



**Hazardous**  
Lighting Solutions LTD



# FUTURA



*Dustproof, waterproof, and impact-resistant.*



INDUSTRIAL BUILDINGS



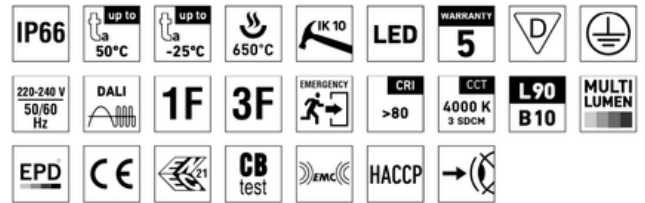
WAREHOUSES



WORKSHOPS



GARAGES



## MECHANICAL FEATURES

- Housing:** Grey polycarbonate
- Diffuser:** Translucent polycarbonate
- Ingress protection:** IP66
- Mounting:** Suitable for suspended, ceiling, wall, and surface mounting via stainless hooks and brackets

## ELECTRICAL FEATURES

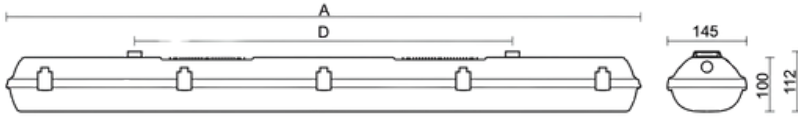
- Electric equipment:** LED modules, fixed output driver or DALI driver
- Wiring:** Optional through wiring (up to 10 wires inside light fitting)
- Certification:** EPD, ENEC, CB, HACCP
- Maximum System Efficacy:** 167 lm/W

## WORK PARAMETERS

- Ambient Temperatures:** up to 50°C
- Lifetime:** 50.000h L90 B10

## PHOTOMETRICAL PARAMETERS

- CRI:** >80 standard
- Colour temperature:** 4000K - standard
- CRI >80:** 3000K, 5000K, 6500K - on request
- CRI >90:** 3000K, 4000K, 5000, 6500K - on request



**UGR EVALUATED FOR**  
 X = 4 H, Y = 8 H    S = 0.25 H  
 Reflectivity            70/50/20



| 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 $t_a = 50\text{ °C}$ – body: grey polycarbonate with Al coolers – diffuser: translucent polycarbonate |                               |                                   |                                     |                       |                        |                               |                 |        |        |
| FUTURA 2.2ft PC Al 3200/840 *   | 50                            | 3250                              | 3060                                | 20.1                  | 152                    | 24.2 / 22.1                   | 1.45            | 612    | 475    |
| FUTURA 2.2ft PC Al 4400/840 *   | 45                            | 4680                              | 4400                                | 28.3                  | 155                    | 25.4 / 23.5                   | 1.45            | 612    | 475    |
| FUTURA 2.4ft PC Al 6400/840 *   | 50                            | 6520                              | 6130                                | 38.4                  | 160                    | 24.4 / 22.5                   | 2.45            | 1172   | 700    |
| FUTURA 2.4ft PC Al 8800/840 *   | 45                            | 8980                              | 8440                                | 52.8                  | 160                    | 25.5 / 23.6                   | 2.45            | 1172   | 700    |
| FUTURA 2.4ft PC Al 12800/840  | 35                            | 12920                             | 12140                               | 74.8                  | 162                    | 26.7 / 24.9                   | 2.65            | 1172   | 700    |
| FUTURA 2.5ft PC Al 8000/840 *   | 50                            | 8330                              | 7830                                | 48.3                  | 162                    | 25.4 / 23.5                   | 2.95            | 1452   | 940    |
| FUTURA 2.5ft PC Al 11000/840  | 45                            | 11260                             | 10580                               | 64.7                  | 164                    | 25.5 / 23.7                   | 2.95            | 1452   | 940    |
| FUTURA 2.5ft PC Al 16000/840  | 35                            | 16100                             | 15130                               | 92.7                  | 163                    | 26.7 / 24.9                   | 3.25            | 1452   | 940    |

