

# FUTURA HE ABS



**169**  
lm/W

... high efficiency, with sulphur-resistant LED chips, 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.

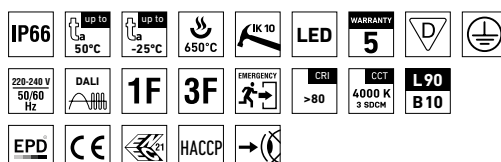
The light fitting is resistant to dust, moisture and spouting water. The body made of ABS and the diffuser made of AC have increased chemical resistance.

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

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<sub>a</sub> = 50 °C**
- Lifetime: 50,000 hours / L90B10
- Lifetime: 100,000 hours / L80B10
- Diffuser: translucent acrylate (AC) = high chemical resistance
- Body: dark grey ABS with Al coolers (ABS Al) = high chemical resistance
- Up to 55 % 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
- It can be delivered in dimmable or emergency version
- Through-wiring of up to 10 wires at body
- **Chips with high sulphur resistance**
- Long lifetime due to low thermal resistance
- Certification: EPD, ENEC, HACCP

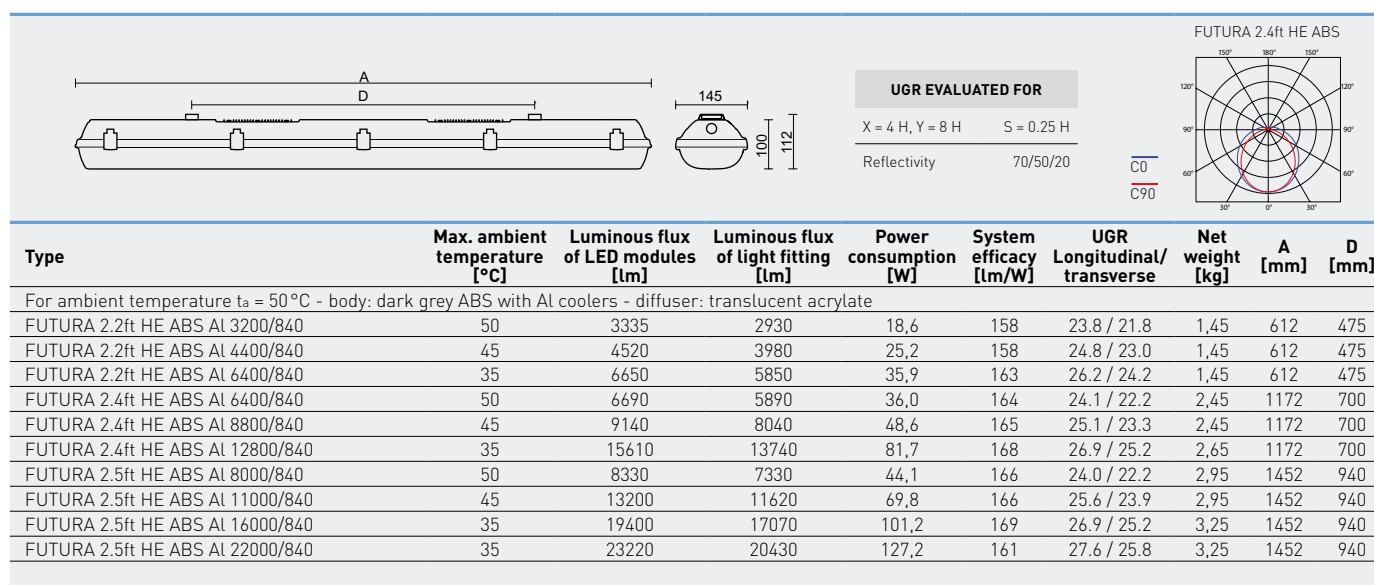


## FUTURA HE ABS Al, ABS Sc Al



## TECHNICAL DESCRIPTION

- Light fitting protection: IP66
- Maximum ambient temperature:  $t_a = 50^\circ\text{C}$ , Maximum ambient temperature:  $t_a = 0-40^\circ\text{C}$  (version with emergency back-up M3hAt)
- Maximum system efficacy: 169 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: 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 sulphur-resistant modules, current driver or current driver DALI



## FUTURA HE ABS Al

Code	Type
11200	FUTURA 2.2ft HE ABS Al 3200/840
11210	FUTURA 2.2ft HE ABS Al 4400/840
11203	FUTURA 2.2ft HE ABS Al 6400/840
11206	FUTURA 2.4ft HE ABS Al 6400/840
11220	FUTURA 2.4ft HE ABS Al 8800/840
11216	FUTURA 2.4ft HE ABS Al 12800/840
11219	FUTURA 2.5ft HE ABS Al 8000/840
11230	FUTURA 2.5ft HE ABS Al 11000/840
11241	FUTURA 2.5ft HE ABS Al 16000/840
103423	FUTURA 2.5ft HE ABS Al 22000/840

