

ES-SYSTEM
Light is Life



LUNA
Unleash your imagination



ES-SYSTEM Light is Life

For years, ES-SYSTEM has been satisfying the needs of customers across the globe. We offer lighting solutions for public interiors such as: office buildings, educational, cultural, entertainment, sports, dining, industrial and medical facilities, but also homes and private apartments. Thanks to such a comprehensive product offer, we are able to meet the expectations of customers from various parts of the world.



A RELIABLE PARTNER

- ✧ 26 years on the market
- ✧ Care about products, people and the environment
- ✧ Products of the highest quality delivered to every corner of the world
- ✧ An extensive assortment - 40,000 designs
- ✧ 2 modern production plants
- ✧ Our own measurement laboratory
(awarded the SMT status as one of only two in Poland)
- ✧ Tests and certificates - all products have been certified
for photobiological safety
- ✧ Experience in carrying out non-standard projects and delivering customized
products made to order
- ✧ A dedicated team specializing in lighting design and project management
- ✧ 14 sales branches and representative offices - in Poland and worldwide





Imagine endless arrangement possibilities.

One luminaire. Dozens of applications.
An infinite amount of lighting arrangements to discover.



Imagine lighting that can perfectly adapt
to the style and character of an interior.

The LUNA lighting fixture has found applications in hotels, modern office buildings, concert halls, sports and entertainment venues, and shopping malls. What about you? Where will you use the LUNA?







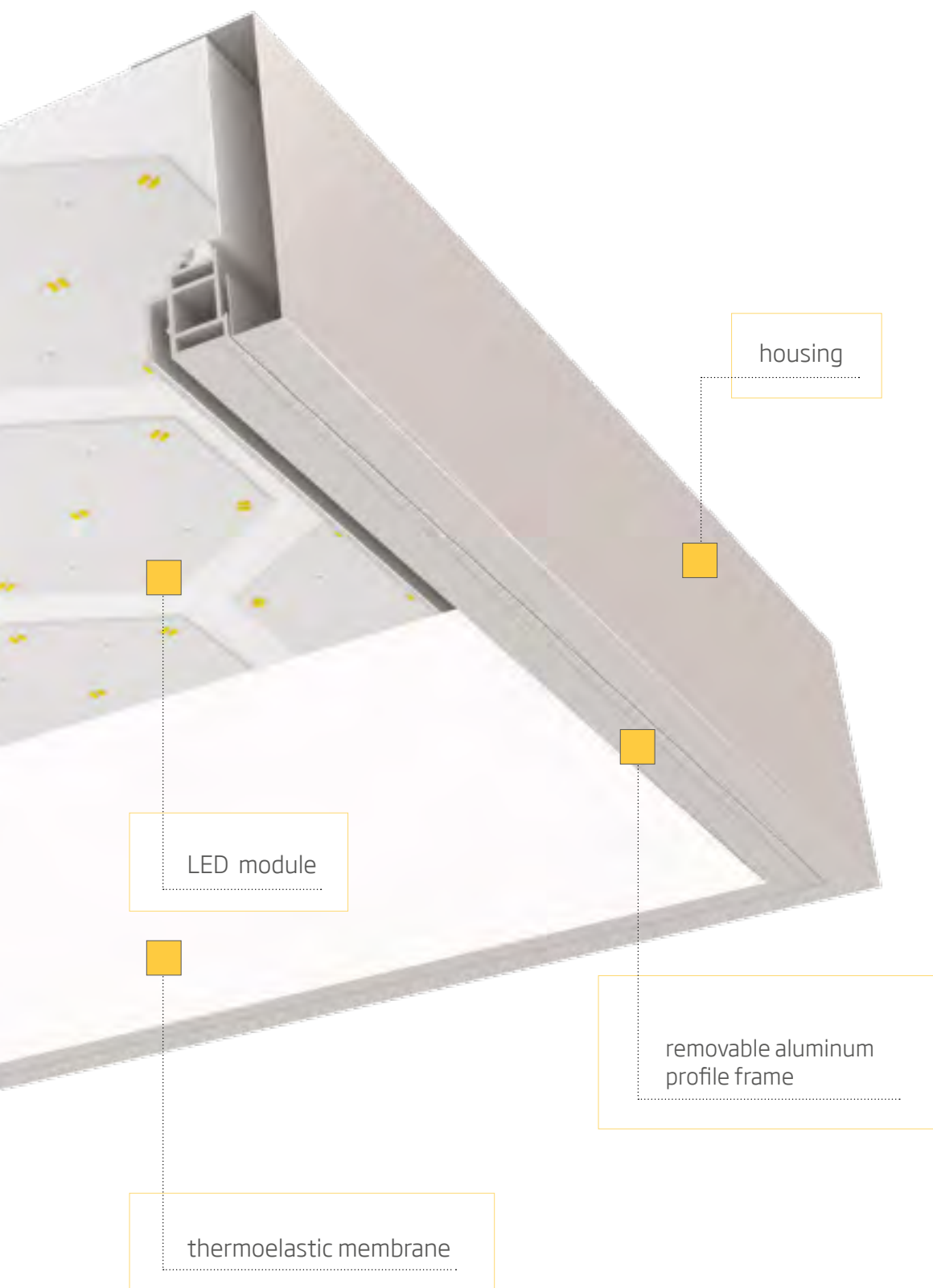
Imagine a luminaire that can take
on any shape and size.

