# NANOTTICA CLASS II




## ... class II insulation, ceiling height from 3.5 to 8 m, impact resistant.

### USE

The fixture boasts a **low unified glare rating with UGR values** its patented nanooptics. This ensures eye comfort, **high visual performance and workplace safety,** which indirectly **translates into higher productivity.**

The fitting is highly recommended for **illumination of premises where workers' visual precision is of paramount importance.** These include workshops where fine assembly work is performed as well as craft workshops and visual inspection areas.

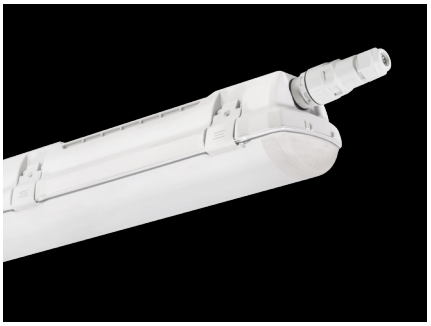
Its **standard beam angle** makes it a perfect choice for premises with an optimum luminaire installation height of **3.5 to 8 m**. The fixture is intended for indoor spaces, **industrial and agricultural buildings, warehouses, rail vehicle maintenance facilities, platforms, substations, depots, car parks, garages, workshops and laboratories** with no explosion hazard. IP69-rated and HACCP-compliant, the fitting's design also makes it a great choice for the food industry.

Made of clear polycarbonate, the base and the diffuser boast **high impact and deformation resistance.** Emissions in the environment of use may reduce the usability of the plastics; for more information see page 421.

### ADVANTAGES

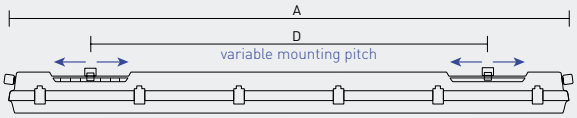
- Patented optics ensures absolute control over light beam distribution
- Light fitting protection **IP66 / IP69**
- High temperature resistance in a range from ta = -25 °C to **ta = 50 °C**
- Lifetime: 50 000 hours / L90B10
- Lifetime: 100 000 hours / L80B10
- High **mechanical resistance IK10**
- **Variable suspension pitch,** optional installation of light fitting even on an existing structure on which the original light fittings were suspended
- Optional throughwiring (up to 6 wires inside the light fitting)
- Standard model CRI > 80: 4000 K
- On request CRI > 80: 3000 K, 5000 K, 6500 K
- CRI > 90: 3000 K, 4000 K, 5000 K, 6500 K
- Optional delivery in dimmable version

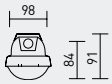
# NANOTTICA CLASS II PC, PCc



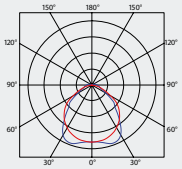
## TECHNICAL DESCRIPTION

- Light fitting protection: **IP66 / IP69**
- Maximum ambient temperature: **ta = 50 °C**
- Maximum ambient temperature: ta = 0-40 °C for version with emergency back-up M3hAt
- Lifetime: 50 000 hours / L90B10
- Lifetime: 100 000 hours / L80B10
- Maximum light fitting efficiency: **159 lm/W**
- Optimum luminaire installation height **from 3.5 to 8 m**
- **CRI > 80: 4000 K** – standard
- CRI > 80: 3000 K, 5000 K, 6500 K - on request
- CRI > 90: 3000 K, 4000 K, 5000 K, 6500 K - on request
- MacAdam = 3 SDCM
- Diffuser: **transparent PC with nanooptics** (high mechanical resistance, UV stability)
- Body: grey PC (high mechanical resistance, UV stability)
- Reflector: steel sheet, white colour (RAL 9003)
- **Mounting clips:** stainless steel, stainless steel hooks included
- Clips: polyamide + 15 % glass fibre or stainless steel + polyamide
- Sealing: polyurethane (PUR), foamed body groove
- **External terminal block** 2 or 4-pole, conductor cross-sectional area: 1.5 or 2.5 mm$^2$, or 6-pole Wieland connector (DALI 3F)
- The package includes the opposite of the counterpart
- The values stated for power consumption and luminous flux are in a tolerance of ± 7.5 %




