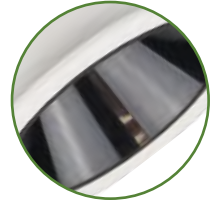


# RECESSED MOUNT COB MOVEABLE DOWNLIGHT



MODEL: AD/L2012-7W- ☐ K

**Classification** IP20/ IP40/ IP44

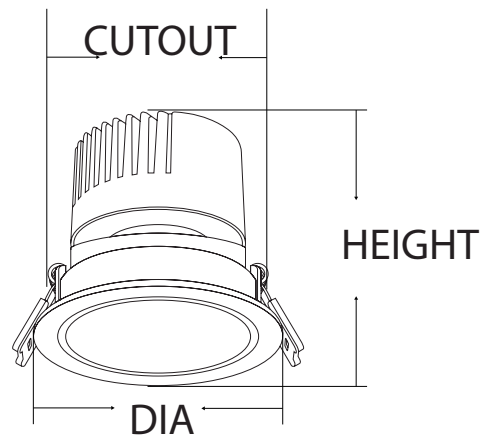
**Application** Luminaires designed for indoor use for commercial and Exhibition Locations, Hotels, Conference Room, Factory, Office House, Airport, Metro Station, School, Hospital, and other Public places.

**Installation** Recessed mount on false ceiling.

**Material** ALUMINIUM

|                                           |               |       |
|-------------------------------------------|---------------|-------|
| <b>Correlated Color Temperature (CCT)</b> | Cold White    | 6500K |
|                                           | Neutral White | 4000K |
|                                           | Warm White    | 3000K |

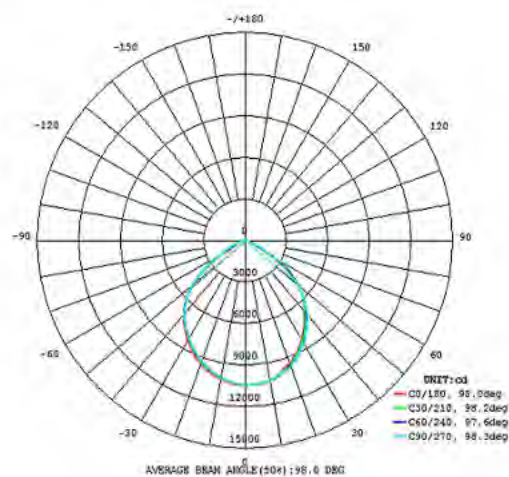
## Dimension and Mounting Details



## General Specifications

| POWER | D(MM) | H(MM) | C(MM) | WEIGHT(KG) | LUMENS |
|-------|-------|-------|-------|------------|--------|
| 7W    | Ø85   | 81    | Ø77   | 0.200      | 490lm  |

## Light intensity Distribution



## Technical Parameters

|                          | AL ADWAA                                          |
|--------------------------|---------------------------------------------------|
| Power                    | 7W                                                |
| Light Source             | COB                                               |
| Color Temperature        | 3000K/4000K/6500K                                 |
| Ingress Protection       | IP20/ IP40/ IP44                                  |
| Input Voltage, Frequency | AC110-240V, 50/60Hz                               |
| Ambient Temperature (Ta) | -10...50°C                                        |
| Application              | Indoor Use                                        |
| Emergency Option         | Available with emergency pack for minimum 3 hours |

### GENERAL CHARACTERSTICS

|                         |                 |
|-------------------------|-----------------|
| Shape                   | Circular        |
| Diffuser Type           | Prismatic Lens  |
| Light Surface Area (cm) | Ø6.5            |
| Finish                  | Matt            |
| Life Time (hours)       | 30,000h         |
| Switching Cycles        | 15,000 On / OFF |

### LIGHT CHARACTERSTICS

|                             |                          |
|-----------------------------|--------------------------|
| Rated Luminous Flux         | 490lm                    |
| Color Rendering Index (CRI) | >80                      |
| Displacement Factor         | >0.9                     |
| Efficacy                    | 70lm/W                   |
| Beam Angle                  | 30°                      |
| Lamp Type                   | Direct                   |
| Color Consistency           | < 6 Step MacAdam Ellipse |
| Non-Dimmable Light          | YES                      |
| Lumen Maintenance           | >80%                     |
| Starting Time               | < 1 Second               |

# CHIP DATA SHEET

COB 1X7W - TQ0-1311A-0702BA

## Features & Benefits

- Extremely wide viewing angle.
- Suitable for all soldering process.
- Low thermal resistance.
- Moisture sensitivity level: Level 5.
- RoHS compliant.



