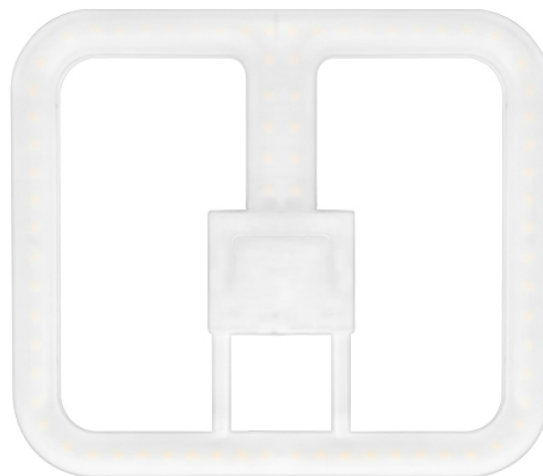


# LED 2D 4PIN

## 8W/12W/16W

### Features

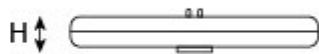
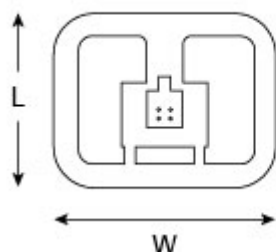
- Energy saving with low power consumption
- Perfect retrofit fluorescent 2D lamps in CCG circuits
- LED 2D 4PIN is not suitable for ECG Circuit. The ECG should be bypassed for AC connection
- For direct connection with AC
- Instant full brightness
- Smooth operation even at low temperatures
- No mercury and hazardous substances
- Voltage: 220-240Vac, 50/60Hz, Power Factor: 0.9
- Good color rendition, Ra ≥80



### Diagrams

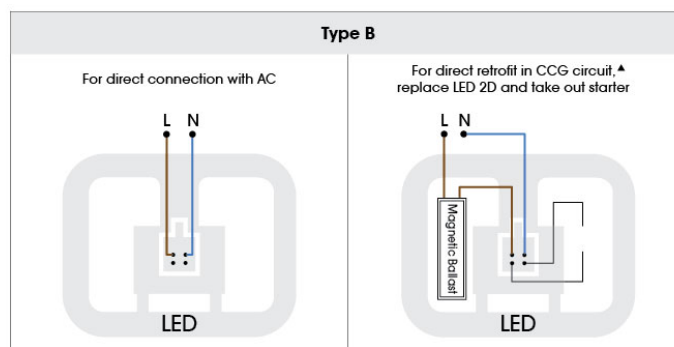
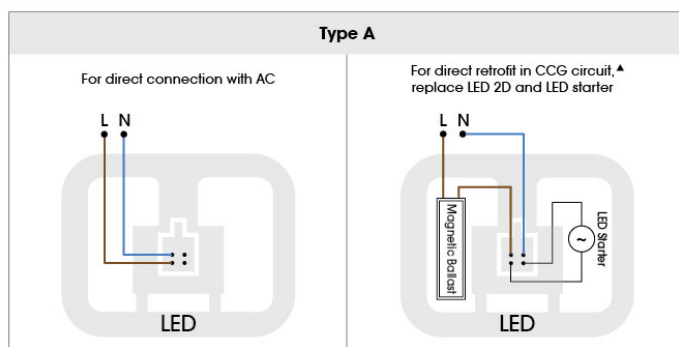
#### Dimensions:

GR10q base



| (Unit : mm) | (L)   | (W)   | (H) |
|-------------|-------|-------|-----|
| 8W          | 128 x | 150 x | 24  |
| 12W         | 182 x | 211 x | 24  |
| 16W         | 182 x | 211 x | 24  |

#### Circuits:



Direct 220 - 240Vac input. Integral LED driver

▲ This LED 2D 4PIN is not suitable for ECG Circuit. Please bypass the ECG for AC connection

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## Standards



## Applications



Home



Office



Shopping mall



Hotel



Supermarket



Restaurant

## Technical Data

## Type of Light Source

|                                           |      |
|-------------------------------------------|------|
| Lighting Technology Used                  | LED  |
| Non-directional or Directional [NDLS/DLS] | NDLS |
| Mains or Non-mains [MLS/NMLS]             | MLS  |
| Connected Light Source                    | No   |
| Color tunable light source                | No   |
| Envelop [No/Second/Non-Clear]             | No   |
| High Luminance Light Source               | No   |
| Anti-glare Shield                         | No   |

