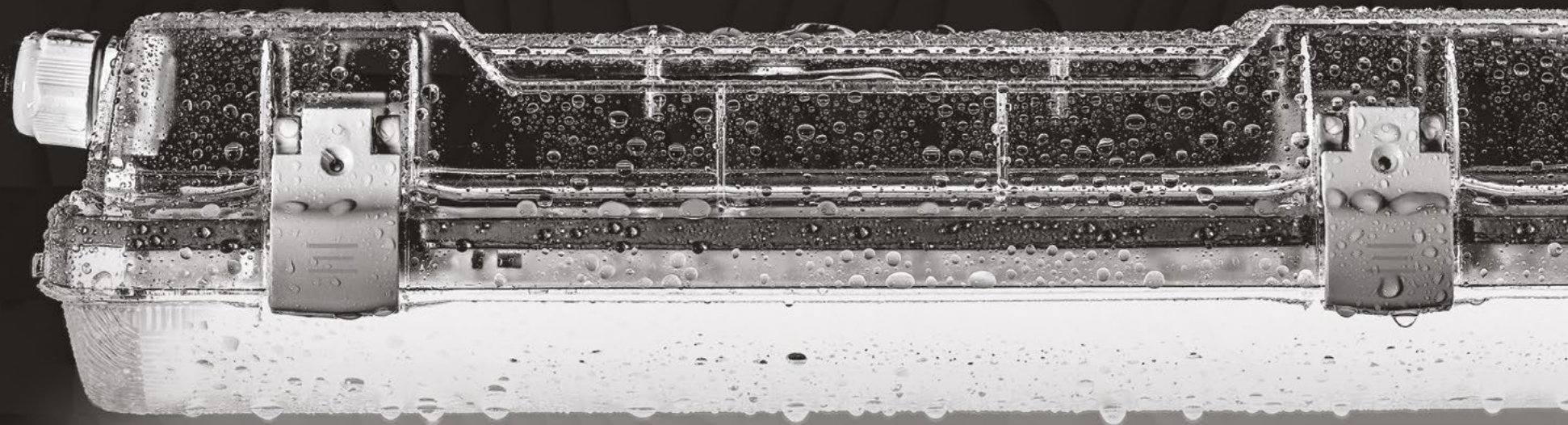


# NANOTTICA

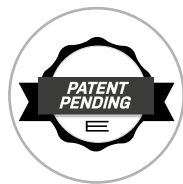
ABSOLUTE LIGHT CONTROL



**Polestar**LED  
by Nordic Eco Energy

**NANOTTICA** builds on our 16-year-old most successful range of moisture-proof PRIMA LED luminaire. A Trevos' breakthrough weather-proof luminaire with patent-pending NANOOPTICS technology for a unique diffuser, is coming.

NANOOPTICS technology has the power to absolutely control the light out of the luminaire. Nanottica with its LED service life of 50,000 hours (L90), low level of UGR and up to 65°C temperature resistance provides the professional solution of up to 180 lm/W in demanding industrial surroundings.



**PATENT  
PENDING**



**Unique  
nano-diffuser**



# WHY?

Breakthrough **NANOOPTICS** in a pure diffuser  
patent-pending technology  
Improved lighting effect through targeted lighting  
concepts within the entire space  
High efficiency in minimization of direct discomfort glare  
Great visual comfort, preventing tired eyes and improved people productivity  
Balanced shadowing and uniform light  
Maximum economic and energy efficiency  
Dimmable luminaire with DALI controllable electronic ballast



