

# FUTURA CLASS II



... with Class II insulation.

## USE

It is suitable for **industrial, warehouse and agricultural buildings, sports premises, transport terminals, railway vehicle repair shops, platforms, traction substations, depots, parking lots and garages, workshops and laboratories** without explosion hazard.

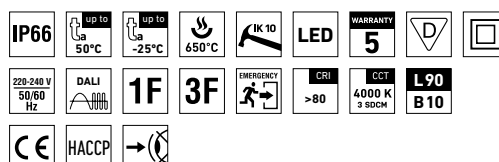
The light fitting resists dust, humidity and spouting water. The body and the diffuser made of PC material have high mechanical resistance against impact and deformation.

Easy, fast and maximally **efficient mounting is achieved when using the cables with connectors delivered by us.**

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

## ADVANTAGES

- Light fitting protection **IP66**
- Maximum ambient temperature up to  **$t_a = 50^\circ\text{C}$**
- Lifetime: 50,000 hours / L90B10
- Lifetime: 100,000 hours / L80B10
- Diffuser: translucent polycarbonate (PC) = high mechanical resistance
- Body: grey polycarbonate (PC) = 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  $-25^\circ\text{C}$
- 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
- Available in ABS chemical resistant version
- Through-wiring of up to 6 wires at body (2.4ft and 2.5ft)

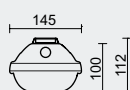
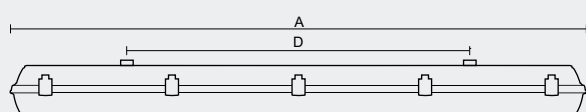


## FUTURA CLASS II PC, PCc



## TECHNICAL DESCRIPTION

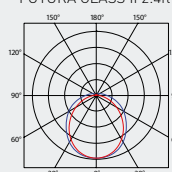
- Light fitting protection: IP66
- Maximum ambient temperature:  $t_a = 50^\circ\text{C}$ , Maximum ambient temperature:  $t_a = 0-40^\circ\text{C}$  (version with emergency back-up M3hAt)
- Maximum system efficacy: 164 lm/W
- Emergency light module generates a luminous flux of 445 lm
- The watt and lumen values can vary by  $\pm 7,5\%$
- Standard model - CRI > 80: 4000 K
- MacAdam = 3 SDCM
- Lifetime: 50,000 hours / L90B10
- Lifetime: 100,000 hours / L80B10
- Diffuser: translucent 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
- **External terminal block** 2 or 4-pole, conductor cross-sectional area: 1.5 or 2.5 mm<sup>2</sup>, or 6-pole Wieland connector (DALI 3F)
- Installation: package contains stainless hooks and stainless brackets
- Electric equipment: LED modules, current driver or current driver DALI



## UGR EVALUATED FOR

X = 4 H, Y = 8 H S = 0.25 H  
Reflectivity 70/50/20

FUTURA CLASS II 2.4ft



Type	Max. ambient temperature [°C]	Luminous flux of LED modules [lm]	Luminous flux of light fitting [lm]	Power consumption [W]	System efficacy [lm/W]	UGR Longitudinal/transverse	Net weight [kg]	A [mm]	D [mm]
For ambient temperature $t_a = 50^\circ\text{C}$ - body: grey polycarbonate with Al coolers - diffuser: translucent polycarbonate									
FUTURA 2.2ft CLASS II PC 3200/840	50	3250	3060	20,1	152	24.2 / 22.1	1,35	612	475
FUTURA 2.2ft CLASS II PC 4400/840	45	4680	4400	28,3	155	25.4 / 23.5	1,35	612	475
FUTURA 2.4ft CLASS II PC 6400/840	50	6520	6130	38,4	160	24.4 / 22.5	2,35	1172	700
FUTURA 2.4ft CLASS II PC 8800/840	45	8980	8440	52,8	160	25.5 / 23.6	2,35	1172	700
FUTURA 2.5ft CLASS II PC 8000/840	50	8330	7830	48,3	162	24.5 / 22.6	2,85	1452	940
FUTURA 2.5ft CLASS II PC 11000/840	45	11260	10580	64,7	164	25.5 / 23.7	2,85	1452	940