## Electrical

|                             |                     |
|-----------------------------|---------------------|
| Rated Wattage [W]           | 8W / 12W / 16W      |
| On-mode Power [W]           | 8W / 12W / 16W      |
| Standby Power [W]           | N/A                 |
| Networked Standby Power [W] | N/A                 |
| Rated Voltage [V/Hz]        | 220-240Vac, 50/60Hz |
| Power Factor @230V          | 0.9                 |
| Input Current [mA] @230V    | 39 / 58 / 77        |

## Model

|                         |     |
|-------------------------|-----|
| LED TP 2D/16-8W/8XX/4P  | 8W  |
| LED TP 2D/28-12W/8XX/4P | 12W |
| LED TP 2D/38-16W/8XX/4P | 16W |

## Luminous Flux (Useful Luminous Flux) [lm]

|     |               |
|-----|---------------|
| 8W  | 825lm @2700K  |
|     | 840lm @3000K  |
|     | 840lm @3500K  |
|     | 860lm @4000K  |
|     | 880lm @6500K  |
| 12W | 1235lm @2700K |

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|                                           |                                                                                                    |
|-------------------------------------------|----------------------------------------------------------------------------------------------------|
|                                           | 1260lm @3000K                                                                                      |
|                                           | 1260lm @3500K                                                                                      |
|                                           | 1300lm @4000K                                                                                      |
|                                           | 1320lm @6500K                                                                                      |
| 16W                                       | 1650lm @2700K                                                                                      |
|                                           | 1680lm @3000K                                                                                      |
|                                           | 1680lm @3500K                                                                                      |
|                                           | 1730lm @4000K                                                                                      |
|                                           | 1800lm @6500K                                                                                      |
| <b>Performance</b>                        |                                                                                                    |
| SDCM                                      | <6                                                                                                 |
| Chromaticity coordinates [x, y]           | 0.463, 0.42@2700K / 0.44, 0.403@3000K / 0.408, 0.395@3500K / 0.38, 0.38@4000K / 0.312, 0.335@6500K |
| Efficacy [lm/W]                           | 103-113                                                                                            |
| Color Rendering Index [Ra]                | ≥80                                                                                                |
| R9 colour rendering index value           | 2                                                                                                  |
| Beam Angle [°]                            | 140                                                                                                |
| Rated Life, Ta@25°C [hrs]                 | 25,000                                                                                             |
| Survival Factor                           | 0.9                                                                                                |
| Lumen Maintenance Factor                  | 0.96                                                                                               |
| Number of Switching Cycles Before Failure | >12,500                                                                                            |
| Starting Time [S]                         | <0.5                                                                                               |
| Warm Up Time [S]                          | <2                                                                                                 |
| Premature Failure At 1000hrs              | <5%                                                                                                |
| Displacement Factor [cosØ]                | 0.5 / 0.7 / 0.7                                                                                    |
| Flicker Metric [Pst LM]                   | 1                                                                                                  |
| Stroboscopic Effect Metric [SVM]          | 0.4                                                                                                |
| <b>Mechanical</b>                         |                                                                                                    |
| Length L [mm]                             | 128 / 182 / 182                                                                                    |
| Width W [mm]                              | 150 / 211 / 211                                                                                    |
| Height H [mm]                             | 24                                                                                                 |
| Base                                      | GR10q                                                                                              |
| Material                                  | PC                                                                                                 |
| <b>Standard Compliance</b>                |                                                                                                    |
| CE-LVD                                    | EN62560                                                                                            |
| CE-EMC                                    | EN55015, EN61547, EN61000-3-2, EN61000-3-3                                                         |
| CE-EMF                                    | EN62493                                                                                            |
| Environment                               | RoHS                                                                                               |
| Mercury Content [mg]                      | 0.0                                                                                                |
| Energy Class                              | 2700K / 3000K / 3500K / 4000K / 6500K                                                              |
| 8W                                        | F / F / F / F / E                                                                                  |
| 12W                                       | F / F / F / F / E                                                                                  |
| 16W                                       | F / F / F / F / E                                                                                  |
| <b>Other</b>                              |                                                                                                    |

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|                                              |                      |
|----------------------------------------------|----------------------|
| Dimmable [Yes/Only with specific dimmers/No] | No                   |
| Operation Temperature                        | -20°C ~ 50°C         |
| Storage Temperature                          | -10°C ~ 30°C         |
| Claim of Equivalent Power, 8W [W]            | 16W                  |
| Claim of Equivalent Power, 12W [W]           | 28W                  |
| Claim of Equivalent Power, 16W [W]           | 38W                  |
| Energy Consumption in on-mode [kWh/1000h]    | 8kWh / 12kWh / 16kWh |