

#### FEATURES

- Reliable solution without power supply
- Smooth flicker-free dimming to 0,1%
- Practically no inrush current
- Warm dim version available

#### COLOURS

Available colours:

Matt white RAL 9016 (XX=MW)  
Matt black RAL 9005 (XX=BL)

#### SPRINGS

Standard with GS spring (concrete/gyproc). Also available as above with WS spring (gyproc/metal).

HV-FD 40°

HV-FD 80°

## Linea 120 HV-FD

Fixed

#### DRIVERLESS

Can be connected  
directly to  
220-240V

### SPECIFICATIONS

|                                           |                                                                                                                               |
|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Input voltage                             | 220-240Vac                                                                                                                    |
| Beam angle (FWHM)                         | 40° / 80°                                                                                                                     |
| Fixture material                          | Housing: Die cast aluminium / Reflector glass: Polycarbonate                                                                  |
| Environment                               | Indoor                                                                                                                        |
| IK rate                                   | IK03                                                                                                                          |
| Inrush current (peak / duration)          | <100mA / 0 µs (soft start)                                                                                                    |
| Max. quantity per type B 16A              | 360 pcs.                                                                                                                      |
| Mains surge capability (between L - N)    | 2 kV (differential mode (DM))                                                                                                 |
| Mains surge capability (between L/N - PE) | 4 kV (common mode (CM))                                                                                                       |
| % Flicker (Conform IEEE P1789 Standard)   | Typical 0,4%                                                                                                                  |
| Flicker index                             | <0,1                                                                                                                          |
| Dimming range                             | 100-1%                                                                                                                        |
| THD                                       | 15%                                                                                                                           |
| Operating temperature (Ta)                | -20°C / +45°C <sup>1</sup>                                                                                                    |
| Safety marks                              | EN60598 / EN62031 / EN62471                                                                                                   |
| EMC compliance                            | EN55015                                                                                                                       |
| Colour consistency (SDCM)                 | MacAdam step 3                                                                                                                |
| Warranty                                  | 7 years * (within the European Union and the countries of the Free Trade Association for products delivered after 1 May 2015) |
| Energy class                              | These products contains a light source of energy efficiency class G                                                           |

This luminaire contains built-in LED lamps. There are no exchangeable parts inside the luminaire. EU 874/2012

<sup>1</sup> In applications with a flat roof (fi. car showrooms) the temperatures may exceed 45°C. Please ask our sales office for a special driver.



Only when the product is installed in a closed ceiling it may be exposed to water splashes, and only on its front side.  
<sup>1</sup> Not for HV-FD 40° version.

IP20

IP65

## LINEA 120 220-240V



**Connection box 3P**  
82x43x26 mm  
Possibility for looping by 2 cables  
max. Ø 10mm (H03/H05).

### ITEM SPECIFICATIONS (PART A)

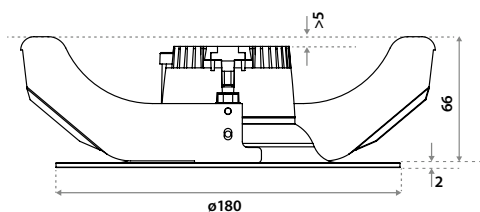
| Description                                     | Item code GS | Item code WS | Input    | W    | Lm  | Lm/W | CRI (typ.) | UGR  | Pf   |
|-------------------------------------------------|--------------|--------------|----------|------|-----|------|------------|------|------|
| Linea 120 HV-FD 2700K 800 Lm 40° Triac dim      | 892A03XX5J02 | 892A03XX8A02 | 220-240V | 10,5 | 800 | 76   | 93         | 10.5 | 0.99 |
| Linea 120 HV-FD 3000K 800 Lm 40° Triac dim      | 892A03XX5L02 | 892A03XX8C02 | 220-240V | 10,3 | 800 | 78   | 93         | 10.5 | 0.99 |
| Linea 120 HV-FD 4000K 600 Lm 40° Triac dim      | 892A03XX5N02 | 892A03XX8E02 | 220-240V | 10,1 | 600 | 59   | 93         | 9.5  | 0.99 |
| Linea 120 HV-FD 2200-3000K 600 Lm 40° Triac dim | 892A03XX5Q02 | 892A03XX8G02 | 220-240V | 10,3 | 600 | 58   | 93         | 9.5  | 0.99 |
| Linea 120 HV-FD 2700K 800 Lm 80° Triac dim      | 892A03XX5K02 | 892A03XX8B02 | 220-240V | 10,5 | 800 | 76   | 93         | 21.7 | 0.99 |
| Linea 120 HV-FD 3000K 800 Lm 80° Triac dim      | 892A03XX5M02 | 892A03XX8D02 | 220-240V | 10,3 | 800 | 78   | 93         | 21.7 | 0.99 |
| Linea 120 HV-FD 4000K 600 Lm 80° Triac dim      | 892A03XX5P02 | 892A03XX8F02 | 220-240V | 10,1 | 600 | 59   | 93         | 20.6 | 0.99 |
| Linea 120 HV-FD 2200-3000K 600 Lm 80° Triac dim | 892A03XX5R02 | 892A03XX8H02 | 220-240V | 10,3 | 600 | 58   | 93         | 20.6 | 0.99 |

