

FUTURA E-CON



... with external terminal block IP66, MultiLumen.

USE

The light fitting is suitable for industrial indoor and outdoor roofed spaces, warehouses, sports areas, workshops, garages, transport terminals, utility structures and laboratories without a danger of explosion of gas, dust and combustible fumes.

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

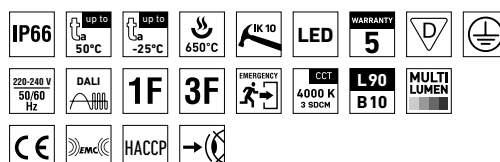
The light fitting is resistant to dust, moisture and spouting water. The body and the diffuser made of polycarbonate (PC) have the increased resistance against deformation and impact.

Emissions in the environment of use may reduce the usability of the plastics; for more information see page 421.

ADVANTAGES

- Light fitting protection **IP66**
- Maximum ambient temperature up to **$t_a = 50^\circ\text{C}$**
- Lifetime: 50,000 hours / L90B10
- Lifetime: 100 000 hours / L80B10
- Diffuser: translucent 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
- Constant luminous flux even in ambient temperature of -25°C

- **MultiLumen (ML)** function enables simple switching between up to four luminous fluxes via driver's DIP switch
- 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
- Optional delivery in emergency version
- Eliminated risk of mechanical and electrostatic damage to LED chips
- Through-wiring of up to 5 wires at body

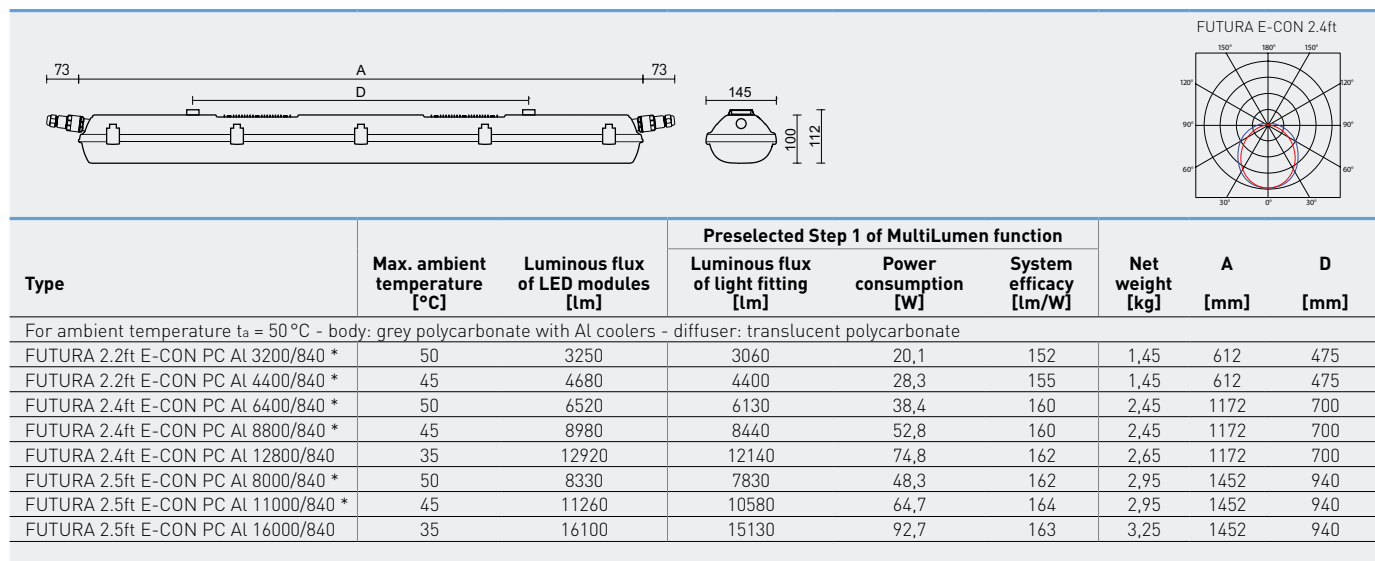


FUTURA E-CON PC Al, PCc Al



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: 167 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
- **MultiLumen (ML):** luminous flux variable in up to 4 steps. In the standard version preset maximum luminous flux.
- Diffuser: translucent polycarbonate (PC), UV stable, impact-resistant
- Body: grey polycarbonate with Al coolers (PC Al), UV stable, impact-resistant
- Reflector: steel sheet, white colour (RAL 9003)
- Clips: polyamide + 15 % glass fibre or stainless steel + polyamide
- Sealing: polyurethane (PUR), foamed body groove
- Distance part: polyamide + 10 % glass fibre
- **External terminal block** 3 or 5-pole, conductor cross-sectional area: 1.5 or 2.5 mm²
- Installation: package contains stainless hooks and stainless brackets