NANOTTICA 1.5ft CLASS II




| Type | Max. ambient temperature [°C] | Luminous flux of LED modules [lm] | Luminous flux of light fitting [lm] | Power consumption [W] | System efficacy [lm/W] | Net weight [kg] | A [mm] | D [mm] |
|---|---|---|---|---|---|---|---|---|
| Up to ambient temperature ta = 50 °C - body: grey polycarbonate - diffusor with nanooptics (standard beam angle), transparent polycarbonate | | | | | | | | |
| NANOTTICA 1.2ft CLASS II PC 1600/840 | 50 | 1630 | 1530 | 10,5 | 146 | 0,9 | 615 | 110 - 370 |
| NANOTTICA 1.2ft CLASS II PC 2200/840 | 45 | 2360 | 2220 | 14,6 | 152 | 0,9 | 615 | 110 - 370 |
| NANOTTICA 1.4ft CLASS II PC 3200/840 | 50 | 3260 | 3060 | 20,1 | 152 | 1,7 | 1175 | 700 - 960 |
| NANOTTICA 1.4ft CLASS II PC 4400/840 | 45 | 4520 | 4250 | 27,3 | 156 | 1,7 | 1175 | 700 - 960 |
| NANOTTICA 1.4ft CLASS II PC 6400/840 | 45 | 6500 | 6110 | 38,5 | 159 | 1,7 | 1175 | 700 - 960 |
| NANOTTICA 1.5ft CLASS II PC 4000/840 | 50 | 4180 | 3930 | 25,3 | 155 | 2,0 | 1455 | 970 - 1230 |
| NANOTTICA 1.5ft CLASS II PC 5500/840 | 45 | 5590 | 5250 | 33,3 | 158 | 2,0 | 1455 | 970 - 1230 |
| NANOTTICA 1.5ft CLASS II PC 8000/840 | 45 | 8020 | 7540 | 47,4 | 159 | 2,0 | 1455 | 970 - 1230 |

## NANOTTICA CLASS II PC

Non-dimmable driver - plastic clips

| Code | Type | 1F | 3F | M3hAt | 3F M3hAt |
|---|---|---|---|---|---|
| 101814 | NANOTTICA 1.2ft CLASS II PC 1600/840 | 101825 | 101836 | x | x |
| 101815 | NANOTTICA 1.2ft CLASS II PC 2200/840 | 101826 | 101837 | x | x |
| 101817 | NANOTTICA 1.4ft CLASS II PC 3200/840 | 101828 | 101839 | 108447 | 108455 |
| 101818 | NANOTTICA 1.4ft CLASS II PC 4400/840 | 101829 | 101840 | 108448 | 108456 |
| 101819 | NANOTTICA 1.4ft CLASS II PC 6400/840 | 101830 | 101841 | 108449 | 108457 |
| 101821 | NANOTTICA 1.5ft CLASS II PC 4000/840 | 101832 | 101843 | 108451 | 108459 |
| 101822 | NANOTTICA 1.5ft CLASS II PC 5500/840 | 101833 | 101844 | 108452 | 108460 |
| 101823 | NANOTTICA 1.5ft CLASS II PC 8000/840 | 101834 | 101845 | 108453 | 108461 |

## NANOTTICA CLASS II PCc

Non-dimmable driver - stainless clips (c)

| Code | Type | 1F | 3F | M3hAt | 3F M3hAt |
|---|---|---|---|---|---|
| 101879 | NANOTTICA 1.2ft CLASS II PCc 1600/840 | 101890 | 101901 | x | x |
| 101880 | NANOTTICA 1.2ft CLASS II PCc 2200/840 | 101891 | 101902 | x | x |
| 101882 | NANOTTICA 1.4ft CLASS II PCc 3200/840 | 101893 | 101904 | 108463 | 108471 |
| 101883 | NANOTTICA 1.4ft CLASS II PCc 4400/840 | 101894 | 101905 | 108464 | 108472 |
| 101884 | NANOTTICA 1.4ft CLASS II PCc 6400/840 | 101895 | 101906 | 108465 | 108473 |
| 101886 | NANOTTICA 1.5ft CLASS II PCc 4000/840 | 101897 | 101908 | 108467 | 108507 |
| 101887 | NANOTTICA 1.5ft CLASS II PCc 5500/840 | 101898 | 101909 | 108468 | 108508 |
| 101888 | NANOTTICA 1.5ft CLASS II PCc 8000/840 | 101899 | 101910 | 108469 | 108509 |

## NANOTTICA CLASS II PC DALI

Digital dimmable driver DALI - plastic clips

| Code | Type | 1F | 3F | M3hAt | 3F M3hAt |
|---|---|---|---|---|---|
| 101944 | NANOTTICA 1.2ft CLASS II PC 1600/840 DALI | 101955 | x | x | x |
| 101945 | NANOTTICA 1.2ft CLASS II PC 2200/840 DALI | 101956 | x | x | x |
| 101947 | NANOTTICA 1.4ft CLASS II PC 3200/840 DALI | 101958 | 101969 | 108475 | 108483 |
| 101948 | NANOTTICA 1.4ft CLASS II PC 4400/840 DALI | 101959 | 101970 | 108476 | 108484 |
| 101949 | NANOTTICA 1.4ft CLASS II PC 6400/840 DALI | 101960 | 101971 | 108477 | 108485 |
| 101951 | NANOTTICA 1.5ft CLASS II PC 4000/840 DALI | 101962 | 101973 | 108479 | 108487 |
| 101952 | NANOTTICA 1.5ft CLASS II PC 5500/840 DALI | 101963 | 101974 | 108480 | 108488 |
| 101953 | NANOTTICA 1.5ft CLASS II PC 8000/840 DALI | 101964 | 101975 | 108481 | 108489 |

