

# LED Downlight JDL176

SPECIFICATION



# Introduction



◀ JDL176 down light with traditional deep reflector (UGR<19) that provides perfect combination of high lighting efficiency, comfortable lighting and humanization design, without compromising on light performance (color rendering and color uniformity); It offers a wide choice of options for creating the desired ambience.

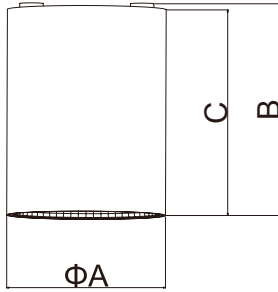
## Features

1. High luminous efficiency.
2. 24°, 36°, 60° beam angle optional.
3. Easy installation and maintenance.
4. UGR<19 (not available for 25/35W 60° beam angle).

## Application Areas

It is designed for general lighting applications in hotel, home, office, shop etc. It is also widely used for public areas such as stairway, lobby, reception, corridors etc.





## Measurement

| Model      | Dimension(mm) |       |     | Size(mm) | Product Weight (Kg) |        | Package weight (Kg) |         | Carton Size(cm) | Qty/CTN | 20GP (pcs) | 40HQ (pcs) |
|------------|---------------|-------|-----|----------|---------------------|--------|---------------------|---------|-----------------|---------|------------|------------|
|            | A             | B     | C   |          | N.W/PC              | G.W/PC | N.W/CTN             | G.W/CTN |                 |         |            |            |
| JDL176-15W | 100.4         | 133.8 | 130 | Ø100*134 | 0.65                | 0.74   | 11.7                | 14.32   | 38*37.5*36      | 18      | 9720       | 23436      |
| JDL176-25W | 120.4         | 143.8 | 140 | Ø120*144 | 0.84                | 0.99   | 10.08               | 12.88   | 47*31.5*38      | 12      | 6120       | 14448      |
| JDL176-35W | 170           | 159   | 155 | Ø170*159 | 1.45                | 1.65   | 8.7                 | 10.8    | 60.5*21*41      | 6       | 3060       | 7524       |

## Technical Data Sheet

| Model No.               |       |         | JDL176-15W                                    | JDL176-25W   | JDL176-35W |
|-------------------------|-------|---------|---|--------------|------------|
| Watt(W)                 |       |         | 15W   | 25W          | 35W        |
| Dimension(mm)           |       |         | Ø100.4*133.8                                  | Ø120.4*143.8 | Ø170*159   |
| Rated Input Voltage(V)  |       |         | AC230V  |              |            |
| Input Voltage(V)        |       |         | AC200-240V                                    |              |            |
| LED                     |       |         | COB   |              |            |
| SDCM                    |       |         | -   |              |            |
| CCT(K)                  |       |         | 1-CCT: 2700K / 3000K / 4000K / 5000K          |              |            |
| "Luminous Flux (lm) ±5% | 1-CCT | Non-DIM | 1400~1750                                     | 2300~2800    | 3200~3900  |
|                         |       | DIM     | 1300~1670                                     | 2180~2660    | 3040~3710  |
| CRI                     |       |         | ≥80   |              |            |
| Beam Angle (°)          |       |         | 24° / 36° / 60°                               |              |            |
| UGR                     |       |         | < 19 (not available for 25/35W 60°beam angle) |              |            |
| LED Driver              |       |         | Built-in                                      |              |            |
| DIM                     |       |         | Triac   |              |            |
| CCT Selection Switch    |       |         | No  |              |            |
| Protection Class        |       |         | Class I                                       |              |            |
| IK Rating               |       |         | IK03  |              |            |
| IP Rating               |       |         | IP54  |              |            |
| Finishing color         |       |         | White RAL 9016                                |              |            |
| Material                |       |         | Aluminum                                      |              |            |
| Lifetime (hr)           |       |         | 50,000  |              |            |
| Glow wire test (°C)     |       |         | 850°C   |              |            |
| Operating Temp.(°C)     |       |         | -20°C ~45°C                                   |              |            |
| Storage Temp.(°C)       |       |         | -20°C ~65°C                                   |              |            |
| Installation            |       |         | Surface mount                                 |              |            |
| Brand Driver option     |       |         | -   |              |            |

## Driver Datasheet (Non-Dimmable)

| Power                       | 15W                   | 25W                 | 35W      |
|-----------------------------|-----------------------|---------------------|----------|
| Rated Input Voltage(V)      | AC230V                |                     |          |
| Frequency                   | 50/60Hz               |                     |          |
| Input Voltage               | AC200-240V            |                     |          |
| Efficiency                  | 84%                   | 86%                 | 86%      |
| Total load wattage          | 15W±1W                | 25W±5%              | 35W±5%   |
| Power Factor                | 0.9                   | 0.9                 | 0.9      |
| Rated Input Current         | ≤0.09A                | ≤0.15A              | ≤0.2A    |
| Full load output voltage    | DC30-40V              | DC30-40V            | DC30-40V |
| Rated output current        | 350mA                 | 600mA               | 860mA    |
| Output current range        | 350mA±5%              | 600mA±5%            | 860mA±5% |
| Power tolerance             | ±5%                   |                     |          |
| Current output tolerance    | ±5%                   |                     |          |
| Short circuit protection    | PASS                  |                     |          |
| Over voltage protection     | PASS                  |                     |          |
| Over temperature protection | PASS                  |                     |          |
| THD                         | <20% @ 230V           |                     |          |
| Surge                       | L-N 0.5KV / LN-PE 1KV | L-N 1KV / LN-PE 2KV |          |
| Withstand voltage           | AC3750V               |                     |          |

