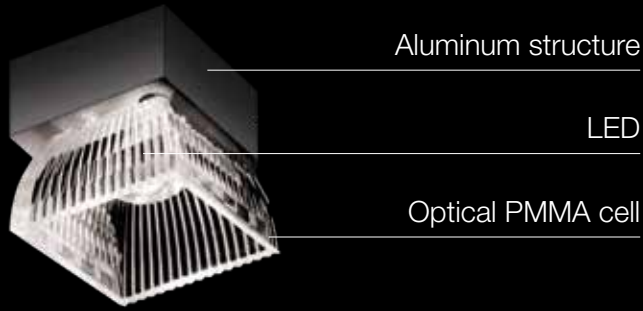
# Transparency challenge

Optical control elements

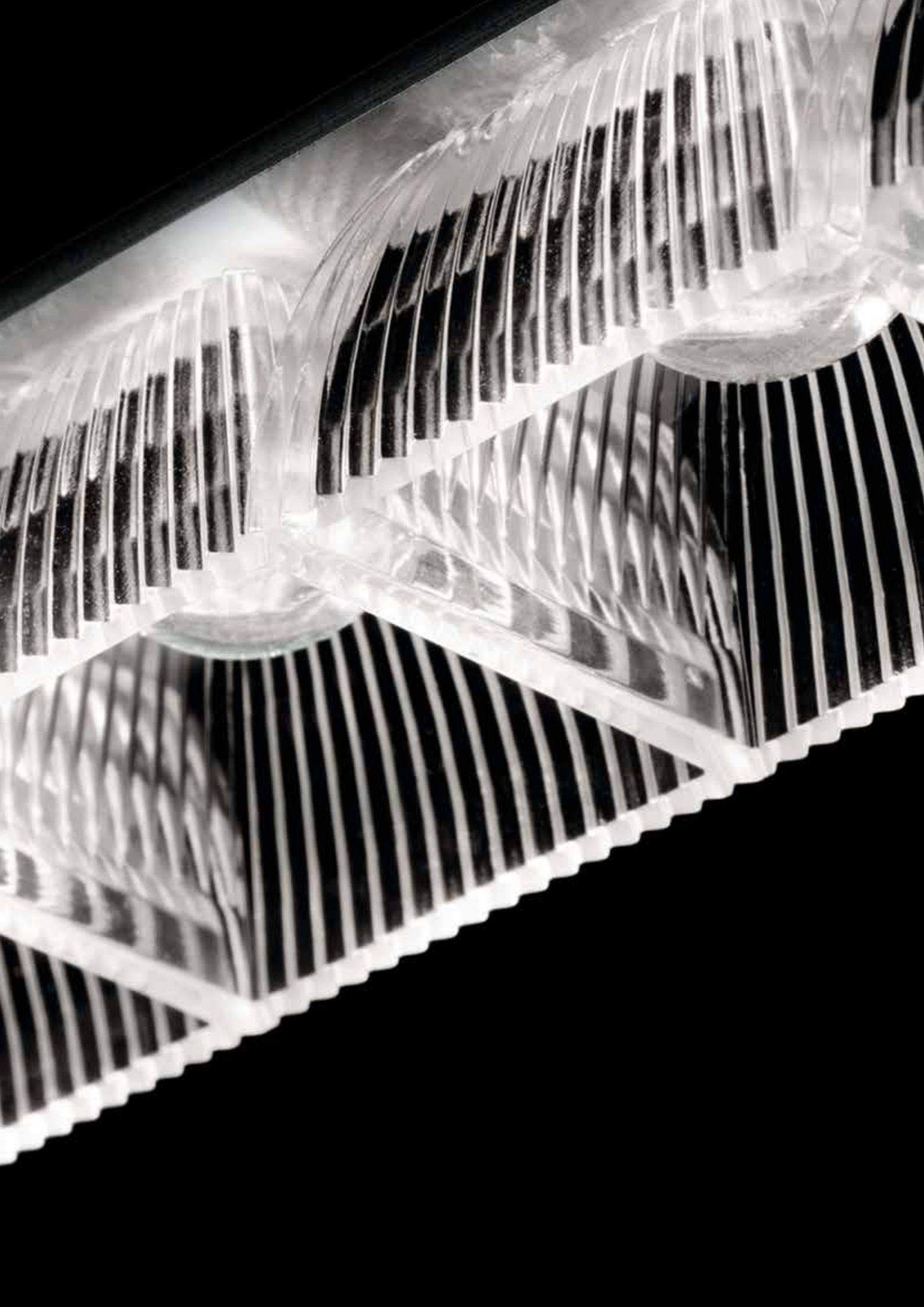
Refractive lens and TIR  
(total internal reflection) antiglare  
Collects almost 100% of the LED  
luminous flux and reflects secondary  
rays maximizing the flux output.