The luminaire's diffuser is made of thermoelastic foil which evenly disperses light.
That's why the LUNA can have any shape you can think of.
The only limit is your imagination.

THERMOELASTIC MEMBRANE

In producing our LUNA luminaires, we used a **thermoelastic membrane** made out of flexible PCV by the Barrisol company. This lets us manufacture our luminaire in any desired shape and size. More than 80 patents ensure its safety of use, and the material's recyclability reduces the negative impact on the environment.





ACOUSTIC MEMBRANE

A special version of the LUNA has been devised to increase acoustic comfort in places where these products are installed. Their **microperforated membrane** and modified structure make it possible to dramatically improve the sound absorption coefficient just by using acoustic LUNAs in architectural design projects.

This solution is recommended for use in spacious interiors such as shopping centers and restaurants in order to easily combine the lighting concept with a great way to reduce noise levels.

acoustic fiber

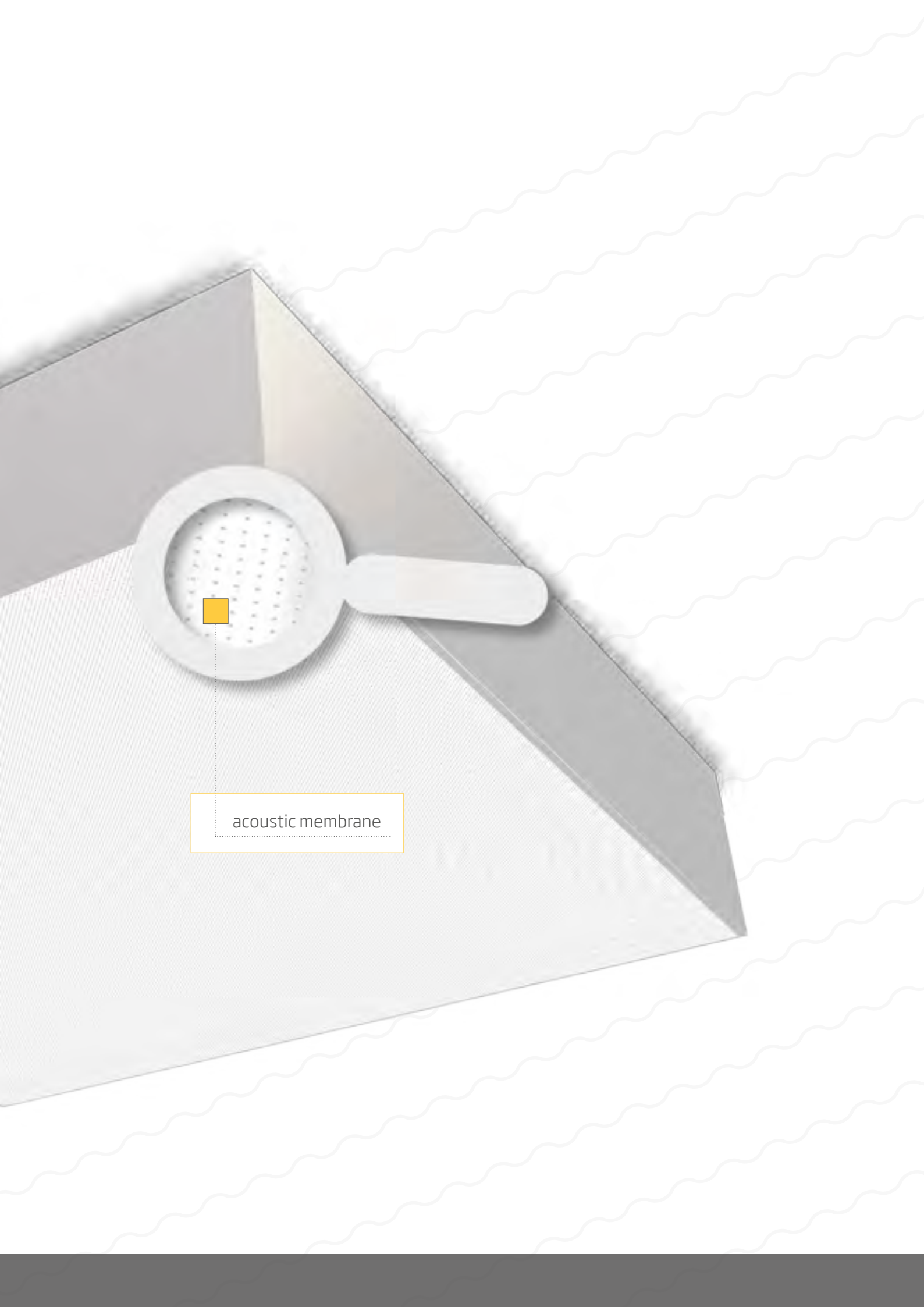


standard membrane



perforated membrane





acoustic membrane



BENEFITS

- ✧ Unlimited arrangement possibilities in terms of the luminaire's shape and size
- ✧ Suitable for use in any interior
- ✧ A moisture-resistant and fully recyclable membrane
- ✧ A non-toxic and non-flammable material that is also deformation-resistant



TECHNICAL DATA