\*) Also available with MultiLumen function:

| Type                           | Step2 Luminous Flux (lm) | Step2 Power (W) | Step2 System Efficacy (lm/W) | Step3 Luminous Flux (lm) | Step3 Power (W) | Step3 System Efficacy (lm/W) | Step4 Luminous Flux (lm) | Step Power (W) | Step4 System Efficacy (lm/W) |
|--------------------------------|--------------------------|-----------------|------------------------------|--------------------------|-----------------|------------------------------|--------------------------|----------------|------------------------------|
| FUTURA 2.2ft PC Al 3200/840 ML | 2650                     | 17.3            | 153                          | 2240                     | 14.5            | 154                          | 1810                     | 12.3           | 147                          |
| FUTURA 2.2ft PC Al 4400/840 ML | 3830                     | 24.2            | 158                          | 3240                     | 20.3            | 160                          | 2610                     | 16.4           | 159                          |
| FUTURA 2.4ft PC Al 6400/840 ML | 5310                     | 32.9            | 161                          | 4470                     | 27.4            | 163                          | 3630                     | 22             | 165                          |
| FUTURA 2.4ft PC Al 8800/840 ML | 7320                     | 44.9            | 163                          | 6190                     | 37.4            | 166                          | 5020                     | 30.1           | 167                          |
| FUTURA 2.5ft PC Al 8000/840 ML | 6790                     | 41.5            | 164                          | 5740                     | 34.6            | 166                          | 4640                     | 27.9           | 166                          |

## FUTURA PC AL

| Code  | Type                           | 1F    | 3F    | M3hAt  | 3F M3hAt |
|-------|--------------------------------|-------|-------|--------|----------|
| 75020 | FUTURA 2.2ft PC Al 3200/840 ML | x     | x     | 109059 | x        |
| 75030 | FUTURA 2.2ft PC Al 4400/840 ML | x     | x     | 109060 | x        |
| 75050 | FUTURA 2.4ft PC Al 6400/840 ML | 75150 | 75350 | 109062 | 109068   |
| 75060 | FUTURA 2.4ft PC Al 8800/840 ML | 75160 | 75360 | 109063 | 109069   |
| 75410 | FUTURA 2.4ft PC Al 12800/840   | 75411 | 75412 | x      | x        |
| 75080 | FUTURA 2.5ft PC Al 8000/840 ML | 75180 | 75380 | 109065 | 109071   |
| 75090 | FUTURA 2.5ft PC Al 11000/840   | 75190 | 75390 | 109066 | 109072   |
| 75420 | FUTURA 2.5ft PC Al 16000/840   | 75421 | 75422 | x      | x        |

## FUTURA PC AL

| Code  | Type                            | 1F    | 3F    | M3hAt  | 3F M3hAt |
|-------|---------------------------------|-------|-------|--------|----------|
| 75220 | FUTURA 2.2ft PCc Al 3200/840 ML | x     | x     | 109089 | x        |
| 75230 | FUTURA 2.2ft PCc Al 4400/840 ML | x     | x     | 109090 | x        |
| 75250 | FUTURA 2.4ft PCc Al 6400/840 ML | 75550 | 75650 | 109092 | 109098   |
| 75260 | FUTURA 2.4ft PCc Al 8800/840 ML | 75560 | 75660 | 109093 | 109099   |
| 75430 | FUTURA 2.4ft PCc Al 12800/840   | 75431 | 75432 | x      | x        |
| 75280 | FUTURA 2.5ft PCc Al 8000/840 ML | 75580 | 75680 | 109095 | 109101   |
| 75290 | FUTURA 2.5ft PCc Al 11000/840   | 75590 | 75690 | 109096 | 109102   |
| 75440 | FUTURA 2.5ft PCc Al 16000/840   | 75441 | 75442 | x      | x        |