Materic convergence  
between lens and antiglare  
Optical PMMA

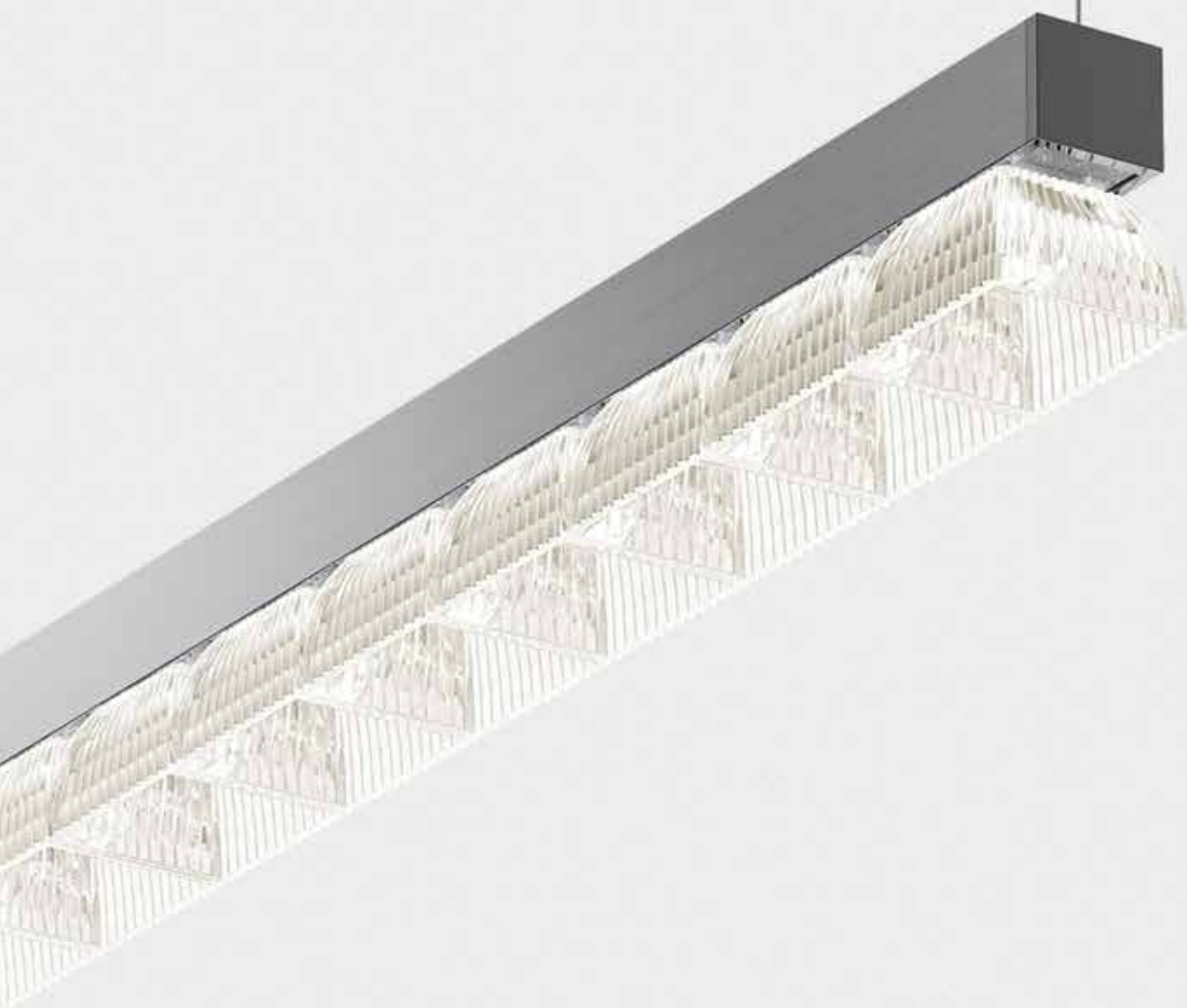






# Responsible energetic project

Extreme efficacy



## **DIRECT EMISSION**

Controlled distribution

Beam 2X35°

**UGR<16**

**HIGH EFFICIENCY**

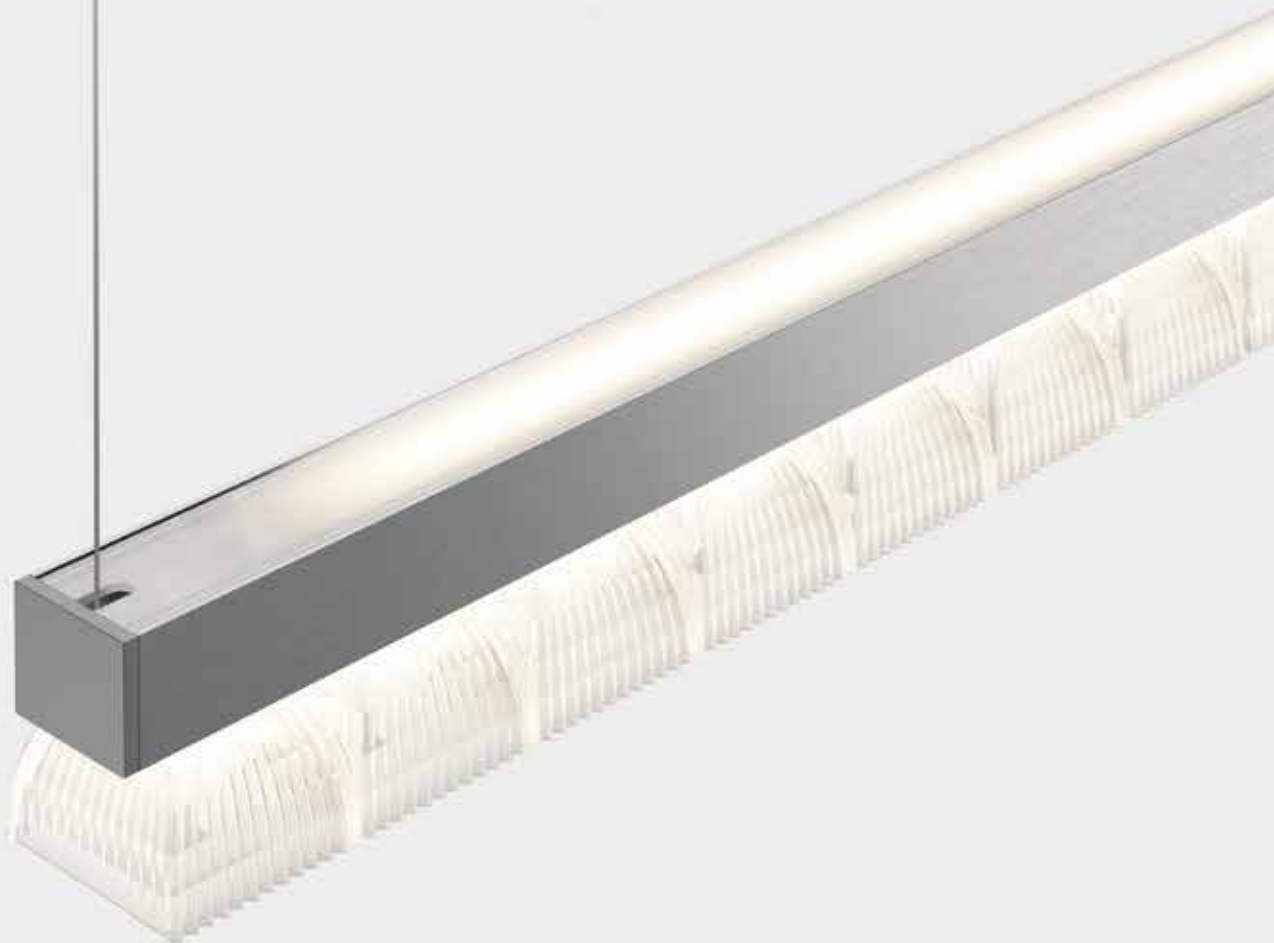
up to 93%

**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 also represents a perceptual balance between optical structure and background. Luminance contrast, defined as the relation of object to background luminances, is an important parameter in light design. Somnium respects luminous contrast values up to 100, which are normally considered comfortable, 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<sup>2</sup> (not directly illuminated object) and 1500 cd/m<sup>2</sup> (directly illuminated ceiling from indirect light source).

