

FUTURA

















INDUSTRIAL
PLASTIC
DUSTPROOF
WATERPROOF
IMPACT-RESISTANT



FUTURA – industrial plastic LED light fitting



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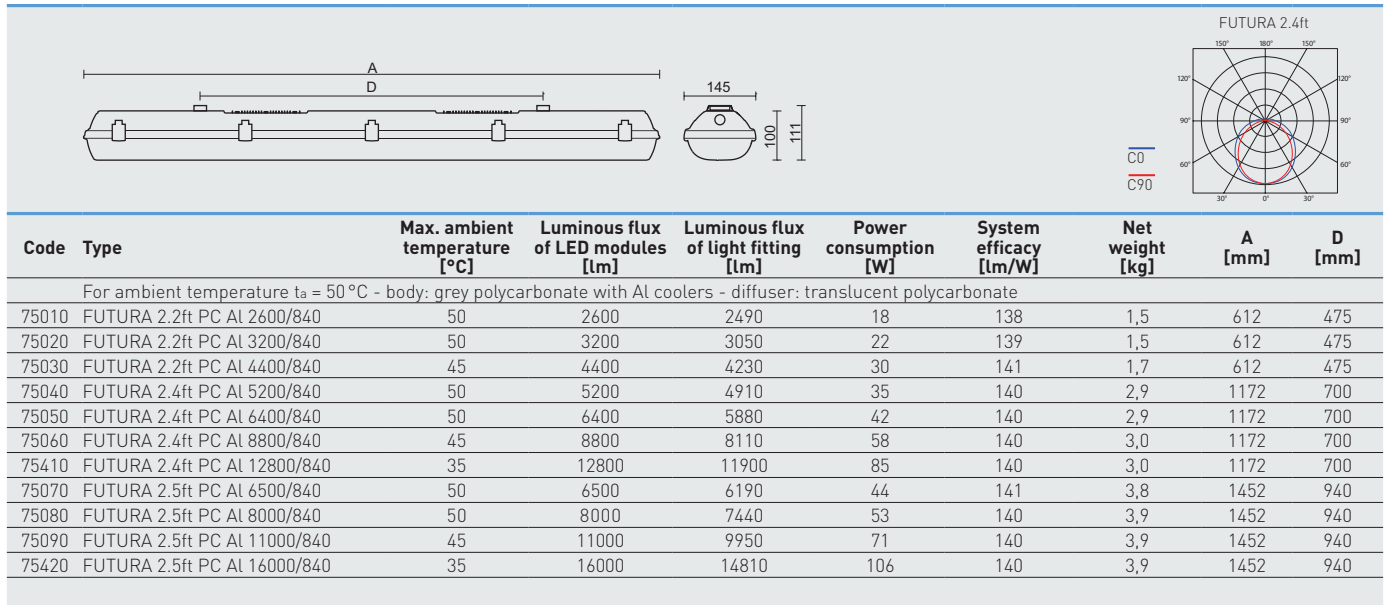


FUTURA PC Al, PCc Al



TECHNICAL DESCRIPTION

- Light fitting protection: IP66
- Maximum ambient temperature: $t_a = 50^\circ\text{C}$, Maximum ambient temperature: $t_a = 25^\circ\text{C}$ (version with emergency back-up source for 1 or 3 hours; M1h, M3h)
- Maximum system efficacy: 141 lm/W
- The watt and lumen values can vary by $\pm 7,5\%$
- Standard model - CRI > 80: 4000 K
- 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



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

Code Type		Digital dimmable driver DALI - plastic clips					
		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

Code Type		Digital dimmable driver DALI - stainless clips (c)					
		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

DALI – version with digital dimmable driver DALI
1F – 1 phase wiring cables for through-wiring
3F – 3 phase wiring cables for through-wiring

M1h – emergency back-up source with operating time of 1 hour (SA) for both permanent and emergency illumination

M3h – emergency back-up source with operating time of 3 hours (SA) for both permanent and emergency illumination

Batteries must be formatted before their putting into operation. Assembly instructions must be observed at 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

**LIGHT FITTING DETAILED VIEW**

FUTURA



FUTURA ES



153
lm/W

... Energy Saver.

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.

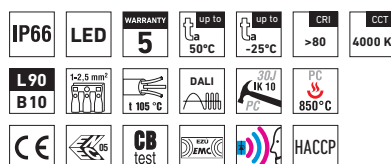
The light fitting is resistant to dust, moisture and spouting water. The body and the diffuser made of polycarbonate (PC) have the increased resistance against deformation and impact.

(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. 261).

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 50 % 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
- Certification: ENEC, CB, HACCP



FUTURA ES PC Al, PCc Al



TECHNICAL DESCRIPTION

- Light fitting protection: IP66
- Maximum ambient temperature: $t_a = 50^\circ\text{C}$, Maximum ambient temperature: $t_a = 25^\circ\text{C}$ (version with emergency back-up source for 1 or 3 hours; M1h, M3h)
- Maximum system efficacy: 153 lm/W
- The watt and lumen values can vary by $\pm 7,5\%$
- Standard model - CRI > 80: 4000 K
- 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 $t_a = 50^\circ\text{C}$ - body: grey polycarbonate with Al coolers - diffuser: translucent polycarbonate									
10010	FUTURA 2.2ft ES PC Al 2600/840	50	2600	2420	16	151	1,5	612	475
10020	FUTURA 2.2ft ES PC Al 3200/840	50	3200	2900	19	153	1,5	612	475
10030	FUTURA 2.2ft ES PC Al 4400/840	45	4400	4090	27	151	1,7	612	475
10040	FUTURA 2.4ft ES PC Al 5200/840	50	5200	4840	32	151	2,9	1172	700
10050	FUTURA 2.4ft ES PC Al 6400/840	50	6400	5950	39	153	2,9	1172	700
10060	FUTURA 2.4ft ES PC Al 8800/840	45	8800	8180	54	151	3,0	1172	700
10070	FUTURA 2.4ft ES PC Al 12800/840	35	12800	11750	78	151	3,0	1172	700
10080	FUTURA 2.5ft ES PC Al 6500/840	50	6500	6050	40	151	3,8	1452	940
10090	FUTURA 2.5ft ES PC Al 8000/840	50	8000	7440	49	152	3,9	1452	940
10100	FUTURA 2.5ft ES PC Al 11000/840	45	11000	10160	67	152	3,9	1452	940
10110	FUTURA 2.5ft ES PC Al 16000/840	35	16000	14580	97	150	3,9	1452	940

10020 FUTURA 2.2ft ES PC Al 3200/840 = suitable replacement for T8 fl. tube light fitting PRIMA 218 - 2 x 18W
 10050 FUTURA 2.4ft ES PC Al 6400/840 = suitable replacement for T8 fl. tube light fitting PRIMA 236 - 2 x 36W
 10090 FUTURA 2.5ft ES PC Al 8000/840 = suitable replacement for T8 fl. tube light fitting PRIMA 258 - 2 x 58W

FUTURA ES PC Al

Non-dimmable driver - plastic clips

Code	Type	1F	3F	M1h	M3h	3F M1h	3F M3h
10010	FUTURA 2.2ft ES PC Al 2600/840	x	x	10014	10015	x	x
10020	FUTURA 2.2ft ES PC Al 3200/840	x	x	10024	10025	x	x
10030	FUTURA 2.2ft ES PC Al 4400/840	x	x	10034	10035	x	x
10040	FUTURA 2.4ft ES PC Al 5200/840	10041	10043	10044	10045	10046	10047
10050	FUTURA 2.4ft ES PC Al 6400/840	10051	10053	10054	10055	10056	10057
10060	FUTURA 2.4ft ES PC Al 8800/840	10061	10063	10064	10065	10066	10067
10070	FUTURA 2.4ft ES PC Al 12800/840	10071	10073	x	x	x	x
10080	FUTURA 2.5ft ES PC Al 6500/840	10081	10083	10084	10085	10086	10087
10090	FUTURA 2.5ft ES PC Al 8000/840	10091	10093	10094	10095	10096	10097
10100	FUTURA 2.5ft ES PC Al 11000/840	10101	10103	10104	10105	10106	10107
10110	FUTURA 2.5ft ES PC Al 16000/840	10111	10113	x	x	x	x

FUTURA ES PCc Al

Non-dimmable driver - stainless clips [c]

Code	Type	1F	3F	M1h	M3h	3F M1h	3F M3h
10120	FUTURA 2.2ft ES PCc Al 2600/840	x	x	10124	10125	x	x
10130	FUTURA 2.2ft ES PCc Al 3200/840	x	x	10134	10135	x	x
10140	FUTURA 2.2ft ES PCc Al 4400/840	x	x	10144	10145	x	x
10150	FUTURA 2.4ft ES PCc Al 5200/840	10151	10153	10154	10155	10156	10157
10160	FUTURA 2.4ft ES PCc Al 6400/840	10161	10163	10164	10165	10166	10167
10170	FUTURA 2.4ft ES PCc Al 8800/840	10171	10173	10174	10175	10176	10177
10180	FUTURA 2.4ft ES PCc Al 12800/840	10181	10183	x	x	x	x
10190	FUTURA 2.5ft ES PCc Al 6500/840	10191	10193	10194	10195	10196	10197
10200	FUTURA 2.5ft ES PCc Al 8000/840	10201	10203	10204	10205	10206	10207
10210	FUTURA 2.5ft ES PCc Al 11000/840	10211	10213	10214	10215	10216	10217
10220	FUTURA 2.5ft ES PCc Al 16000/840	10221	10223	x	x	x	x

Example of type marking: 10177 = FUTURA 2.4ft ES PCc Al 8800/840 3F M3h

FUTURA ES PC Al DALI

Digital dimmable driver DALI - plastic clips

Code	Type	1F	3F	M1h	M3h	3F M1h	3F M3h
10230	FUTURA 2.2ft ES PC Al 2600/840 DALI	x	x	10234	10235	x	x
10240	FUTURA 2.2ft ES PC Al 3200/840 DALI	x	x	10244	10245	x	x
10250	FUTURA 2.2ft ES PC Al 4400/840 DALI	x	x	10254	10255	x	x
10260	FUTURA 2.4ft ES PC Al 5200/840 DALI	10261	10263	10264	10265	10266	10267
10270	FUTURA 2.4ft ES PC Al 6400/840 DALI	10271	10273	10274	10275	10276	10277
10280	FUTURA 2.4ft ES PC Al 8800/840 DALI	10281	10283	10284	10285	10286	10287
10290	FUTURA 2.4ft ES PC Al 12800/840 DALI	10291	10293	x	x	x	x
10300	FUTURA 2.5ft ES PC Al 6500/840 DALI	10301	10303	10304	10305	10306	10307
10310	FUTURA 2.5ft ES PC Al 8000/840 DALI	10311	10313	10314	10315	10316	10317
10320	FUTURA 2.5ft ES PC Al 11000/840 DALI	10321	10323	10324	10325	10326	10327
10330	FUTURA 2.5ft ES PC Al 16000/840 DALI	10331	10333	x	x	x	x

FUTURA ES PCc Al DALI

Digital dimmable driver DALI - stainless clips (c)

Code	Type	1F	3F	M1h	M3h	3F M1h	3F M3h
10340	FUTURA 2.2ft ES PCc Al 2600/840 DALI	x	x	10344	10345	x	x
10350	FUTURA 2.2ft ES PCc Al 3200/840 DALI	x	x	10354	10355	x	x
10360	FUTURA 2.2ft ES PCc Al 4400/840 DALI	x	x	10364	10365	x	x
10370	FUTURA 2.4ft ES PCc Al 5200/840 DALI	10371	10373	10374	10375	10376	10377
10380	FUTURA 2.4ft ES PCc Al 6400/840 DALI	10381	10383	10384	10385	10386	10387
10390	FUTURA 2.4ft ES PCc Al 8800/840 DALI	10391	10393	10394	10395	10396	10397
10400	FUTURA 2.4ft ES PCc Al 12800/840 DALI	10401	10403	x	x	x	x
10410	FUTURA 2.5ft ES PCc Al 6500/840 DALI	10411	10413	10414	10415	10416	10417
10420	FUTURA 2.5ft ES PCc Al 8000/840 DALI	10421	10423	10424	10425	10426	10427
10430	FUTURA 2.5ft ES PCc Al 11000/840 DALI	10431	10433	10434	10435	10436	10437
10440	FUTURA 2.5ft ES PCc Al 16000/840 DALI	10441	10443	x	x	x	x

Example of type marking: 10426 = FUTURA 2.5ft ES PCc Al 8000/840 DALI **3F M1h**

LEGEND

DALI – version with digital dimmable driver DALI

1F – 1 phase wiring cables for through-wiring

3F – 3 phase wiring cables for through-wiring

M1h – emergency back-up source with operating time of 1 hour (SA) for both permanent and emergency illumination

M3h – emergency back-up source with operating time of 3 hours (SA) for both permanent and emergency illumination

Batteries must be formatted before their putting into operation. Assembly instructions must be observed at 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

**LIGHT FITTING DETAILED VIEW**

FUTURA ES



FUTURA HE



173
lm/W

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

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.