**SAVE  
ENERGY**



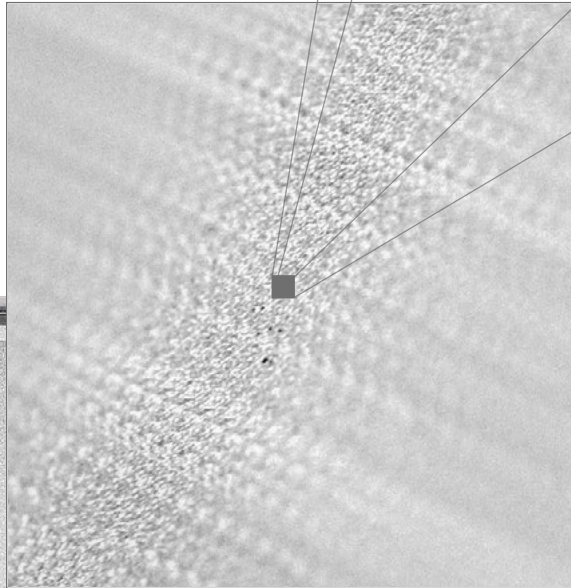
**High optical  
efficiency 94%**



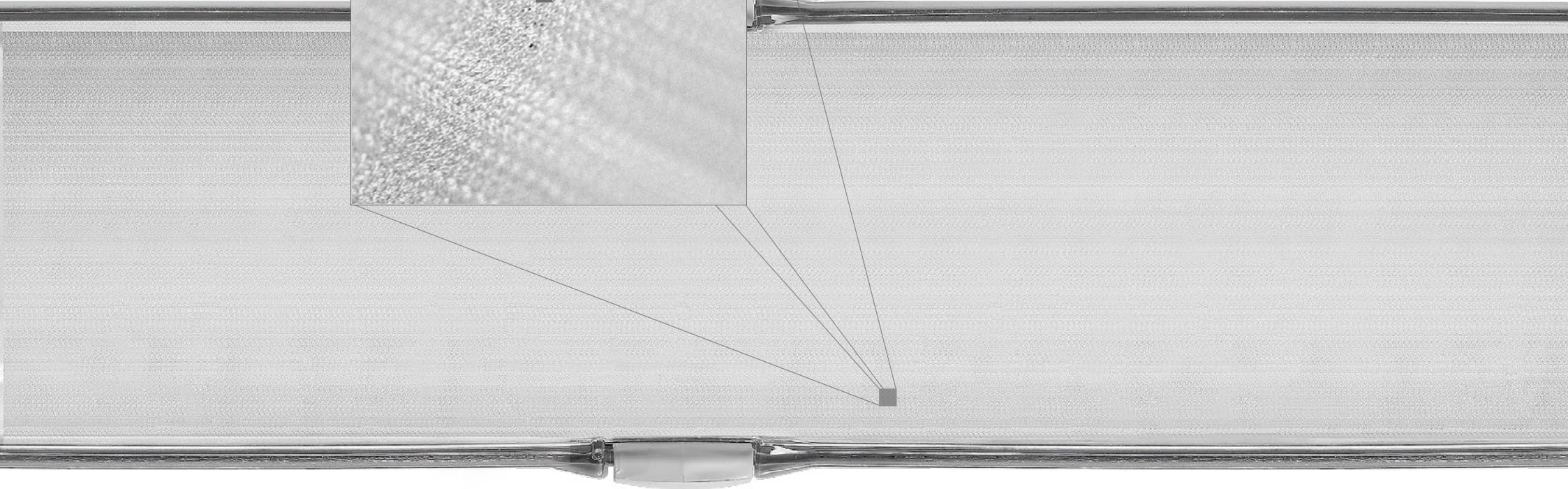
**LOW  
UGR < 19**



**High** optical  
efficiency **94%**



sophisticated  
**nanostructure**  
with **extraordinary**  
**optical** properties