### ITEM SPECIFICATIONS (PART B)

| Description                                     | Safety class | Energy class | Weight | Dimensions single carton | Quantity per carton | Expected lifespan (25°C) |             |             |
|-------------------------------------------------|--------------|--------------|--------|--------------------------|---------------------|--------------------------|-------------|-------------|
|                                                 |              |              |        |                          |                     | L70B50                   | L80B50      | L90B50      |
| Linea 120 HV-FD 2700K 800 Lm 40° Triac dim      | I            | G            | 555 gr | 233x233x85 mm            | 20 pcs              | >70.000 hrs              | >70.000 hrs | >54.000 hrs |
| Linea 120 HV-FD 3000K 800 Lm 40° Triac dim      | I            | G            | 555 gr | 233x233x85 mm            | 20 pcs              | >70.000 hrs              | >70.000 hrs | >54.000 hrs |
| Linea 120 HV-FD 4000K 600 Lm 40° Triac dim      | I            | G            | 555 gr | 233x233x85 mm            | 20 pcs              | >70.000 hrs              | >70.000 hrs | >54.000 hrs |
| Linea 120 HV-FD 2200-3000K 600 Lm 40° Triac dim | I            | G            | 555 gr | 233x233x85 mm            | 20 pcs              | >70.000 hrs              | >70.000 hrs | >54.000 hrs |
| Linea 120 HV-FD 2700K 800 Lm 80° Triac dim      | I            | G            | 555 gr | 233x233x85 mm            | 20 pcs              | >70.000 hrs              | >70.000 hrs | >54.000 hrs |
| Linea 120 HV-FD 3000K 800 Lm 80° Triac dim      | I            | G            | 555 gr | 233x233x85 mm            | 20 pcs              | >70.000 hrs              | >70.000 hrs | >54.000 hrs |
| Linea 120 HV-FD 4000K 600 Lm 80° Triac dim      | I            | G            | 555 gr | 233x233x85 mm            | 20 pcs              | >70.000 hrs              | >70.000 hrs | >54.000 hrs |
| Linea 120 HV-FD 2200-3000K 600 Lm 80° Triac dim | I            | G            | 555 gr | 233x233x85 mm            | 20 pcs              | >70.000 hrs              | >70.000 hrs | >54.000 hrs |

All values are measured at 230V (+/- 7%)

### DIMENSIONS



### HOLE SIZE



**Using GS springs:** Ø 120-165 mm.  
Thickness ceiling 8-70 mm & recess depth 70 mm. For plasterboard ceilings or similar harder materials. Turn the ring on the front counterclockwise after installation.



**Using WS springs:** Ø 120 mm.  
Thickness ceiling 1-35 mm & recess depth 70 mm. For soft ceiling tiles. We recommend using a wooden plate or a ceiling ring on the reverse side of the tile.