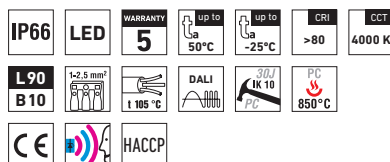
The light fitting is resistant to dust, moisture and spouting water. The body and the diffuser made of polycarbonate (PC) have the increased resistance against deformation and impact.

(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. 261).

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 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

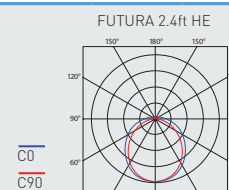
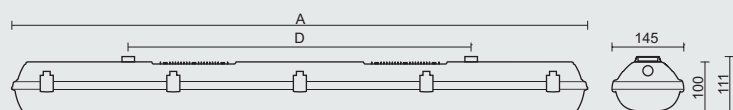


FUTURA HE PC AL, PCc AL



TECHNICAL DESCRIPTION

- Light fitting protection: IP66
- Maximum ambient temperature: $t_a = 50^\circ\text{C}$, Maximum ambient temperature: $t_a = 25^\circ\text{C}$ (version with emergency back-up source for 1 or 3 hours; M1h, M3h)
- Maximum system efficacy: 173 lm/W
- The watt and lumen values can vary by $\pm 7,5\%$
- Standard model - CRI > 80: 4000 K
- 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 sulphur-resistant 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 $t_a = 50^\circ\text{C}$ - body: grey polycarbonate with Al coolers - diffuser: translucent polycarbonate									
11000	FUTURA 2.2ft HE PC AL 3200/840	50	3200	3040	18	169	1,7	612	475
11010	FUTURA 2.2ft HE PC AL 4400/840	45	4400	3980	23	173	1,7	612	475
11003	FUTURA 2.2ft HE PC AL 6400/840	35	6400	6000	35	171	1,7	612	475
11006	FUTURA 2.4ft HE PC AL 6400/840	50	6400	6080	36	169	3,0	1172	700
11020	FUTURA 2.4ft HE PC AL 8800/840	45	8800	8130	47	173	3,0	1172	700
11016	FUTURA 2.4ft HE PC AL 12800/840	35	12800	12000	70	171	3,0	1172	700
11019	FUTURA 2.5ft HE PC AL 8000/840	50	8000	7600	45	169	3,9	1452	940
11030	FUTURA 2.5ft HE PC AL 11000/840	45	11000	10030	58	173	3,9	1452	940
11041	FUTURA 2.5ft HE PC AL 16000/840	35	16000	15000	87	172	3,9	1452	940

FUTURA HE PC AL

Non-dimmable driver - plastic clips

Code	Type	1F	3F	M1h	M3h	3F M1h	3F M3h
11000	FUTURA 2.2ft HE PC AL 3200/840	x	x	11001	11002	x	x
11010	FUTURA 2.2ft HE PC AL 4400/840	x	x	11014	11015	x	x
11003	FUTURA 2.2ft HE PC AL 6400/840	x	x	11004	11005	x	x
11006	FUTURA 2.4ft HE PC AL 6400/840	11007	11008	11009	11011	11012	11013
11020	FUTURA 2.4ft HE PC AL 8800/840	11021	11023	11024	11025	11026	11027
11016	FUTURA 2.4ft HE PC AL 12800/840	11017	11018	x	x	x	x
11019	FUTURA 2.5ft HE PC AL 8000/840	11022	11028	11029	11032	11038	11039
11030	FUTURA 2.5ft HE PC AL 11000/840	11031	11033	11034	11035	11036	11037
11041	FUTURA 2.5ft HE PC AL 16000/840	11042	11043	x	x	x	x

FUTURA HE PCc AL

Non-dimmable driver - stainless clips [c]

Code	Type	1F	3F	M1h	M3h	3F M1h	3F M3h
11046	FUTURA 2.2ft HE PCc AL 3200/840	x	x	11047	11048	x	x
11040	FUTURA 2.2ft HE PCc AL 4400/840	x	x	11044	11045	x	x
11049	FUTURA 2.2ft HE PCc AL 6400/840	x	x	11052	11058	x	x
11059	FUTURA 2.4ft HE PCc AL 6400/840	11062	11068	11069	11071	11072	11073
11050	FUTURA 2.4ft HE PCc AL 8800/840	11051	11053	11054	11055	11056	11057
11076	FUTURA 2.4ft HE PCc AL 12800/840	11077	11078	x	x	x	x
11079	FUTURA 2.5ft HE PCc AL 8000/840	11082	11088	11089	11092	11098	11099
11060	FUTURA 2.5ft HE PCc AL 11000/840	11061	11063	11064	11065	11066	11067
11101	FUTURA 2.5ft HE PCc AL 16000/840	11102	11103	x	x	x	x

FUTURA HE PC AL DALI

Digital dimmable driver DALI - plastic clips

Code	Type	1F	3F	M1h	M3h	3F M1h	3F M3h
11106	FUTURA 2.2ft HE PC AL 3200/840 DALI	x	x	11107	11108	x	x
11070	FUTURA 2.2ft HE PC AL 4400/840 DALI	x	x	11074	11075	x	x
11109	FUTURA 2.2ft HE PC AL 6400/840 DALI	x	x	11112	11118	x	x
11119	FUTURA 2.4ft HE PC AL 6400/840 DALI	11122	11128	11129	11130	11131	11132
11080	FUTURA 2.4ft HE PC AL 8800/840 DALI	11081	11083	11084	11085	11086	11087
11133	FUTURA 2.4ft HE PC AL 12800/840 DALI	11134	11135	x	x	x	x
11136	FUTURA 2.5ft HE PC AL 8000/840 DALI	11137	11138	11139	11140	11141	11142
11090	FUTURA 2.5ft HE PC AL 11000/840 DALI	11091	11093	11094	11095	11096	11097
11143	FUTURA 2.5ft HE PC AL 16000/840 DALI	11144	11145	x	x	x	x

FUTURA HE PCc AL DALI

Digital dimmable driver DALI - stainless clips (c)

Code	Type	1F	3F	M1h	M3h	3F M1h	3F M3h
11146	FUTURA 2.2ft HE PCc AL 3200/840 DALI	x	x	11147	11148	x	x
11100	FUTURA 2.2ft HE PCc AL 4400/840 DALI	x	x	11104	11105	x	x
11149	FUTURA 2.2ft HE PCc AL 6400/840 DALI	x	x	11150	11151	x	x
11152	FUTURA 2.4ft HE PCc AL 6400/840 DALI	11153	11154	11155	11156	11157	11158
11110	FUTURA 2.4ft HE PCc AL 8800/840 DALI	11111	11113	11114	11115	11116	11117
11159	FUTURA 2.4ft HE PCc AL 12800/840 DALI	11160	11161	x	x	x	x
11162	FUTURA 2.5ft HE PCc AL 8000/840 DALI	11163	11164	11165	11166	11167	11168
11120	FUTURA 2.5ft HE PCc AL 11000/840 DALI	11121	11123	11124	11125	11126	11127
11169	FUTURA 2.5ft HE PCc AL 16000/840 DALI	11170	11171	x	x	x	x

Example of type marking: 11116 = FUTURA 2.4ft HE PCc AL 8800/840 DALI **3F M1h**

LEGEND

DALI - version with digital dimmable driver DALI
1F - 1 phase wiring cables for through-wiring
3F - 3 phase wiring cables for through-wiring

M1h - emergency back-up source with operating time of 1 hour (SA) for both permanent and emergency illumination
M3h - emergency back-up source with operating time of 3 hours (SA) for both permanent and emergency illumination

Batteries must be formatted before their putting into operation. Assembly instructions must be observed at 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



LIGHT FITTING DETAILED VIEW

FUTURA HE



FUTURA VP



BIM
ready

... for outdoor spaces.

USE

The light fitting is suitable for the installation in outdoor spaces with shelter. It is equipped with a ventilation plug made of polyamide which eliminates the presence of condensation fumes and underpressure in the light fitting caused by ambient temperature fluctuations.

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 261].

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
- It can be delivered in dimmable or emergency version
- Through-wiring of up to 10 wires at body
- Certification: ENEC, CB, HACCP

IP66	LED	WARRANTY 5	up to 50°C	up to -25°C	CRI >80	CCT 4000 K
L90 B10	±2.5 mm²	1 105 °C	DALI	IK 10	PC 850 °C	
CE	05	CB test	EMC	HACCP		

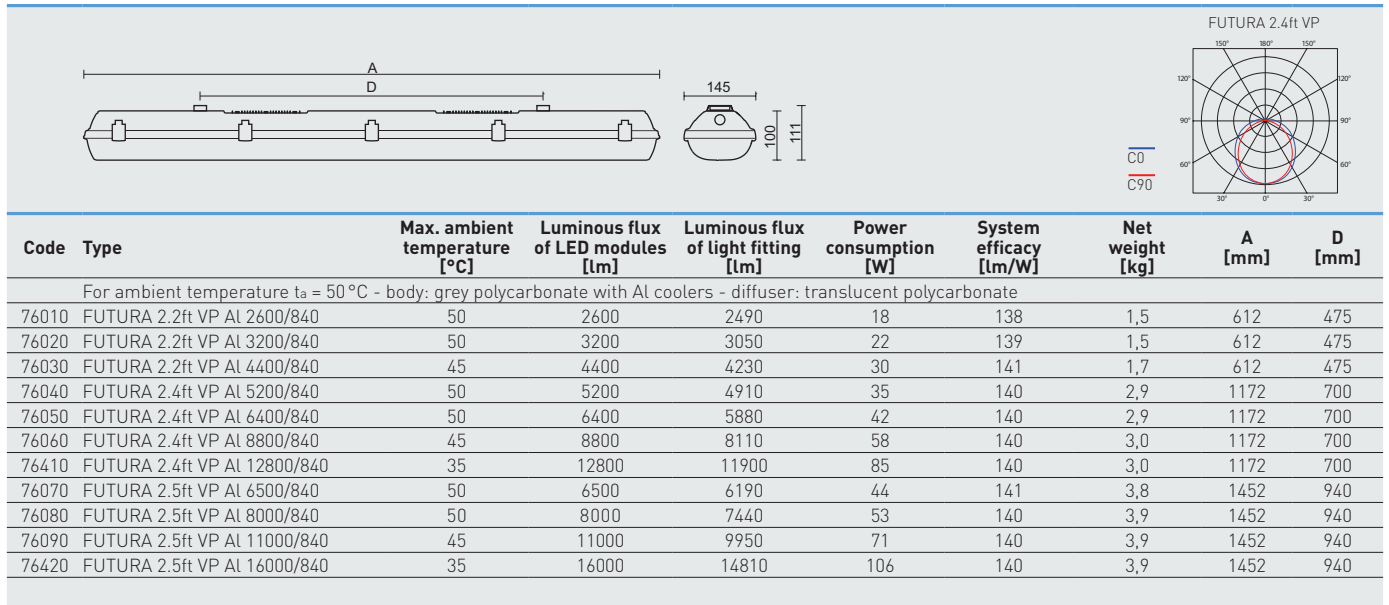
F	D			230 V 0/50/60 Hz	AC DC	
1F	3F	EMERGENCY				

FUTURA VP Al, VPc Al



TECHNICAL DESCRIPTION

- Light fitting protection: IP66
- Maximum ambient temperature: $t_a = 50^\circ\text{C}$, Maximum ambient temperature: $t_a = 25^\circ\text{C}$ (version with emergency back-up source for 1 or 3 hours; M1h, M3h)
- Maximum system efficacy: 141 lm/W
- The watt and lumen values can vary by $\pm 7,5\%$
- Standard model - CRI > 80: 4000 K
- Lifetime: 50,000 hours / L90B10
- Diffuser: translucent polycarbonate (PC), UV stable, impact-resistant
- Body: grey polycarbonate with Al coolers, UV stable, impact-resistant
- Reflector: steel sheet, white colour [RAL 9003]
- Ventilation plug: type BVPB-01 made of polyamide, size M12 \times 1.5
- 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



76020 FUTURA 2.2ft VP Al 3200/840 = suitable replacement for T8 fl. tube light fitting PRIMA 218 - 2 \times 18 W
 76050 FUTURA 2.4ft VP Al 6400/840 = suitable replacement for T8 fl. tube light fitting PRIMA 236 - 2 \times 36 W
 76080 FUTURA 2.5ft VP Al 8000/840 = suitable replacement for T8 fl. tube light fitting PRIMA 258 - 2 \times 58 W

FUTURA VP Al

Non-dimmable driver - plastic clips

Code	Type	1F	3F	M1h	M3h	3F M1h	3F M3h
76010	FUTURA 2.2ft VP Al 2600/840	x	x	76014	76015	x	x
76020	FUTURA 2.2ft VP Al 3200/840	x	x	76024	76025	x	x
76030	FUTURA 2.2ft VP Al 4400/840	x	x	76034	76035	x	x
76040	FUTURA 2.4ft VP Al 5200/840	76140	76340	76044	76045	76344	76345
76050	FUTURA 2.4ft VP Al 6400/840	76150	76350	76054	76055	76354	76355
76060	FUTURA 2.4ft VP Al 8800/840	76160	76360	76064	76065	76364	76365
76410	FUTURA 2.4ft VP Al 12800/840	76411	76412	x	x	x	x
76070	FUTURA 2.5ft VP Al 6500/840	76170	76370	76074	76075	76374	76375
76080	FUTURA 2.5ft VP Al 8000/840	76180	76380	76084	76085	76384	76385
76090	FUTURA 2.5ft VP Al 11000/840	76190	76390	76094	76095	76394	76395
76420	FUTURA 2.5ft VP Al 16000/840	76421	76422	x	x	x	x