## NANOTTICA CLASS II PCc DALI

Digital dimmable driver DALI - stainless clips (c)

| Code | Type | 1F | 3F | M3hAt | 3F M3hAt |
|---|---|---|---|---|---|
| 102009 | NANOTTICA 1.2ft CLASS II PCc 1600/840 DALI | 102020 | x | x | x |
| 102010 | NANOTTICA 1.2ft CLASS II PCc 2200/840 DALI | 102021 | x | x | x |
| 102012 | NANOTTICA 1.4ft CLASS II PCc 3200/840 DALI | 102023 | 102034 | 108491 | 108499 |
| 102013 | NANOTTICA 1.4ft CLASS II PCc 4400/840 DALI | 102024 | 102035 | 108492 | 108500 |
| 102014 | NANOTTICA 1.4ft CLASS II PCc 6400/840 DALI | 102025 | 102036 | 108493 | 108501 |
| 102016 | NANOTTICA 1.5ft CLASS II PCc 4000/840 DALI | 102027 | 102038 | 108495 | 108503 |
| 102017 | NANOTTICA 1.5ft CLASS II PCc 5500/840 DALI | 102028 | 102039 | 108496 | 108504 |
| 102018 | NANOTTICA 1.5ft CLASS II PCc 8000/840 DALI | 102029 | 102040 | 108497 | 108505 |

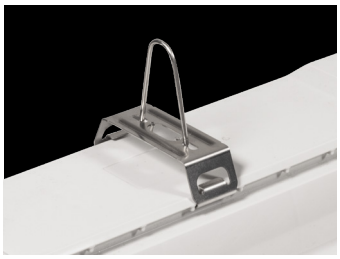
### LEGEND

**1F** - 1-phase 2 core through-wiring in the luminaire
**3F** - 3-phase 4 core through-wiring in the luminaire
**M3hAt** - emergency back-up source with 3 hour operating time for maintained emergency illumination with battery autotest
**3F M3hAt** - 3-phase 4 core through-wiring in the luminaire (L3 used for emergency unit unswitched power supply)

**DALI** - version with digital dimmable driver DALI
**DALI 1F** - 1-phase 4 core through-wiring in the luminaire
**DALI 3F** - 3-phase 6 core through-wiring in the luminaire
**DALI 3F M3hAt** - 3-phase 6 core through-wiring in the luminaire (L3 used for emergency unit unswitched power supply)

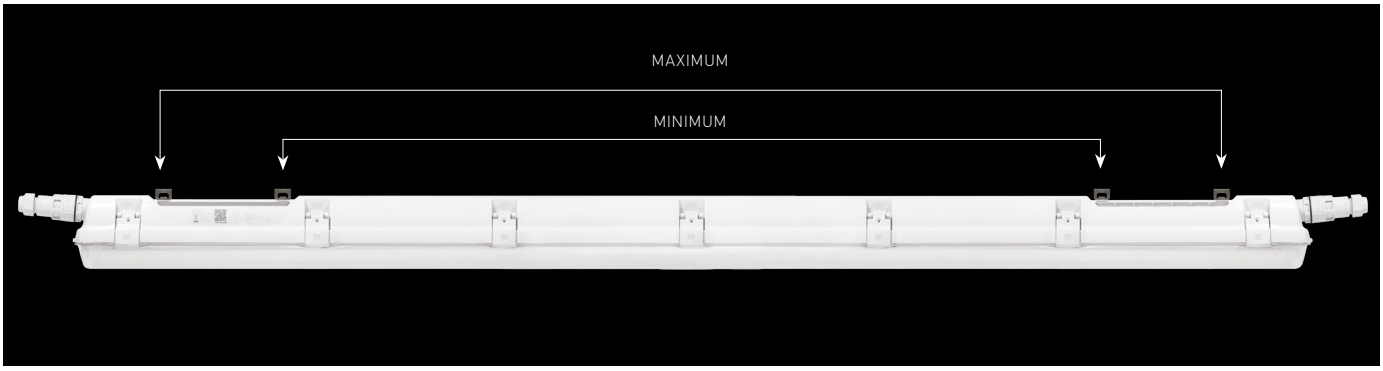
## LIGHT FITTING ATTACHMENT

a) Directly to a ceiling or a wall with the use of screws and stainless brackets
b) Suspension with the use of stainless hooks
c) Attachment with the use of side hangers to the wall - is not included in accessories


## VARIABLE INSTALLATION PITCH

NANOTTICA CLASS II




## LIGHT FITTING DETAILED VIEW

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