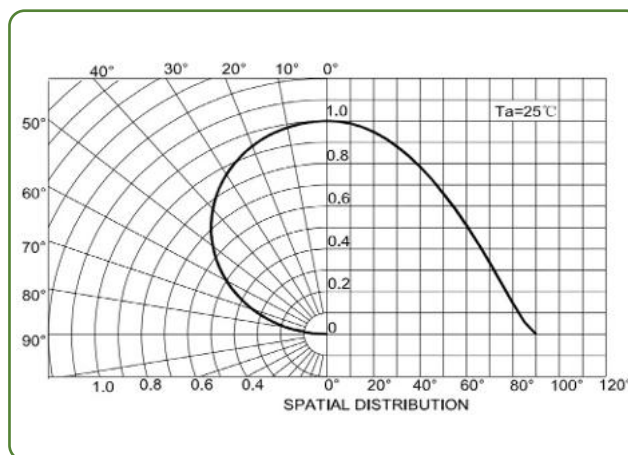
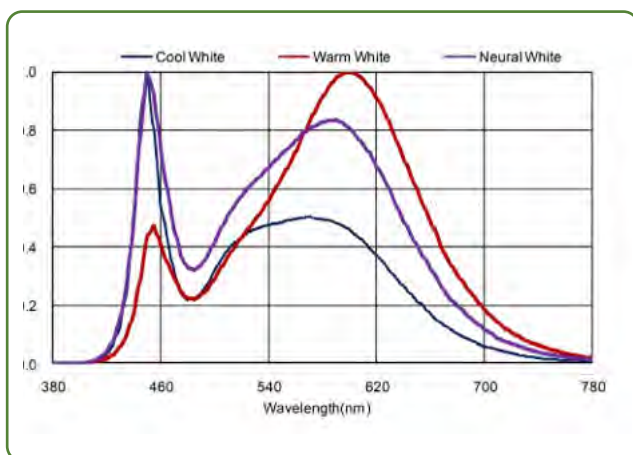
## Description

This TYF COB package has high efficacy, high Ra, low power consumption, wide viewing angle and a compact form factor. These features make the package an ideal LED for lighting applications.



## Applications

- Indoor general lighting
- Spotlights
- Downlights
- Uplights



## Photoelectric parameters

| PARAMETER             | SYMBOL | MIN                            | TYP | MAX  | UNITS |
|-----------------------|--------|--------------------------------|-----|------|-------|
| Limiting power        | P      | --                             | 7.0 | 10.5 | W     |
| Forward Voltage       | VF     | 20                             | 21  | 22   | V     |
| Forward Current       | IF     | --                             | 320 | 460  | mA    |
| Operating Temperature | TC     | -40                            | --  | 85   | °C    |
| Junction Temperature  | Tj     | --                             | --  | 125  | °C    |
| Storage Temperature   | Tstg   | -40                            | --  | 105  | °C    |
| ESD Sensitivity       | ESD    | --                             | --  | 2000 | V     |
| Reverse Voltage       | VR     | Reverse testing is not allowed |     |      | /     |
| Reverse Current       | IR     |                                |     | 5    | μA    |
| Soldering Temperature | Tsld   | 350°C/3-5sec.                  |     |      | °C/S  |

### Notes:

1. Luminous flux measurement tolerance:  $\pm 5\%$
2. Forward voltage tolerance is  $\pm 0.1V$
3. CRI measurement tolerance:  $\pm 2$

# Driver Data Sheet

## LED DRIVER 7W - ADD7W285mA

Driver Image



### 1. Dimensions :

| Length | Width  | Height |
|--------|--------|--------|
| 64.5mm | 31.5mm | 22mm   |

### 2. Input & Output Parameters :

| Parameter            | Min   | Normal | Max   |
|----------------------|-------|--------|-------|
| Input Voltage (Vac)  | 100V  | 220V   | 265V  |
| Input Power          | 6.2W  | 7.4W   | 8.1W  |
| Power Factor         | 0.90  | 0.90   | 0.90  |
| Output Voltage (Vdc) | 20V   | 21V    | 22V   |
| Output Current (mA)  | 270mA | 280mA  | 285mA |
| Efficiency           | 88%   | 90%    | 92%   |
| Surge                | 1.5KV | 1.5KV  | 1.5KV |

### Ordering Information

| Model No.      | Power | CCT   | CBM   |
|----------------|-------|-------|-------|
| AD/L2012-7W-3K | 7W    | 3000K | ????? |
| AD/L2012-7W-4K |       | 4000K |       |
| AD/L2012-7W    |       | 6500K |       |