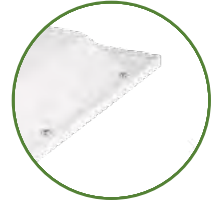


# RECESSED MOUNT LED PANEL BACKLIGHT



MODEL: AD/L2100-  W  -  K

## Classification

IP20/ IP40/ IP44

## Application

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

## Installation

Recessed mount on false ceiling.

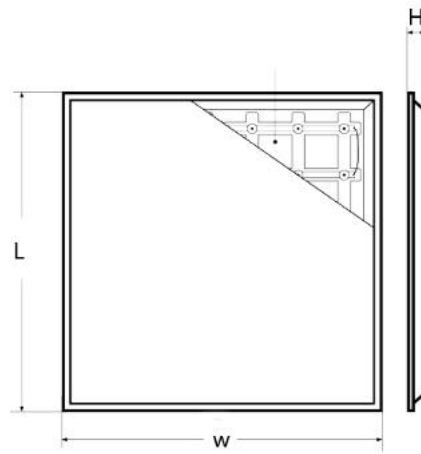
## Material

STEEL/ALUMINIUM

## Correlated Color Temperature (CCT)

|               |       |
|---------------|-------|
| Cold White    | 6500K |
| Neutral White | 4000K |
| Warm White    | 3000K |

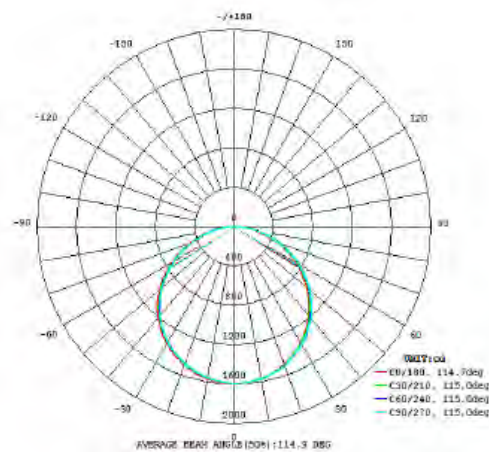
## Dimension and Mounting Details



## General Specifications

| SIZE   | POWER | L(MM) | W(MM) | H(MM) | WEIGHT(KG) | LUMENS |
|--------|-------|-------|-------|-------|------------|--------|
| 60X60  | 60W   | 596   | 596   | 33    | 1.580      | 4800lm |
| 30X120 | 60W   | 1210  | 301   | 33    | 2.300      | 4200lm |
| 30X60  | 30W   | 601   | 301   | 33    | 1.040      | 2400lm |
| 60X120 | 120W  | 1212  | 600   | 57    | 4.700      | 9600lm |
| 30X30  | 30W   | 302   | 302   | 35    | 0.700      | 2400lm |

## Light intensity Distribution



## Technical Parameters

|                          | AL ADWAA                                          |     |     |      |     |
|--------------------------|---------------------------------------------------|-----|-----|------|-----|
| Power                    | 60W                                               | 60W | 30W | 120W | 30W |
| Light Source             | SMD Chip                                          |     |     |      |     |
| Color Temperature        | 3000K/4000K/6500K                                 |     |     |      |     |
| Ingress Protection       | IP20/ IP40/ IP44                                  |     |     |      |     |
| Input Voltage, Frequency | AC110-240V, 50/60 Hz                              |     |     |      |     |
| Ambient Temperature (Ta) | -10...50°C                                        |     |     |      |     |
| Application              | Indoor Use                                        |     |     |      |     |
| Emergency Option         | Available with emergency pack for minimum 3 hours |     |     |      |     |

### GENERAL CHARACTERSTICS

|                         |                 |            |           |            |           |
|-------------------------|-----------------|------------|-----------|------------|-----------|
| Shape                   | Rectangular     |            |           |            |           |
| Diffuser Type           | Opal Plastic    |            |           |            |           |
| Light Surface Area (cm) | 55.5X55.5       | 116.8X25.8 | 55.8X25.8 | 116.3X55.5 | 25.8X25.8 |
| Finish                  | Matt            |            |           |            |           |
| Life Time (hours)       | 30,000h         |            |           |            |           |
| Switching Cycles        | 15,000 On / OFF |            |           |            |           |

### LIGHT CHARACTERSTICS

|                             |                          |        |        |        |        |
|-----------------------------|--------------------------|--------|--------|--------|--------|
| Rated Luminous Flux         | 4800lm                   | 4200lm | 2400lm | 9600lm | 2400lm |
| Color Rendering Index (CRI) | >80                      |        |        |        |        |
| Displacement Factor         | >0.9                     |        |        |        |        |
| Efficacy                    | 80lm/W                   | 70lm/W | 80lm/W | 80lm/W | 80lm/W |
| Beam Angle                  | 120°                     |        |        |        |        |
| Lamp Type                   | Direct                   |        |        |        |        |
| Color Consistency           | < 6 Step MacAdam Ellipse |        |        |        |        |
| Non-Dimmable Light          | YES                      |        |        |        |        |
| Lumen Maintenance           | >80%                     |        |        |        |        |
| Starting Time               | < 1 Second               |        |        |        |        |

# CHIP DATA SHEET

## LED CHIP 1W - Z-2835-XXX-3C-Y

### Features & Benefits

- Extremely wide viewing angle.
- Suitable for all SMT assembly and soldering process.
- Available on tape and reel.
- Moisture sensitivity level: Level 5.
- Package: 4,000pcs/reel or 20,000pcs/reel.
- RoHS compliant.