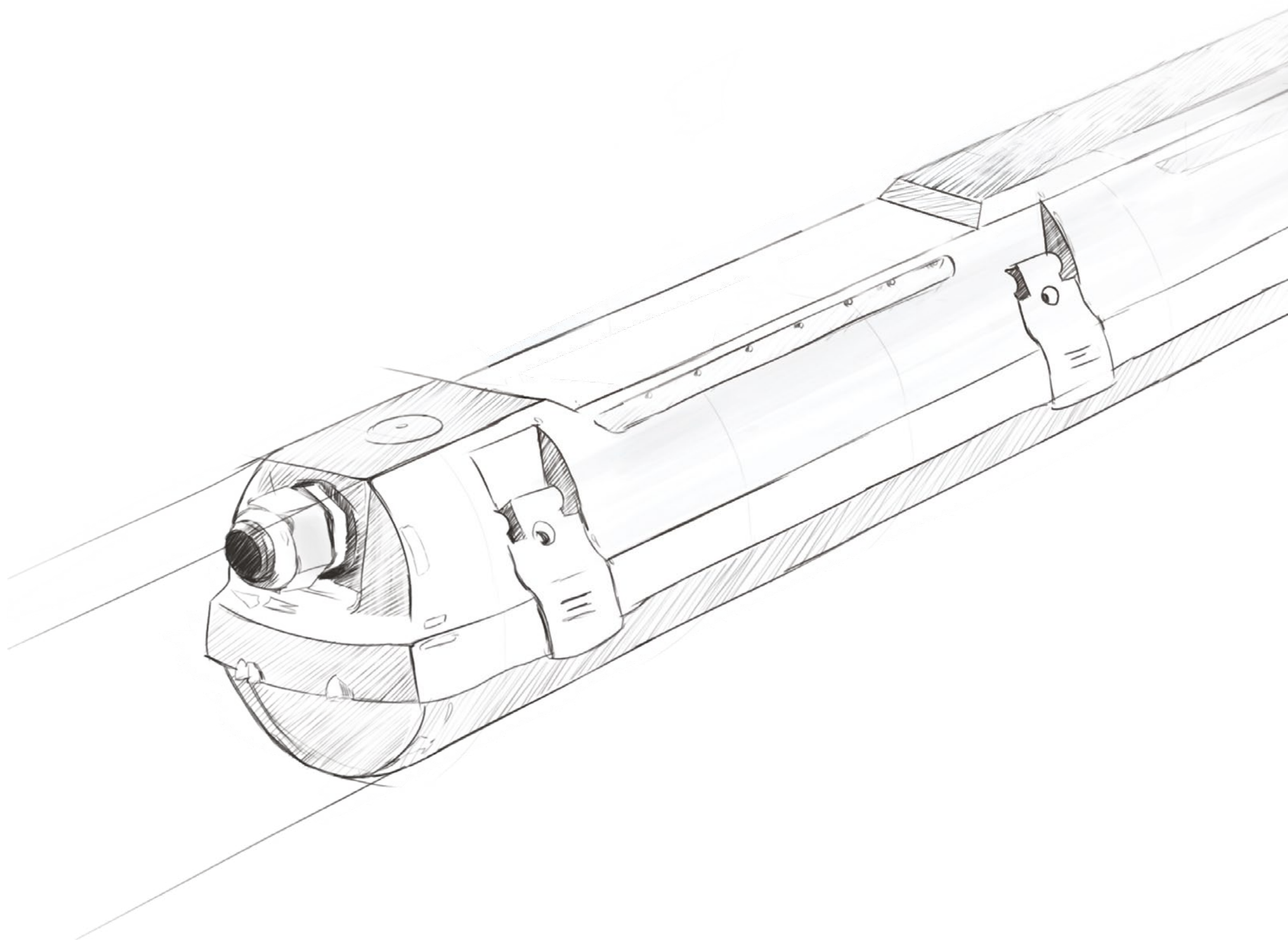
# WHY?