- ❖ Luminous flux: 1250-16 000 lm
- ❖ Power: 16-206 W
- ❖ Maximum luminous efficacy: 78-88 lm/W
- ❖ Color temperature: 3000K, 4000K
- ❖ CRI: > 80
- ❖ Ingress protection rating: IP20
- ❖ Power supply voltage: 230V AC
- ❖ RGB versions



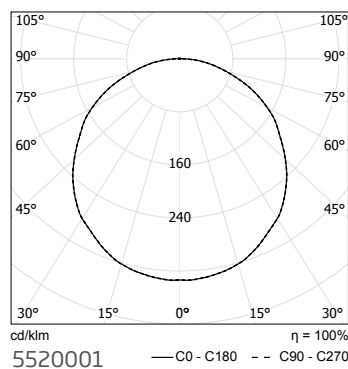
SYSTEM LUNA LED / SYSTEM LUNA LED DYNAWHITE

Ceiling-mounted or pendant luminaire
 BODY: white painted steel sheet
 DIFFUSER: specialist thermoelastic lighting foil
 POWER SUPPLY: integral electronic driver
 OTHER: 3 suspension wires required for pendant mounting, to be ordered separately



LED lifetime

L70B50	L80B50	L90B50
203000h	127000h	59000h



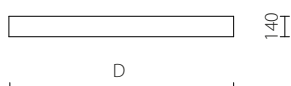
	D [mm]
LUNA LED 600	600
LUNA LED 950	950
LUNA LED 1250	1250
LUNA LED 1500	1500

55200?1	LUNA LED 600	LED 830	1250lm	16W	230V AC	14,00
55210?1	LUNA LED 600	LED 840	1300lm	16W	230V AC	14,00
55220?1	LUNA LED 950	LED 830	3400lm	44W	230V AC	22,00
55230?1	LUNA LED 950	LED 840	3550lm	44W	230V AC	22,00
55240?1	LUNA LED 1250	LED 830	5350lm	70W	230V AC	29,00
55250?1	LUNA LED 1250	LED 840	5600lm	70W	230V AC	29,00
55260?1	LUNA LED 1500	LED 830	7800lm	103W	230V AC	35,00
55270?1	LUNA LED 1500	LED 840	8200lm	103W	230V AC	35,00

version with increased luminous flux

53740?1	LUNA LED 950	LED 840	7000lm	88W	230V AC	23,00
53750?1	LUNA LED 1500	LED 840	16000lm	206W	230V AC	36,00
5364061	LUNA DYNAWHITE 950	LED 827-865	3500lm	48W	230V AC	23,00
5365061	LUNA DYNAWHITE 1500	LED 827-865	8000lm	103W	230V AC	36,00