\*EN 12464 requires < 3000 cd/m<sup>2</sup>

WELL requires < 6000 cd/m<sup>2</sup>

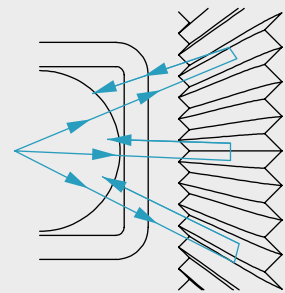
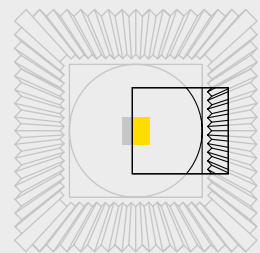


**TIR (total internal reflection) optical structure ensures a comfortable perception of the product in the surrounding.**

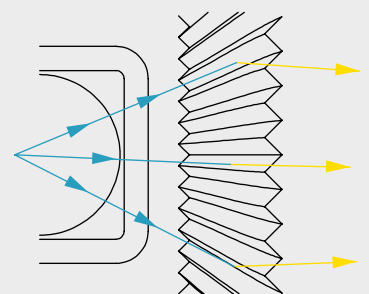
The very small percentage (<1%) of light that, due to both the physical phenomenon of refraction and to the natural impurity of the lens, is diffused by the external optical structure illuminates the optic.

Allowing us to perceive Somnium as a vivid presence contributing to the direct light emission.

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



Internal reflection in the antiglare structure.



Surface luminance of the external optical structure.



# Spatial dialogue

Replicable coincidence among  
optics, mechanics and electronics

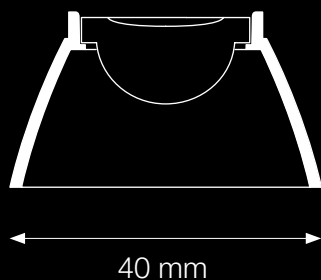


# Miniaturized dimensions

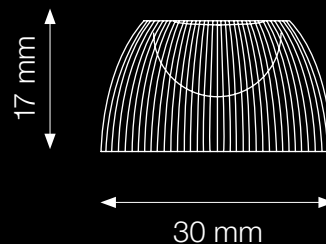
Reduced materials diversity

A perfect synthesis

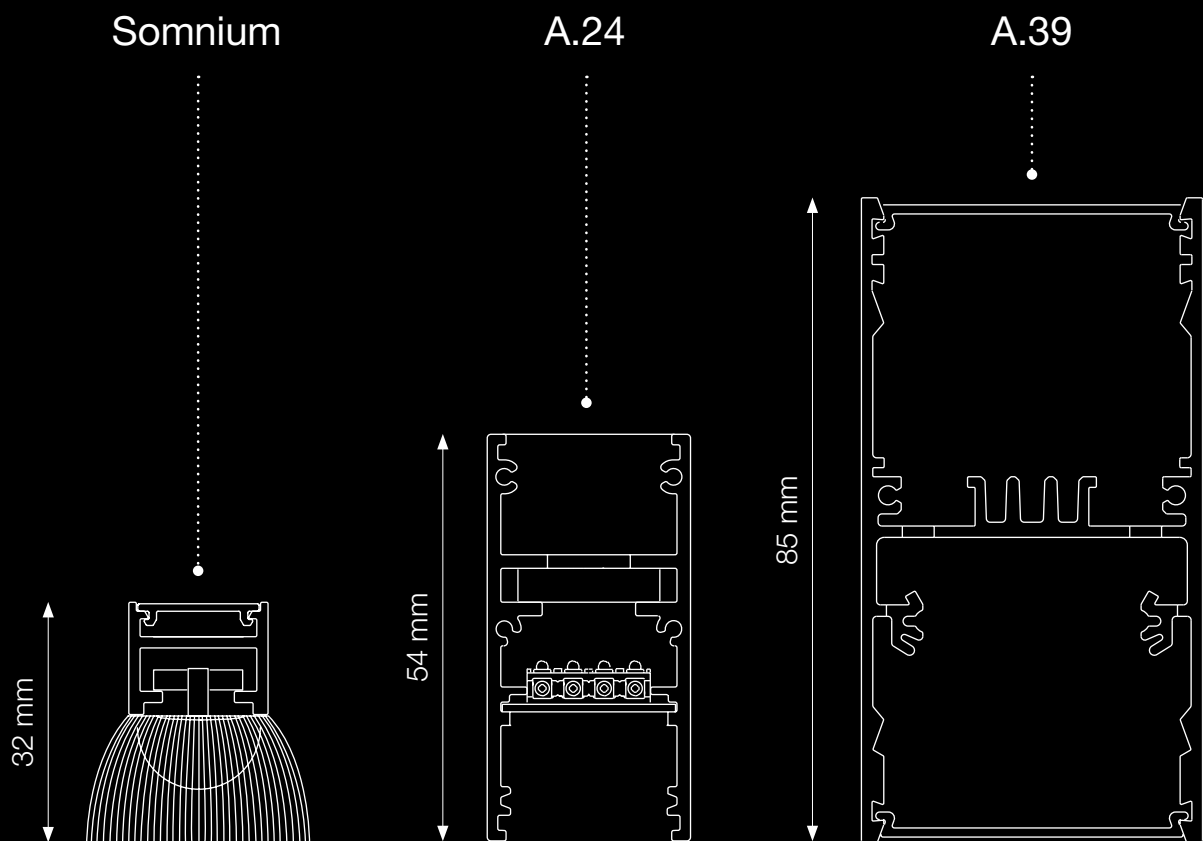
Antiglare and lens, usually made of contrasting materials, come together into a single, miniaturized transparent component.