FUTURA VPc Al

Non-dimmable driver - stainless clips (c)

Code	Type	1F	3F	M1h	M3h	3F M1h	3F M3h
76210	FUTURA 2.2ft VPc Al 2600/840	x	x	76214	76215	x	x
76220	FUTURA 2.2ft VPc Al 3200/840	x	x	76224	76225	x	x
76230	FUTURA 2.2ft VPc Al 4400/840	x	x	76234	76235	x	x
76240	FUTURA 2.4ft VPc Al 5200/840	76540	76640	76244	76245	76644	76645
76250	FUTURA 2.4ft VPc Al 6400/840	76550	76650	76254	76255	76654	76655
76260	FUTURA 2.4ft VPc Al 8800/840	76560	76660	76264	76265	76664	76665
76430	FUTURA 2.4ft VPc Al 12800/840	76431	76432	x	x	x	x
76270	FUTURA 2.5ft VPc Al 6500/840	76570	76670	76274	76275	76674	76675
76280	FUTURA 2.5ft VPc Al 8000/840	76580	76680	76284	76285	76684	76685
76290	FUTURA 2.5ft VPc Al 11000/840	76590	76690	76294	76295	76694	76695
76440	FUTURA 2.5ft VPc Al 16000/840	76441	76442	x	x	x	x

Example of type marking: 76664 = FUTURA 2.4ft VPc Al 8800/840 **3F M1h**

FUTURA VP Al DALI

Digital dimmable driver DALI - plastic clips

Code	Type	1F	3F	M1h	M3h	3F M1h	3F M3h
76013	FUTURA 2.2ft VP Al 2600/840 DALI	x	x	76017	76019	x	x
76023	FUTURA 2.2ft VP Al 3200/840 DALI	x	x	76027	76029	x	x
76033	FUTURA 2.2ft VP Al 4400/840 DALI	x	x	76037	76039	x	x
76043	FUTURA 2.4ft VP Al 5200/840 DALI	76143	76343	76047	76049	76347	76349
76053	FUTURA 2.4ft VP Al 6400/840 DALI	76153	76353	76057	76059	76357	76359
76063	FUTURA 2.4ft VP Al 8800/840 DALI	76163	76363	76067	76069	76367	76369
76450	FUTURA 2.4ft VP Al 12800/840 DALI	76451	76452	x	x	x	x
76073	FUTURA 2.5ft VP Al 6500/840 DALI	76173	76373	76077	76079	76377	76379
76083	FUTURA 2.5ft VP Al 8000/840 DALI	76183	76383	76087	76089	76387	76389
76093	FUTURA 2.5ft VP Al 11000/840 DALI	76193	76393	76097	76099	76397	76399
76460	FUTURA 2.5ft VP Al 16000/840 DALI	76461	76462	x	x	x	x

FUTURA VPc Al DALI

Digital dimmable driver DALI - stainless clips (c)

Code	Type	1F	3F	M1h	M3h	3F M1h	3F M3h
76213	FUTURA 2.2ft VPc Al 2600/840 DALI	x	x	76217	76219	x	x
76223	FUTURA 2.2ft VPc Al 3200/840 DALI	x	x	76227	76229	x	x
76233	FUTURA 2.2ft VPc Al 4400/840 DALI	x	x	76237	76239	x	x
76243	FUTURA 2.4ft VPc Al 5200/840 DALI	76543	76643	76247	76249	76647	76649
76253	FUTURA 2.4ft VPc Al 6400/840 DALI	76553	76653	76257	76259	76657	76659
76263	FUTURA 2.4ft VPc Al 8800/840 DALI	76563	76663	76267	76269	76667	76669
76470	FUTURA 2.4ft VPc Al 12800/840 DALI	76471	76472	x	x	x	x
76273	FUTURA 2.5ft VPc Al 6500/840 DALI	76573	76673	76277	76279	76677	76679
76283	FUTURA 2.5ft VPc Al 8000/840 DALI	76583	76683	76287	76289	76687	76689
76293	FUTURA 2.5ft VPc Al 11000/840 DALI	76593	76693	76297	76299	76697	76699
76480	FUTURA 2.5ft VPc Al 16000/840 DALI	76481	76482	x	x	x	x

Example of type marking: 76667 = FUTURA 2.4ft VPc Al 8800/840 DALI **3F M1h**

LEGEND

DALI – version with digital dimmable driver DALI**1F** – 1 phase wiring cables for through-wiring**3F** – 3 phase wiring cables for through-wiring**M1h** – emergency back-up source with operating time of 1 hour (SA) for both permanent and emergency illumination**M3h** – emergency back-up source with operating time of 3 hours (SA) for both permanent and emergency illumination

Batteries must be formatted before their putting into operation. Assembly instructions must be observed at installation.

LIGHT FITTING ATTACHMENT

- a) Directly to a ceiling 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 VP



FUTURA NB



BIM
ready

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

USE

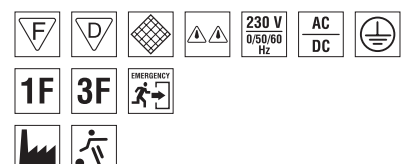
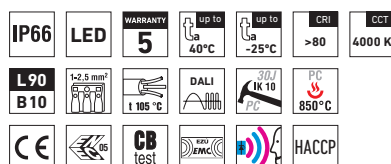
The light fitting with narrow emitting characteristics is suitable to illuminate storage rack lanes and narrow spaces with high ceilings. Its assembly height is 10-15 m.

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 261).

ADVANTAGES

- Light fitting protection **IP66**
- Maximum ambient temperature up to **t_a = 40 °C**
- Lifetime: 50,000 hours / L90B10
- Diffuser: transparent 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
- It can be delivered in dimmable or emergency version
- It can be delivered with a grille to reduce the longitudinal UGR
- Through-wiring of up to 10 wires at body
- Certification: ENEC, CB, HACCP



FUTURA NB PC AL, PCc AL



TECHNICAL DESCRIPTION

- Light fitting protection: IP66
- Maximum ambient temperature: $t_a = 40^\circ\text{C}$, Maximum ambient temperature: $t_a = 25^\circ\text{C}$ (version with emergency back-up source for 1 or 3 hours; M1h, M3h)
- Maximum system efficacy: 131 lm/W
- The watt and lumen values can vary by $\pm 7,5\%$
- Standard model - CRI > 80: 4000 K
- Lifetime: 50,000 hours / L90B10
- Diffuser: transparent polycarbonate (PC), UV stable, impact-resistant
- Body: grey polycarbonate with Al coolers (PC AL), UV stable, impact-resistant
- Reflector: parabolic polished aluminium with narrow emitting characteristics (NB - narrow beam)
- 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 $t_a = 40^\circ\text{C}$ - body: grey polycarbonate with Al coolers - diffuser: transparent polycarbonate									
78060	FUTURA 2.4ft NB PC AL 8800/840	40	8800	7460	58	129	3,3	1172	700
78070	FUTURA 2.4ft NB PC AL 12800/840	30	12800	11070	85	130	3,3	1172	700
78090	FUTURA 2.5ft NB PC AL 11000/840	40	11000	9130	71	129	3,9	1452	940
78080	FUTURA 2.5ft NB PC AL 16000/840	30	16000	13840	106	131	3,9	1452	940

FUTURA NB PC AL

Code	Type
78060	FUTURA 2.4ft NB PC AL 8800/840
78070	FUTURA 2.4ft NB PC AL 12800/840
78090	FUTURA 2.5ft NB PC AL 11000/840
78080	FUTURA 2.5ft NB PC AL 16000/840

Non-dimmable driver - plastic clips

	1F	3F	M1h	M3h	3F M1h	3F M3h
78160	78360	78064	78065	78364	78365	
78170	78370	x	x	x	x	
78190	78390	78094	78095	78394	78395	
78180	78380	x	x	x	x	

FUTURA NB PCc AL

Code	Type
78260	FUTURA 2.4ft NB PCc AL 8800/840
78270	FUTURA 2.4ft NB PCc AL 12800/840
78290	FUTURA 2.5ft NB PCc AL 11000/840
78280	FUTURA 2.5ft NB PCc AL 16000/840

Non-dimmable driver - stainless clips (c)

	1F	3F	M1h	M3h	3F M1h	3F M3h
78560	78660	78264	78265	78664	78665	
78570	78670	x	x	x	x	
78590	78690	78294	78295	78694	78695	
78580	78680	x	x	x	x	

FUTURA NB PC AL DALI

Code	Type
78063	FUTURA 2.4ft NB PC AL 8800/840 DALI
78073	FUTURA 2.4ft NB PC AL 12800/840 DALI
78093	FUTURA 2.5ft NB PC AL 11000/840 DALI
78083	FUTURA 2.5ft NB PC AL 16000/840 DALI

Digital dimmable driver DALI - plastic clips

	1F	3F	M1h	M3h	3F M1h	3F M3h
78163	78363	78067	78069	78367	78369	
78173	78373	x	x	x	x	
78193	78393	78097	78099	78397	78399	
78183	78383	x	x	x	x	

FUTURA NB PCc AL DALI

Code	Type
78263	FUTURA 2.4ft NB PCc AL 8800/840 DALI
78273	FUTURA 2.4ft NB PCc AL 12800/840 DALI
78293	FUTURA 2.5ft NB PCc AL 11000/840 DALI
78283	FUTURA 2.5ft NB PCc AL 16000/840 DALI

Digital dimmable driver DALI - stainless clips (c)

	1F	3F	M1h	M3h	3F M1h	3F M3h
78563	78663	78267	78269	78667	78669	
78573	78673	x	x	x	x	
78593	78693	78297	78299	78697	78699	
78583	78683	x	x	x	x	

Example of type marking: 78669 = FUTURA 2.4ft NB PCc AL 8800/840 DALI 3F M3h

LEGEND

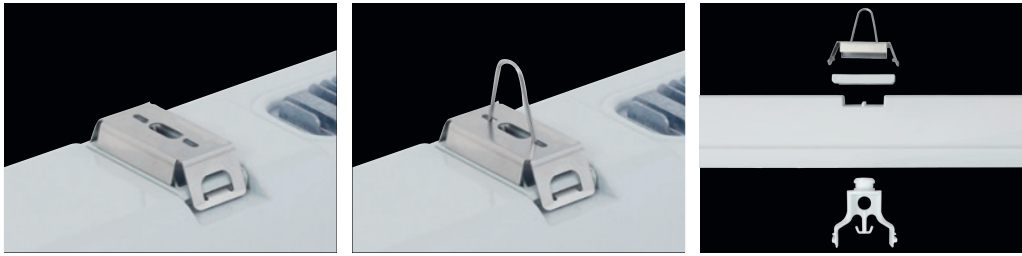
- DALI** - version with digital dimmable driver DALI
- 1F** - 1 phase wiring cables for through-wiring
- 3F** - 3 phase wiring cables for through-wiring

- M1h** - emergency back-up source with operating time of 1 hour (SA) for both permanent and emergency illumination
- M3h** - emergency back-up source with operating time of 3 hours (SA) for both permanent and emergency illumination

Batteries must be formatted before their putting into operation. Assembly instructions must be observed at installation.

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 VIEW

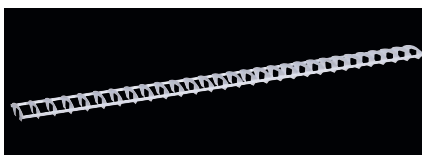
FUTURA NB



ACCESSORIES

Grid FUTURA NB

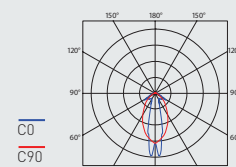
Additional grid for reducing the longitudinal UGR for FUTURA NB lamps.
The grid reduces the glare value in the longitudinal direction to below 19 (see the luminance curve below).



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



FUTURA NB 2.4ft (with grid)



Code	Type	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]
Change of the values for lamp variants with grid								
78060	FUTURA 2.4ft NB PC Al 8800/840	8800	5850	58	101	3,7	1172	700
78070	FUTURA 2.4ft NB PC Al 12800/840	12800	8680	85	102	3,7	1172	700
78090	FUTURA 2.5ft NB PC Al 11000/840	11000	7250	71	102	4,4	1452	940
78080	FUTURA 2.5ft NB PC Al 16000/840	16000	10850	106	102	4,4	1452	940

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.

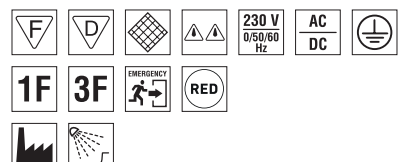
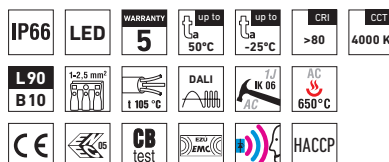
(It is necessary to consider exhalation in the air which can reduce the usability of the plastic and aluminium at installations in an aggressive environment, see also page 261).