.....? 0 - ON/OFF • 6 - DALI



Accessories
 9113000 suspension wire L=2m



SYSTEM LUNA LED

Ceiling-mounted or pendant luminaire

BODY: white painted steel sheet

DIFFUSER: specialist thermoelastic lighting foil

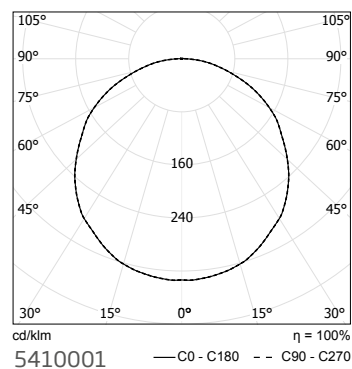
POWER SUPPLY: integral electronic driver

OTHER: 4 suspension wires required for pendant mounting, to be ordered separately



LED lifetime

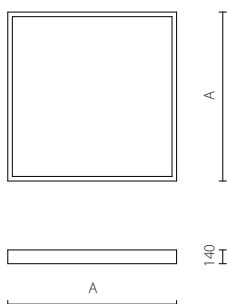
L70B50	L80B50	L90B50
203000h	127000h	59000h



	A [mm]
LUNA LED 600	600
LUNA LED 950	950
LUNA LED 1250	1250
LUNA LED 1500	1500

54100?1	LUNA LED 600	LED 830	1600lm	19W	230V AC	14,00
54110?1	LUNA LED 600	LED 840	1650lm	19W	230V AC	14,00
54120?1	LUNA LED 950	LED 830	4500lm	54W	230V AC	22,00
54130?1	LUNA LED 950	LED 840	4700lm	54W	230V AC	22,00
54140?1	LUNA LED 1250	LED 830	7600lm	91W	230V AC	29,00
54150?1	LUNA LED 1250	LED 840	7950lm	91W	230V AC	29,00
54160?1	LUNA LED 1500	LED 830	10150lm	121W	230V AC	35,00
54170?1	LUNA LED 1500	LED 840	10600lm	121W	230V AC	35,00

.....? 0 - ON/OFF • 6 - DALI

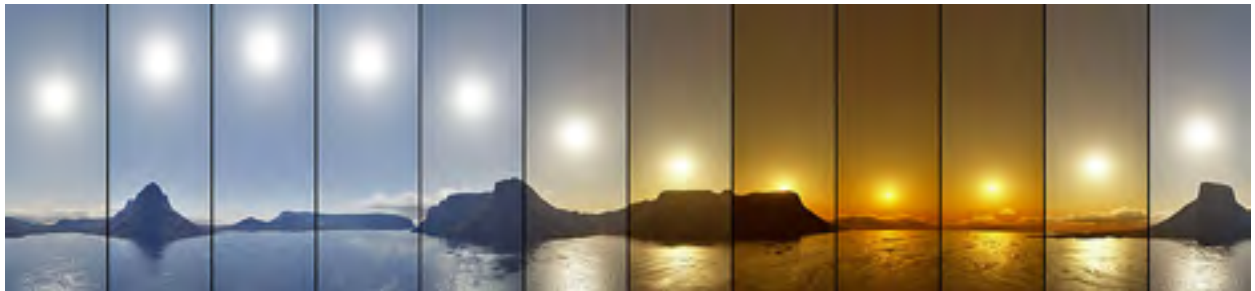


Accessories

9113000 suspension wire L=2m

LUNA - HUMAN CENTRIC LIGHTING

Human Centric Lighting is a concept for artificial interior lighting which takes the human circadian rhythm into account. The goal is to use advanced technology in order to generate light with a spectrum which mimics the spectrum of sunlight, as it varies throughout the day.



in the morning



at noon



in the evening

4000K + **blue** LEDs
with a maximum energy
470 nm = 5000K

4000K

4000K + **red** LEDs
with a maximum energy
630 nm = 3000K



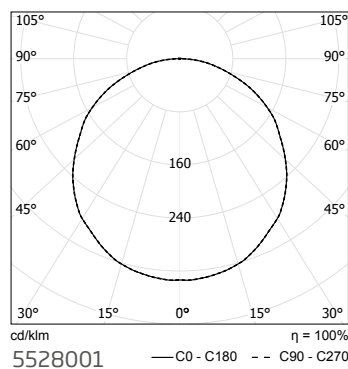
SYSTEM LUNA BIS LED / SYSTEM LUNA BIS DYNABWHITE