Transparent luminaire cover with an embossed NANOOPTICAL structure

Absolute light control with patent pending production technology - LOW UGR

Fully controlled light beam distribution

Control of light emission and brightness into the entire space



# APPLICATIONS

SUPER EFFICIENCY with ENERGY SAVING solution:

**INDUSTRY**

**ENGINEERING**

**PRODUCTION**

**CAR PARKS**

**HALLS AND LOGISTICS**





# APPLICATIONS

ANTI-GLARE with the low level of UGR:

**WORKSHOPS AND OTHER INDUSTRIAL  
ENVIRONMENTS WITH THE MAXIMUM DETAIL  
OF VISUAL PERFORMANCE**





# BENEFITS

Breakthrough optical system with perfect visual manifestation

Nanostructured surface

Fully controlled light beam distribution

Visual comfort

High visual performance

Work safety

Greater human productivity

IP66 / IP69 protection

IK10

EPD, ENEC, CB, DLG, HACCP

Three lengths

TYPE	CHARACTER		MATERIAL BODY/ MATERIAL DIFFUSER
<b>NANOTTICA ES TRS</b>	super efficiency and UGR	3,5 - 8 meters high ceilings	TRS PC/PC
<b>NANOTTICA ES</b>	super efficiency, energy saver	3,5 - 8 meters high ceilings	PC/PC
<b>NANOTTICA TRS</b>	super UGR, anti-glare	3,5 - 8 meters high ceilings	TRS PC/PC
<b>NANOTTICA</b>	basic	3,5 - 8 meters high ceilings	PC/PC
<b>NANOTTICA NB</b>	narrow beam	7,5 - 12 meter high ceilings	PC/PC
<b>NANOTTICA WB</b>	wide beam	2,5 - 4 meters low ceilings	PC/PC
<b>NANOTTICA ES ABS</b>	chemically resistant, super efficiency, energy saver	3,5 - 8 meters high ceilings	ABS/AC
<b>NANOTTICA ABS</b>	chemically resistant	3,5 - 8 meters high ceilings	ABS/AC
<b>NANOTTICA NB ABS</b>	narrow beam chemically resistant	7,5 - 12 meters high ceilings	ABS/AC
<b>NANOTTICA WB ABS</b>	wide beam, chemically resistant	2,5 - 4 meters low ceilings	ABS/AC
<b>NANOTTICA VP</b>	ventilation membrane, outdoor sheltered places	3,5 - 8 meters high ceilings	PC/PC
<b>NANOTTICA VP ABS</b>	ventilation membrane, outdoor sheltered places, chemically resistant	3,5 - 8 meters high ceilings	ABS/AC
<b>NANOTTICA MAX</b>	for extreme temperatures, -40 C + 65 C	3,5 - 8 meters high ceilings	PCc/PCc
<b>NANOTTICA CLASS II</b>	class II insulation	3,5 - 8 meters high ceilings	PC/PC
<b>NANOTTICA SNS</b>	with motion detector	3,5 - 6 meters high ceilings	PC/PC

### THE BEST SOLUTIONS:

- a. SUPER EFFICIENCY with LOW LEVEL of UGR (NANOTTICA ES TRS)
- b. SUPER EFFICIENCY, energy saving solution (NANOTTICA ES)
- c. LOW LEVEL of UGR, anti-glare (NANOTTICA TRS)



# TECHNICAL FEATURES

Strong performance up to 180 lm/W

Photobiological safety group acc. to EN62778, RG 0

Service life 50 000 hours (L90B10)

Built-in ventilation membrane for minimization of internal condensation (NANOTTICA VP)

Temperature resistance up to -25 °C and +50 °C

MAX version up to -40 °C and +65 °C

Impact resistance of IK10

CRI > 80: 4000 K, 3000 K, 5000 K, 6500 K

CRI > 90: 3000 K, 4000 K, 5000 K, 6500 K





# TECHNICAL FEATURES

## ABSOLUTE LIGHTING CONTROL

NANOOPTIC DIFFUSER has the power to control the light out of the luminaire and gives anti-glare NANOOPTICS shields.