## FUTURA PC AL DALI

| Code  | Type                            | 1F    | 3F    | M3hAt  | 3F M3hAt |
|-------|---------------------------------|-------|-------|--------|----------|
| 75220 | FUTURA 2.2ft PCc Al 3200/840 ML | x     | x     | 109089 | x        |
| 75230 | FUTURA 2.2ft PCc Al 4400/840 ML | x     | x     | 109090 | x        |
| 75250 | FUTURA 2.4ft PCc Al 6400/840 ML | 75550 | 75650 | 109092 | 109098   |
| 75260 | FUTURA 2.4ft PCc Al 8800/840 ML | 75560 | 75660 | 109093 | 109099   |
| 75430 | FUTURA 2.4ft PCc Al 12800/840   | 75431 | 75432 | x      | x        |
| 75280 | FUTURA 2.5ft PCc Al 8000/840 ML | 75580 | 75680 | 109095 | 109101   |
| 75290 | FUTURA 2.5ft PCc Al 11000/840   | 75590 | 75690 | 109096 | 109102   |
| 75440 | FUTURA 2.5ft PCc Al 16000/840   | 75441 | 75442 | x      | x        |

## FUTURAL PCc AL DALI

| Code  | Type                               | 1F    | 3F    | M3hAt  | 3F M3hAt |
|-------|------------------------------------|-------|-------|--------|----------|
| 75223 | FUTURA 2.2ft PCc Al 3200/840 DALI  | x     | x     | 109104 | x        |
| 75233 | FUTURA 2.2ft PCc Al 4400/840 DALI  | x     | x     | 109105 | x        |
| 75253 | FUTURA 2.4ft PCc Al 6400/840 DALI  | 75553 | 75653 | 109107 | 109113   |
| 75263 | FUTURA 2.4ft PCc Al 8800/840 DALI  | 75563 | 75663 | 109108 | 109114   |
| 75470 | FUTURA 2.4ft PCc Al 12800/840 DALI | 75471 | 75472 | x      | x        |
| 75283 | FUTURA 2.5ft PCc Al 8000/840 DALI  | 75583 | 75683 | 109110 | 109116   |
| 75293 | FUTURA 2.5ft PCc Al 11000/840 DALI | 75593 | 75693 | 109111 | 109117   |
| 75480 | FUTURA 2.5ft PCc Al 16000/840 DALI | 75481 | 75482 | x      | x        |

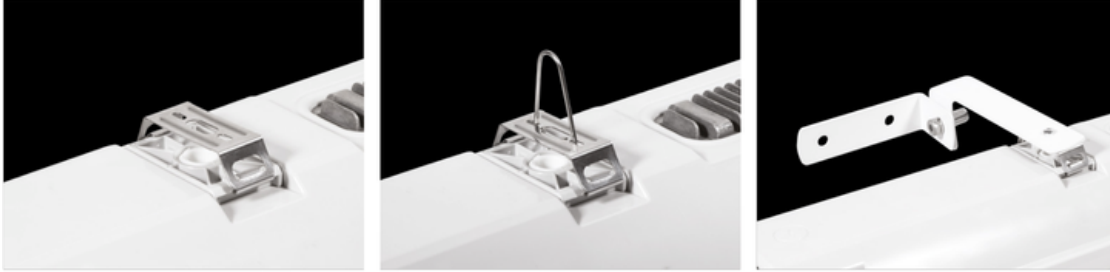
## LEGEND

**1F** - 1-phase 3 core through-wiring in the luminaire  
**3F** - 3-phase 5 core through-wiring in the luminaire  
**M3hAt** - emergency back-up source with 3 hour operating time for maintained emergency illumination with battery autotest  
**3F M3hAt** - 3-phase 5 core through-wiring in the luminaire (L3 used for emergency unit unswitched power supply)

**DALI** - version with digital dimmable driver DALI  
**DALI 1F** - 1-phase 5 core through-wiring in the luminaire  
**DALI 3F** - 3-phase 7 core through-wiring in the luminaire  
**DALI 3F M3hAt** - 3-phase 7 core through-wiring in the luminaire (L3 used for emergency unit unswitched power supply)

## LIGHT FITTING ATTACHMENT

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



## LIGHT FITTING ATTACHMENT

### FUTURA