Ceiling recessed luminaire
 BODY: painted steel sheet
 DIFFUSER: specialist
 thermoelastic lighting foil
 POWER SUPPLY: integral
 electronic driver
 OTHER: color temperature system;
 3 suspension wires required for
 mounting, to be ordered sepa-
 rately



LED lifetime

L70B50	L80B50	L90B50
203000h	127000h	59000h



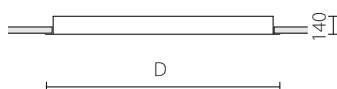
				P	Un	
55280?1	LUNA BIS LED 630	LED 830	1250lm	16W	230V AC	16,00
55290?1	LUNA BIS LED 630	LED 840	1300lm	16W	230V AC	16,00
55300?1	LUNA BIS LED 980	LED 830	3400lm	44W	230V AC	25,00
55310?1	LUNA BIS LED 980	LED 840	3550lm	44W	230V AC	25,00
53760?1	LUNA BIS LED 980	LED 840	7000lm	88W	230V AC	26,00
55320?1	LUNA BIS LED 1280	LED 830	5350lm	70W	230V AC	33,00
55330?1	LUNA BIS LED 1280	LED 840	5600lm	70W	230V AC	33,00
55340?1	LUNA BIS LED 1530	LED 830	7800lm	103W	230V AC	40,00
55350?1	LUNA BIS LED 1530	LED 840	8200lm	103W	230V AC	40,00
53770?1	LUNA BIS LED 1530	LED 840	16000lm	206W	230V AC	41,00

.....? 0 - ON/OFF • 6 - DALI

version with variable color temperature

5366061	LUNA DYNABWHITE 980	LED 827-865	3500lm	48W	230V AC	26,00
5367061	LUNA DYNABWHITE 1530	LED 827-865	8000lm	103W	230V AC	41,00

	D [mm]	
LUNA BIS LED 630	Ø 630	Ø 615
LUNA BIS LED 980	Ø 980	Ø 965
LUNA BIS LED 1280	Ø 1280	Ø 1265
LUNA BIS LED 1530	Ø 1530	Ø 1515



Accessories
 9113000 suspension wire L=2m

FAQ

What is the thermoelastic foil used in the LUNA system made of?

It's made of a polymer based on polyvinyl chloride (PVC).

What are the physical characteristics of this foil?

It's a material resistant to: moisture, water, sea water, chlorine, copper salt solutions, sulfuric acid and nitric acid at a concentration of up to 15%, as well as powder detergents at a concentration of up to 10%. It doesn't contain any phthalates or heavy metals (cadmium, mercury, arsenic), it's non-toxic and 100% recyclable.

Is the foil flammable?

The foil used in the LUNA system has a B s2 d0 fire classification, it's a non-inflammatory material which emits a limited amount of gases from combustion and doesn't generate flaming droplets during a fire.

How is the foil installed in the luminaires?

The foil is spanned over a specially prepared supporting structure after being heated up and stretched out. Its edges are equipped with a special flange called a harpoon. While spanning the foil, the harpoon is inserted into a slot in the special aluminum profile and automatically locks in place. Each process of spanning the foil requires heating it up and maintaining the higher temperature in order to increase its elasticity during installation. After installing the foil and removing the heat source, it cools down and starts to shrink and therefore automatically tauten.

Can the tautened foil be removed from the structure it is installed on and be spanned onto it again?

Yes, this is possible. It should be performed by an individual who is properly trained to do so. The procedure requires using suitable tools and providing conditions for heating up the foil during disassembly.

What is the foil's luminous transmittance?

The foil used in the LUNA system luminaires has a luminous transmittance factor of 46%.

Are there any restrictions as to the size of the foil?

The foil is made to measure. There are no restrictions to its length, but the maximum width is 214 cm (after spanning). However, the width can be increased by joining two or more sheets together. This is performed by the foil's manufacturer according to prior arrangements. After the sheets are joined, a so-called seam forms due to heat sealing the edges of the bonded membranes. This seam is visible on the foil's surface.

Can the foil be cleaned?

Yes, the foil's surface can be cleaned with a soft cloth and using non-aggressive cleaning agents, such as dishwashing liquid or window cleaner.

Can print be applied to the foil?

Yes, it's possible to print any image on the foil. The print can cover the foil's entire surface. Printing is performed with digital printers, ensuring high image quality.