## NANOTTICA LIGHTING BENEFITS

UGR down to 16

LED high-performance weather-proof lighting up to 180 lm/W

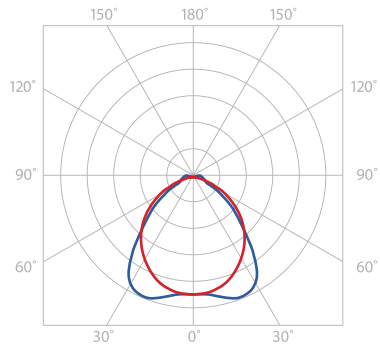
Uniform light – no dark ends

Ceilings installation options: pendant, surface mounted

IP66/IP69 – New solution for improved IP66 protection  
(ventilation membrane on request, more clips)

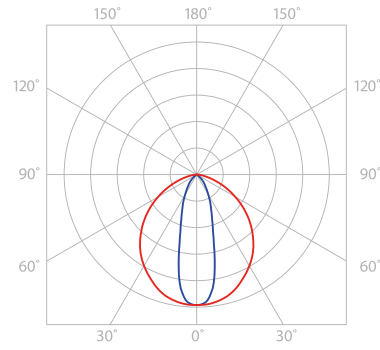
### NANOTTICA

Medium beam



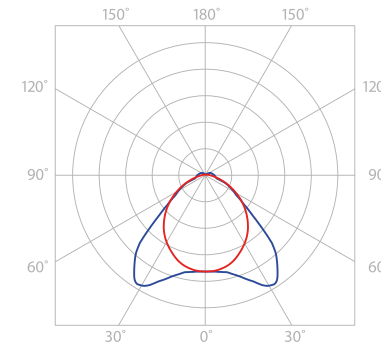
### NANOTTICA NB

Narrow beam



### NANOTTICA WB

Wide beam

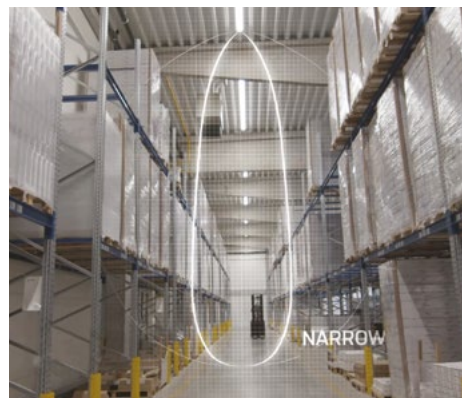


**LOW** discomfort glare index **UGR** down to 16

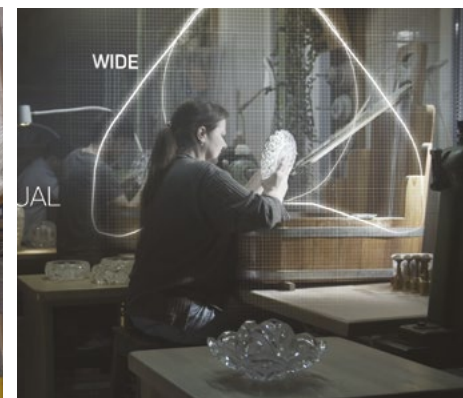
MEDIUM



NARROW



WIDE



# MATERIALS

## TRS PC/PC

Transparent (TRS) PC for low ceiling in indoor parking areas

## PC/PC

PC for general usage and impact resistance

## ABS/AC

ABS for chemically aggressive environments with ammonia, fat, oils, acids and alkalis



