

FUTURA ABS



**BIM
ready**

... dustproof, waterproof and chemically resistant.

USE

The light fitting is suitable for the environment where ammoniac fumes, lixivants, alkaline compounds and hot water (hydrolyses) can be present. We recommend this light fitting for agricultural operations, stables, car washing lines, warehouses, mechanical workshops and laboratories without a danger of explosion of gas, dust and combustible fumes.

The light fitting is resistant to dust, moisture and spouting water. The body made of ABS and the diffuser made of AC have increased chemical resistance.

(It is necessary to consider exhalation in the air which can reduce the usability of the plastic and aluminium at installations in an aggressive environment, see also page 367).

Always open the cover of the light fitting out of an environment with aggressive volatile substances.

ADVANTAGES

- Light fitting protection **IP66**
- Maximum ambient temperature up to **t_a = 50 °C**
- Lifetime: 50,000 hours / L90B10
- Diffuser: translucent acrylate (AC) = high chemical resistance
- Body: dark grey ABS with Al coolers (ABS Al) = high chemical 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
- Through-wiring of up to 10 wires at body
- Certification: EPD, ENEC, CB, (except RED), HACCP

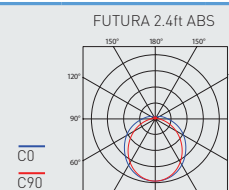
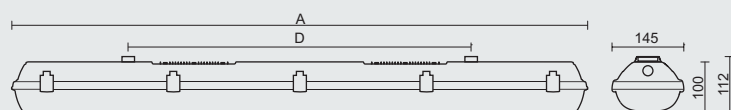


FUTURA ABS Al, ABSc Al



TECHNICAL DESCRIPTION

- Light fitting protection: IP66
- Maximum ambient temperature: $t_a = 50^\circ\text{C}$, Maximum ambient temperature: $t_a = 0-25^\circ\text{C}$ (version with emergency back-up source for 1 or 3 hours; M1h, M3h)
- Maximum system efficacy: 154 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
- Diffuser: translucent acrylate (AC), UV stable, chemically resistant
- Body: dark grey ABS with Al coolers (ABS Al), UV stable, chemically resistant
- Reflector: steel sheet, white colour (RAL 9003)
- 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



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]
For ambient temperature $t_a = 50^\circ\text{C}$ - body: dark grey ABS with Al coolers - diffuser: translucent acrylate									
FUTURA 2.2ft ABS Al 2600/840	50	2600	2290	16,1	142	23.1 / 20.9	1,45	612	475
FUTURA 2.2ft ABS Al 3200/840	50	3100	2730	19,1	143	23.7 / 21.5	1,45	612	475
FUTURA 2.2ft ABS Al 4400/840	45	4300	3780	26,0	145	24.9 / 22.6	1,45	612	475
FUTURA 2.4ft ABS Al 5200/840	50	5230	4600	30,3	152	23.3 / 21.3	2,45	1172	700
FUTURA 2.4ft ABS Al 6400/840	50	6240	5490	36,3	151	24.0 / 21.9	2,45	1172	700
FUTURA 2.4ft ABS Al 8800/840	45	8690	7650	49,7	154	25.1 / 23.1	2,45	1172	700
FUTURA 2.4ft ABS Al 12800/840	35	13920	12250	82,5	148	26.5 / 24.7	2,65	1172	700
FUTURA 2.5ft ABS Al 6500/840	50	6500	5720	37,1	154	23.4 / 21.4	2,95	1452	940
FUTURA 2.5ft ABS Al 8000/840	50	7770	6840	44,4	154	24.0 / 22.0	2,95	1452	940
FUTURA 2.5ft ABS Al 11000/840	45	12310	10830	71,1	152	25.6 / 23.6	2,95	1452	940
FUTURA 2.5ft ABS Al 16000/840	35	17440	15350	102,2	150	26.5 / 24.7	3,25	1452	940

77020 FUTURA 2.2ft ABS Al 3200/840 = suitable replacement for T8 fl. tube light fitting PRIMA 218 – 2 × 18W

77050 FUTURA 2.4ft ABS Al 6400/840 = suitable replacement for T8 fl. tube light fitting PRIMA 236 – 2 × 36W

77080 FUTURA 2.5ft ABS Al 8000/840 = suitable replacement for T8 fl. tube light fitting PRIMA 258 – 2 × 58W

FUTURA ABS Al

Non-dimmable driver - plastic clips

Code	Type	1F	3F	M1h	M3h	3F M1h	3F M3h
77010	FUTURA 2.2ft ABS Al 2600/840	x	x	77014	77015	x	x
77020	FUTURA 2.2ft ABS Al 3200/840	x	x	77024	77025	x	x
77030	FUTURA 2.2ft ABS Al 4400/840	x	x	77034	77035	x	x
77040	FUTURA 2.4ft ABS Al 5200/840	77140	77340	77044	77045	77344	77345
77050	FUTURA 2.4ft ABS Al 6400/840	77150	77350	77054	77055	77354	77355
77060	FUTURA 2.4ft ABS Al 8800/840	77160	77360	77064	77065	77364	77365
77410	FUTURA 2.4ft ABS Al 12800/840	77411	77412	x	x	x	x
77070	FUTURA 2.5ft ABS Al 6500/840	77170	77370	77074	77075	77374	77375
77080	FUTURA 2.5ft ABS Al 8000/840	77180	77380	77084	77085	77384	77385
77090	FUTURA 2.5ft ABS Al 11000/840	77190	77390	77094	77095	77394	77395
77420	FUTURA 2.5ft ABS Al 16000/840	77421	77422	x	x	x	x

