

FUTURA NB



BIM
ready

... for storage rack lanes with high ceilings 10-15 m.

USE

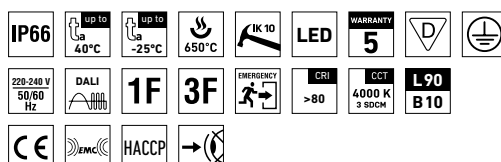
The light fitting with narrow emitting characteristics is suitable to illuminate storage rack lanes and narrow spaces with high ceilings. Its assembly height is 10-15 m.

The light fitting is resistant to dust, moisture and spouting water. The body and the diffuser made of polycarbonate (PC) have the increased resistance against deformation and impact.

Emissions in the environment of use may reduce the usability of the plastics; for more information see page 407.

ADVANTAGES

- Light fitting protection **IP66**
- Maximum ambient temperature up to **$t_a = 40^\circ\text{C}$**
- Lifetime: 50,000 hours / L90B10
- Lifetime: 100,000 hours / L80B10
- Diffuser: transparent polycarbonate (PC) = high mechanical resistance
- Body: grey polycarbonate with Al coolers (PC Al) = high mechanical resistance
- Up to 45 % lower electricity consumption when compared to tubes T5
- In DALI version possibility of constant luminous flux for whole lifetime (CLO)
- Constant luminous flux even in ambient temperature of -25°C
- Standard model - CRI > 80: 4000 K
- At request CRI > 80: 3000 K, 5000 K, 6500 K, CRI > 90: 3000 K, 4000 K, 5000 K, 6500 K
- It can be delivered in dimmable or emergency version
- It can be delivered with a grille to reduce the longitudinal UGR
- Through-wiring of up to 10 wires at body
- Certification: HACCP

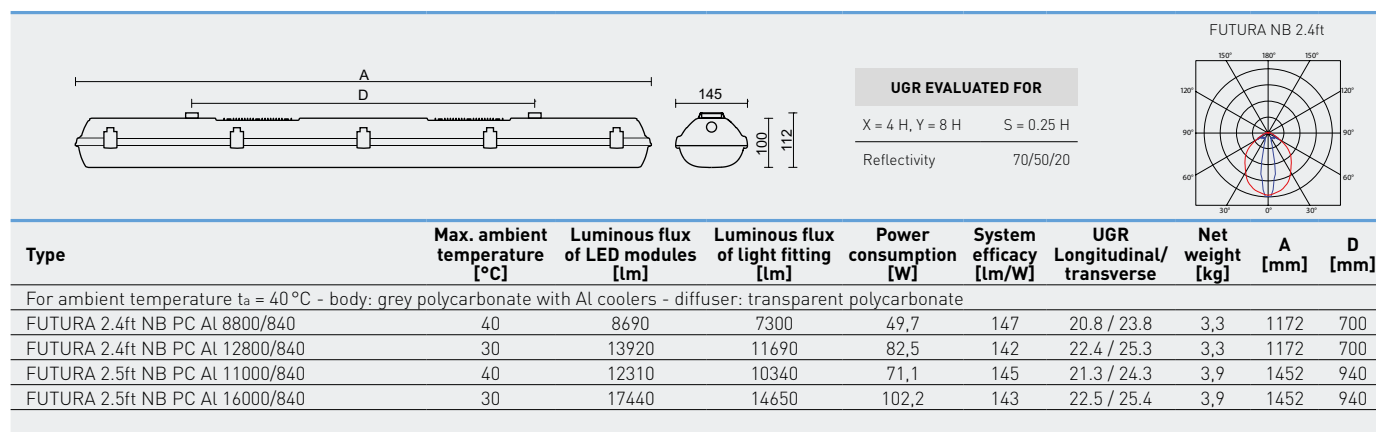


FUTURA NB PC Al, PCc Al



TECHNICAL DESCRIPTION

- Light fitting protection: IP66
- Maximum ambient temperature: $t_a = 40^\circ\text{C}$, Maximum ambient temperature: $t_a = 0-40^\circ\text{C}$ (version with emergency back-up M3hAt)
- Maximum system efficacy: 147 lm/W
- The watt and lumen values can vary by $\pm 7,5\%$
- Standard model - CRI > 80: 4000 K
- MacAdam = 3 SDCM
- Lifetime: 50,000 hours / L90B10
- Lifetime: 100,000 hours / L80B10
- Diffuser: transparent polycarbonate (PC), UV stable, impact-resistant
- Body: grey polycarbonate with Al coolers (PC Al), UV stable, impact-resistant
- Reflector: parabolic polished aluminium with narrow emitting characteristics (NB - narrow beam)
- Clips: polyamide + 15 % glass fibre or stainless steel + polyamide
- Sealing: polyurethane (PUR), foamed body groove
- Cable glands: screwed PG 13.5
- Distance part: polyamide + 10 % glass fibre
- Terminal block: screwless, three-pole (basic version)
- Installation: package contains stainless hooks and stainless brackets
- Electric equipment: LED modules, current driver or current driver DALI