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

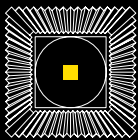
Modular growth and balance

Max length 15 m on a single feed  
one power supply kit 200W

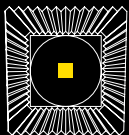
DALI2/PUSH

APP & PUSH

0-10

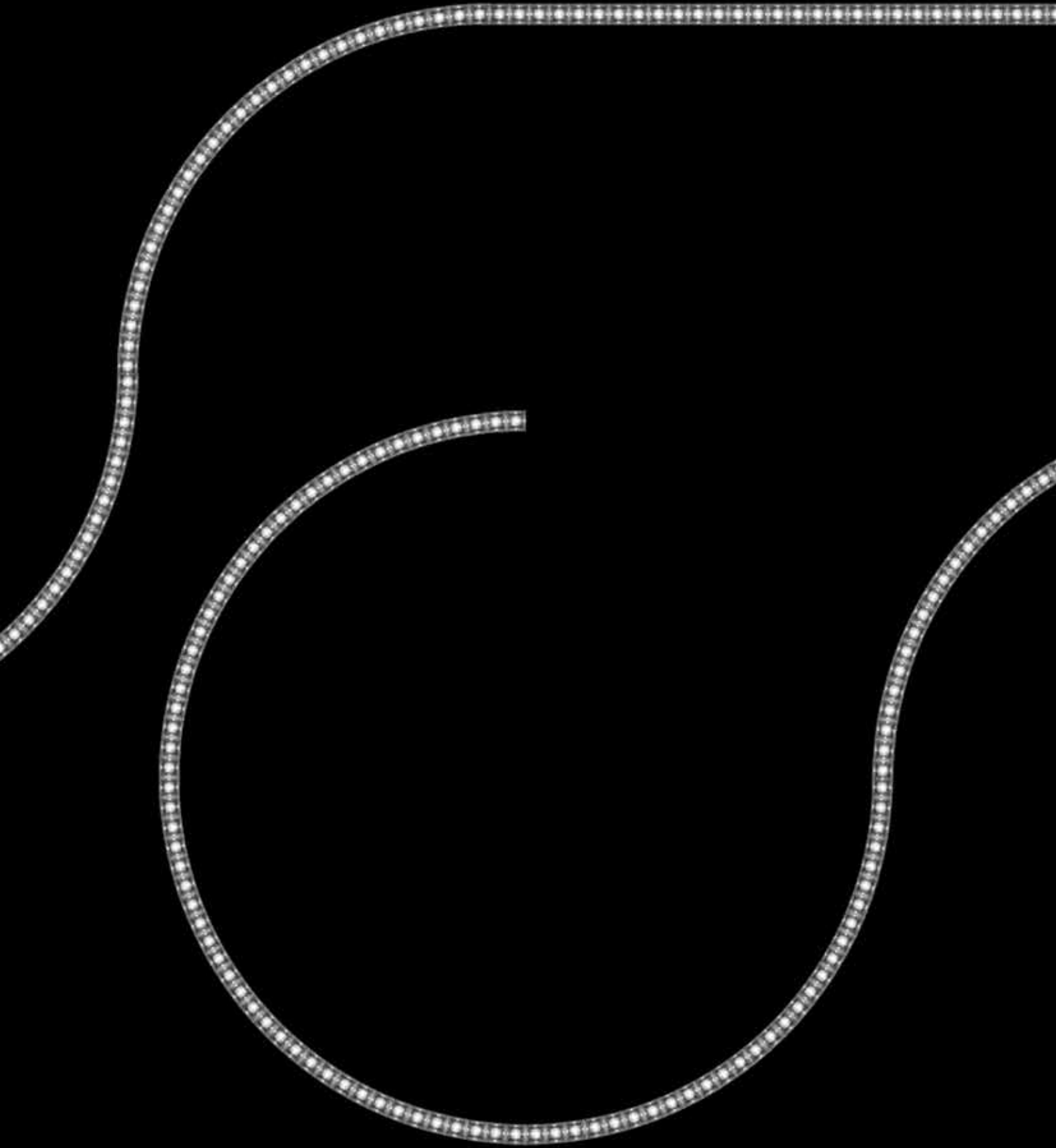


Linear growth  
Square cells



Radial growth  
Trapezoidal cells










# Sustainable synthesis

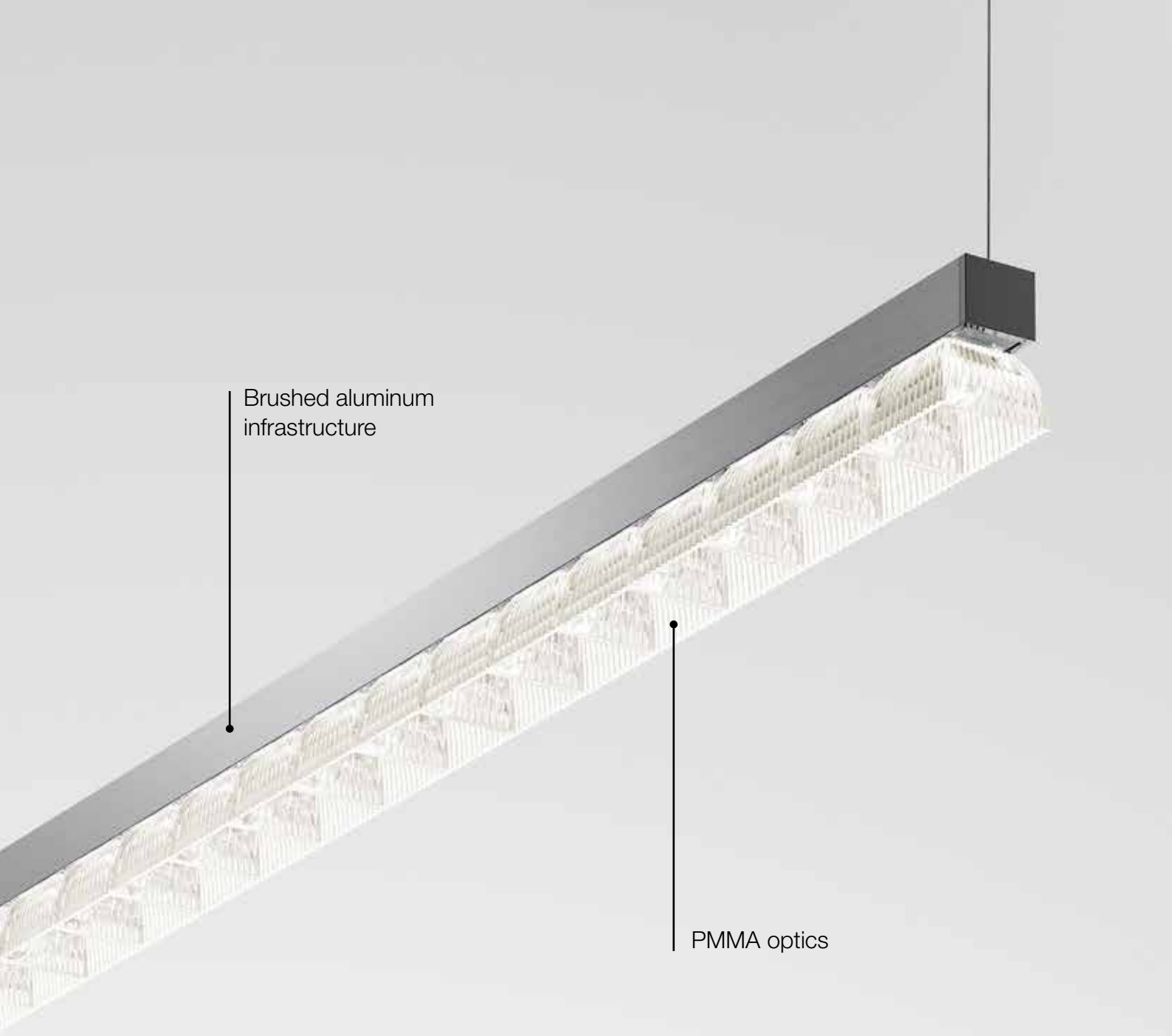
Industrial intelligence

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

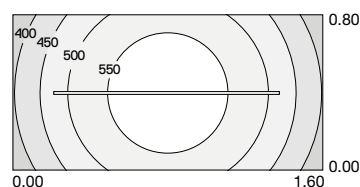
1 linear 1260

Total Power: 20W

Direct + indirect

3000K

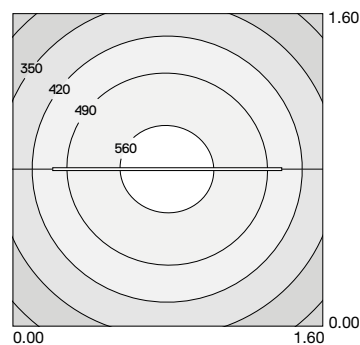
#### n.1 desk



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



