

Saluz®

Technology inspired by the sun







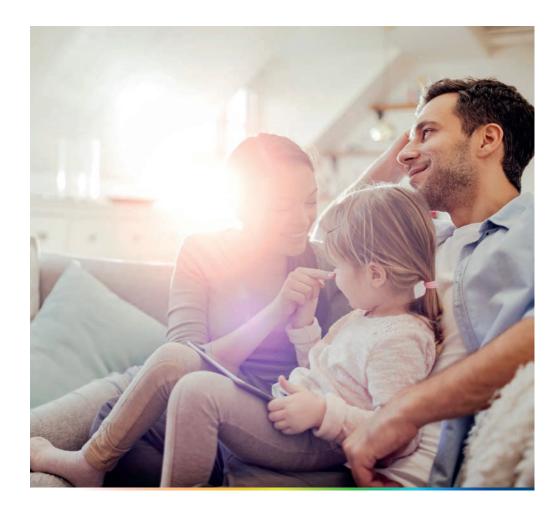
Saluz[®] is the technology from Normalit that creates healthy, comfortable and efficient environments.

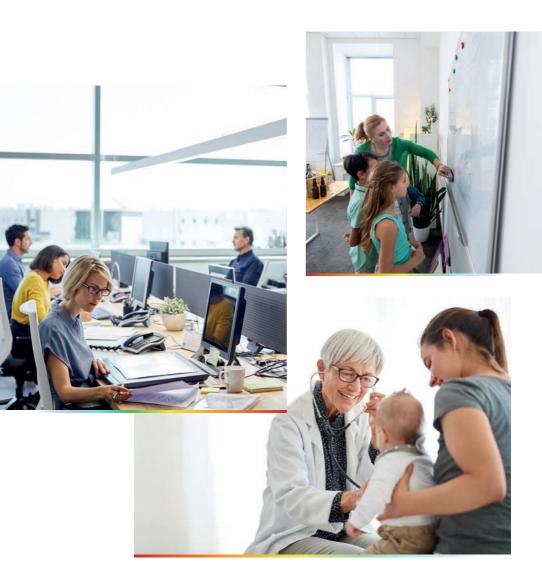


Why some lighting makes us feel good while others create stress?

Light does have an impact on our vital rythms, as well as on our physiological processes, our mood, our capacity to focus, our emotions and of course, our health.

And, even though artificial lighting is quite useful, our biology is still programmed to adapt to natural lighting, to its cycles and its features





SaLuz® technology is inspired by natural light.

Thanks to its features, luminaires with SaLuz® technology offer important advantages:

- · They adapt to our vital natural rythms.
- They prevent damages to eyes and skin.
- · They prevent headaches, nausea and dizziness.

How does the SaLuz® technology work?

SaLuz[®] is a technology that stresses some aspects of the light.





Adapts to the circadian rythm.

SaLuz® modifies the temperature colour of light through the day, to match our natural biological rythms, improving the activation level, the mood and the sleep / awake cycle.



Flickering control (under 8%):

Flickering are small brightness fluctuations in the artificial lighting that can be perceived as blinks. Prolonged exposure to lights with high flickering can cause headaches, even migraines and nausea. SaLuz® guarantees a flickering level under 8%.



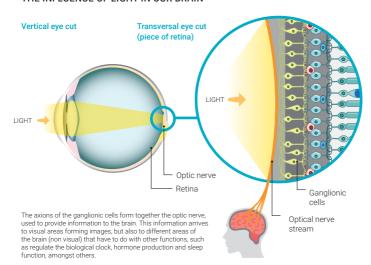




Controls the photobiological safety.

Luminaires equipped with SaLuz® technology are considered to be risk free for the eye and the skin, according to the European Norm about photobiological safety (EN 62471).

THE INFLUENCE OF LIGHT IN OUR BRAIN



Light with a high predominance of blue estimulates the ganglionic cells in charge of producing the following hormones:

- Dopamine: involved in the muscular coordination, attention and pleasure.
- Serotonine: stimulant and motivator, increasing the levels of energy.
- Cortisol: (Stress hormone), stimulates the metabolism and prepares the body for the day.

This type of light rich in blue content also suppresses the production of melatonine, the hormone that causes tiredness, slows down the activity of the body and reduces activity for a better rest.

Do you know what Circadian Rythm is and how does it affect your life?

People are naturally synchronized with the sun.