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
- It can be delivered in dimmable or emergency version
- Through-wiring of up to 10 wires at body
- Certification: 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: $t_a = 25^\circ\text{C}$ (version with emergency back-up source for 1 or 3 hours; M1h, M3h)
- Maximum system efficacy: 138 lm/W
- The watt and lumen values can vary by $\pm 7,5\%$
- Standard model - CRI > 80: 4000 K
- 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

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 $t_a = 50^\circ\text{C}$ - body: dark grey ABS with Al coolers - diffuser: translucent acrylate									
77010	FUTURA 2.2ft ABS Al 2600/840	50	2600	2300	18	128	1,5	612	475
77020	FUTURA 2.2ft ABS Al 3200/840	50	3200	2850	22	130	1,5	612	475
77030	FUTURA 2.2ft ABS Al 4400/840	45	4400	3920	30	131	1,7	612	475
77040	FUTURA 2.4ft ABS Al 5200/840	50	5200	4570	35	131	2,9	1172	700
77050	FUTURA 2.4ft ABS Al 6400/840	50	6400	5620	42	134	2,9	1172	700
77060	FUTURA 2.4ft ABS Al 8800/840	45	8800	7860	58	136	3,0	1172	700
77410	FUTURA 2.4ft ABS Al 12800/840	35	12800	11660	85	137	3,0	1172	700
77070	FUTURA 2.5ft ABS Al 6500/840	50	6500	5750	44	131	3,8	1452	940
77080	FUTURA 2.5ft ABS Al 8000/840	50	8000	7030	53	133	3,9	1452	940
77090	FUTURA 2.5ft ABS Al 11000/840	45	11000	9620	71	135	3,9	1452	940
77420	FUTURA 2.5ft ABS Al 16000/840	35	16000	14580	106	138	3,9	1452	940
FUTURA ABS RED			620	550	12	45			

77020 FUTURA 2.2ft ABS Al 3200/840 = suitable replacement for T8 fl. tube light fitting PRIMA 218 – 2x18W
 77050 FUTURA 2.4ft ABS Al 6400/840 = suitable replacement for T8 fl. tube light fitting PRIMA 236 – 2x36W
 77080 FUTURA 2.5ft ABS Al 8000/840 = suitable replacement for T8 fl. tube light fitting PRIMA 258 – 2x58W

FUTURA ABS Al

Non-dimmable driver - plastic clips

Code	Type	1F	3F	M1h	M3h	3F M1h	3F M3h	RED	3F RED
77010	FUTURA 2.2ft ABS Al 2600/840	x	x	77014	77015	x	x	56200	x
77020	FUTURA 2.2ft ABS Al 3200/840	x	x	77024	77025	x	x	56202	x
77030	FUTURA 2.2ft ABS Al 4400/840	x	x	77034	77035	x	x	56204	x
77040	FUTURA 2.4ft ABS Al 5200/840	77140	77340	77044	77045	77344	77345	56206	56207
77050	FUTURA 2.4ft ABS Al 6400/840	77150	77350	77054	77055	77354	77355	56208	56209
77060	FUTURA 2.4ft ABS Al 8800/840	77160	77360	77064	77065	77364	77365	56210	56211
77410	FUTURA 2.4ft ABS Al 12800/840	77411	77412	x	x	x	x	56212	56213
77070	FUTURA 2.5ft ABS Al 6500/840	77170	77370	77074	77075	77374	77375	56214	56215
77080	FUTURA 2.5ft ABS Al 8000/840	77180	77380	77084	77085	77384	77385	56216	56217
77090	FUTURA 2.5ft ABS Al 11000/840	77190	77390	77094	77095	77394	77395	56218	56219
77420	FUTURA 2.5ft ABS Al 16000/840	77421	77422	x	x	x	x	56220	56221

FUTURA ABSc Al

Non-dimmable driver - stainless clips (c)

Code	Type	1F	3F	M1h	M3h	3F M1h	3F M3h	RED	3F RED
77210	FUTURA 2.2ft ABSc Al 2600/840	x	x	77214	77215	x	x	56222	x
77220	FUTURA 2.2ft ABSc Al 3200/840	x	x	77224	77225	x	x	56224	x
77230	FUTURA 2.2ft ABSc Al 4400/840	x	x	77234	77235	x	x	56226	x
77240	FUTURA 2.4ft ABSc Al 5200/840	77540	77640	77244	77245	77644	77645	56228	56229
77250	FUTURA 2.4ft ABSc Al 6400/840	77550	77650	77254	77255	77654	77655	56230	56231
77260	FUTURA 2.4ft ABSc Al 8800/840	77560	77660	77264	77265	77664	77665	56232	56233
77430	FUTURA 2.4ft ABSc Al 12800/840	77431	77432	x	x	x	x	56234	56235
77270	FUTURA 2.5ft ABSc Al 6500/840	77570	77670	77274	77275	77674	77675	56236	56237
77280	FUTURA 2.5ft ABSc Al 8000/840	77580	77680	77284	77285	77684	77685	56238	56239
77290	FUTURA 2.5ft ABSc Al 11000/840	77590	77690	77294	77295	77694	77695	56240	56241
77440	FUTURA 2.5ft ABSc Al 16000/840	77441	77442	x	x	x	x	56242	56243

FUTURA ABS AI DALI

Digital dimmable driver DALI - plastic clips

Code	Type	1F	3F	M1h	M3h	3F M1h	3F M3h	RED	1F RED	3F RED
77013	FUTURA 2.2ft ABS AI 2600/840 DALI	x	x	77017	77019	x	x	56244	x	x
77023	FUTURA 2.2ft ABS AI 3200/840 DALI	x	x	77027	77029	x	x	56247	x	x
77033	FUTURA 2.2ft ABS AI 4400/840 DALI	x	x	77037	77039	x	x	56250	x	x
77043	FUTURA 2.4ft ABS AI 5200/840 DALI	77143	77343	77047	77049	77347	77349	56253	56254	56255
77053	FUTURA 2.4ft ABS AI 6400/840 DALI	77153	77353	77057	77059	77357	77359	56256	56257	56258
77063	FUTURA 2.4ft ABS AI 8800/840 DALI	77163	77363	77067	77069	77367	77369	56259	56260	56261
77450	FUTURA 2.4ft ABS AI 12800/840 DALI	77451	77452	x	x	x	x	56262	56263	56264
77073	FUTURA 2.5ft ABS AI 6500/840 DALI	77173	77373	77077	77079	77377	77379	56265	56266	56267
77083	FUTURA 2.5ft ABS AI 8000/840 DALI	77183	77383	77087	77089	77387	77389	56268	56269	56270
77093	FUTURA 2.5ft ABS AI 11000/840 DALI	77193	77393	77097	77099	77397	77399	56271	56272	56273
77460	FUTURA 2.5ft ABS AI 16000/840 DALI	77461	77462	x	x	x	x	56274	56275	56276

FUTURA ABSc AI DALI

Digital dimmable driver DALI - stainless clips (c)

Code	Type	1F	3F	M1h	M3h	3F M1h	3F M3h	RED	1F RED	3F RED
77213	FUTURA 2.2ft ABSc AI 2600/840 DALI	x	x	77217	77219	x	x	56277	x	x
77223	FUTURA 2.2ft ABSc AI 3200/840 DALI	x	x	77227	77229	x	x	56280	x	x
77233	FUTURA 2.2ft ABSc AI 4400/840 DALI	x	x	77237	77239	x	x	56283	x	x
77243	FUTURA 2.4ft ABSc AI 5200/840 DALI	77543	77643	77247	77249	77647	77649	56286	56287	56288
77253	FUTURA 2.4ft ABSc AI 6400/840 DALI	77553	77653	77257	77259	77657	77659	56289	56290	56400
77263	FUTURA 2.4ft ABSc AI 8800/840 DALI	77563	77663	77267	77269	77667	77669	56401	56402	56403
77470	FUTURA 2.4ft ABSc AI 12800/840 DALI	77471	77472	x	x	x	x	56404	56405	56406
77273	FUTURA 2.5ft ABSc AI 6500/840 DALI	77573	77673	77277	77279	77677	77679	56407	56408	56409
77283	FUTURA 2.5ft ABSc AI 8000/840 DALI	77583	77683	77287	77289	77687	77689	56410	56411	56412
77293	FUTURA 2.5ft ABSc AI 11000/840 DALI	77593	77693	77297	77299	77697	77699	56413	56414	56415
77480	FUTURA 2.5ft ABSc AI 16000/840 DALI	77481	77482	x	x	x	x	56416	56417	56418

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

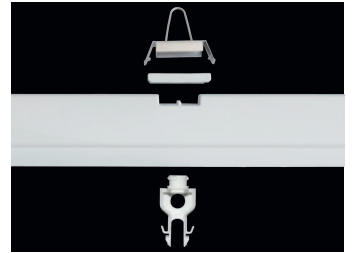
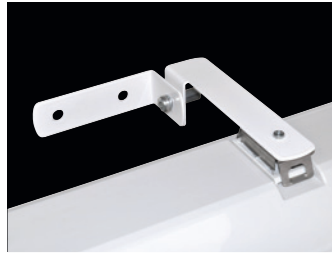
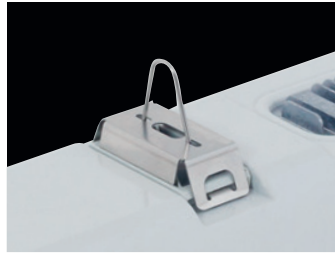
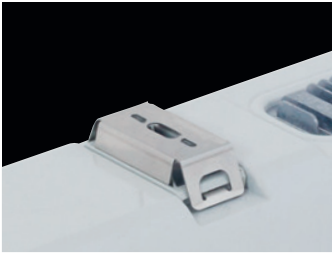
LEGEND

- DALI** – version with digital dimmable driver DALI
- 1F** – 1 phase wiring cables for through-wiring
- 3F** – 3 phase wiring cables for through-wiring
- RED** - design with red light module for night mode (for more information see CONCEPT RED at page 108)

- M1h** – emergency back-up source with operating time of 1 hour (SA) for both permanent and emergency illumination
 - M3h** – emergency back-up source with operating time of 3 hours (SA) for both permanent and emergency illumination
- Batteries must be formatted before their putting into operation. Assembly instructions must be observed at 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

**LIGHT FITTING DETAILED VIEW**

FUTURA ABS



FUTURA ES ABS



146
lm/W

... Energy Saver, 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.

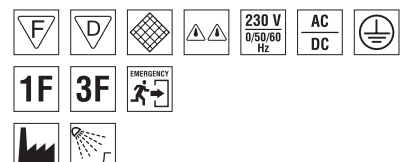
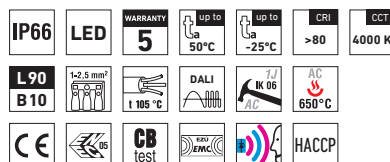
[It is necessary to consider exhalation in the air which can reduce the usability of the plastic and aluminium at installations in an aggressive environment, see also page 261].

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 50 % 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
- Certification: ENEC, CB, HACCP



FUTURA ES ABS Al, ABSc Al



TECHNICAL DESCRIPTION

- Light fitting protection: IP66
- Maximum ambient temperature: $t_a = 50^\circ\text{C}$, Maximum ambient temperature: $t_a = 25^\circ\text{C}$ (version with emergency back-up source for 1 or 3 hours; M1h, M3h)
- Maximum system efficacy: 146 lm/W
- The watt and lumen values can vary by $\pm 7,5\%$
- Standard model - CRI > 80: 4000 K
- 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

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 $t_a = 50^\circ\text{C}$ - body: dark grey ABS with Al coolers - diffuser: translucent acrylate									
10510	FUTURA 2.2ft ES ABS Al 2600/840	50	2600	2300	16	144	1,5	612	475
10520	FUTURA 2.2ft ES ABS Al 3200/840	50	3200	2850	20	143	1,5	612	475
10530	FUTURA 2.2ft ES ABS Al 4400/840	45	4400	3920	27	145	1,7	612	475
10540	FUTURA 2.4ft ES ABS Al 5200/840	50	5200	4570	32	143	2,9	1172	700
10550	FUTURA 2.4ft ES ABS Al 6400/840	50	6400	5620	39	144	2,9	1172	700
10560	FUTURA 2.4ft ES ABS Al 8800/840	45	8800	7860	54	146	3,0	1172	700
10570	FUTURA 2.4ft ES ABS Al 12800/840	35	12800	11340	78	145	3,0	1172	700
10580	FUTURA 2.5ft ES ABS Al 6500/840	50	6500	5750	40	144	3,8	1452	940
10590	FUTURA 2.5ft ES ABS Al 8000/840	50	8000	7030	49	143	3,9	1452	940
10600	FUTURA 2.5ft ES ABS Al 11000/840	45	11000	9620	67	144	3,9	1452	940
10610	FUTURA 2.5ft ES ABS Al 16000/840	35	16000	14160	98	144	3,9	1452	940