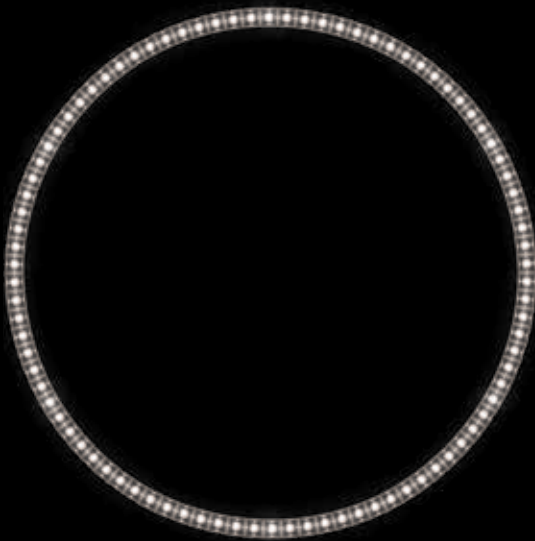
Linear 1680



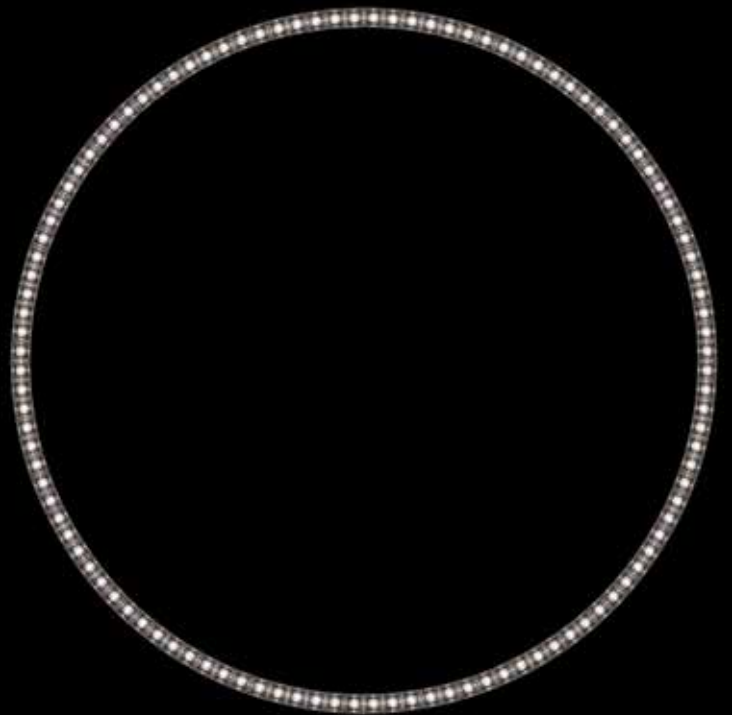
Linear 2100



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°

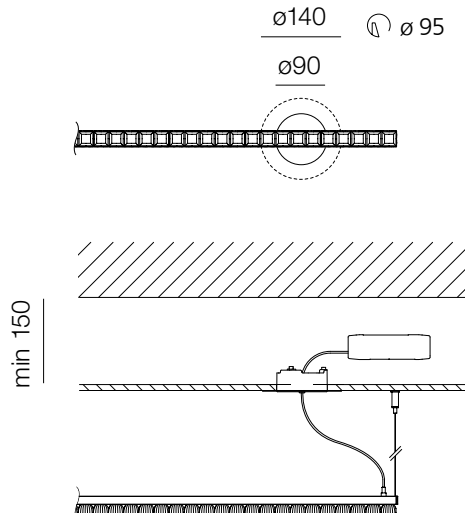
## STAND ALONE LINEAR

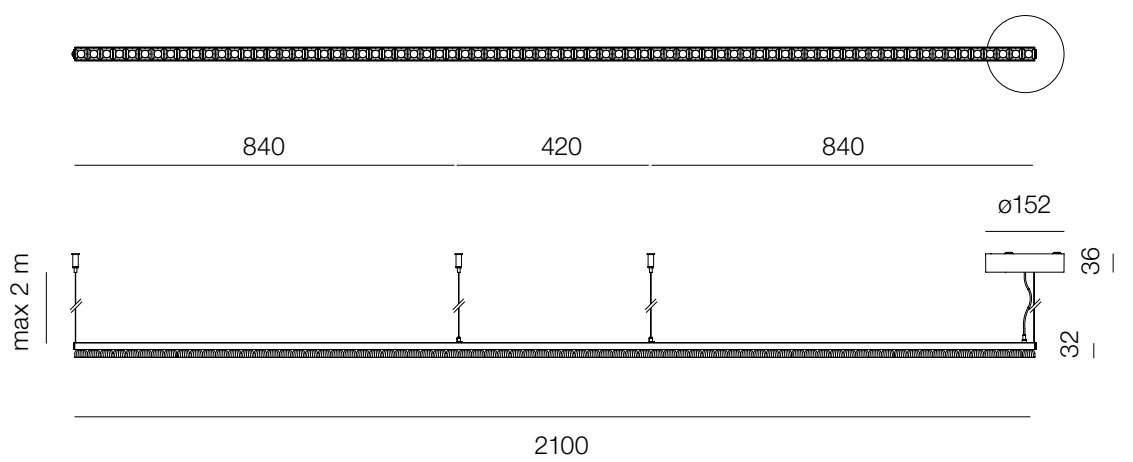
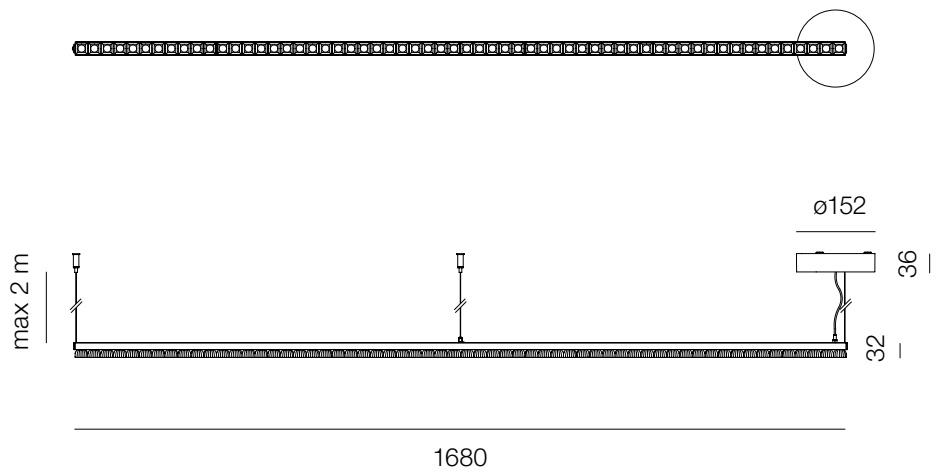
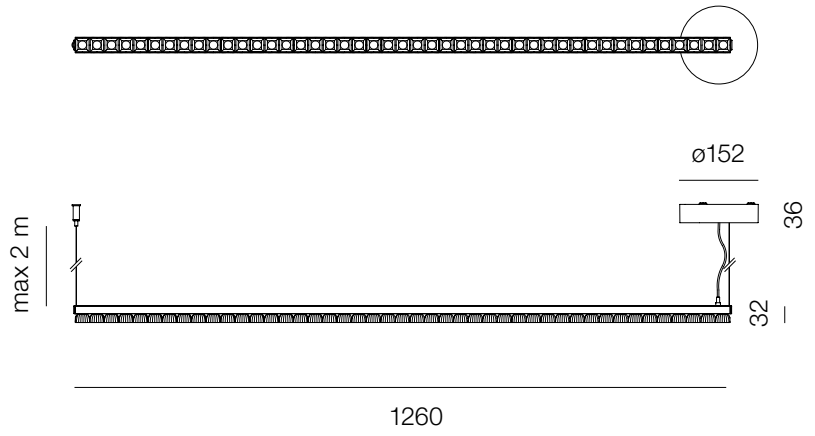
Direct + indirect emission with ceiling power supply						DALI/PUSH	APP & PUSH	0-10'
Size	Weight	W	Supply voltage	Flux	CCT	Code	Code	Code
h32 x 1260 mm	0,6 kg	20W	220-240V	1726 lm direct	3000K	<b>TT61000</b>	<b>TT61000APP</b>	<b>TT61000CO</b>
				1561 lm indirect				
				1726 lm direct	4000K			
h32 x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

