NANOTTICA E-CON



... with external terminal block IP66 / IP69, MultiLumen.

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.

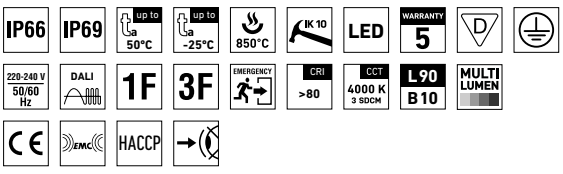
An external terminal block makes it easy and quick to connect the supply cable with no need to open the fitting.

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.

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
- **MultiLumen (ML)** function enables simple switching between up to four luminous fluxes via driver's DIP switch.
- 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 emergency version
- Eliminated risk of mechanical and electrostatic damage to LED chips
- Optional throughwiring (up to 5 wires inside the light fitting)

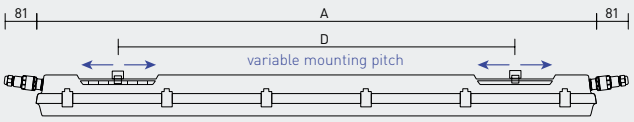


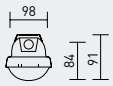
NANOTTICA E-CON PC, PCc



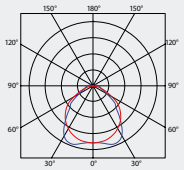
TECHNICAL DESCRIPTION

- 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: **165 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
- **External terminal block** 3 or 5-pole, conductor cross-sectional area: 1.5 or 2.5 mm²
- The values stated for power consumption and luminous flux are in a tolerance of ± 7.5 %





NANOTTICA E-CON 1.5ft



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 E-CON PC 1600/840	50	1630	1530	10,5	146	0,9	615	110 - 370
NANOTTICA 1.2ft E-CON PC 2200/840 *	45	2360	2220	14,6	152	0,9	615	110 - 370
NANOTTICA 1.4ft E-CON PC 3200/840	50	3260	3060	20,1	152	1,7	1175	700 - 960
NANOTTICA 1.4ft E-CON PC 4400/840 *	45	4520	4250	27,3	156	1,7	1175	700 - 960
NANOTTICA 1.4ft E-CON PC 6400/840 *	45	6500	6110	38,5	159	1,7	1175	700 - 960
NANOTTICA 1.4ft E-CON PC 8000/840	35	8160	7670	49,0	157	1,7	1175	700 - 960
NANOTTICA 1.5ft E-CON PC 4000/840	50	4180	3930	25,3	155	2,0	1455	970 - 1230
NANOTTICA 1.5ft E-CON PC 5500/840 *	45	5590	5250	33,3	158	2,0	1455	970 - 1230
NANOTTICA 1.5ft E-CON PC 8000/840 *	45	8020	7540	47,4	159	2,0	1455	970 - 1230
NANOTTICA 1.5ft E-CON PC 10000/840	35	10350	9730	62,9	155	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 E-CON PC 2200/840 ML	1920	13,0	148	1620	11,0	147	1310	9,1	144
NANOTTICA 1.4ft E-CON PC 4400/840 ML	3680	23,3	158	3110	19,5	159	2520	15,8	159
NANOTTICA 1.4ft E-CON PC 6400/840 ML	5300	32,8	162	4480	27,4	164	3640	22,1	165
NANOTTICA 1.5ft E-CON PC 5500/840 ML	4550	28,4	160	3840	23,6	163	3100	19,1	162
NANOTTICA 1.5ft E-CON PC 8000/840 ML	6550	40,4	162	5540	33,6	165	4480	27,2	165