77020 FUTURA 2.2ft ES ABS Al 3200/840 = suitable replacement for T8 fl. tube light fitting PRIMA 218 – 2×18W
 77050 FUTURA 2.4ft ES ABS Al 6400/840 = suitable replacement for T8 fl. tube light fitting PRIMA 236 – 2×36W
 77080 FUTURA 2.5ft ES ABS Al 8000/840 = suitable replacement for T8 fl. tube light fitting PRIMA 258 – 2×58W

FUTURA ES ABS Al

Non-dimmable driver - plastic clips

Code	Type	1F	3F	M1h	M3h	3F M1h	3F M3h
10510	FUTURA 2.2ft ES ABS Al 2600/840	x	x	10514	10515	x	x
10520	FUTURA 2.2ft ES ABS Al 3200/840	x	x	10524	10525	x	x
10530	FUTURA 2.2ft ES ABS Al 4400/840	x	x	10534	10535	x	x
10540	FUTURA 2.4ft ES ABS Al 5200/840	10541	10543	10544	10545	10546	10547
10550	FUTURA 2.4ft ES ABS Al 6400/840	10551	10553	10554	10555	10556	10557
10560	FUTURA 2.4ft ES ABS Al 8800/840	10561	10563	10564	10565	10566	10567
10570	FUTURA 2.4ft ES ABS Al 12800/840	10571	10573	x	x	x	x
10580	FUTURA 2.5ft ES ABS Al 6500/840	10581	10583	10584	10585	10586	10587
10590	FUTURA 2.5ft ES ABS Al 8000/840	10591	10593	10594	10595	10596	10597
10600	FUTURA 2.5ft ES ABS Al 11000/840	10601	10603	10604	10605	10606	10607
10610	FUTURA 2.5ft ES ABS Al 16000/840	10611	10613	x	x	x	x

FUTURA ES ABSc Al

Non-dimmable driver - stainless clips [c]

Code	Type	1F	3F	M1h	M3h	3F M1h	3F M3h
10620	FUTURA 2.2ft ES ABSc Al 2600/840	x	x	10624	10625	x	x
10630	FUTURA 2.2ft ES ABSc Al 3200/840	x	x	10634	10635	x	x
10640	FUTURA 2.2ft ES ABSc Al 4400/840	x	x	10644	10645	x	x
10650	FUTURA 2.4ft ES ABSc Al 5200/840	10651	10653	10654	10655	10656	10657
10660	FUTURA 2.4ft ES ABSc Al 6400/840	10661	10663	10664	10665	10666	10667
10670	FUTURA 2.4ft ES ABSc Al 8800/840	10671	10673	10674	10675	10676	10677
10680	FUTURA 2.4ft ES ABSc Al 12800/840	10681	10683	x	x	x	x
10690	FUTURA 2.5ft ES ABSc Al 6500/840	10691	10693	10694	10695	10696	10697
10700	FUTURA 2.5ft ES ABSc Al 8000/840	10701	10703	10704	10705	10706	10707
10710	FUTURA 2.5ft ES ABSc Al 11000/840	10711	10713	10714	10715	10716	10717
10720	FUTURA 2.5ft ES ABSc Al 16000/840	10721	10723	x	x	x	x

Example of type marking: 10706 = FUTURA 2.4ft ES ABSc Al 8800/840 **3F M1h**

FUTURA ES ABS AI DALI

Digital dimmable driver DALI - plastic clips

Code	Type	1F	3F	M1h	M3h	3F M1h	3F M3h
10730	FUTURA 2.2ft ES ABS AI 2600/840 DALI	x	x	10734	10735	x	x
10740	FUTURA 2.2ft ES ABS AI 3200/840 DALI	x	x	10744	10745	x	x
10750	FUTURA 2.2ft ES ABS AI 4400/840 DALI	x	x	10754	10755	x	x
10760	FUTURA 2.4ft ES ABS AI 5200/840 DALI	10761	10763	10764	10765	10766	10767
10770	FUTURA 2.4ft ES ABS AI 6400/840 DALI	10771	10773	10774	10775	10776	10777
10780	FUTURA 2.4ft ES ABS AI 8800/840 DALI	10781	10783	10784	10785	10786	10787
10790	FUTURA 2.4ft ES ABS AI 12800/840 DALI	10791	10793	x	x	x	x
10800	FUTURA 2.5ft ES ABS AI 6500/840 DALI	10801	10803	10804	10805	10806	10807
10810	FUTURA 2.5ft ES ABS AI 8000/840 DALI	10811	10813	10814	10815	10816	10817
10820	FUTURA 2.5ft ES ABS AI 11000/840 DALI	10821	10823	10824	10825	10826	10827
10830	FUTURA 2.5ft ES ABS AI 16000/840 DALI	10831	10833	x	x	x	x

FUTURA ES ABSc AI DALI

Digital dimmable driver DALI - stainless clips (c)

Code	Type	1F	3F	M1h	M3h	3F M1h	3F M3h
10840	FUTURA 2.2ft ES ABSc AI 2600/840 DALI	x	x	10844	10845	x	x
10850	FUTURA 2.2ft ES ABSc AI 3200/840 DALI	x	x	10854	10855	x	x
10860	FUTURA 2.2ft ES ABSc AI 4400/840 DALI	x	x	10864	10865	x	x
10870	FUTURA 2.4ft ES ABSc AI 5200/840 DALI	10871	10873	10874	10875	10876	10877
10880	FUTURA 2.4ft ES ABSc AI 6400/840 DALI	10881	10883	10884	10885	10886	10887
10890	FUTURA 2.4ft ES ABSc AI 8800/840 DALI	10891	10893	10894	10895	10896	10897
10900	FUTURA 2.4ft ES ABSc AI 12800/840 DALI	10901	10903	x	x	x	x
10910	FUTURA 2.5ft ES ABSc AI 6500/840 DALI	10911	10913	10914	10915	10916	10917
10920	FUTURA 2.5ft ES ABSc AI 8000/840 DALI	10921	10923	10924	10925	10926	10927
10930	FUTURA 2.5ft ES ABSc AI 11000/840 DALI	10931	10933	10934	10935	10936	10937
10940	FUTURA 2.5ft ES ABSc AI 16000/840 DALI	10941	10943	x	x	x	x

Example of type marking: 10896 = FUTURA 2.4ft ES ABSc AI 8800/840 DALI **3F M1h**

LEGEND

DALI - version with digital dimmable driver DALI

1F - 1 phase wiring cables for through-wiring

3F - 3 phase wiring cables for through-wiring

M1h - emergency back-up source with operating time of 1 hour (SA) for both permanent and emergency illumination

M3h - emergency back-up source with operating time of 3 hours (SA) for both permanent and emergency illumination

Batteries must be formatted before their putting into operation. Assembly instructions must be observed at 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



LIGHT FITTING DETAILED VIEW

FUTURA ES ABS



FUTURA HE ABS



166
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.

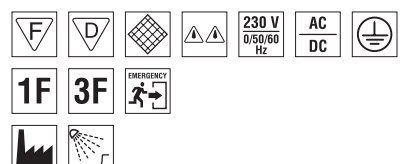
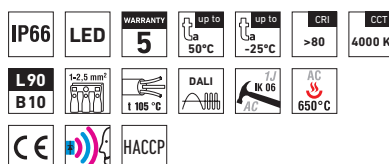
(It is necessary to consider exhalation in the air which can reduce the usability of the plastic and aluminium at installations in an aggressive environment, see also page 261).

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 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

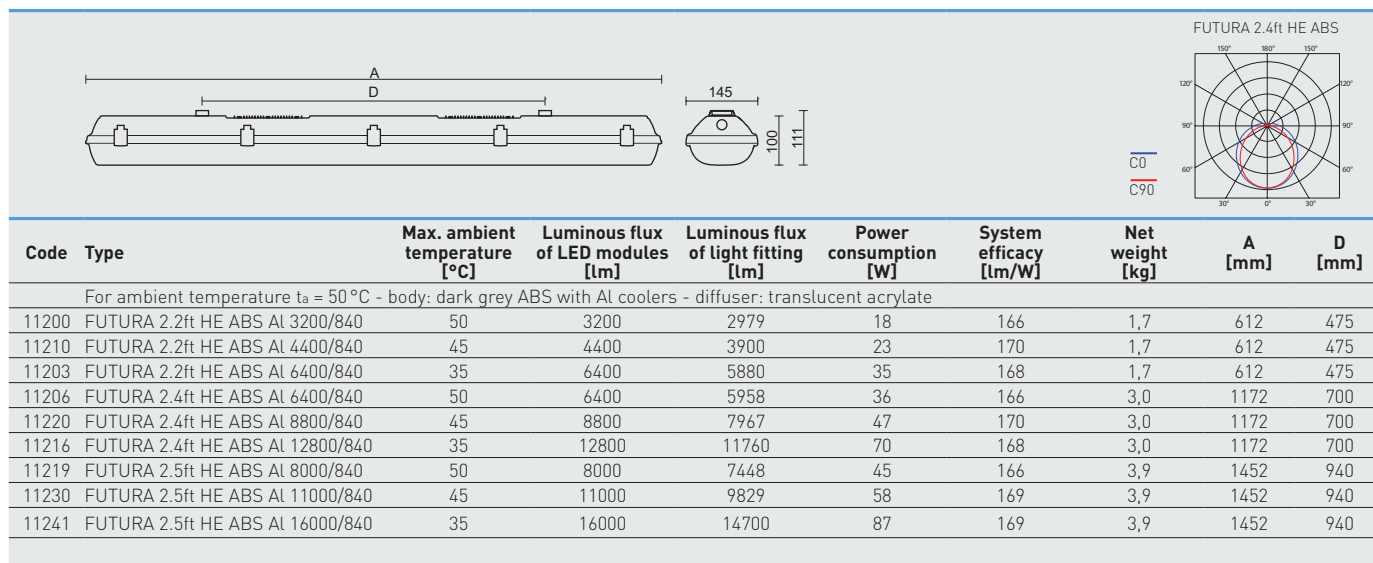


FUTURA HE ABS Al, ABSc Al



TECHNICAL DESCRIPTION

- Light fitting protection: IP66
- Maximum ambient temperature: $t_a = 50^\circ\text{C}$, Maximum ambient temperature: $t_a = 25^\circ\text{C}$ (version with emergency back-up source for 1 or 3 hours; M1h, M3h)
- Maximum system efficacy: 170 lm/W
- The watt and lumen values can vary by $\pm 7,5\%$
- Standard model - CRI > 80: 4000 K
- 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 sulphur-resistant modules, current driver or current driver DALI



FUTURA HE ABS Al

Non-dimmable driver - plastic clips

Code	Type	1F	3F	M1h	M3h	3F M1h	3F M3h
11200	FUTURA 2.2ft HE ABS Al 3200/840	x	x	11201	11202	x	x
11210	FUTURA 2.2ft HE ABS Al 4400/840	x	x	11214	11215	x	x
11203	FUTURA 2.2ft HE ABS Al 6400/840	x	x	11204	11205	x	x
11206	FUTURA 2.4ft HE ABS Al 6400/840	11207	11208	11209	11211	11212	11213
11220	FUTURA 2.4ft HE ABS Al 8800/840	11221	11223	11224	11225	11226	11227
11216	FUTURA 2.4ft HE ABS Al 12800/840	11217	11218	x	x	x	x
11219	FUTURA 2.5ft HE ABS Al 8000/840	11222	11228	11229	11232	11238	11239
11230	FUTURA 2.5ft HE ABS Al 11000/840	11231	11233	11234	11235	11236	11237
11241	FUTURA 2.5ft HE ABS Al 16000/840	11242	11243	x	x	x	x

FUTURA HE ABSc Al

Non-dimmable driver - stainless clips [c]

Code	Type	1F	3F	M1h	M3h	3F M1h	3F M3h
11246	FUTURA 2.2ft HE ABSc Al 3200/840	x	x	11247	11248	x	x
11240	FUTURA 2.2ft HE ABSc Al 4400/840	x	x	11244	11245	x	x
11249	FUTURA 2.2ft HE ABSc Al 6400/840	x	x	11252	11258	x	x
11259	FUTURA 2.4ft HE ABSc Al 6400/840	11262	11268	11269	11271	11272	11273
11250	FUTURA 2.4ft HE ABSc Al 8800/840	11251	11253	11254	11255	11256	11257
11276	FUTURA 2.4ft HE ABSc Al 12800/840	11277	11278	x	x	x	x
11279	FUTURA 2.5ft HE ABSc Al 8000/840	11282	11288	11289	11292	11298	11299
11260	FUTURA 2.5ft HE ABSc Al 11000/840	11261	11263	11264	11265	11266	11267
11301	FUTURA 2.5ft HE ABSc Al 16000/840	11302	11303	x	x	x	x

Example of type marking: 11256 = FUTURA 2.4ft HE ABSc Al 8800/840 3F M1h

FUTURA HE ABS AI DALI

Code	Type
11306	FUTURA 2.2ft HE ABS AI 3200/840 DALI
11270	FUTURA 2.2ft HE ABS AI 4400/840 DALI
11309	FUTURA 2.2ft HE ABS AI 6400/840 DALI
11319	FUTURA 2.4ft HE ABS AI 6400/840 DALI
11280	FUTURA 2.4ft HE ABS AI 8800/840 DALI
11333	FUTURA 2.4ft HE ABS AI 12800/840 DALI
11336	FUTURA 2.5ft HE ABS AI 8000/840 DALI
11290	FUTURA 2.5ft HE ABS AI 11000/840 DALI
11343	FUTURA 2.5ft HE ABS AI 16000/840 DALI

