NANOTTICA ES



... energy saver, exceptional efficiency, ceiling height from 3.5 to 8 m, impact resistant, MultiLumen.

USE

Compared to its basic version, Nanottica ES boasts **lower energy consumption**, which translates into **considerably higher luminous efficacy (lm/W).**

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**. It is designed for indoor spaces, **industrial premises, agricultural buildings, warehouses as well as sports facilities, transport hubs, car parks and 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

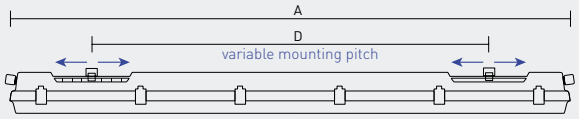
- Maximum light fitting efficiency: **185 lm/W**
- Patented optics ensures absolute control over light beam distribution
- Light fitting protection **IP66 / IP69**
- High temperature resistance in a range from ta = -25 °C to **ta = 50 °C**
- Lifetime: 50 000 hours / L90B10
- Lifetime: 100 000 hours / 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
- **MultiLumen (ML)** function enables simple switching between up to four luminous fluxes via driver's DIP switch.
- Optional throughwiring (up to 7 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
- Certificates: **EPD, HACCP**

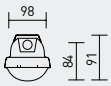
NANOTTICA ES PC, PCc



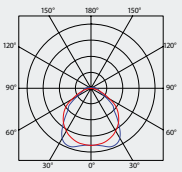
TECHNICAL DESCRIPTION

- 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: **185 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
- **MultiLumen (ML):** luminous flux variable in up to 4 steps. In the standard version preset maximum luminous flux.
- 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
- Cable glands: screwed PG 13.5
- Terminal block: screwless, three-pole (basic version), or screwed
- The values stated for power consumption and luminous flux are in a tolerance of ± 7.5 %





NANOTTICA 1.5ft ES



Type	Max. ambient temperature [°C]	Luminous flux of LED modules [lm]	Preselected Step 1 of MultiLumen function			Net weight [kg]	A [mm]	D [mm]
			Luminous flux of light fitting [lm]	Power consumption [W]	System efficacy [lm/W]			
Up to ambient temperature ta = 50 °C - body: grey polycarbonate - diffusor with nanooptics (standard beam angle), transparent polycarbonate								
NANOTTICA 1.2ft ES PC 1600/840	50	1740	1640	9,4	174	0,9	615	110 - 370
NANOTTICA 1.2ft ES PC 2200/840 *	45	2390	2250	13,0	173	0,9	615	110 - 370
NANOTTICA 1.4ft ES PC 3200/840	50	3300	3100	17,4	178	1,7	1175	700 - 960
NANOTTICA 1.4ft ES PC 4400/840 *	45	4550	4280	24,1	178	1,7	1175	700 - 960
NANOTTICA 1.4ft ES PC 6400/840 *	45	6500	6110	34,0	180	1,7	1175	700 - 960
NANOTTICA 1.5ft ES PC 4000/840	50	4030	3790	20,6	184	2,0	1455	970 - 1230
NANOTTICA 1.5ft ES PC 5500/840 *	45	5530	5200	28,9	180	2,0	1455	970 - 1230
NANOTTICA 1.5ft ES PC 8000/840 *	45	8020	7540	41,4	182	2,0	1455	970 - 1230

*) Also available with MultiLumen function:

Type	MultiLumen function								
	Step 2			Step 3			Step 4		
	Luminous flux of light fitting [lm]	Power consumption [W]	System efficacy [lm/W]	Luminous flux of light fitting [lm]	Power consumption [W]	System efficacy [lm/W]	Luminous flux of light fitting [lm]	Power consumption [W]	System efficacy [lm/W]
NANOTTICA 1.2ft ES PC 2200/840 ML	1950	11,3	173	1640	9,4	174	1310	7,6	172
NANOTTICA 1.4ft ES PC 4400/840 ML	3690	20,8	177	3100	17,4	178	2500	14,2	176
NANOTTICA 1.4ft ES PC 6400/840 ML	5270	29,0	182	4440	24,3	183	3580	19,7	182
NANOTTICA 1.5ft ES PC 5500/840 ML	4490	24,6	183	3790	20,6	184	3060	16,5	185
NANOTTICA 1.5ft ES PC 8000/840 ML	6520	35,4	184	5480	29,6	185	4430	23,9	185

NANOTTICA ES PC

Non-dimmable driver - plastic clips

Code	Type	1F	3F	M3hAt	3F M3hAt
102551	NANOTTICA 1.2ft ES PC 1600/840	102562	102573	x	x
102552	NANOTTICA 1.2ft ES PC 2200/840 ML	102563	102574	x	x
102554	NANOTTICA 1.4ft ES PC 3200/840	102565	102576	108578	108580
102555	NANOTTICA 1.4ft ES PC 4400/840 ML	102566	102577	108626	108627
102556	NANOTTICA 1.4ft ES PC 6400/840 ML	102567	102578	108658	108659
102558	NANOTTICA 1.5ft ES PC 4000/840	102569	102580	108610	108611
102559	NANOTTICA 1.5ft ES PC 5500/840 ML	102570	102581	108642	108643
102560	NANOTTICA 1.5ft ES PC 8000/840 ML	102571	102582	108674	108675

NANOTTICA ES PCc

Non-dimmable driver - stainless clips (c)