## RECOMMENDED DIMMER LIST ILLUXTRON HV-FD DOWNLIGHTS

|    | Manufacturer                                               | Product ID          | Type | Power  | Neutral | RCS | Range |     |
|----|------------------------------------------------------------|---------------------|------|--------|---------|-----|-------|-----|
|    | Flush mounted dimmers                                      |                     |      |        | 1)      | 2)  | min   | max |
| 1  | ABB-Busch&Jaeger                                           | 6523 UR 103         | RLC  | 2-400  | X       | x   | 0,2   | 100 |
| 2  | CTM Lyng                                                   | MDimLed             | LED  | 1-200  | Y       | x   | 0,0   | 100 |
| 3  | Gira Berker Jung                                           | 1183 00/I01         | RL   | 20-500 | X       | ?   | 0,0   | 99  |
| 4  | Gira Berker Jung                                           | 1184 00/I01         | R    | 60-200 | X       | x   | 0,2   | 97  |
| 5  | Legrand                                                    | 0 02671             | LED  | 3-75   | Y       | ?   | 6,3   | 96  |
| 6  | Legrand (Btinico)                                          | L-N-NT4411N         | LED  | 3-75   | X       | ?   | 3,4   | 95  |
| 7  | Lumiko /Klemko                                             | D-PAF-200-LED       | RC   | 1-200  | X       | x   | 0,0   | 98  |
| 8  | Lutron                                                     | RRK-R25NE-240       | LED  | 1-250  | Y       | x   | 0,1   | 98  |
| 9  | Niko                                                       | 310-0190X           | Uni  | 5-325  | Y       | ✓   | 0,0   | 98  |
| 10 | Niko                                                       | 310-0290X           | LED  | 3-300  | X       | ✓   | 0,1   | 99  |
| 11 | Niko                                                       | 310-0390X           | Uni  | 3-200  | X       | ✓   | 0,0   | 95  |
| 14 | Feller                                                     | 40600 RL            | RL   | 20-300 | X       | x   | 0,0   | 96  |
| 15 | Merten                                                     | SBD SPL             | RL   | 9-100  | X       | ?   | 0,2   | 100 |
| 16 | Merten                                                     | SBD600 RL           | RL   | 40-600 | X       | x   | 0,0   | 96  |
| 17 | Simon Electric                                             | DS9T2               |      | 5-315  | Y       | x   | 0,1   | 100 |
| 18 | Unilamp/Belid                                              | KDT 250 E-I         | LED  | 5-250  | X       | ?   | 0,7   | 98  |
| 19 | Unilamp/Luzense                                            | KTD-500 E4          | LED  | 5-500  | X       | x   | 0,4   | 100 |
|    | Wireless remote controlled dimmers (Bluetooth, Zigbee, RF) |                     |      |        | 1)      | 2)  | min   | max |
| 20 | Casambi                                                    | CBU-TED Bluetooth   | RC   | 1-100  | Y       | x   | 0,1   | 100 |
| 21 | Dimmax (Trump)                                             | 420BLE              | RLC  | 1-380  | Y       |     |       |     |
| 22 | Eaton LED                                                  | CDAU-01/04          | RLC  | 0-250  | Y       | x   | 2,0   | 100 |
| 23 | RAKO                                                       | RMT-500             | RC   | 1-500  | Y       | ✓   | 0,0   | 100 |
| 24 | RAKO                                                       | RMT-PILL            | RC   | 1-250  | Y       | ✓   | 0,1   | 98  |
|    | Wired remote control dimmers ( pulse, Din-rail etc)        |                     |      |        | 1)      | 2)  | min   | max |
| 25 | Dimmax (Trump)                                             | 420SL               | RLC  | 1-200  | Y       | x   | 2,1   | 98  |
| 26 | Eltako                                                     | EUD61NPN-UC         | RLC  | 400    | Y       | x   | 2,9   | 95  |
| 27 | Niko                                                       | 330-0700(=330-0701) | LED  | 5-350  | Y       | ✓   | 0,1   | 100 |
| 28 | Qbus                                                       | Dim02SA/500         | uni  | 2-500  | Y       | ✓   | 0,1   | 100 |

1) Y = neutral required; X = no neutral required

2) x = sensitive to RCS signals e.g. flicker; ✓ = not sensitive to RCS

This list is based on measurements in a lab environment with nominal voltage, a different voltage may result in a different dimming range. Dimmer manufacturers may change the technical design of the dimmer without informing LED lamp suppliers. These changes can influence the performance of LED products. Illuxtron cannot be held responsible for inaccuracies in the compatibility lists due to technical changes in dimmers. Disclaimer: Illuxtron will not accept claims for any damage caused by implementing the recommendations in this document.