Digital dimmable driver DALI - plastic clips

1F	3F	M1h	M3h	3F M1h	3F M3h
x	x	11307	11308	x	x
x	x	11274	11275	x	x
x	x	11312	11318	x	x
11322	11328	11329	11330	11331	11332
11281	11283	11284	11285	11286	11287
11334	11335	x	x	x	x
11337	11338	11339	11340	11341	11342
11291	11293	11294	11295	11296	11297
11344	11345	x	x	x	x

FUTURA HE ABSc AI DALI

Code	Type
11346	FUTURA 2.2ft HE ABSc AI 3200/840 DALI
11300	FUTURA 2.2ft HE ABSc AI 4400/840 DALI
11349	FUTURA 2.2ft HE ABSc AI 6400/840 DALI
11352	FUTURA 2.4ft HE ABSc AI 6400/840 DALI
11310	FUTURA 2.4ft HE ABSc AI 8800/840 DALI
11359	FUTURA 2.4ft HE ABSc AI 12800/840 DALI
11362	FUTURA 2.5ft HE ABSc AI 8000/840 DALI
11320	FUTURA 2.5ft HE ABSc AI 11000/840 DALI
11369	FUTURA 2.5ft HE ABSc AI 16000/840 DALI

Digital dimmable driver DALI - stainless clips (c)

1F	3F	M1h	M3h	3F M1h	3F M3h
x	x	11347	11348	x	x
x	x	11304	11305	x	x
x	x	11350	11351	x	x
11353	11354	11355	11356	11357	11358
11311	11313	11314	11315	11316	11317
11360	11361	x	x	x	x
11363	11364	11365	11366	11367	11368
11321	11323	11324	11325	11326	11327
11370	11371	x	x	x	x

LEGEND

- DALI** – version with digital dimmable driver DALI
- 1F** – 1 phase wiring cables for through-wiring
- 3F** – 3 phase wiring cables for through-wiring

- M1h** – emergency back-up source with operating time of 1 hour (SA) for both permanent and emergency illumination
- M3h** – emergency back-up source with operating time of 3 hours (SA) for both permanent and emergency illumination

Batteries must be formatted before their putting into operation. Assembly instructions must be observed at 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



LIGHT FITTING DETAILED VIEW

FUTURA HE ABS



FUTURA MAX



BIM
ready

... for extreme temperatures -40 °C to +70 °C.

USE

The light fitting is suitable for indoor and outdoor with roof with extreme ambient temperatures from **[-40 °C to +70 °C]**. The light fitting is destined mainly for heating stations, metallurgical lines, glass-works, as well as for freezers, cooling plants and other premises without danger of explosion of gases, dusts and flammable vapors.

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 261).

ADVANTAGES

- Light fitting protection **IP66**
- Minimum ambient temperature up to **ta = -40 °C**
- Maximum ambient temperature up to **ta = 70 °C**
- Lifetime: 50,000 hours / L80B10
- Possibility of using in even higher ambient temperatures under the condition of a shortened service life of the light fitting – parameters solved within a particular project
- 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 -40 °C
- Standard model - CRI > 80: 4000 K
- At request CRI > 80: 3000 K, 5000 K
- Through-wiring of up to 10 wires at body
- Certification: HACCP

IP66	LED	WARRANTY 5	up to 70°C	up to -40°C	CRI >80	CCT 4000 K
L80 B10	±2.5 mm²	1 105 °C	30/1 K 10	PC 850°C		
CE	HACCP					

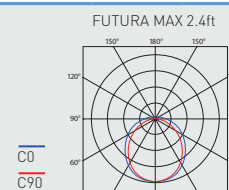
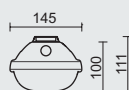
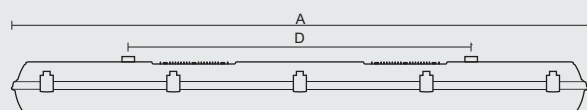
F			230 V 0/50/60 Hz	AC DC	
1F	3F				

FUTURA MAX PCc Al



TECHNICAL DESCRIPTION

- Light fitting protection: IP66
- Minimum ambient temperature: $t_a = -40\text{ °C}$
- Maximum ambient temperature: $t_a = 70\text{ °C}$
- Lifetime: 50,000 hours / L80B10
- Possibility of using in even higher ambient temperatures under the condition of a shortened service life of the light fitting – parameters solved within a particular project
- Maximum system efficacy: 151 lm/W
- The watt and lumen values can vary by $\pm 7,5\%$
- Standard model - CRI > 80: 4000 K
- 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)
- Ventilation plug: type BVPB-01 made of polyamide, size M12 x 1.5
- Clips: 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



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 $t_a = 70\text{ °C}$ - body: grey polycarbonate with Al coolers - diffuser: translucent polycarbonate									
79820	FUTURA MAX 1.5ft PCc Al 4000/840	70	4000	3550	24	148	3,6	1452	940
79830	FUTURA MAX 1.5ft PCc Al 5500/840	65	5500	4780	33	145	3,6	1452	940
79840	FUTURA MAX 2.4ft PCc Al 6400/840	65	6400	5730	38	151	3,0	1172	700
79800	FUTURA MAX 2.4ft PCc Al 8800/840	60	8800	7640	52	147	3,0	1172	700
79850	FUTURA MAX 2.5ft PCc Al 8000/840	65	8000	7110	48	148	3,9	1452	940
79810	FUTURA MAX 2.5ft PCc Al 11000/840	60	11000	9550	65	147	3,9	1452	940

FUTURA MAX PCc Al

Non-dimmable driver - stainless clips (c)

Code	Type	1F	3F	M1h	M3h	DALI	DALI 3F
79820	FUTURA MAX 1.5ft PCc Al 4000/840	79821	79823	x	x	79825	79826
79830	FUTURA MAX 1.5ft PCc Al 5500/840	79831	79833	x	x	79835	79836
79840	FUTURA MAX 2.4ft PCc Al 6400/840	79841	79843	x	x	79845	79846
79800	FUTURA MAX 2.4ft PCc Al 8800/840	79801	79803	x	x	79805	79806
79850	FUTURA MAX 2.5ft PCc Al 8000/840	79851	79853	x	x	79855	79856
79810	FUTURA MAX 2.5ft PCc Al 11000/840	79811	79813	x	x	79815	79816

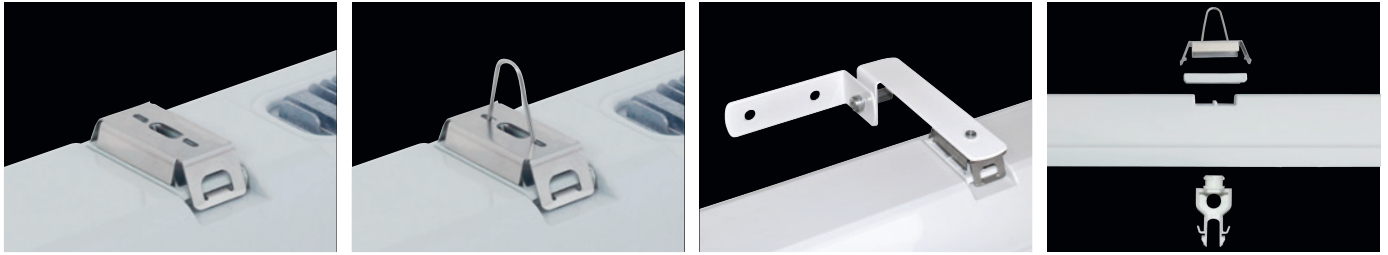
Example of type marking: 79813 = FUTURA MAX 2.5ft PCc Al 11000/840 **3F**

LEGEND

DALI – version with digital dimmable driver DALI**1F** – 1 phase wiring cables for through-wiring**3F** – 3 phase wiring cables for through-wiring

LIGHT FITTING ATTACHMENT

- a) Directly to a ceiling 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 MAX



FUTURA Sensor



BIM
ready

... dustproof, waterproof and impact-resistant.

USE

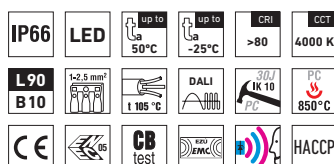
The light fitting is suitable for industrial indoor and outdoor roofed spaces, warehouses, sports areas, workshops, garages, transport terminals, utility structures and laboratories without a danger of explosion of gas, dust and combustible fumes.

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 261).

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
- Current driver with the 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
- With built-in **microwave motion sensor**
- The possibility of setting the sensor using the DIP switch
- It can be delivered in dimmable or emergency version
- Through-wiring of up to 10 wires at body
- Certification: ENEC, CB, HACCP

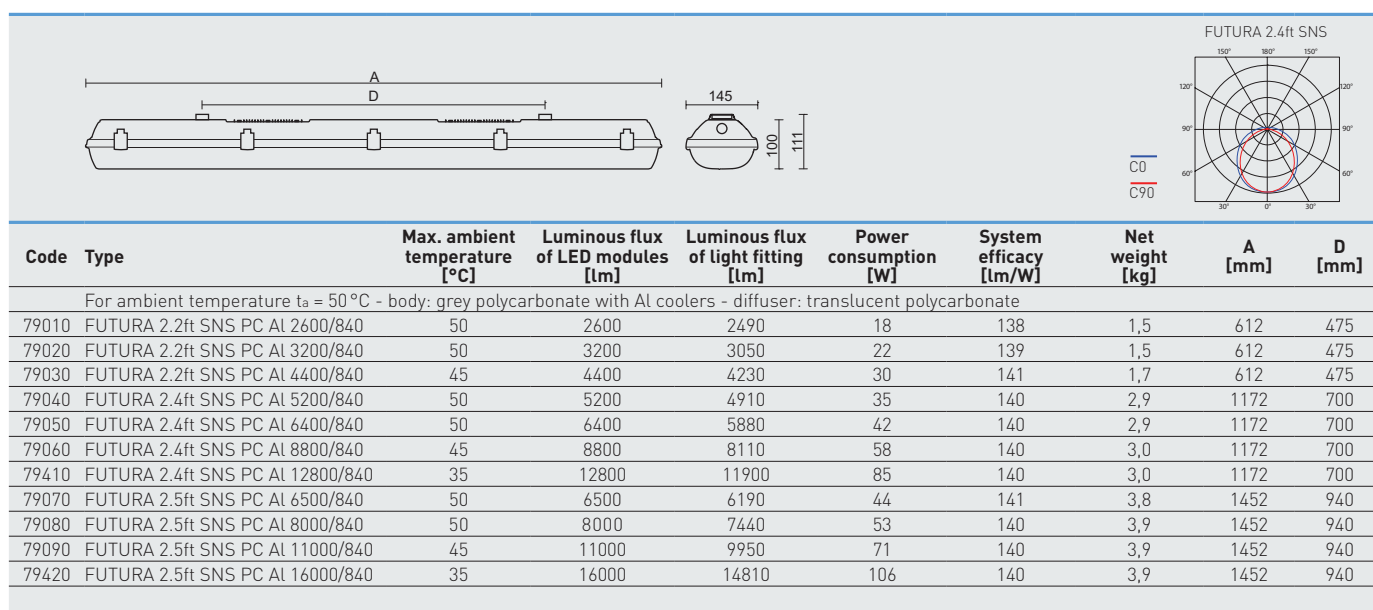


FUTURA SNS PC AL, PCc AL



TECHNICAL DESCRIPTION

- Light fitting protection: IP66
- Maximum ambient temperature: $t_a = 50^\circ\text{C}$, Maximum ambient temperature: $t_a = 25^\circ\text{C}$ (version with emergency back-up source for 1 or 3 hours; M1h, M3h)
- Maximum system efficacy: 141 lm/W
- The watt and lumen values can vary by $\pm 7,5\%$
- Standard model - CRI > 80: 4000 K
- 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 digital dimmable driver DALI
- Motion sensor: 360° range, switch on height 1 – 6 m, time range 5 sec – 30 min, switch-on sensitivity 2 – 50 lux



79050 FUTURA 2.4ft SNS PC AL 6400/840 = suitable replacement for T8 fl. tube light fitting PRIMA 236 – 2x36 W
 79080 FUTURA 2.5ft SNS PC AL 8000/840 = suitable replacement for T8 fl. tube light fitting PRIMA 258 – 2x58 W