TRS  
PC/PC



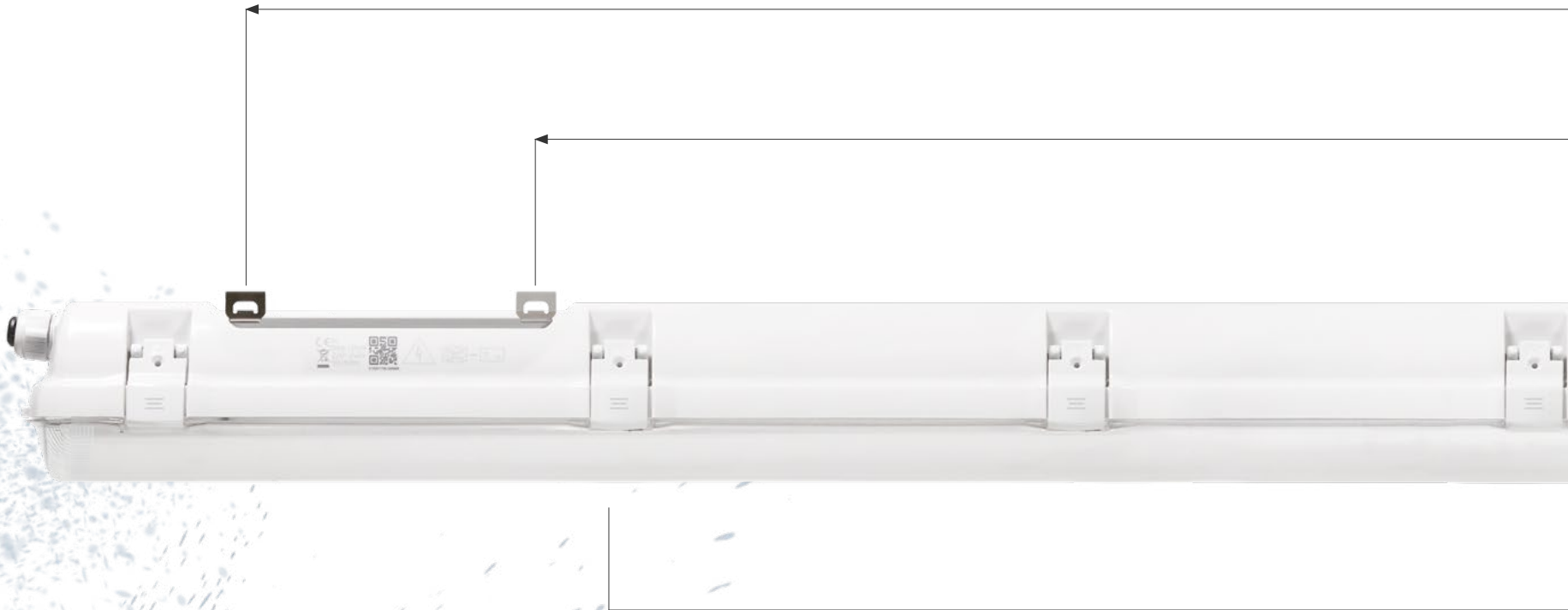
PC/PC



ABS/AC

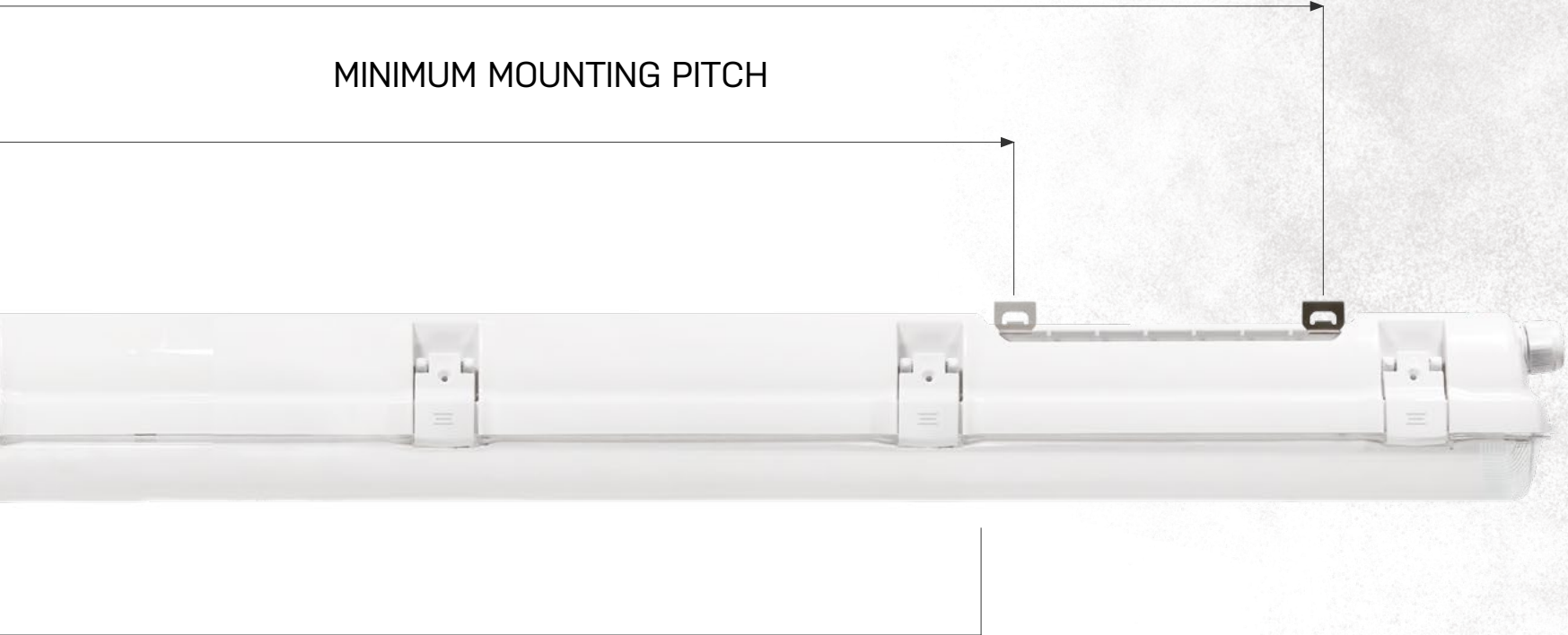


MAXIMUM MOUNTING PITCH



IP69

MINIMUM MOUNTING PITCH



IP66

# TEMPERATURE RESISTANCE

up to -25 °C and + 50 °C

-25 °C



-40 °C

+50 °C



+65 °C

MAX TEMPERATURE RESISTANCE  