FUTURA NB PC Al

Non-dimmable driver - plastic clips

Code	Type	1F	3F	M3hAt	3F M3hAt
78060	FUTURA 2.4ft NB PC Al 8800/840	78160	78360	109434	109436
78070	FUTURA 2.4ft NB PC Al 12800/840	78170	78370	x	x
78090	FUTURA 2.5ft NB PC Al 11000/840	78190	78390	109435	109437
78080	FUTURA 2.5ft NB PC Al 16000/840	78180	78380	x	x

FUTURA NB PCc Al

Non-dimmable driver - stainless clips (c)

Code	Type	1F	3F	M3hAt	3F M3hAt
78260	FUTURA 2.4ft NB PCc Al 8800/840	78560	78660	109442	109444
78270	FUTURA 2.4ft NB PCc Al 12800/840	78570	78670	x	x
78290	FUTURA 2.5ft NB PCc Al 11000/840	78590	78690	109443	109445
78280	FUTURA 2.5ft NB PCc Al 16000/840	78580	78680	x	x

FUTURA NB PC Al DALI

Digital dimmable driver DALI - plastic clips

Code	Type	1F	3F	M3hAt	3F M3hAt
78063	FUTURA 2.4ft NB PC Al 8800/840 DALI	78163	78363	109438	109440
78073	FUTURA 2.4ft NB PC Al 12800/840 DALI	78173	78373	x	x
78093	FUTURA 2.5ft NB PC Al 11000/840 DALI	78193	78393	109439	109441
78083	FUTURA 2.5ft NB PC Al 16000/840 DALI	78183	78383	x	x

FUTURA NB PCc Al DALI

Digital dimmable driver DALI - stainless clips (c)

Code	Type	1F	3F	M3hAt	3F M3hAt
78263	FUTURA 2.4ft NB PCc Al 8800/840 DALI	78563	78663	109446	109448
78273	FUTURA 2.4ft NB PCc Al 12800/840 DALI	78573	78673	x	x
78293	FUTURA 2.5ft NB PCc Al 11000/840 DALI	78593	78693	109447	109449
78283	FUTURA 2.5ft NB PCc Al 16000/840 DALI	78583	78683	x	x

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 with the use of screws and stainless brackets
b) Suspension with the use of stainless hooks



LIGHT FITTING DETAILED VIEW

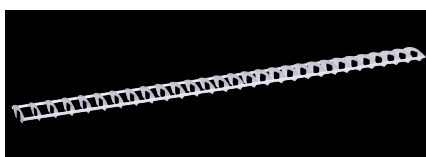
FUTURA NB



ACCESSORIES

Grid FUTURA NB

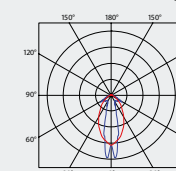
Additional grid for reducing the longitudinal UGR for FUTURA NB lamps.
The grid reduces the glare value in the longitudinal direction (see the luminance curve below).



Code	Type	Description	Weight [kg]
11989	MNB 2.4	grid FUTURA 2.4ft NB	0,36
11990	MNB 2.5	grid FUTURA 2.5ft NB	0,45



FUTURA NB 2.4ft (with grid)



UGR EVALUATED FOR

X = 4 H, Y = 8 H S = 0.25 H
Reflectivity 70/50/20

Type	Max. ambient temperature [°C]	Luminous flux of LED modules [lm]	Luminous flux of light fitting [lm]	Power consumption [W]	System efficacy [lm/W]	UGR Longitudinal/transverse	Net weight [kg]	A [mm]	D [mm]
Change of the values for lamp variants with grid									
FUTURA 2.4ft NB PC Al 8800/840	40	8690	5650	49,7	114	20.8 / 19.5	3,3	1172	700
FUTURA 2.4ft NB PC Al 12800/840	30	13920	9050	82,5	110	22.3 / 21.0	3,3	1172	700
FUTURA 2.5ft NB PC Al 11000/840	40	12310	8000	71,1	113	21.2 / 20.0	3,9	1452	940
FUTURA 2.5ft NB PC Al 16000/840	30	17440	11340	102,2	111	22.4 / 21.1	3,9	1452	940