FUTURA SNS PC AL

Non-dimmable driver - plastic clips

Code	Type	1F	3F	M1h	M3h	3F M1h	3F M3h
79010	FUTURA 2.2ft SNS PC AL 2600/840	x	x	79014	x	x	x
79020	FUTURA 2.2ft SNS PC AL 3200/840	x	x	79024	x	x	x
79030	FUTURA 2.2ft SNS PC AL 4400/840	x	x	79034	x	x	x
79040	FUTURA 2.4ft SNS PC AL 5200/840	79140	79340	79044	79045	79344	79345
79050	FUTURA 2.4ft SNS PC AL 6400/840	79150	79350	79054	79055	79354	79355
79060	FUTURA 2.4ft SNS PC AL 8800/840	79160	79360	79064	79065	79364	79365
79410	FUTURA 2.4ft SNS PC AL 12800/840	79411	79412	x	x	x	x
79070	FUTURA 2.5ft SNS PC AL 6500/840	79170	79370	79074	79075	79374	79375
79080	FUTURA 2.5ft SNS PC AL 8000/840	79180	79380	79084	79085	79384	79385
79090	FUTURA 2.5ft SNS PC AL 11000/840	79190	79390	79094	79095	79394	79395
79420	FUTURA 2.5ft SNS PC AL 16000/840	79421	79422	x	x	x	x

FUTURA SNS PCc AL

Non-dimmable driver - stainless clips (c)

Code	Type	1F	3F	M1h	M3h	3F M1h	3F M3h
79210	FUTURA 2.2ft SNS PCc AL 2600/840	x	x	79214	x	x	x
79220	FUTURA 2.2ft SNS PCc AL 3200/840	x	x	79224	x	x	x
79230	FUTURA 2.2ft SNS PCc AL 4400/840	x	x	79234	x	x	x
79240	FUTURA 2.4ft SNS PCc AL 5200/840	79540	79640	79244	79245	79644	79645
79250	FUTURA 2.4ft SNS PCc AL 6400/840	79550	79650	79254	79255	79654	79655
79260	FUTURA 2.4ft SNS PCc AL 8800/840	79560	79660	79264	79265	79664	79665
79430	FUTURA 2.4ft SNS PCc AL 12800/840	79431	79432	x	x	x	x
79270	FUTURA 2.5ft SNS PCc AL 6500/840	79570	79670	79274	79275	79674	79675
79280	FUTURA 2.5ft SNS PCc AL 8000/840	79580	79680	79284	79285	79684	79685
79290	FUTURA 2.5ft SNS PCc AL 11000/840	79590	79690	79294	79295	79694	79695
79440	FUTURA 2.5ft SNS PCc AL 16000/840	79441	79442	x	x	x	x

Example of type marking: 79684 = FUTURA 2.5ft SNS PCc AL 8000/840 3F M1h

FUTURA SNS PC Al CORRIDOR

Digital dimmable driver - plastic clips

Code	Type	1F	3F	M1h	M3h	3F M1h	3F M3h
79043	FUTURA 2.4ft SNS PC Al 5200/840 CORRIDOR	79143	79343	79047	79049	79347	79349
79053	FUTURA 2.4ft SNS PC Al 6400/840 CORRIDOR	79153	79353	79057	79059	79357	79359
79063	FUTURA 2.4ft SNS PC Al 8800/840 CORRIDOR	79163	79363	79067	79069	79367	79369
79073	FUTURA 2.5ft SNS PC Al 6500/840 CORRIDOR	79173	79373	79077	79079	79377	79379
79083	FUTURA 2.5ft SNS PC Al 8000/840 CORRIDOR	79183	79383	79087	79089	79387	79389
79093	FUTURA 2.5ft SNS PC Al 11000/840 CORRIDOR	79193	79393	79097	79099	79397	79399

FUTURA SNS PCc Al CORRIDOR

Digital dimmable driver - stainless clips [c]

Code	Type	1F	3F	M1h	M3h	3F M1h	3F M3h
79243	FUTURA 2.4ft SNS PCc Al 5200/840 CORRIDOR	79543	79643	79247	79249	79647	79649
79253	FUTURA 2.4ft SNS PCc Al 6400/840 CORRIDOR	79553	79653	79257	79259	79657	79659
79263	FUTURA 2.4ft SNS PCc Al 8800/840 CORRIDOR	79563	79663	79267	79269	79667	79669
79273	FUTURA 2.5ft SNS PCc Al 6500/840 CORRIDOR	79573	79673	79277	79279	79677	79679
79283	FUTURA 2.5ft SNS PCc Al 8000/840 CORRIDOR	79583	79683	79287	79289	79687	79689
79293	FUTURA 2.5ft SNS PCc Al 11000/840 CORRIDOR	79593	79693	79297	79299	79697	79699

Example of type marking: 79687 = FUTURA 2.5ft SNS PCc Al 8000/840 CORRIDOR 3F M1h

LEGEND

- CORRIDOR** – model with digitally dimmable driver. Settings can be configured – in primary setting the light will turn on to a maximum output when triggered by motion and stay in the mode for 5 minutes, then its intensity will decrease to 10 %.
- 1F** – 1 phase wiring cables for through-wiring
- 3F** – 3 phase wiring cables for through-wiring

- M1h** – emergency back-up source with operating time of 1 hour (SA) for both permanent and emergency illumination
- M3h** – emergency back-up source with operating time of 3 hours (SA) for both permanent and emergency illumination
- Batteries must be formatted before their putting into operation. Assembly instructions must be observed at 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



LIGHT FITTING DETAILED VIEW

FUTURA SNS



FUTURA HORTI

NEW



... to stimulate plant growth, for greenhouses.

USE

An indoor light fixture designed for greenhouse gardening.

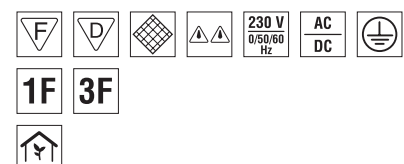
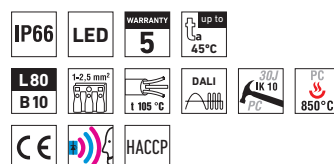
It makes it possible for growers to **increase crop yields and their quality as well as ensure year-round production independent of the season of the year or weather**. The fitting provides greenhouse owners with exceptional benefits whether it is used to substitute regular lights, or as an energy-efficient feature that complements an existing lighting system. The exceptional characteristics of HORTI are appreciated by greenhouse farmers regardless of what crops they grow (tomatoes, cucumbers, leaf vegetables, herbs, strawberries, cut flowers, pot plants, perennials, etc.).

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.

Please, consider the emissions that the fitting installed in a chemically aggressive environment is exposed to as these may compromise the usability of plastic.

ADVANTAGES

- Light fitting protection **IP66**
- Maximum ambient temperature up to **t_a = 45 °C**
- Lifetime: 50,000 hours / L80B10
- Diffuser: translucent polycarbonate (PC) = high mechanical resistance
- Body: grey polycarbonate (PC) = high mechanical resistance
- CRI > 70: 4000 K for white component of light
- Through-wiring of up to 10 wires at body
- Support of individual phases of plant growth: germination, growth, bloom, fruit ripening

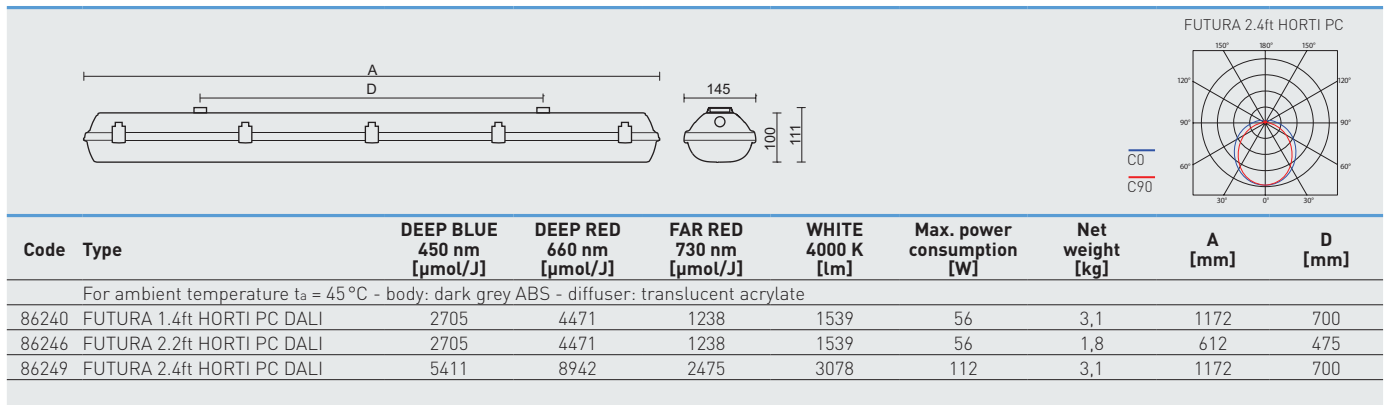


FUTURA HORTI PC, PCc



TECHNICAL DESCRIPTION

- Light fitting protection: IP66
- Maximum ambient temperature: $t_a = 45^\circ\text{C}$
- Lifetime: 50,000 hours / L80B10
- CRI > 70: 4000 K for white component of light
- Diffuser: translucent polycarbonate (PC), UV stable, impact-resistant
- Body: grey polycarbonate (PC), 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, five-pole (basic version)
- Installation: package contains stainless hooks and stainless brackets
- Electric equipment: LED modules HORTI, supply element DALI (1 driver - 4 DALI addresses)



DEEP BLUE (450 nm)		DEEP RED (660 nm)		FAR RED + WHITE (730 nm + 4000 K)	
410 mW/ft	plant germination	540 mW/ft	plant grow stimulation	195 mW/ft + 475 lm/ft	fruit formation and ripening

FUTURA HORTI PC

Digital dimmable driver DALI - plastic clips

Code	Type	1F	3F
86240	FUTURA 1.4ft HORTI PC DALI	86241	86242
86246	FUTURA 2.2ft HORTI PC DALI	x	x
86249	FUTURA 2.4ft HORTI PC DALI	86250	86251

FUTURA HORTI PCc

Digital dimmable driver DALI - stainless clips (c)

Code	Type	1F	3F
86258	FUTURA 1.4ft HORTI PCc DALI	86259	86260
86264	FUTURA 2.2ft HORTI PCc DALI	x	x
86267	FUTURA 2.4ft HORTI PCc DALI	86268	86269

LEGEND

- DALI** - version with digital dimmable driver DALI
- 1F** - 1 phase wiring cables for through-wiring
- 3F** - 3 phase wiring cables for through-wiring

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 HORTI PC



FUTURA HORTI ABS

NEW



... to stimulate plant growth, for greenhouses.

USE

An indoor light fixture designed for greenhouse gardening.

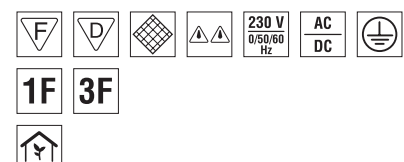
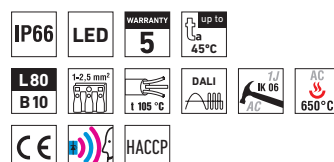
It makes it possible for growers to **increase crop yields and their quality as well as ensure year-round production independent of the season of the year or weather**. The fitting provides greenhouse owners with exceptional benefits whether it is used to substitute regular lights, or as an energy-efficient feature that complements an existing lighting system. The exceptional characteristics of HORTI are appreciated by greenhouse farmers regardless of what crops they grow (tomatoes, cucumbers, leaf vegetables, herbs, strawberries, cut flowers, pot plants, perennials, etc.).

The fixture is protected against dust ingress, humidity, and water jets. It features a base made of ABS and a diffuser made of AC. Both boast increased chemical resistance to substances contained in detergents, disinfectants, and pesticide sprays.

Please, consider the emissions that the fitting installed in a chemically aggressive environment is exposed to as these may compromise the usability of plastic.