up to -40 °C and + 65 °C



# TECHNICAL SPECIFICATIONS

Offer lighting fixtures in 3 different lengths  
Plastic or stainless\* clips

1.5ft = 14 pcs of clips

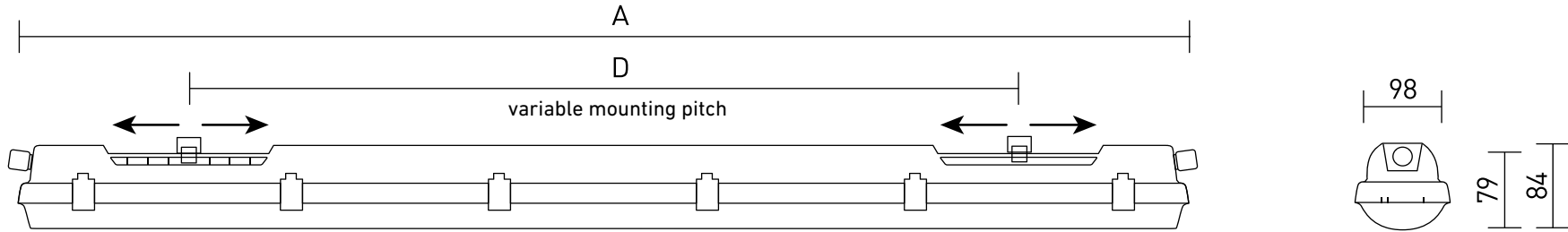
1.4ft = 12 pcs of clips

1.2ft = 6 pcs of clips



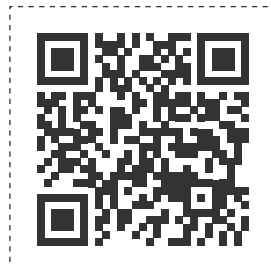
