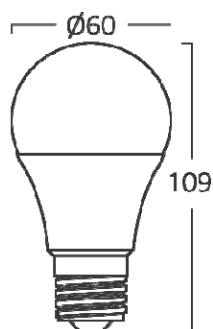


## Product Datasheet



Products Family : Bulbs & Tubes  
Products Name : A Shape Bulbs

**Datasheet is valid for following Model numbers**

Product Code	CCT	Socket
BA13-01220	3000K	E27
BA13-01221	4000K	E27
BA13-01223	6500K	E27

Manufacturer:  
Demgrup international lighting limited  
unit d 16/f,one capital place,18 luard road  
wan chai, Hong Kong  
[www.demgrup.com.tr](http://www.demgrup.com.tr)

Importer / Company:  
Braytron S.R.L  
Bulevardul iuliu maniu,nr.616, corp B  
etaj 1 sector 6,061129 bucuresti, Romania  
[info@braytron.com](mailto:info@braytron.com) [www.braytron.com](http://www.braytron.com)

**Test condition:light for 30 mins under nominal voltage input and 25°C±1°working environment**

## General Characteristics

- Family : Bulbs & Tubes
- Sub Family : A Shape Bulbs
- Mounting Type : Socket
- Lamp Shape : Non-Directional
- Dimmable : Not-Dimmable
- Light Source : LED
- Socket : E27
- Warranty : 2 yrs
- Class : CLASS II
- IP : IP20

## Lamp Characteristics

- Wattage : 12 w
- Color Temperature : 3000K/4000K/6500K
- Luminous Flux(whole Product) : 1055 lm
- Luminous Flux(LED System) : 1055 lm
- Color Rendering Index(CRI) : > 80
- Energy Efficiency Level : F
- Beam Angle : 180 degree(s)
- Chromaticity(SDCM) : < 6

## Electrical Characteristics

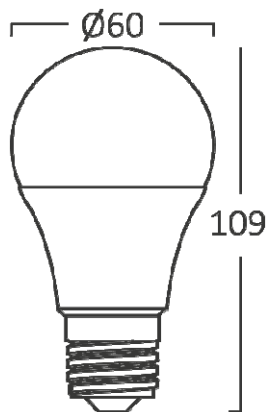
- Lifetime (L70B50) : 15000 hrs
- Input Voltage : 220-240V
- Frequency : 50-60 Hz
- Power Factor : >0,5
- Starting Time : < 0.5 s
- Lumen Maintenance Factor : > 0.899
- Number of Switch Cycles : > 12500
- Material : Thermoplastic
- Working Temperature : -20°C~+45°C
- Storage Temperature : -20°C~+60°C
- Environment humidity(working) : 10%~65%

Test condition:light for 30 mins under nominal voltage input and 25°C±1°working environment

## Lamp Dimensions & Weight

- Diameter : 60 mm
- Height : 109 mm
- Weight(Net) : 28 gr
- Cutout :

## Technical Drawing(s)



## Reliability requirements and Test Conditions

- **Lumen maintenance**

Lumen maintenance is not lower than 89.9% after lighting for 2.5h on and 0.5h off for one cycle.  
Total 1200 cycle and 3600h including 3000h on and 600h off.

- **Working life (L70B50)**

Under nominal voltage input, working life is forced not lower than 15000 h at 25°C±1°C

- **Remarks:**

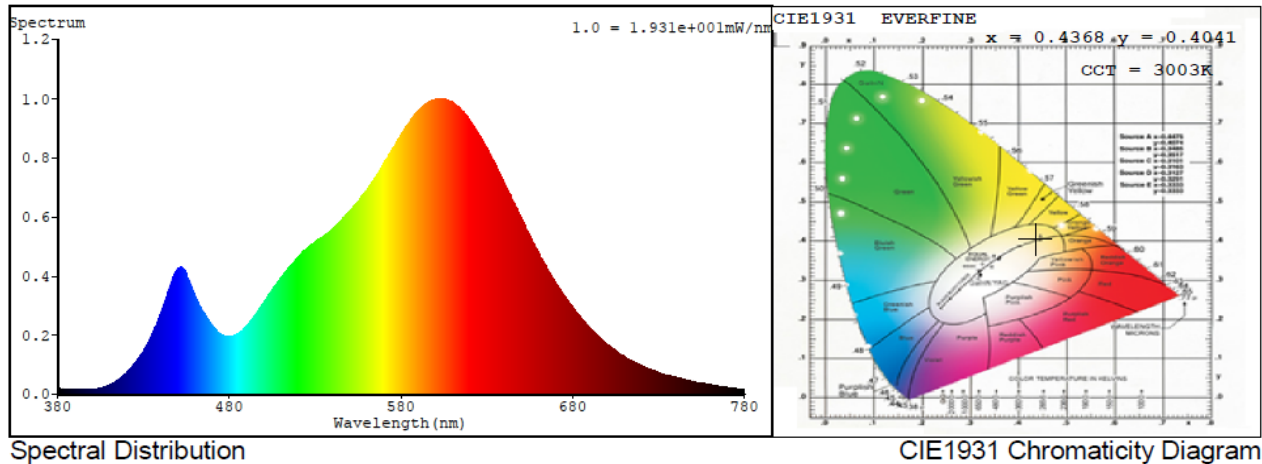
Declared values above may vary ±5



Test condition: light for 30 mins under nominal voltage input and 25°C±1° working environment

Optical and electrical test parameter:

## Spectrum



Spectral Distribution

CIE1931 Chromaticity Diagram

## Colorimetric Parameters

Chromaticity Coordinate:  $x = 0.4368$   $y = 0.4041$  /  $u' = 0.2505$   $v' = 0.5214$  ( $duv = 1.59e-05$ )  $Dx, Dy: 0.0000, 0.0000$

CCT= 3003K Prcp WL:  $L_d = 582.8\text{nm}$  Purity=52.4%

Peak WL:  $L_p = 603\text{nm}$  FWHM: =132.2nm Ratio: R=24.6% G=0.0% B=0.0%

Render Index:  $R_a = 82.5$  CRI = 77.1 AvgR = 76.8

R1 =81 R2 =90 R3 =97 R4 =81 R5 =81 R6 =88 R7 =83

R8 =59 R9 =7 R10=78 R11=80 R12=73 R13=83 R14=99 R15=73

## Photometric & Radiometric Parameters

Flux = 1025.4 lm Eff. : 101.58 lm/W  $F_e = 3.1677\text{ W}$

Tb: 20.0 deg

## Electrical parameters

V = 231.1 V I = 0.08138 A P = 10.09 W PF = 0.5368