



Hazardous
Lighting Solutions LTD



FUTURA NB

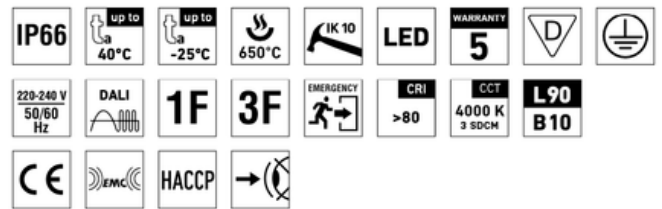
For storage rack lanes with high ceilings 10-15 m.



INDUSTRIAL BUILDINGS



WAREHOUSES



MECHANICAL FEATURES

- Diffuser:** Transparent polycarbonate
- Ingress protection:** IP66
- Impact strength:** IK10
- Mounting:** Suitable for suspended, ceiling, wall, and surface mounting
- Housing:** Grey polycarbonate

ELECTRICAL FEATURES

- Electric equipment:** LED modules, current driver, or current DALI driver
- Wiring:** Optional through wiring (up to 10 wires inside light fitting)
- Certification:** HACCP

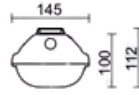
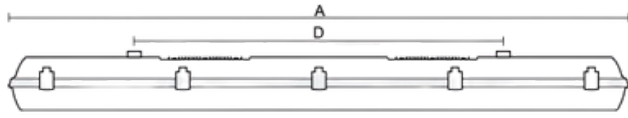
WORK PARAMETERS

- Maximum ambient temperature:** -40 °C to 40 °C
- Lifetime:** 50,000 hours / L90B10 100,000 hours / L80B10

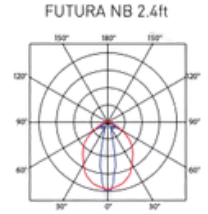
PHOTOMETRICAL PARAMETERS

- CRI:** >80 standard
- Colour temperature:** CRI > 80: 4000 K
- At request:** CRI > 80: 3000 K, 5000 K, 6500 K, CRI > 90: 3000 K, 4000 K, 5000 K, 6500 K

TYPES COMPARISON



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]	Net weight [kg]	A [mm]	D [mm]
FUTURA 2.4ft NB PC Al 8800/840*	40	9080	7630	52.7	145	33	1172	700
FUTURA 2.4ft NB PC Al 12800/840	30	13100	11000	74.8	147	33	1172	700
FUTURA 2.5ft NB PC Al 11000/840*	40	11160	9370	65.1	144	39	1452	940
FUTURA 2.5ft NB PC Al 16000/840	30	16090	13520	93.0	145	39	1452	940

*) Also available with MultiLumen function:

Type	Step 2			Step 3			Step 4		
	Luminous flux [lm]	Power [W]	Efficacy [lm/W]	Luminous flux [lm]	Power [W]	Efficacy [lm/W]	Luminous flux [lm]	Power [W]	Efficacy [lm/W]
FUTURA 2.4ft NB PC Al 8800/840 ML	6640	448	148	5590	371	151	4520	296	153
FUTURA 2.5ft NB PC Al 11000/840 ML	8130	556	146	6870	464	148	5570	373	149

FUTURA NB PC AI

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

FUTURA NB PCc AI

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

FUTURA NB PC AI DALI

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

FUTURA NB PCc AI DALI

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

LIGHT FITTING ATTACHMENT

- a) Directly to a ceiling with the use of screws and stainless brackets
- b) Suspension with the use of stainless hooks

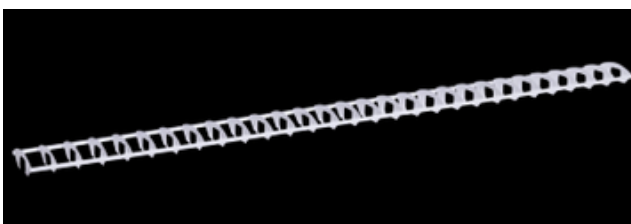


LIGHT FITTING DETAILED ATTACHMENT



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