2700°K 5400°K



In the mornings, the intensity of the light and the proportion of blue light shades help us to be more active. In the evenings, the intensity and the proportion of the blue light shades decreases, which helps us to relax and get ready to rest.



In indoors atmospheres where we usually spend most our our day (offices, schools, etc.), artificial light does not change its tone or its intensity and there is a desynchronization from our vital rythms.

Science has proven that this directly affects our performance, our mood and our sleep.

SaLuz® synchronizes with our natural rhythms and automatically modifies the colour temperature during the day.

2700°K

SaLuz® luminaires reproduce by themselves the luminic cycle of the sun. To do this, we have considered as a reference the sunrise and sunset of Madrid each day of the year, and this has been associated to a light spectrum for each time of the day. This variation of spectra takes place continuously, but is imperceptible with the naked eye. Out of the day cycle, the luminaires emit a spectrum that has been designed to mimize the melatonine inhibition.

Areas of installation

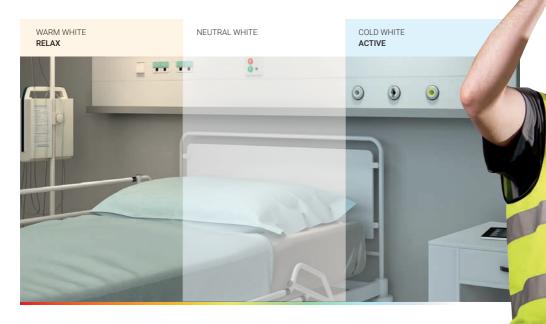
SaLuz® technology has been specially thought for indoor atmospheres where there is a constant artificial light all over the day.

Hospitals

There are patients with a limited movility that have little exposure to natural light and, hence, to the stimulus that help them to synchronize their internal clocks.

SaLuz® technology stabilizes their circadian rythm. It relaxes or activates them as the sunlight would do, according to the time of the day, and also helps them to improve their sleep.

The professionals looking after them will also improve their performance and well-being.



Schools

There are many kids that are subject to a lighting which is not healthy. Even in places where photobiological risks, flickering and UGR have been considered, they are still exposed to an unsuitable and/or constant colour temperature that makes them loose biological rythm.

This affects their attention capacity, alters their coordination, their reaction capacity, etc.



Self-contained and universal luminaires



Luminaires with Sal uz®

Hat HR saluz®



Hat HR is a reviewed version of the recessed popular downlight of Normalit. This has a new design keeping the essence of the standard model and achieves a lower glaring.



Photobiological risk	0
Flickering	< 8%
UGR	21

Versions



Once the luminaire has been connected to mains, it automously modifies the intensity and the tone of the light all over the day.

SaLUZ° Tunable white COMPATIBLE WITH NORMALINK

This version makes it possible to modify circadian cycles from Normalink in remote, and also to adapt them to the specific needs of the project.

Hat HR saluz®













Cut range Ø220-225

Ideal cut Ø215 Round cut

O RAL9016 RAL7001 RAL9005

	W	К	LUMEN	COLOUR	◬
EHI2ZB	1x17W	2700-5600	2600 lm	0	0,8
EHI2ZG	1x17W	2700-5600	2600 lm	0	0,8
EHI2ZN	1x17W	2700-5600	2600 lm	•	0,8
EHI2TWB	1x17W	2700-6500	2600 lm	0	0,8
EHI2TWG	1x17W	2700-6500	2600 lm	0	0,8
EHI2TWN	1x17W	2700-6500	2600 lm	•	0,8



Installation	Ceiling mounted
Cover	⊗
Light source	LED
Photobiological security	0
UGR	21
CRI	> 80
Macadam elipses	3
Light beam	84
V	
Power (W)	17
Colour temperature (°K)	2700 - 6500
Lumen output	2600
Power factor	0,95
Performance (%)	75,1
Life expectancy	72000 h L70B10
Maintained operation 24h	✓
IP	20-54
Category	II
Ideal cut (mm)	ø 215

Microprismatic cover



More information on normalit.com

Nassel Avant saluz®



NASSEL AVANT is a Led panel made with a metal housing and a plastic multi-reflector system that provides a uniform and comfortable lighting in the working area.



Photob	oiological risk	0
Flicker	ing	< 8%
UGR		16

Versions



Once the luminaire has been connected to mains, it automously modifies the intensity and the tone of the light all over the day.