NANOTTICA E-CON PC

Non-dimmable driver, plastic clips

Type	1x3P	1x5P	M3hAt 1x5P	2x3P	2x5P	M3hAt 2x5P
NANOTTICA 1.2ft E-CON PC 1600/840	107464	107472	x	107486	107494	x
NANOTTICA 1.2ft E-CON PC 2200/840 ML	107465	107473	x	107487	107495	x
NANOTTICA 1.4ft E-CON PC 3200/840	107466	107474	107480	107488	107496	107502
NANOTTICA 1.4ft E-CON PC 4400/840 ML	107467	107475	107481	107489	107497	107503
NANOTTICA 1.4ft E-CON PC 6400/840 ML	107468	107476	107482	107490	107498	107504
NANOTTICA 1.4ft E-CON PC 8000/840	110309	110311	x	110313	110315	x
NANOTTICA 1.5ft E-CON PC 4000/840	107469	107477	107483	107491	107499	107505
NANOTTICA 1.5ft E-CON PC 5500/840 ML	107470	107478	107484	107492	107500	107506
NANOTTICA 1.5ft E-CON PC 8000/840 ML	107471	107479	107485	107493	107501	107507
NANOTTICA 1.5ft E-CON PC 10000/840	110310	110312	x	110314	110316	x

NANOTTICA E-CON PCc

Non-dimmable driver, stainless clips (c)

Type	1x3P	1x5P	M3hAt 1x5P	2x3P	2x5P	M3hAt 2x5P
NANOTTICA 1.2ft E-CON PCc 1600/840	107536	107544	x	107558	107566	x
NANOTTICA 1.2ft E-CON PCc 2200/840 ML	107537	107545	x	107559	107567	x
NANOTTICA 1.4ft E-CON PCc 3200/840	107538	107546	107552	107560	107568	107574
NANOTTICA 1.4ft E-CON PCc 4400/840 ML	107539	107547	107553	107561	107569	107575
NANOTTICA 1.4ft E-CON PCc 6400/840 ML	107540	107548	107554	107562	107570	107576
NANOTTICA 1.4ft E-CON PCc 8000/840	110321	110323	x	110325	110327	x
NANOTTICA 1.5ft E-CON PCc 4000/840	107541	107549	107555	107563	107571	107577
NANOTTICA 1.5ft E-CON PCc 5500/840 ML	107542	107550	107556	107564	107572	107578
NANOTTICA 1.5ft E-CON PCc 8000/840 ML	107543	107551	107557	107565	107573	107579
NANOTTICA 1.5ft E-CON PCc 10000/840	110322	110324	x	110326	110328	x

NANOTTICA E-CON PC DALI

Digital dimmable driver DALI, plastic clips

Type	DALI 1x5P	DALI M3hAt 1x5P	DALI 2x5P	DALI M3hAt 2x5P
NANOTTICA 1.2ft E-CON PC 1600/840	107508	x	107522	x
NANOTTICA 1.2ft E-CON PC 2200/840	107509	x	107523	x
NANOTTICA 1.4ft E-CON PC 3200/840	107510	107516	107524	107530
NANOTTICA 1.4ft E-CON PC 4400/840	107511	107517	107525	107531
NANOTTICA 1.4ft E-CON PC 6400/840	107512	107518	107526	107532
NANOTTICA 1.4ft E-CON PC 8000/840	110317	x	110319	x
NANOTTICA 1.5ft E-CON PC 4000/840	107513	107519	107527	107533
NANOTTICA 1.5ft E-CON PC 5500/840	107514	107520	107528	107534
NANOTTICA 1.5ft E-CON PC 8000/840	107515	107521	107529	107535
NANOTTICA 1.5ft E-CON PC 10000/840	110318	x	110320	x

NANOTTICA E-CON PCc DALI

Digital dimmable driver DALI, stainless clips (c)

Type	DALI 1x5P	DALI M3hAt 1x5P	DALI 2x5P	DALI M3hAt 2x5P
NANOTTICA 1.2ft E-CON PCc 1600/840	107580	x	107594	x
NANOTTICA 1.2ft E-CON PCc 2200/840	107581	x	107595	x
NANOTTICA 1.4ft E-CON PCc 3200/840	107582	107588	107596	107602
NANOTTICA 1.4ft E-CON PCc 4400/840	107583	107589	107597	107603
NANOTTICA 1.4ft E-CON PCc 6400/840	107584	107590	107598	107604
NANOTTICA 1.4ft E-CON PCc 8000/840	110329	x	110331	x
NANOTTICA 1.5ft E-CON PCc 4000/840	107585	107591	107599	107605
NANOTTICA 1.5ft E-CON PCc 5500/840	107586	107592	107600	107606
NANOTTICA 1.5ft E-CON PCc 8000/840	107587	107593	107601	107607
NANOTTICA 1.5ft E-CON PCc 10000/840	110330	x	110332	x