FUTURA ABSc Al

Non-dimmable driver - stainless clips (c)

Code	Type	1F	3F	M1h	M3h	3F M1h	3F M3h
77210	FUTURA 2.2ft ABSc Al 2600/840	x	x	77214	77215	x	x
77220	FUTURA 2.2ft ABSc Al 3200/840	x	x	77224	77225	x	x
77230	FUTURA 2.2ft ABSc Al 4400/840	x	x	77234	77235	x	x
77240	FUTURA 2.4ft ABSc Al 5200/840	77540	77640	77244	77245	77644	77645
77250	FUTURA 2.4ft ABSc Al 6400/840	77550	77650	77254	77255	77654	77655
77260	FUTURA 2.4ft ABSc Al 8800/840	77560	77660	77264	77265	77664	77665
77430	FUTURA 2.4ft ABSc Al 12800/840	77431	77432	x	x	x	x
77270	FUTURA 2.5ft ABSc Al 6500/840	77570	77670	77274	77275	77674	77675
77280	FUTURA 2.5ft ABSc Al 8000/840	77580	77680	77284	77285	77684	77685
77290	FUTURA 2.5ft ABSc Al 11000/840	77590	77690	77294	77295	77694	77695
77440	FUTURA 2.5ft ABSc Al 16000/840	77441	77442	x	x	x	x

FUTURA ABS AI DALI

Digital dimmable driver DALI - plastic clips

Code	Type	1F	3F	M1h	M3h	3F M1h	3F M3h
77013	FUTURA 2.2ft ABS AI 2600/840 DALI	x	x	77017	77019	x	x
77023	FUTURA 2.2ft ABS AI 3200/840 DALI	x	x	77027	77029	x	x
77033	FUTURA 2.2ft ABS AI 4400/840 DALI	x	x	77037	77039	x	x
77043	FUTURA 2.4ft ABS AI 5200/840 DALI	77143	77343	77047	77049	77347	77349
77053	FUTURA 2.4ft ABS AI 6400/840 DALI	77153	77353	77057	77059	77357	77359
77063	FUTURA 2.4ft ABS AI 8800/840 DALI	77163	77363	77067	77069	77367	77369
77450	FUTURA 2.4ft ABS AI 12800/840 DALI	77451	77452	x	x	x	x
77073	FUTURA 2.5ft ABS AI 6500/840 DALI	77173	77373	77077	77079	77377	77379
77083	FUTURA 2.5ft ABS AI 8000/840 DALI	77183	77383	77087	77089	77387	77389
77093	FUTURA 2.5ft ABS AI 11000/840 DALI	77193	77393	77097	77099	77397	77399
77460	FUTURA 2.5ft ABS AI 16000/840 DALI	77461	77462	x	x	x	x

FUTURA ABSc AI DALI

Digital dimmable driver DALI - stainless clips (c)

Code	Type	1F	3F	M1h	M3h	3F M1h	3F M3h
77213	FUTURA 2.2ft ABSc AI 2600/840 DALI	x	x	77217	77219	x	x
77223	FUTURA 2.2ft ABSc AI 3200/840 DALI	x	x	77227	77229	x	x
77233	FUTURA 2.2ft ABSc AI 4400/840 DALI	x	x	77237	77239	x	x
77243	FUTURA 2.4ft ABSc AI 5200/840 DALI	77543	77643	77247	77249	77647	77649
77253	FUTURA 2.4ft ABSc AI 6400/840 DALI	77553	77653	77257	77259	77657	77659
77263	FUTURA 2.4ft ABSc AI 8800/840 DALI	77563	77663	77267	77269	77667	77669
77470	FUTURA 2.4ft ABSc AI 12800/840 DALI	77471	77472	x	x	x	x
77273	FUTURA 2.5ft ABSc AI 6500/840 DALI	77573	77673	77277	77279	77677	77679
77283	FUTURA 2.5ft ABSc AI 8000/840 DALI	77583	77683	77287	77289	77687	77689
77293	FUTURA 2.5ft ABSc AI 11000/840 DALI	77593	77693	77297	77299	77697	77699
77480	FUTURA 2.5ft ABSc AI 16000/840 DALI	77481	77482	x	x	x	x

Example of type marking: 77667 = FUTURA 2.4ft ABSc AI 8800/840 DALI **3F M1h**

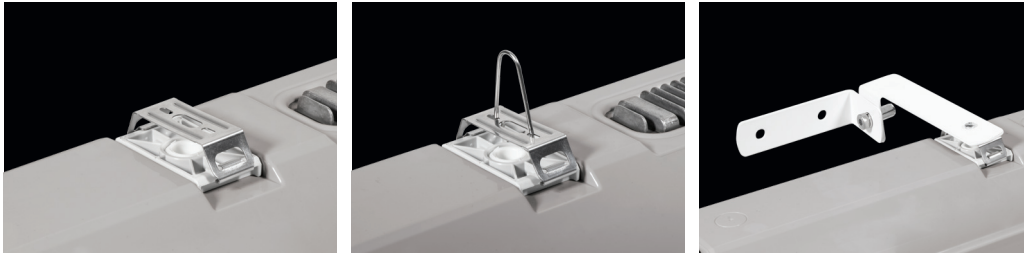
LEGEND

- 1F** 1-phase 3 core through-wiring in the luminaire
- 3F** 3-phase 5 core through-wiring in the luminaire
- M1h** emergency back-up source with 1 hour operating time for maintained emergency illumination
- M3h** emergency back-up source with 3 hour operating time for maintained emergency illumination
- 3F Mxh** 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 Mxh** 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

**LIGHT FITTING DETAILED VIEW**

FUTURA ABS

