FUTURA



... dustproof, waterproof and impact-resistant.

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.

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.

(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. 275).

ADVANTAGES

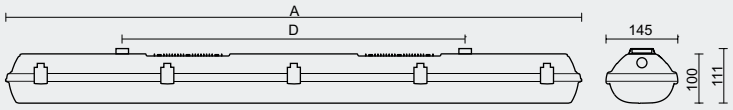
- Light fitting protection **IP66**
- Maximum ambient temperature up to t_a **= 50 °C**
- Lifetime: 50,000 hours / L90B10
- Diffuser: translucent polycarbonate (PC) = high mechanical resistance
- Body: grey polycarbonate with Al coolers (PC Al) = high mechanical resistance
- Up to 45 % lower electricity consumption when compared to tubes T5
- 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: ENEC, CB, HACCP

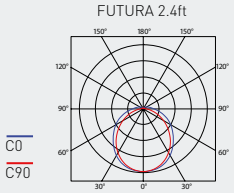
FUTURA PC Al, PCc Al



TECHNICAL DESCRIPTION

- Light fitting protection: IP66
- Maximum ambient temperature: t_a = 50 °C, Maximum ambient temperature: t_a = 25 °C (version with emergency back-up source for 1 or 3 hours; M1h, M3h)
- Maximum system efficacy: 144 lm/W
- The watt and lumen values can vary by ± 7,5 %
- Standard model - CRI > 80: 4000 K
- MacAdam = 3 SDCM
- Lifetime: 50,000 hours / L90B10
- 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
- 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





Code	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]
	For ambient temperature t_a = 50 °C - body: grey polycarbonate with Al coolers - diffuser: translucent polycarbonate								
75010	FUTURA 2.2ft PC Al 2600/840	50	2600	2420	18	134	1,5	612	475
75020	FUTURA 2.2ft PC Al 3200/840	50	3200	2980	22	135	1,5	612	475
75030	FUTURA 2.2ft PC Al 4400/840	45	4400	4090	30	136	1,7	612	475
75040	FUTURA 2.4ft PC Al 5200/840	50	5200	4840	35	138	2,9	1172	700
75050	FUTURA 2.4ft PC Al 6400/840	50	6400	5950	42	142	2,9	1172	700
75060	FUTURA 2.4ft PC Al 8800/840	45	8800	8180	58	141	3,0	1172	700
75410	FUTURA 2.4ft PC Al 12800/840	35	12800	11900	85	140	3,0	1172	700
75070	FUTURA 2.5ft PC Al 6500/840	50	6500	6050	44	138	3,8	1452	940
75080	FUTURA 2.5ft PC Al 8000/840	50	8000	7440	53	140	3,9	1452	940
75090	FUTURA 2.5ft PC Al 11000/840	45	11000	10230	71	144	3,9	1452	940
75420	FUTURA 2.5ft PC Al 16000/840	35	16000	14880	106	140	3,9	1452	940

75020 FUTURA 2.2ft PC Al 3200/840 = suitable replacement for T8 fl. tube light fitting PRIMA 218 – 2×18W
75050 FUTURA 2.4ft PC Al 6400/840 = suitable replacement for T8 fl. tube light fitting PRIMA 236 – 2×36W
75080 FUTURA 2.5ft PC Al 8000/840 = suitable replacement for T8 fl. tube light fitting PRIMA 258 – 2×58W

FUTURA PC Al

Non-dimmable driver - plastic clips

Code	Type	1F	3F	M1h	M3h	3F M1h	3F M3h
75010	FUTURA 2.2ft PC Al 2600/840	x	x	75014	75015	x	x
75020	FUTURA 2.2ft PC Al 3200/840	x	x	75024	75025	x	x
75030	FUTURA 2.2ft PC Al 4400/840	x	x	75034	75035	x	x
75040	FUTURA 2.4ft PC Al 5200/840	75140	75340	75044	75045	75344	75345
75050	FUTURA 2.4ft PC Al 6400/840	75150	75350	75054	75055	75354	75355
75060	FUTURA 2.4ft PC Al 8800/840	75160	75360	75064	75065	75364	75365
75410	FUTURA 2.4ft PC Al 12800/840	75411	75412	x	x	x	x
75070	FUTURA 2.5ft PC Al 6500/840	75170	75370	75074	75075	75374	75375
75080	FUTURA 2.5ft PC Al 8000/840	75180	75380	75084	75085	75384	75385
75090	FUTURA 2.5ft PC Al 11000/840	75190	75390	75094	75095	75394	75395
75420	FUTURA 2.5ft PC Al 16000/840	75421	75422	x	x	x	x

FUTURA PCc Al

Non-dimmable driver - stainless clips (c)