LEGEND

1x3P - a version featuring a non-dimmable driver and a single 3-pole external terminal block

1x5P - a version featuring a non-dimmable driver and a single 5-pole external terminal block

M3hAt 1x5P - emergency back-up source with operating time of 3 hours (SA) for permanent illumination with battery autotesting and a single 5-pole external terminal block

2x3P - a version featuring a non-dimmable driver, two 3-pole external terminal blocks and 3-wire connecting cables (1F), for continuous row installation

2x5P - a version featuring a non-dimmable driver, two 5-pole external terminal blocks and 5-wire connecting cables (3F), for continuous row installation

M3hAt 2x5P - emergency back-up source with operating time of 3 hours (SA) for permanent illumination with battery autotesting, two 5-pole external terminal blocks and 5-wire connecting cables (3F), for continuous row installation

DALI 1x5P - a version featuring a digitally dimmable driver and a single 5-pole external terminal block

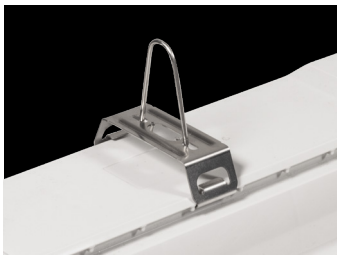
DALI M3hAt 1x5P - a version featuring a digitally dimmable driver, emergency back-up source with operating time of 3 hours (SA) for permanent illumination with battery autotesting and a single 5-pole external terminal block

DALI 2x5P - a version featuring a digitally dimmable driver, two 5-pole external terminal blocks and 5-wire connecting cables (DALI 1F), for continuous row installation

DALI M3hAt 2x5P - a version featuring a digitally dimmable driver, emergency back-up source with operating time of 3 hours (SA) for permanent illumination with battery autotesting, two 5-pole external terminal blocks and 5-wire connecting cables (DALI 1F), for continuous row installation

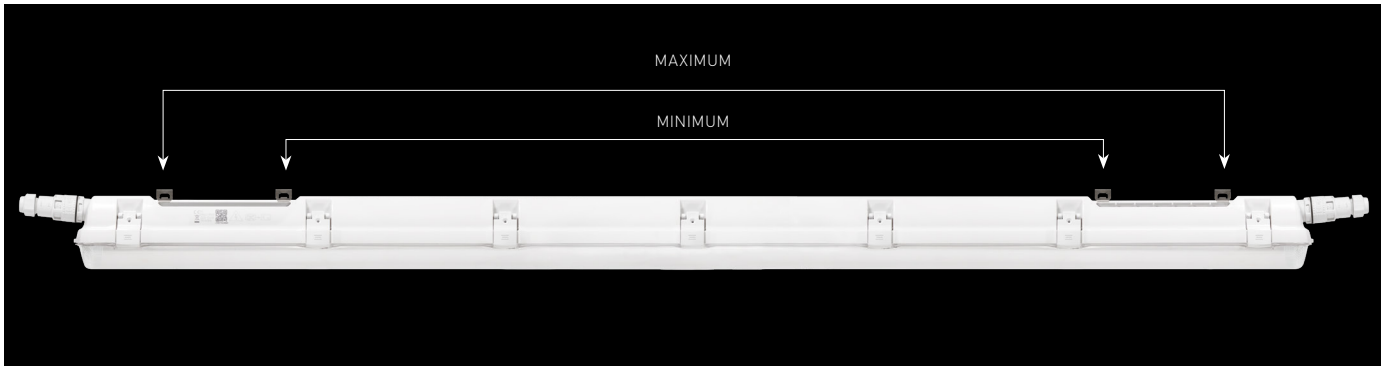
LIGHT FITTING ATTACHMENT

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 E-CON PC



LIGHT FITTING DETAILED VIEW

NANOTTICA E-CON PC