SaLUZ° (Self-contained + •

+ LIGHT SENSOR

Same features as the self-contained version but additionally including a sensor which makes it possible to regulate the amount of light.

SaLUZ° (Tunable white

COMPATIBLE WITH NORMALINK

This version makes it possible to modify circadian cycles from Normalink in remote, and also to adapt them to the specific needs of the project.

Nassel Avant saluz®



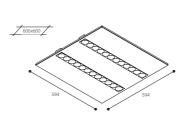




Expectancy 72000 h. 68,75 L70B10

. 77°





O RAL9016

	W	К	LUMEN	COLOUR	◬	PACKAGING
NX3ZB	1x25,9W	2700-5600	3345 lm	0	2,9	5
NX3ZSB	1x25,9W	2700-5600	3345 lm	0	2,9	5
NX3TWB	1x25,9W	2700-6500	3345 lm	0	2,9	5



Installation	Ceiling mounted
Cover	0
Light source	LED
Photobiological security	0
UGR	16
CRI	> 80
Macadam elipses	3
Light beam	77
Power (W)	25,9
Colour temperature (°K)	2700 - 6500
Lumen output	3345
Power factor	0,96
Performance (%)	68,75
Life expectancy	72000 h L70B10
Maintained operation 24h	✓
IP	20-44
Category	II
Ideal cut (mm)	600x600 modular ceiling

Opal cover



More information on normalit.com



Trazzo Avant saluz®

TRAZZO AVANT is a linear system for surface or suspension mounting. Made of extruded alluminium, it is available in 1,126 and 1,688 mm. configurations. It includes a LED multi-reflector system that improves the visual comfort of the luminaire.









surface mounted



Ceiling suspended



Ceiling mounted

Trazzo Avant
 Ceiling surface mounted

Installation	Ceiling surface mounted Ceiling surface Ceiling mounted
Cover	00
Light source	LED
Photobiological security	0
UGR	16 22
CRI	>80
Macadam elipses	3
Light beam	77 100
Power (W)	25,9-57
Colour temperature (°K	3000 4000 2700-6500
Lumen output	3345-9000
Power factor	0,95
Performance (%)	54,2 68,75
Life expectancy	50000 h L70B10 60000 h L70B10
DALI option	✓
Maintained operation 24h	✓
IP	30
Category	I



Trazzo Avant saluzº



Ceiling surface mounted



Ceiling suspended







Expectancy 50000 h. L70B10

68,75







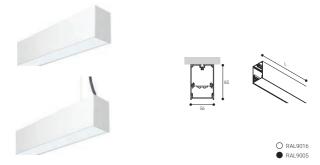
SaLUZ° (Self-contained

Once the luminaire has been connected to mains, it automously modifies the intensity and the tone of the light all over the day.

SaLUZ° Tunable white

COMPATIBLE WITH NORMALINK

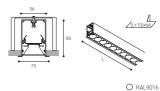
This version makes it possible to modify circadian cycles from Normalink in remote, and also to adapt them to the specific needs of the project.



		W	K	LUMEN	COLOUR	L(mm)	◬
TX4TWRB		1x25,9W	2700-6500	3345 lm	0	1126	2,5
TX4TWRN	•	1x25,9W	2700-6500	3345 lm	•	1126	2,5
TX6TWRB	•	1x38,9W	2700-6500	5020 lm	0	1688	2,5
TX6TWRN	•	1x38,9W	2700-6500	5020 lm	•	1688	2,5







RAL9005

		W	К	LUMEN	COLOUR	L(mm)	◬
TXE4ZRB		1x25,9W	2700-6500	3345 lm	0	1125	3,7
TXE4ZRN		1x25,9W	2700-6500	3345 lm	•	1125	3,7
TXE4TWRB	•	1x25,9W	2700-6500	3345 lm	0	1126	3,7
TXE4TWRN	•	1x25,9W	2700-6500	3345 lm	•	1126	3,7
TXE6TWRB	•	1x38,9W	2700-6500	5020 lm	0	1688	4,4
TXE6TWRN	•	1x38,9W	2700-6500	5020 lm	•	1688	4,4



More information on normalit.com





NORMALIT

Technical and architectural lighting **normalit.com**



More information >

sa-luz.com



SaLuz® Video

SaLuz® is a registered Trademark.

SaLuz® technology has been protected by utility model number 201931533.

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