\*

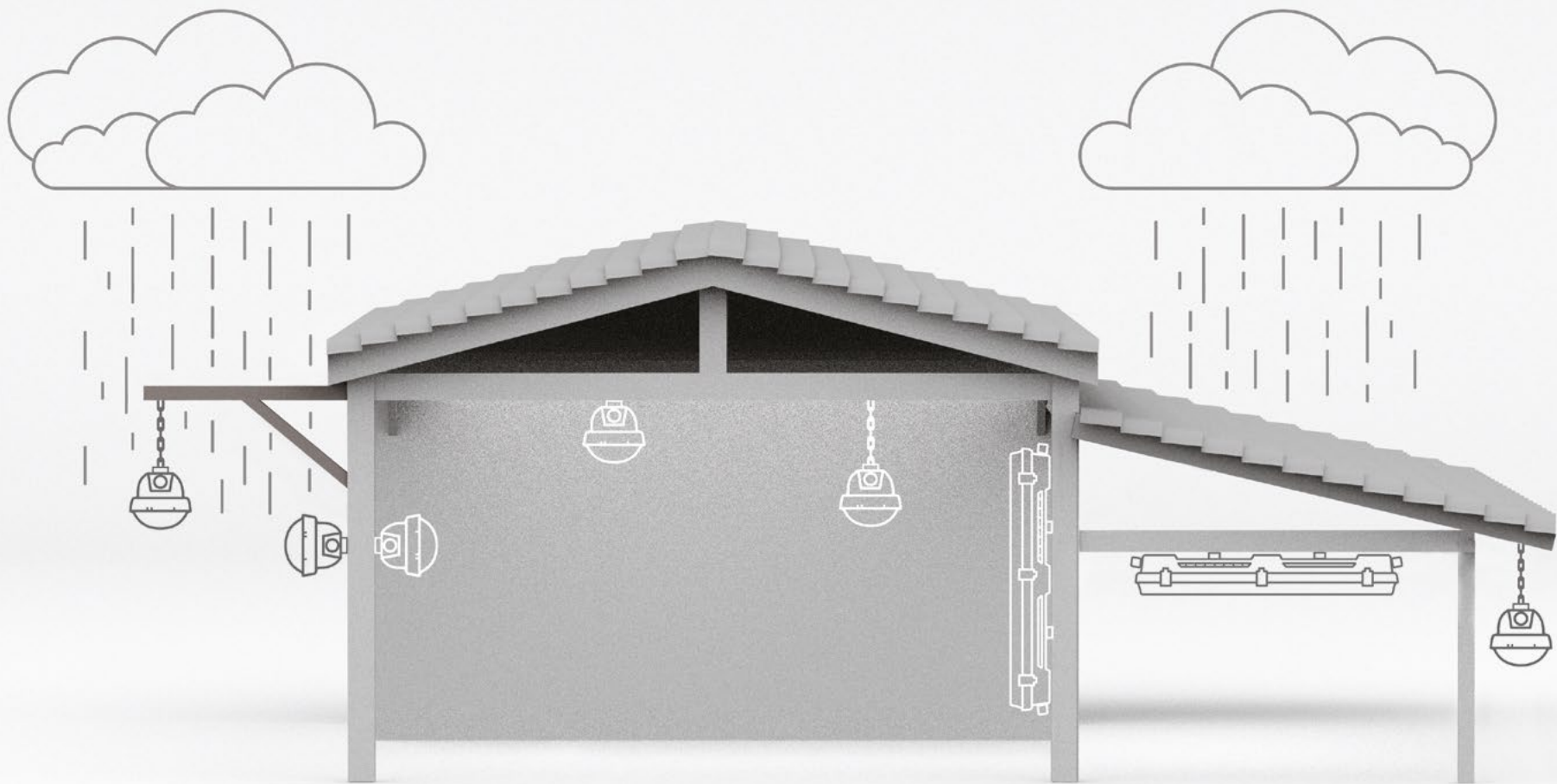




	A [mm]	D [mm]
NANOTTICA 1.2 ft	615	110 - 370
NANOTTICA 1.4 ft	1175	700 - 960
NANOTTICA 1.5 ft	1455	970 - 1230

THERE YOU CAN FIND **ACTUALLY**  
**PARAMITERS OF LUMINAIRES**





# NANOITICA

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