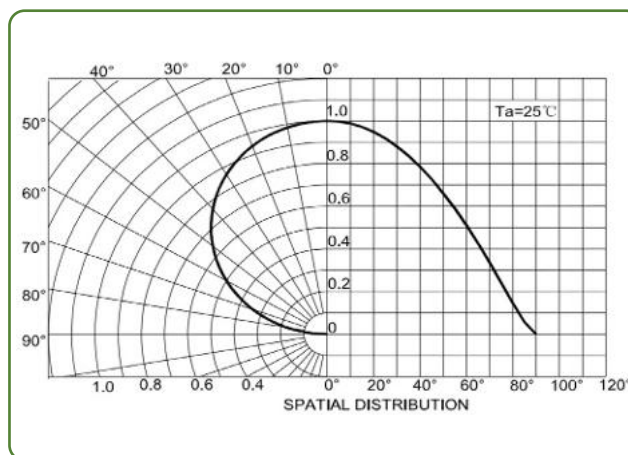
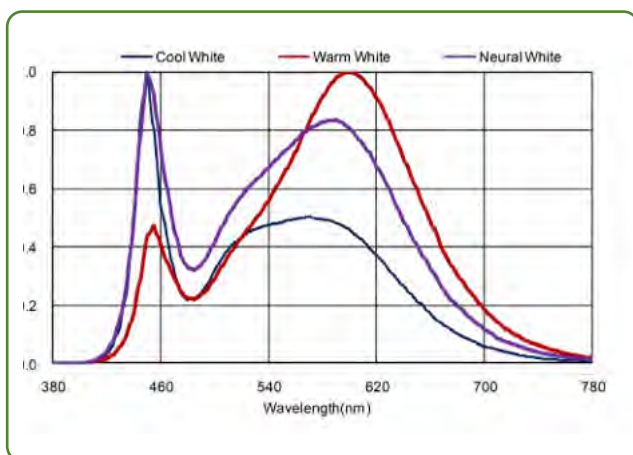
### Description

The White LED which was fabricated using a blue chip and the phosphor



### Applications

- Optical indicator
- Indoor display
- Automotive lighting
- Backlight for LCD, switch and Symbol, display
- Outdoor lighting
- General use



## Photoelectric parameters

| PARAMETER                                       | SYMBOL | RATING    | UNITS |
|-------------------------------------------------|--------|-----------|-------|
| Power dissipation                               | Pd     | 960       | mW    |
| Forward current                                 | If     | 100       | mA    |
| Reverse voltage                                 | Vr     | 5         | V     |
| Operating temperature                           | Topr   | -20~+85   | °C    |
| Storage temperature range                       | Tstg   | -35~+85   | °C    |
| Pulse forward Current<br>(Duty cycle 1/10@1KHz) | Ifg    | 150       | mA    |
| Electrostatic Discharge HBM)                    | ESD    | 2000(HBM) | V     |
| Work lamp bead foot temperature                 | Tp     | ≤85       | °C    |

## Electrical-optical characteristics(Ta=25°C)

| PARAMETER                                         | TEST CONDI-TION | SYMBOL | MIN | TYPICAL | MAX | UNITS |
|---------------------------------------------------|-----------------|--------|-----|---------|-----|-------|
| Forward voltage                                   | If=150mA        | Vf     | 9.0 | --      | 9.9 | V     |
| Luminous flux                                     |                 | Φ      | 135 | --      | 145 | Lm    |
| Viewing angle at 50% Iv                           |                 | 2θ 1/2 | --  | 120     | --  | Deg   |
| Reverse current                                   | Vr=5V           | Ir     | 0   | 0       | 1   | μ A   |
| Color Index                                       | If=150mA        | Ra     | --  | 80      | --  | --    |
| Junction temperature                              |                 | Tj     | --  | --      | 115 | °C    |
| Thermal Resistance<br>(Junction /Soldering point) |                 | Rthj-s | --  | 18      | --  | °C/W  |

Notes:

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

# Driver Data Sheet

## LED DRIVER 60W - ADD60W500mA

Driver Image



### 1. Dimensions :

| Length | Width | Height |
|--------|-------|--------|
| 160mm  | 30mm  | 22mm   |

### 2. Input & Output Parameters :

| Parameter            | Min   | Normal | Max   |
|----------------------|-------|--------|-------|
| Input Voltage (Vac)  | 100V  | 220V   | 265V  |
| Output Voltage (Vdc) | 90V   | 107V   | 110V  |
| Output Current (mA)  | 485mA | 500mA  | 500mA |
| Power Factor         | 0.90  | 0.90   | 0.90  |
| Efficiency           | 86.5% | 91%    | 90%   |
| Surge                | 0.5KV | 0.5KV  | 0.5KV |

## Ordering Information

| Model No.          | Size   | Power | CCT   | CBM |
|--------------------|--------|-------|-------|-----|
| AD/L2100-60W01-3K  | 60X60  | 60W   | 3000K |     |
| AD/L2100-60W01-4K  |        |       | 4000K |     |
| AD/L2100-60W01     |        |       | 6500K |     |
| AD/L2100-60W02-3K  | 30X120 | 60W   | 3000K |     |
| AD/L2100-60W02-4K  |        |       | 4000K |     |
| AD/L2100-60W02     |        |       | 6500K |     |
| AD/L2100-30W03-3K  | 30X60  | 30W   | 3000K |     |
| AD/L2100-30W03-4K  |        |       | 4000K |     |
| AD/L2100-30W03     |        |       | 6500K |     |
| AD/L2100-120W04-3K | 60X120 | 120W  | 3000K |     |
| AD/L2100-120W04-4K |        |       | 4000K |     |
| AD/L2100-120W04    |        |       | 6500K |     |
| AD/L2100-30W05-3K  | 30X30  | 30W   | 3000K |     |
| AD/L2100-30W05-4K  |        |       | 4000K |     |
| AD/L2100-30W05     |        |       | 6500K |     |