Code	Type	1F	3F	M1h	M3h	3F M1h	3F M3h
75210	FUTURA 2.2ft PCc Al 2600/840	x	x	75214	75215	x	x
75220	FUTURA 2.2ft PCc Al 3200/840	x	x	75224	75225	x	x
75230	FUTURA 2.2ft PCc Al 4400/840	x	x	75234	75235	x	x
75240	FUTURA 2.4ft PCc Al 5200/840	75540	75640	75244	75245	75644	75645
75250	FUTURA 2.4ft PCc Al 6400/840	75550	75650	75254	75255	75654	75655
75260	FUTURA 2.4ft PCc Al 8800/840	75560	75660	75264	75265	75664	75665
75430	FUTURA 2.4ft PCc Al 12800/840	75431	75432	x	x	x	x
75270	FUTURA 2.5ft PCc Al 6500/840	75570	75670	75274	75275	75674	75675
75280	FUTURA 2.5ft PCc Al 8000/840	75580	75680	75284	75285	75684	75685
75290	FUTURA 2.5ft PCc Al 11000/840	75590	75690	75294	75295	75694	75695
75440	FUTURA 2.5ft PCc Al 16000/840	75441	75442	x	x	x	x

Example of type marking: 75665 = FUTURA 2.4ft PCc Al 8800/840 **3F M3h**

FUTURA PC Al DALI

Digital dimmable driver DALI - plastic clips

Code	Type	1F	3F	M1h	M3h	3F M1h	3F M3h
75013	FUTURA 2.2ft PC Al 2600/840 DALI	x	x	75017	75019	x	x
75023	FUTURA 2.2ft PC Al 3200/840 DALI	x	x	75027	75029	x	x
75033	FUTURA 2.2ft PC Al 4400/840 DALI	x	x	75037	75039	x	x
75043	FUTURA 2.4ft PC Al 5200/840 DALI	75143	75343	75047	75049	75347	75349
75053	FUTURA 2.4ft PC Al 6400/840 DALI	75153	75353	75057	75059	75357	75359
75063	FUTURA 2.4ft PC Al 8800/840 DALI	75163	75363	75067	75069	75367	75369
75450	FUTURA 2.4ft PC Al 12800/840 DALI	75451	75452	x	x	x	x
75073	FUTURA 2.5ft PC Al 6500/840 DALI	75173	75373	75077	75079	75377	75379
75083	FUTURA 2.5ft PC Al 8000/840 DALI	75183	75383	75087	75089	75387	75389
75093	FUTURA 2.5ft PC Al 11000/840 DALI	75193	75393	75097	75099	75397	75399
75460	FUTURA 2.5ft PC Al 16000/840 DALI	75461	75462	x	x	x	x

FUTURA PCc Al DALI

Digital dimmable driver DALI - stainless clips (c)

Code	Type	1F	3F	M1h	M3h	3F M1h	3F M3h
75213	FUTURA 2.2ft PCc Al 2600/840 DALI	x	x	75217	75219	x	x
75223	FUTURA 2.2ft PCc Al 3200/840 DALI	x	x	75227	75229	x	x
75233	FUTURA 2.2ft PCc Al 4400/840 DALI	x	x	75237	75239	x	x
75243	FUTURA 2.4ft PCc Al 5200/840 DALI	75543	75643	75247	75249	75647	75649
75253	FUTURA 2.4ft PCc Al 6400/840 DALI	75553	75653	75257	75259	75657	75659
75263	FUTURA 2.4ft PCc Al 8800/840 DALI	75563	75663	75267	75269	75667	75669
75470	FUTURA 2.4ft PCc Al 12800/840 DALI	75471	75472	x	x	x	x
75273	FUTURA 2.5ft PCc Al 6500/840 DALI	75573	75673	75277	75279	75677	75679
75283	FUTURA 2.5ft PCc Al 8000/840 DALI	75583	75683	75287	75289	75687	75689
75293	FUTURA 2.5ft PCc Al 11000/840 DALI	75593	75693	75297	75299	75697	75699
75480	FUTURA 2.5ft PCc Al 16000/840 DALI	75481	75482	x	x	x	x

Example of type marking: 75687 = FUTURA 2.5ft PCc Al 8000/840 DALI **3F M1h**

LEGEND

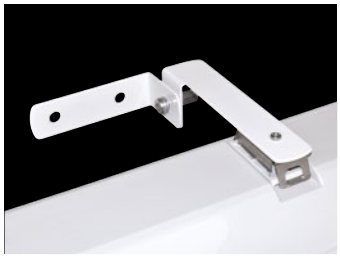
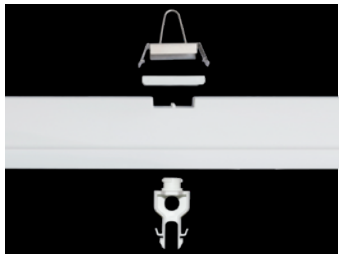
1F 1-phase 3 core through-wiring in the luminaire
3F 3-phase 5 core through-wiring in the luminaire
M1h emergency back-up source with 1 hour operating time for maintained emergency illumination
M3h emergency back-up source with 3 hour operating time for maintained emergency illumination
3F Mxh 3-phase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



LIGHT FITTING DETAILED VIEW

FUTURA