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	<b>TT61100</b>	<b>TT61100APP</b>	<b>TT61100CO</b>
				1561 lm indirect				
				1726 lm direct	4000K			
h32 x 1680 mm	0,8 kg	27W	220-240V	2301 lm direct	3000K	<b>TT71100</b>	<b>TT71100APP</b>	<b>TT71100CO</b>
				2082 lm indirect				
				2301 lm direct	4000K			
h32 x 2100 mm	1,0 kg	34W	220-240V	2877 lm direct	3000K	<b>TT81100</b>	<b>TT81100APP</b>	<b>TT81100CO</b>
				2602 lm indirect				
				2877 lm direct	4000K			
				2602 lm indirect		<b>TT82100</b>	<b>TT82100APP</b>	<b>TT82100CO</b>



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



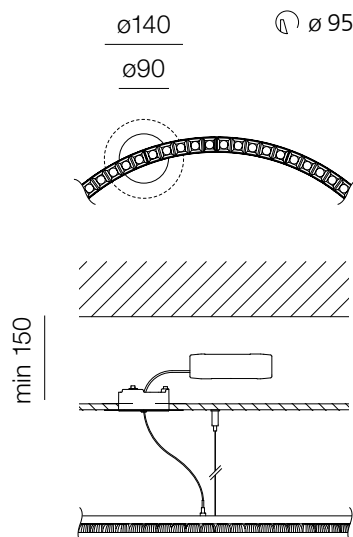
Glow wire test  
650°

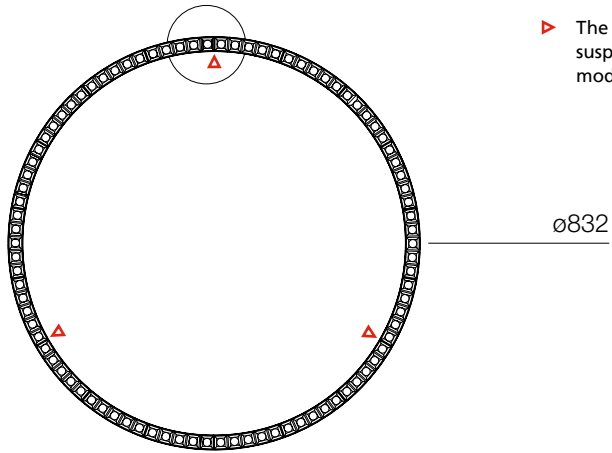
## STAND ALONE CIRCULAR

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	<b>TT93000</b>	<b>TT93000APP</b>	<b>TT93000CO</b>
				2114 lm indirect				
				2338 lm direct	4000K	<b>TT94000</b>	<b>TT94000APP</b>	<b>TT94000CO</b>
				2114 lm indirect				
h32 x ø1100 mm	1,6 kg	36W	220-240V	3117 lm direct	3000K	<b>TT91000</b>	<b>TT91000APP</b>	<b>TT91000CO</b>
				2819 lm indirect				
				3117 lm direct	4000K	<b>TT92000</b>	<b>TT92000APP</b>	<b>TT92000CO</b>
				2819 lm indirect				

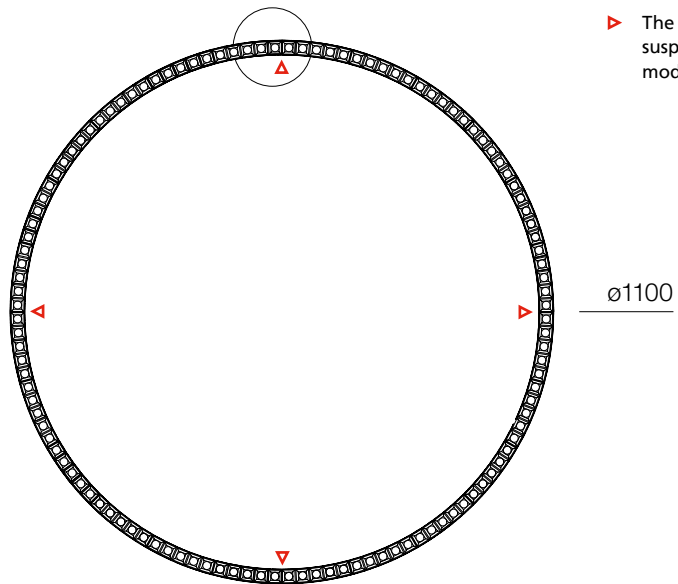
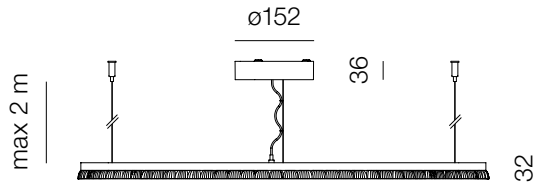
Direct and indirect emission with trimless recessed power supply						DALI/PUSH	APP & PUSH	0-10
Size	Weight	W	Driver supply voltage	Flux	CCT	Code	Code	Code
h32 x ø832 mm	1,2 kg	27W	220-240V	2338 lm direct	3000K	<b>TT93100</b>	<b>TT93100APP</b>	<b>TT93100APP</b>
				2114 lm indirect				
				2338 lm direct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