Code	Type	1F	3F	M3hAt	3F M3hAt
102619	NANOTTICA 1.2ft ES PCc 1600/840	102630	102641	x	x
102620	NANOTTICA 1.2ft ES PCc 2200/840 ML	102631	102642	x	x
102622	NANOTTICA 1.4ft ES PCc 3200/840	102633	102644	108582	108584
102623	NANOTTICA 1.4ft ES PCc 4400/840 ML	102634	102645	108628	108629
102624	NANOTTICA 1.4ft ES PCc 6400/840 ML	102635	102646	108660	108661
102626	NANOTTICA 1.5ft ES PCc 4000/840	102637	102648	108612	108613
102627	NANOTTICA 1.5ft ES PCc 5500/840 ML	102638	102649	108644	108645
102628	NANOTTICA 1.5ft ES PCc 8000/840 ML	102639	102650	108676	108677

NANOTTICA ES PC DALI

Digital dimmable driver DALI - plastic clips

Code	Type	1F	3F	M3hAt	3F M3hAt
102687	NANOTTICA 1.2ft ES PC 1600/840 DALI	102698	x	x	x
102688	NANOTTICA 1.2ft ES PC 2200/840 DALI	102699	x	x	x
102690	NANOTTICA 1.4ft ES PC 3200/840 DALI	102701	102712	108586	108588
102691	NANOTTICA 1.4ft ES PC 4400/840 DALI	102702	102713	108630	108631
102692	NANOTTICA 1.4ft ES PC 6400/840 DALI	102703	102714	108662	108663
102694	NANOTTICA 1.5ft ES PC 4000/840 DALI	102705	102716	108614	108615
102695	NANOTTICA 1.5ft ES PC 5500/840 DALI	102706	102717	108646	108647
102696	NANOTTICA 1.5ft ES PC 8000/840 DALI	102707	102718	108678	108679

NANOTTICA ES PCc DALI

Digital dimmable driver DALI - stainless clips (c)

Code	Type	1F	3F	M3hAt	3F M3hAt
102755	NANOTTICA 1.2ft ES PCc 1600/840 DALI	102766	x	x	x
102756	NANOTTICA 1.2ft ES PCc 2200/840 DALI	102767	x	x	x
102758	NANOTTICA 1.4ft ES PCc 3200/840 DALI	102769	102780	108590	108592
102759	NANOTTICA 1.4ft ES PCc 4400/840 DALI	102770	102781	108632	108633
102760	NANOTTICA 1.4ft ES PCc 6400/840 DALI	102771	102782	108664	108665
102762	NANOTTICA 1.5ft ES PCc 4000/840 DALI	102773	102784	108616	108617
102763	NANOTTICA 1.5ft ES PCc 5500/840 DALI	102774	102785	108648	108649
102764	NANOTTICA 1.5ft ES PCc 8000/840 DALI	102775	102786	108680	108681

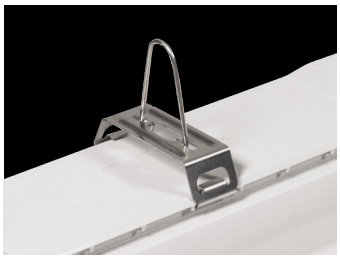
LEGEND

1F - 1-phase 3 core through-wiring in the luminaire
3F - 3-phase 5 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 5 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 5 core through-wiring in the luminaire
DALI 3F - 3-phase 7 core through-wiring in the luminaire
DALI 3F M3hAt - 3-phase 7 core through-wiring in the luminaire (L3 used for emergency unit unswitched power supply)

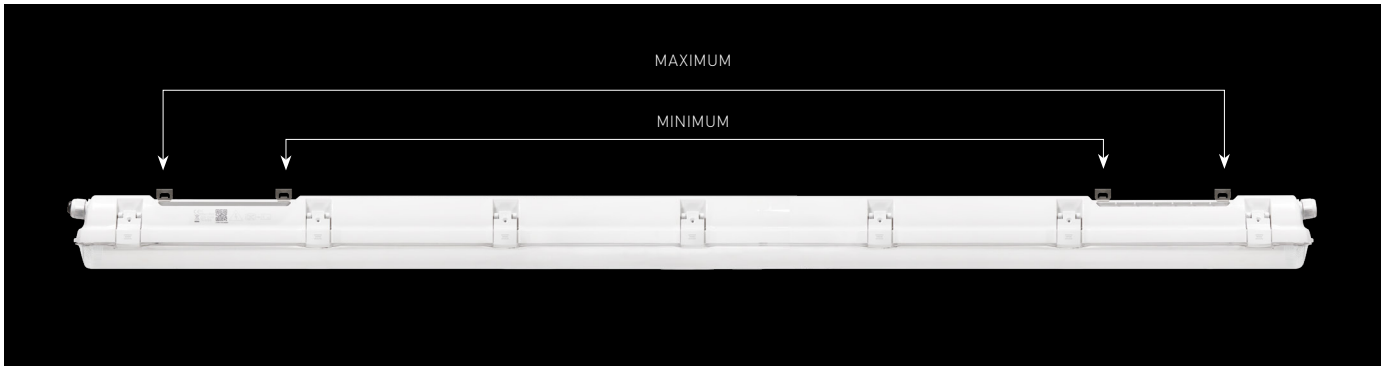
LIGHT FITTING ATTACHMENT

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 ES PC



LIGHT FITTING DETAILED VIEW

NANOTTICA ES PC