*) 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]
FUTURA 2.2ft E-CON PC Al 3200/840 ML	2650	17,3	153	2240	14,5	154	1810	12,3	147
FUTURA 2.2ft E-CON PC Al 4400/840 ML	3830	24,2	158	3240	20,3	160	2610	16,4	159
FUTURA 2.4ft E-CON PC Al 6400/840 ML	5310	32,9	161	4470	27,4	163	3630	22,0	165
FUTURA 2.4ft E-CON PC Al 8800/840 ML	7320	44,9	163	6190	37,4	166	5020	30,1	167
FUTURA 2.5ft E-CON PC Al 8000/840 ML	6790	41,5	164	5740	34,6	166	4640	27,9	166
FUTURA 2.5ft E-CON PC Al 11000/840 ML	9170	55,6	165	7730	46,3	167	6260	37,4	167

FUTURA E-CON PC Al

Type	1x3P	1x5P	M3hAt 1x5P	2x3P	2x5P	M3hAt 2x5P
FUTURA 2.2ft E-CON PC Al 3200/840 ML	107776	107784	107792	x	x	x
FUTURA 2.2ft E-CON PC Al 4400/840 ML	107777	107785	107793	x	x	x
FUTURA 2.4ft E-CON PC Al 6400/840 ML	107778	107786	107794	107798	107804	107810
FUTURA 2.4ft E-CON PC Al 8800/840 ML	107779	107787	107795	107799	107805	107811
FUTURA 2.4ft E-CON PC Al 12800/840	107780	107788	x	107800	107806	x
FUTURA 2.5ft E-CON PC Al 8000/840 ML	107781	107789	107796	107801	107807	107812
FUTURA 2.5ft E-CON PC Al 11000/840 ML	107782	107790	107797	107802	107808	107813
FUTURA 2.5ft E-CON PC Al 16000/840	107783	107791	x	107803	107809	x

Non-dimmable driver, plastic clips

FUTURA E-CON PCc Al

Type	1x3P	1x5P	M3hAt 1x5P	2x3P	2x5P	M3hAt 2x5P
FUTURA 2.2ft E-CON PCc Al 3200/840 ML	107838	107846	107854	x	x	x
FUTURA 2.2ft E-CON PCc Al 4400/840 ML	107839	107847	107855	x	x	x
FUTURA 2.4ft E-CON PCc Al 6400/840 ML	107840	107848	107856	107860	107866	107872
FUTURA 2.4ft E-CON PCc Al 8800/840 ML	107841	107849	107857	107861	107867	107873
FUTURA 2.4ft E-CON PCc Al 12800/840	107842	107850	x	107862	107868	x
FUTURA 2.5ft E-CON PCc Al 8000/840 ML	107843	107851	107858	107863	107869	107874
FUTURA 2.5ft E-CON PCc Al 11000/840 ML	107844	107852	107859	107864	107870	107875
FUTURA 2.5ft E-CON PCc Al 16000/840	107845	107853	x	107865	107871	x

Non-dimmable driver, stainless clips (c)

FUTURA E-CON PC Al DALI

Digital dimmable driver DALI, plastic clips

Type	DALI 1x5P	DALI M3hAt 1x5P	DALI 2x5P	DALI M3hAt 2x5P
FUTURA 2.2ft E-CON PC Al 3200/840	107814	107822	x	x
FUTURA 2.2ft E-CON PC Al 4400/840	107815	107823	x	x
FUTURA 2.4ft E-CON PC Al 6400/840	107816	107824	107828	107834
FUTURA 2.4ft E-CON PC Al 8800/840	107817	107825	107829	107835
FUTURA 2.4ft E-CON PC Al 12800/840	107818	x	107830	x
FUTURA 2.5ft E-CON PC Al 8000/840	107819	107826	107831	107836
FUTURA 2.5ft E-CON PC Al 11000/840	107820	107827	107832	107837
FUTURA 2.5ft E-CON PC Al 16000/840	107821	x	107833	x

FUTURA E-CON PCc Al DALI

Digital dimmable driver DALI, stainless clips (c)

Type	DALI 1x5P	DALI M3hAt 1x5P	DALI 2x5P	DALI M3hAt 2x5P
FUTURA 2.2ft E-CON PCc Al 3200/840	107876	107884	x	x
FUTURA 2.2ft E-CON PCc Al 4400/840	107877	107885	x	x
FUTURA 2.4ft E-CON PCc Al 6400/840	107878	107886	107890	107896
FUTURA 2.4ft E-CON PCc Al 8800/840	107879	107887	107891	107897
FUTURA 2.4ft E-CON PCc Al 12800/840	107880	x	107892	x
FUTURA 2.5ft E-CON PCc Al 8000/840	107881	107888	107893	107898
FUTURA 2.5ft E-CON PCc Al 11000/840	107882	107889	107894	107899
FUTURA 2.5ft E-CON PCc Al 16000/840	107883	x	107895	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



LIGHT FITTING DETAILED VIEW

FUTURA E-CON