47560 FUTURA 2.2ft CLASS II PC 3200/840 = suitable replacement for T8 fl. tube light fitting PRIMA 218 - 2 × 18W

47590 FUTURA 2.4ft CLASS II PC 6400/840 = suitable replacement for T8 fl. tube light fitting PRIMA 236 - 2 × 36W

47630 FUTURA 2.5ft CLASS II PC 8000/840 = suitable replacement for T8 fl. tube light fitting PRIMA 258 - 2 × 58W

## FUTURA CLASS II PC

Code	Type
47560	FUTURA 2.2ft CLASS II PC 3200/840
47570	FUTURA 2.2ft CLASS II PC 4400/840
47590	FUTURA 2.4ft CLASS II PC 6400/840
47600	FUTURA 2.4ft CLASS II PC 8800/840
47630	FUTURA 2.5ft CLASS II PC 8000/840
47640	FUTURA 2.5ft CLASS II PC 11000/840

Non-dimmable driver - plastic clips

1F	3F	M3hAt	3F M3hAt
x	x	109499	x
x	x	109500	x
47591	47593	109502	109508
47601	47603	109503	109509
47631	47633	109505	109511
47641	47643	109506	109512

## FUTURA CLASS II PCc

Code	Type
47670	FUTURA 2.2ft CLASS II PCc 3200/840
47680	FUTURA 2.2ft CLASS II PCc 4400/840
47700	FUTURA 2.4ft CLASS II PCc 6400/840
47710	FUTURA 2.4ft CLASS II PCc 8800/840
47740	FUTURA 2.5ft CLASS II PCc 8000/840
47750	FUTURA 2.5ft CLASS II PCc 11000/840

Non-dimmable driver - stainless clips (c)

1F	3F	M3hAt	3F M3hAt
x	x	109514	x
x	x	109515	x
47701	47703	109517	109523
47711	47713	109518	109524
47741	47743	109520	109526
47751	47753	109521	109527

## FUTURA CLASS II PC DALI

Digital dimmable driver DALI - plastic clips

Code	Type	1F	3F	M3hAt	3F M3hAt
47780	FUTURA 2.2ft CLASS II PC 3200/840 DALI	x	x	109529	x
47790	FUTURA 2.2ft CLASS II PC 4400/840 DALI	x	x	109530	x
47810	FUTURA 2.4ft CLASS II PC 6400/840 DALI	47811	47813	109532	109538
47820	FUTURA 2.4ft CLASS II PC 8800/840 DALI	47821	47823	109533	109539
47850	FUTURA 2.5ft CLASS II PC 8000/840 DALI	47851	47853	109535	109541
47860	FUTURA 2.5ft CLASS II PC 11000/840 DALI	47861	47863	109536	109542

## FUTURA CLASS II PCc DALI

Digital dimmable driver DALI - stainless clips (c)

Code	Type	1F	3F	M3hAt	3F M3hAt
47890	FUTURA 2.2ft CLASS II PCc 3200/840 DALI	x	x	109544	x
47900	FUTURA 2.2ft CLASS II PCc 4400/840 DALI	x	x	109545	x
47920	FUTURA 2.4ft CLASS II PCc 6400/840 DALI	47921	47923	109547	109553
47930	FUTURA 2.4ft CLASS II PCc 8800/840 DALI	47931	47933	109548	109554
47960	FUTURA 2.5ft CLASS II PCc 8000/840 DALI	47961	47963	109550	109556
47970	FUTURA 2.5ft CLASS II PCc 11000/840 DALI	47971	47973	109551	109557

## LEGEND

- 1F** - 1-phase 2 core through-wiring in the luminaire  
**3F** - 3-phase 4 core through-wiring in the luminaire  
**M3hAt** - emergency back-up source with 3 hour operating time for maintained emergency illumination with battery autotest  
**3F M3hAt** - 3-phase 4 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 4 core through-wiring in the luminaire  
**DALI 3F** - 3-phase 6 core through-wiring in the luminaire  
**DALI 3F M3hAt** - 3-phase 6 core through-wiring in the luminaire (L3 used for emergency unit unswitched power supply)

## LIGHT FITTING ATTACHMENT

- a) Directly to a ceiling or a wall with the use of screws and stainless brackets  
b) Suspension with the use of stainless hooks  
c) Attachment with the use of side hangers to the wall - is not included in accessories



## LIGHT FITTING DETAILED VIEW

FUTURA CLASS II