Trimless recessed power supply  
Detail with circular Ø832

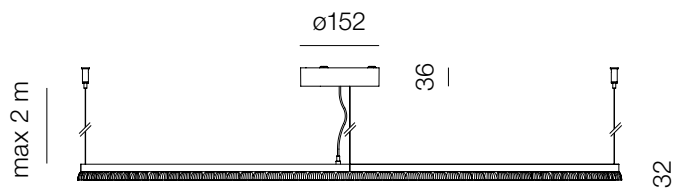




▶ The hollow red arrows indicate the suspension cable positions on the module.



▶ The hollow red arrows indicate the suspension cable positions on the module.



# 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

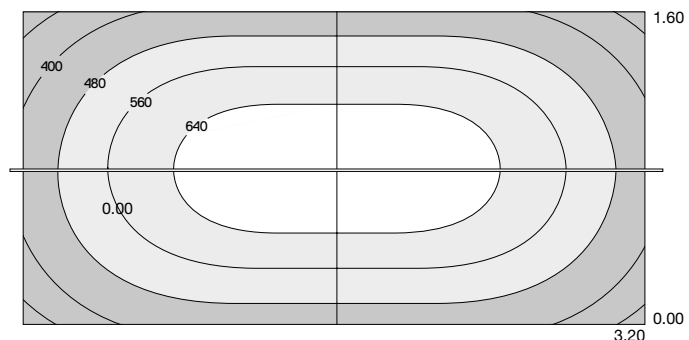
Linear modules: 2x1260 + 2x420 - tot. 3360 mm

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 R550 45°  
158 x 378 x h 32 mm  
Total Power: 5,4W  
Flux: 829 lm

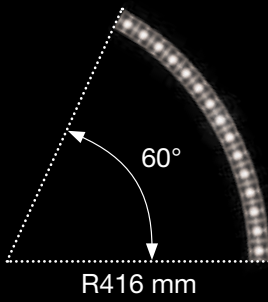
Round module R416 120°  
182 x 388 x h 32 mm  
Total Power: 10,5W  
Flux: 1659 lm

Round module R550 90°  
550 x 550 x h 32 mm  
Total Power: 10,5W  
Flux: 1659 lm

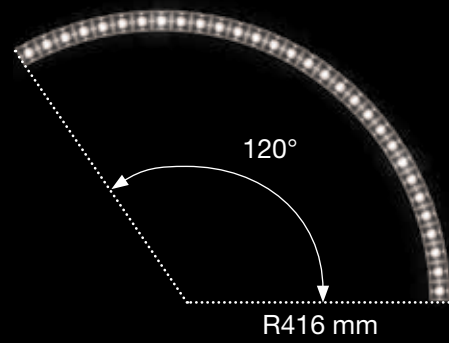
Round module 90°



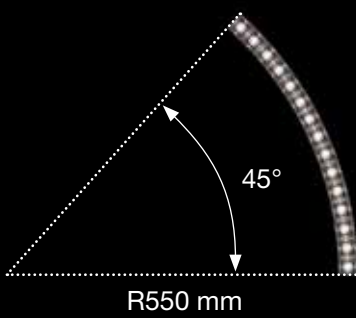
Round module 60°



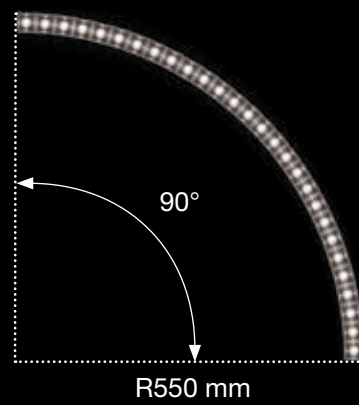
Round module 120°



Round module 45°



Round module 90°

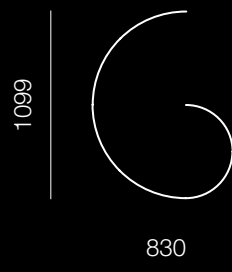
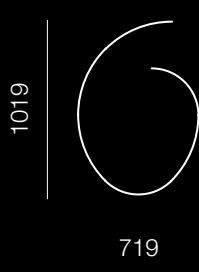


# Systemic configurations

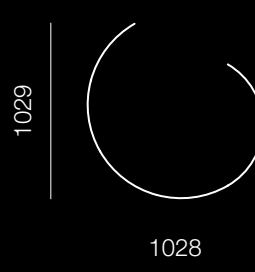
Wide range of layouts

## OPEN CONFIGURATIONS WITH CURVED MODULES 48Vdc CONSTANT VOLTAGE FED

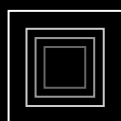
n. 4 Round modules R550 45°  
+ n. 2 Round modules R282,5 90°



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



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



max 2550  
min 450

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



max 2550  
min 870

max 1260  
min 450

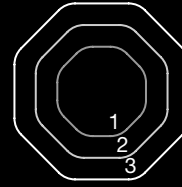
# CLOSED CONFIGURATIONS

48Vdc CONSTANT VOLTAGE FED

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

The concentric versions are composed by:

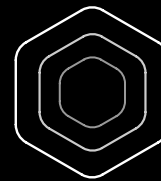
1. Linear module 420
2. Linear module 840
3. Linear module 1260



max 4130  
min 2102

max 4130  
min 2102

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



max 3003  
min 1548

max 3340  
min 1661

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 2932  
min 1252

max 2650  
min 1196

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



943

722

# SOMNIUM SYSTEM

Brushed Aluminum



Direct and indirect emissions are simultaneously controlled.

\*2 suspension cables included.