## Non-dimmable driver - plastic clips

1F	3F	M3hAt	3F M3hAt
x	x	109342	x
x	x	109343	x
x	x	109344	x
11207	11208	109345	109349
11221	11223	109346	109350
11217	11218	x	x
11222	11228	109347	109351
11231	11233	109348	109352
11242	11243	x	x
103426	103427	x	x

## FUTURA HE ABS Sc Al

Code	Type
11246	FUTURA 2.2ft HE ABS Sc Al 3200/840
11240	FUTURA 2.2ft HE ABS Sc Al 4400/840
11249	FUTURA 2.2ft HE ABS Sc Al 6400/840
11259	FUTURA 2.4ft HE ABS Sc Al 6400/840
11250	FUTURA 2.4ft HE ABS Sc Al 8800/840
11276	FUTURA 2.4ft HE ABS Sc Al 12800/840
11279	FUTURA 2.5ft HE ABS Sc Al 8000/840
11260	FUTURA 2.5ft HE ABS Sc Al 11000/840
11301	FUTURA 2.5ft HE ABS Sc Al 16000/840
103430	FUTURA 2.5ft HE ABS Sc Al 22000/840

## Non-dimmable driver - stainless clips (c)

1F	3F	M3hAt	3F M3hAt
x	x	109353	x
x	x	109354	x
x	x	109355	x
11262	11268	109356	109360
11251	11253	109357	109361
11277	11278	x	x
11282	11288	109358	109362
11261	11263	109359	109363
11302	11303	x	x
103431	103425	x	x

## FUTURA HE ABS AL DALI

Digital dimmable driver DALI - plastic clips

Code	Type	1F	3F	M3hAt	3F M3hAt
11306	FUTURA 2.2ft HE ABS AL 3200/840 DALI	x	x	109364	x
11270	FUTURA 2.2ft HE ABS AL 4400/840 DALI	x	x	109365	x
11309	FUTURA 2.2ft HE ABS AL 6400/840 DALI	x	x	109366	x
11319	FUTURA 2.4ft HE ABS AL 6400/840 DALI	11322	11328	109367	109371
11280	FUTURA 2.4ft HE ABS AL 8800/840 DALI	11281	11283	109368	109372
11333	FUTURA 2.4ft HE ABS AL 12800/840 DALI	11334	11335	x	x
11336	FUTURA 2.5ft HE ABS AL 8000/840 DALI	11337	11338	109369	109373
11290	FUTURA 2.5ft HE ABS AL 11000/840 DALI	11291	11293	109370	109374
11343	FUTURA 2.5ft HE ABS AL 16000/840 DALI	11344	11345	x	x
103424	FUTURA 2.5ft HE ABS AL 22000/840 DALI *	103428	103429	x	x

## FUTURA HE ABSc AL DALI

Digital dimmable driver DALI - stainless clips (c)

Code	Type	1F	3F	M3hAt	3F M3hAt
11346	FUTURA 2.2ft HE ABSc AL 3200/840 DALI	x	x	109375	x
11300	FUTURA 2.2ft HE ABSc AL 4400/840 DALI	x	x	109376	x
11349	FUTURA 2.2ft HE ABSc AL 6400/840 DALI	x	x	109377	x
11352	FUTURA 2.4ft HE ABSc AL 6400/840 DALI	11353	11354	109378	109382
11310	FUTURA 2.4ft HE ABSc AL 8800/840 DALI	11311	11313	109379	109383
11359	FUTURA 2.4ft HE ABSc AL 12800/840 DALI	11360	11361	x	x
11362	FUTURA 2.5ft HE ABSc AL 8000/840 DALI	11363	11364	109380	109384
11320	FUTURA 2.5ft HE ABSc AL 11000/840 DALI	11321	11323	109381	109385
11369	FUTURA 2.5ft HE ABSc AL 16000/840 DALI	11370	11371	x	x
103432	FUTURA 2.5ft HE ABSc AL 22000/840 DALI *	103433	103434	x	x

\*) The FUTURA 2.5ft HE 22000/840 DALI luminaire contains 2pcs DALI drivers, so it has 2 DALI control addresses.

## 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



## LIGHT FITTING DETAILED VIEW

FUTURA HE ABS