## Driver Datasheet (Triac Dimmable)

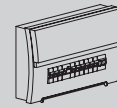
| Power                       | 15W                   | 25W                 | 35W      |
|-----------------------------|-----------------------|---------------------|----------|
| Rated Input Voltage(V)      | AC230V                |                     |          |
| Frequency                   | 50Hz                  |                     |          |
| Input Voltage               | AC200-240V            |                     |          |
| Power Factor                | 0.9                   |                     |          |
| Efficiency                  | 83%                   | 83%                 | 85%      |
| Total load wattage          | 15W±1W                | 25W±5%              | 35W±5%   |
| Rated Input Current         | ≤0.09A                | ≤0.14A              | ≤0.2A    |
| Full load output voltage    | DC30-40V              | DC30-40V            | DC30-40V |
| Rated output current        | 350mA                 | 580mA               | 800mA    |
| Output current range        | 350mA±5%              | 580mA±5%            | 800mA±5% |
| Power tolerance             | ±5%                   |                     |          |
| Current output tolerance    | ±5%                   |                     |          |
| Dimming Range               | 8%-100%               |                     |          |
| Short circuit protection    | PASS                  |                     |          |
| Over voltage protection     | PASS                  |                     |          |
| Over temperature protection | PASS                  |                     |          |
| THD                         | <20%@230V             |                     |          |
| Surge                       | L-N 0.5KV / LN-PE 1KV | L-N 1KV / LN-PE 2KV |          |
| Withstand voltage           | AC3750V               |                     |          |

Note: DALI & 0-10V driver specification, please refer to individual driver datasheet.

# Installation Procedure

## WARNING

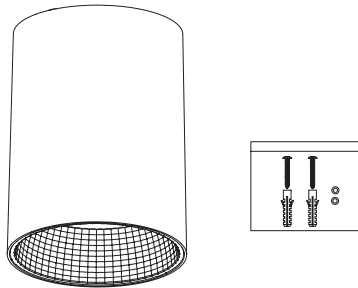
1. Switch off before installation maintenance.
2. Switch on only after complete installation and examination of the circuit.
3. Professional electrician for installation and maintenance only.



Turn Off power supply before starting any installation. Read instructions & check you have all the tools & accessories to complete the installation correctly.

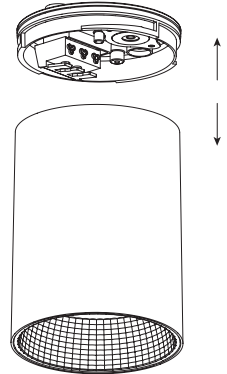
## Installation

### Step 1



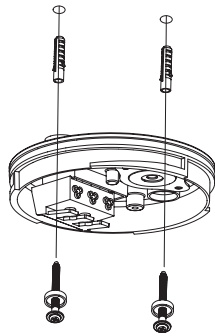
Take out the fitting and accessories.

### Step 2



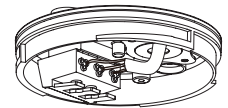
Take out the bracket from the fitting.




### Step 3



Knock the plastic anchor into ceiling, fix the bracket on the ceiling.

### Step 4



-  L = BROWN
-  N = BLUE
-  ⊕ = YELLOW-GREEN

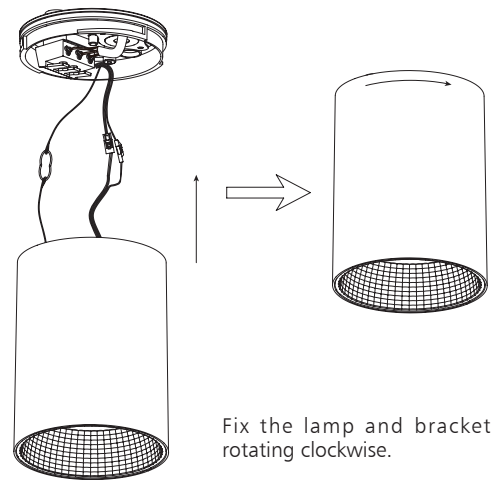
Connect the main wires to the terminal in the bracket.

### Step 5



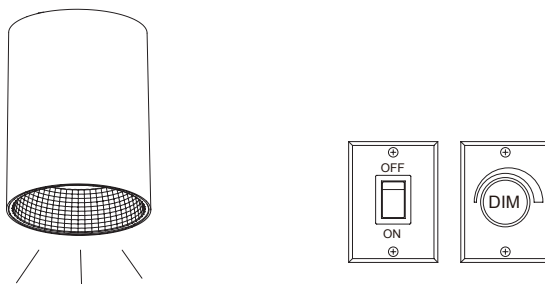
Connect the safety rope, and plug the earth wire connector, then plug the male and female connector.

### Step 6



Fix the lamp and bracket by rotating clockwise.

### Step 7





LED THERE BE LIGHT

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Read installation instructions carefully. Technical information on the installation instruction has precedence over the information in the brochure.

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