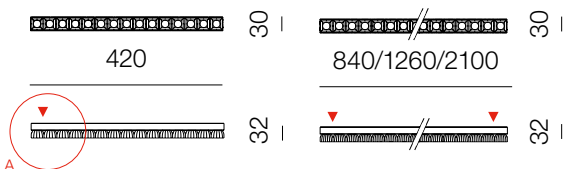
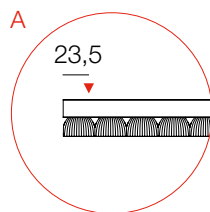
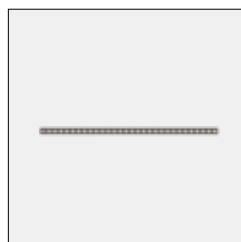
MacAdam 3SDCM  
Life L70(17k) 102000h  
CRI=90

IP20

Glow wire test  
650°

## LINEAR MODULES

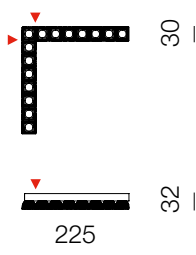
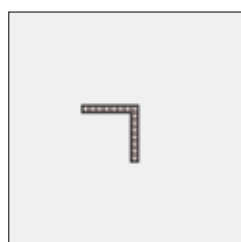
Direct + indirect emission					Code
Size	Weight	W	Flux	CCT	
h32 x 420 mm	0,2 kg	5,4W	435 lm direct 394 lm indirect	3000K	<b>TT01000</b>
			435 lm direct 394 lm indirect	4000K	<b>TT02000</b>
h32 x 840 mm	0,4 kg	10,5W	871 lm direct 788 lm indirect	3000K	<b>TT11000</b>
			871 lm direct 788 lm indirect	4000K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



▶ The solid 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.

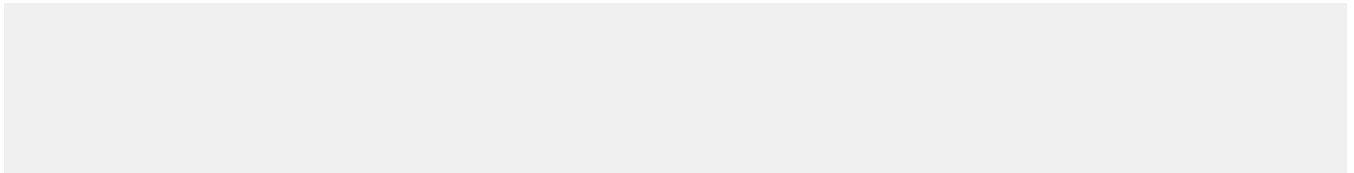
## JOINT

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 394 lm indirect	3000K	<b>TT35000</b>
			435 lm direct 394 lm indirect	4000K	<b>TT36000</b>

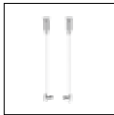


▶ The solid red arrows on the modules indicate the power supply connection points.  
90° angle module features two connection points.

# SOMNIUM SYSTEM

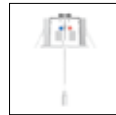


## Accessories



**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**  
Cut out Ø 83mm  
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 <sub>mm</sub>	W <sub>mm</sub>	H <sub>mm</sub>
200W	175W	DALI2/PUSH <sup>1</sup>	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

<sup>1</sup> 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

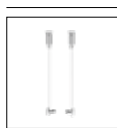
Glow wire test  
650°

## 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	<b>TT43100</b>
			394 lm indirect		
			435 lm direct	4000K	<b>TT44100</b>
			394 lm indirect		
h32 x 223 x 360 mm R416 60°	0,2 kg	5,4W	435 lm direct	3000K	<b>TT45000</b>
			394 lm indirect		
			435 lm direct	4000K	<b>TT46000</b>
			394 lm indirect		
h32 x 182 x 388 mm* R416 120°	0,4 kg	10,5W	871 lm direct	3000K	<b>TT47000</b>
			788 lm indirect		
			871 lm direct	4000K	<b>TT48000</b>
			788 lm indirect		
h32 x 158 x 378 mm R550 45°	0,2 kg	5,4W	435 lm direct	3000K	<b>TT41000</b>
			394 lm indirect		
			435 lm direct	4000K	<b>TT42000</b>
			394 lm indirect		
h32 x 550 x 550 mm* R550 90°	0,4 kg	10,5W	871 lm direct	3000K	<b>TT43000</b>
			788 lm indirect		
			871 lm direct	4000K	<b>TT44000</b>
			788 lm indirect		

### Accessories



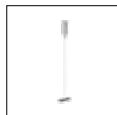
End caps kit  
Includes: 2 end caps with suspension/ceiling mounting cables

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**



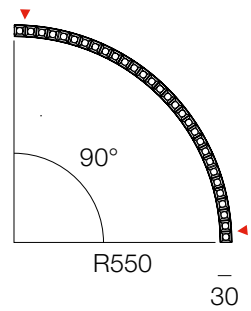
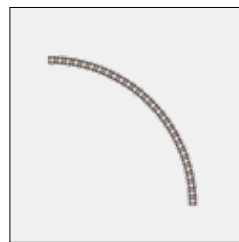
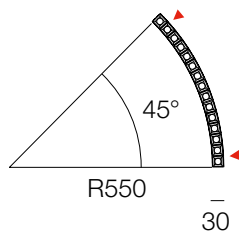
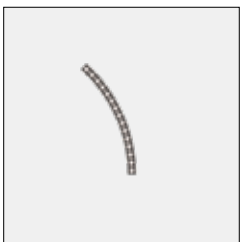
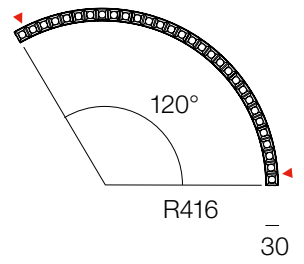
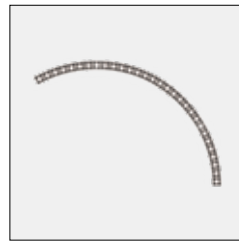
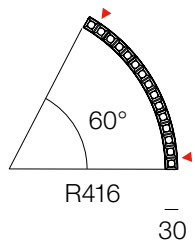
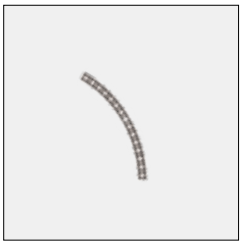
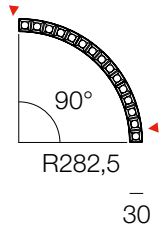
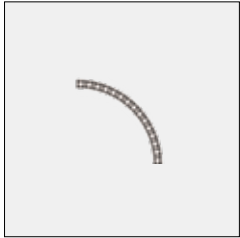
200W Trimless recessed power supply kit  
Output max 175W  
(cable length: 2 m)  
220-240VAC-48VDC  
IP20   
396x195x112h

**TT51200**

**TT51200APP**

**TT51100**

W	Output max	Driver type	Circuit Breaker	Cable length	Supply voltage	Output voltage	Class	Code	L <sub>mm</sub>	W <sub>mm</sub>	H <sub>mm</sub>
200W	175W	DALI2/PUSH <sup>1</sup>	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 solid red arrows on the modules indicate the power supply connection points.





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