ADVANTAGES

- Light fitting protection **IP66**
- Maximum ambient temperature up to **t_a = 45 °C**
- Lifetime: 50,000 hours / L80B10
- Diffuser: translucent acrylate (AC) = high chemical resistance
- Body: dark grey ABS = high chemical resistance
- CRI > 70: 4000 K for white component of light
- Through-wiring of up to 10 wires at body
- Support of individual phases of plant growth: germination, growth, bloom, fruit ripening

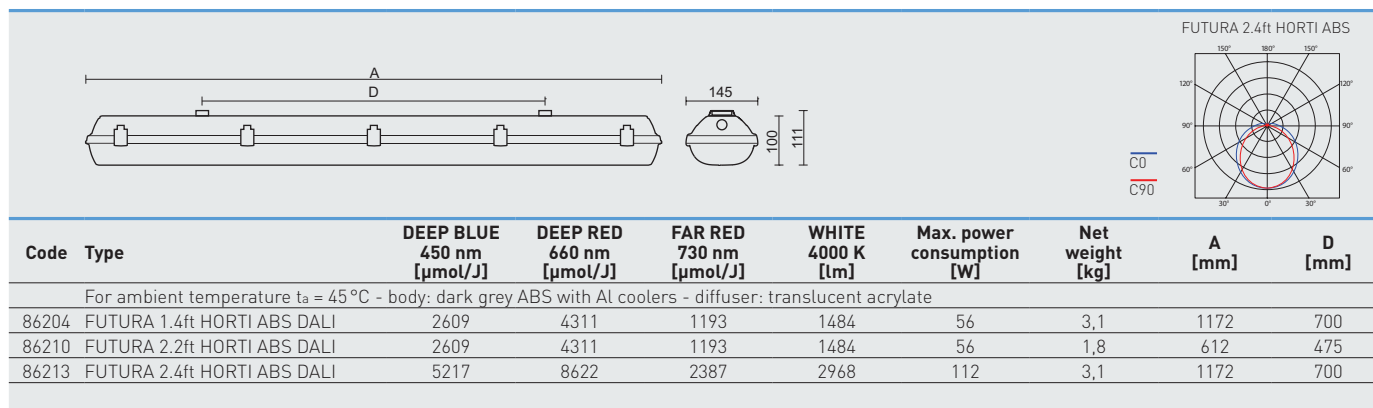


FUTURA HORTI ABS, ABSc



TECHNICAL DESCRIPTION

- Light fitting protection: IP66
- Maximum ambient temperature: $t_a = 45^\circ\text{C}$
- Lifetime: 50,000 hours / L80B10
- CRI > 70: 4000 K for white component of light
- Diffuser: translucent acrylate (AC), UV stable, chemically resistant
- Body: dark grey ABS, 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, five-pole (basic version)
- Installation: package contains stainless hooks and stainless brackets
- Electric equipment: LED modules HORTI, supply element DALI (1 driver - 4 DALI addresses)



DEEP BLUE (450 nm)		DEEP RED (660 nm)		FAR RED + WHITE (730 nm + 4000 K)	
410 mW/ft	plant germination	540 mW/ft	plant grow stimulation	195 mW/ft + 475 lm/ft	fruit formation and ripening

FUTURA HORTI ABS

Digital dimmable driver DALI - plastic clips

Code	Type	1F	3F
86204	FUTURA 1.4ft HORTI ABS DALI	86205	86206
86210	FUTURA 2.2ft HORTI ABS DALI	x	x
86213	FUTURA 2.4ft HORTI ABS DALI	86214	86215

FUTURA HORTI ABSc

Digital dimmable driver DALI - stainless clips (c)

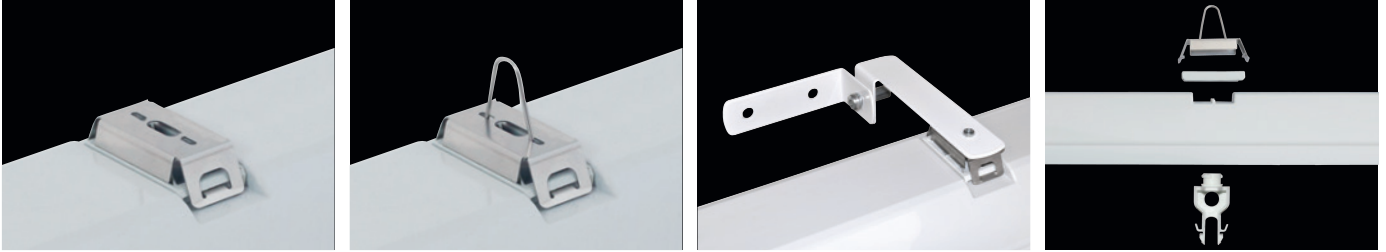
Code	Type	1F	3F
86222	FUTURA 1.4ft HORTI ABSc DALI	86223	86224
86228	FUTURA 2.2ft HORTI ABSc DALI	x	x
86231	FUTURA 2.4ft HORTI ABSc DALI	86232	86233

LEGEND

- DALI** - version with digital dimmable driver DALI
1F - 1 phase wiring cables for through-wiring
3F - 3 phase wiring cables for through-wiring

LIGHT FITTING ATTACHMENT

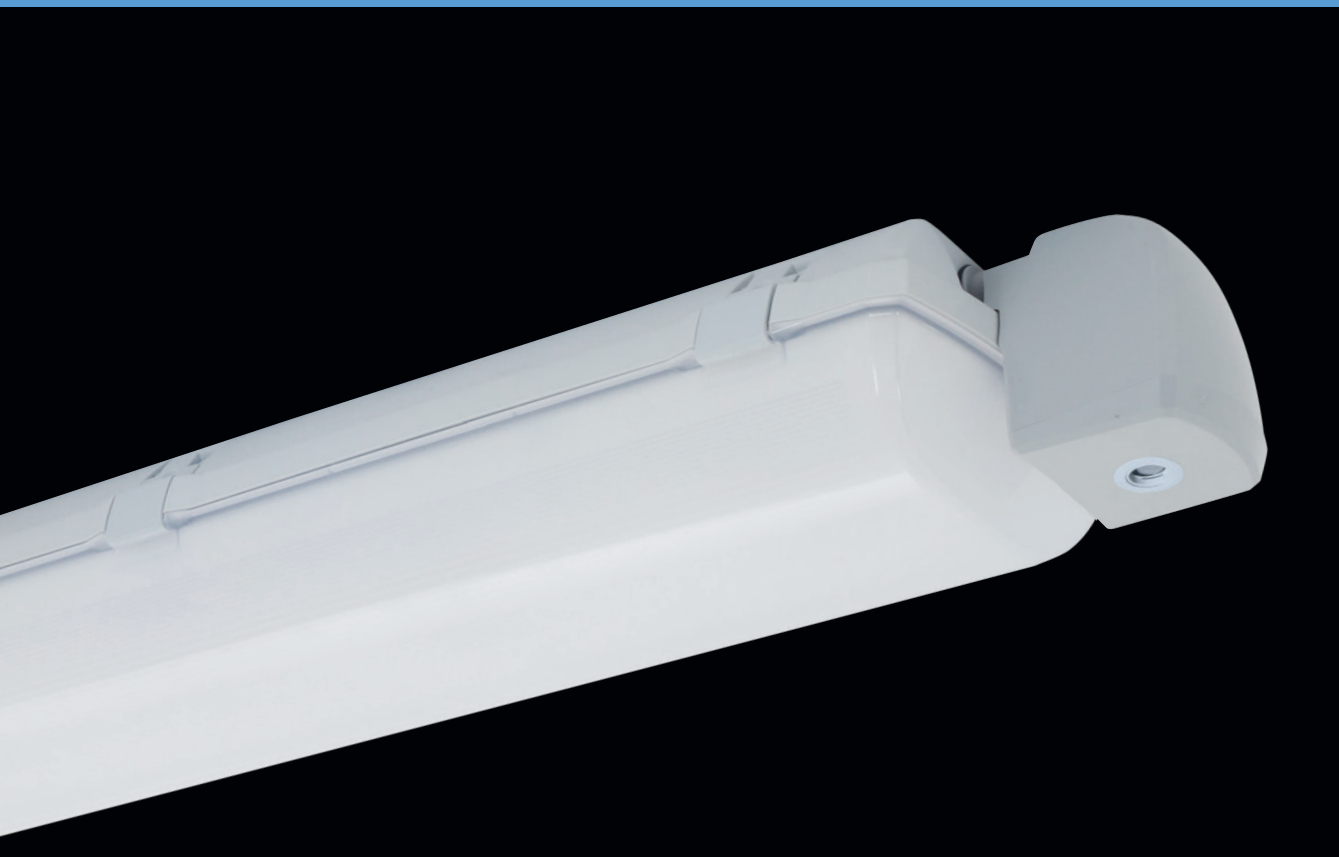
- a) Directly to a ceiling or a wall with the use of screws and stainless brackets
- b) Suspension with the use of stainless hooks
- c) Attachment with the use of side hangers to the wall

**LIGHT FITTING DETAILED VIEW**

FUTURA HORTI ABS



FUTURA Adapter



...regulates and controls illumination.

USE

The adaptor including the sensor is intended for the regulation and control of illumination.

It is connected to the light fitting at the point of the screwed gland from the side of the light fitting.

The adapter with sensor can be used with a DALI digitally dimmable power supply.

ADVANTAGES

- Small dimensions allow installation directly to the luminaire via a cable entry.



FUTURA Adapter



TECHNICAL DESCRIPTION

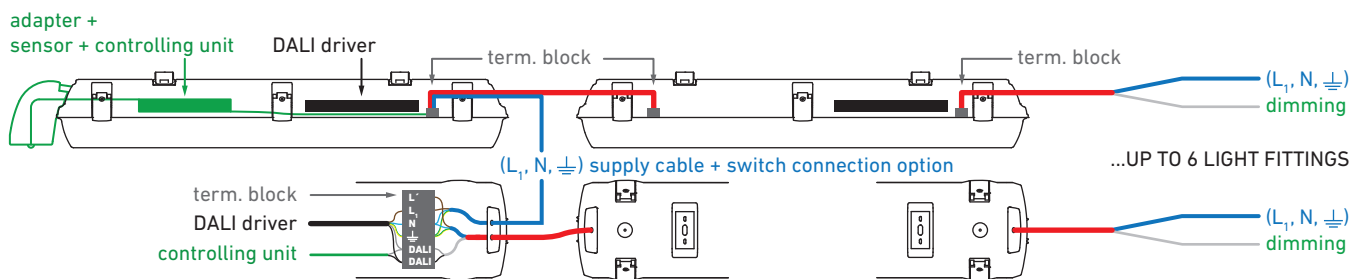
- Body: gray polycarbonate, UV stable, impact-resistant
- Cover: gray polycarbonate, UV stable, impact-resistant
- Protection: IP20
- Fixing: with screwing terminal nut M20x1,5 from the light fitting side

80006 Adapter 6



- Intended for light fittings with digital dimmable driver **DALI**
- Electricity savings up to 75 % when compared to standard LED driver without sensor
- Small dimensions allow installation directly into the luminaire.
- Controlling unit: **TRIDONIC basicDIM ILD 5DPI 14f**
 - Built-in sensor + control unit for up to 10 luminaires (max. 5 luminaires for DALI output)
 - 2 DALI outputs allow 30 % or 50 % difference in brightness between output 1 and output 2
 - The control unit can be used in two different operating modes.
 - Lighting control according to daylight intensity
 - Lighting control according to the presence of persons
 - Manual switching on and off by means of a short press
 - Manual dimming and setpoint setting
 - Maximum installation height of 5 m
 - Possibility of remote control
 - Individual parameter setting via remote control

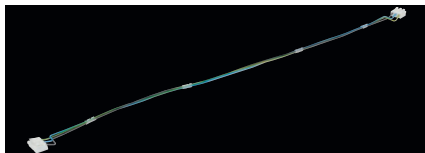
Wiring diagram for light fittings with Adapter 6



- 75163 FUTURA 2.4ft PC AI 8800/840 DALI 1F (or another FUTURA XXX DALI light fitting)
- 80006 Adapter 6
- supply triple-core conductor installed by customer (L, N, PE)
- interconnecting five-core conductor installed by customer (L, N, PE + DIMMING - shielded cable)

Through-wiring cables

Additional furnishing of 1 phase, 3 phase or multi-phase through-wiring in the body to the light fitting.



Code	Type	Description	Weight [kg]
11995	Z1F-2.4	1 phase cables for through-wiring at body 2.4ft	0,1
11996	Z1F-2.5	1 phase cables for through-wiring at body 2.5ft	0,1



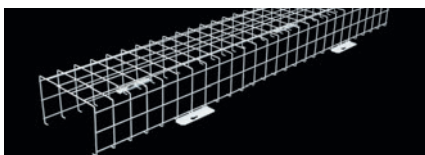
Code	Type	Description	Weight [kg]
11997	Z3F-2.4	3 phase cables for through-wiring at body 2.4ft	0,1
11998	Z3F-2.5	3 phase cables for through-wiring at body 2.5ft	0,1



Code	Type	Description	Weight [kg]
11987	Z2x3F-2.4	2x 3 phase cables for through-wiring at body 2.4ft	0,1
11988	Z2x3F-2.5	2x 3 phase cables for through-wiring at body 2.5ft	0,1

OM – protective grid

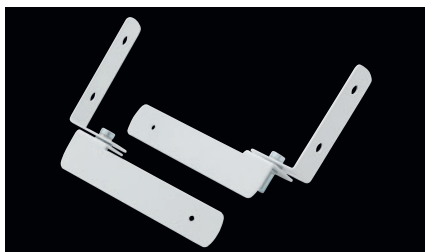
The metal grid protects the light fitting against mechanical damage and unauthorised handling. It is attached to the surface with the use of screws. The surface is treated with the RAL 9003 powder-coated colour.



Code	Type	Description	Weight [kg]
11941	OM 218	protective grid for types 218, 214/224, 2.2ft (700×220×130 mm)	1,0
11942	OM 236	protective grid for types 236, 228/254, 2.4ft (1300×220×130 mm)	1,7
11943	OM 258	protective grid for types 258, 235/249/280, 2.5ft (1600×220×130 mm)	2,0

BZ – side hanger

It serves to attach the light fitting to the wall with the possibility of its positioning.



Code	Type	Description	Weight [kg]
90002	BZ	side hanger with blocking (set for 1 light fitting)	0,4

Canalis busbar system connector

The connector enables a quick 1 phase or 3 phase interconnection of light fittings without their opening.



Code	Type	Description	Weight [kg]
79001	KBA 40 ZU	light fitting suspended holder - Canalis KBA system	0,1
70002	KBC 10 CC211	connector with 1 m cable - Canalis KBA system	0,2

Light fitting inputs

The version with four inputs in the body side for types 2.4ft and 2.5ft can be made-to-order.



Stucchi or Wieland connector

The connector enables a quick 1 phase or 3 phase interconnection of light fittings without their opening.

