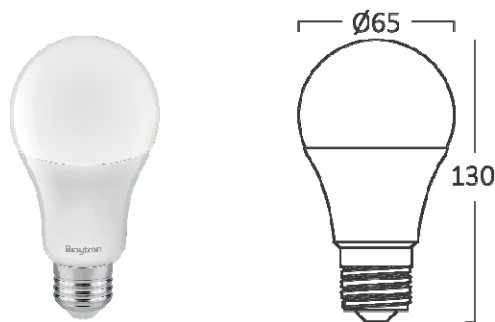


## Product Datasheet



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

### Datasheet is valid for following Model numbers

Product Code	CCT	Socket
BA13-01520	3000K	E27
BA13-01521	4000K	E27
BA13-01523	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 : 15 w
- Color Temperature : 3000K/4000K/6500K
- Luminous Flux(whole Product) : 1350 lm
- Luminous Flux(LED System) : 1350 lm
- Color Rendering Index(CRI) : > 80
- Energy Efficiency Level : F
- Beam Angle : 180 degree(s)
- Chromaticity(SDCM) : < 6

## Electrical Characteristics

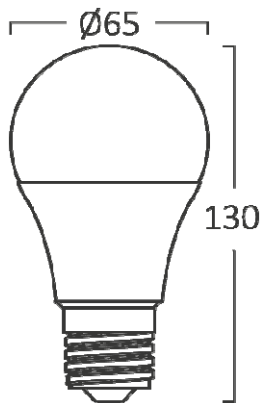
- Lifetime (L70B50) : 15000 hrs
- Input Voltage : 220-240V
- Frequency : 50-60 Hz
- Power Factor : >0,5
- Starting Time : < 0.5 s
- Lumen Maintenance Factor : > 0.899
- Number of Switch Cycles : > 12500
- Material : Thermoplastic
- Working Temperature : -20°C~+45°C
- Storage Temperature : -20°C~+60°C
- 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 : 65 mm
- Height : 130 mm
- Weight(Net) : 42 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:**

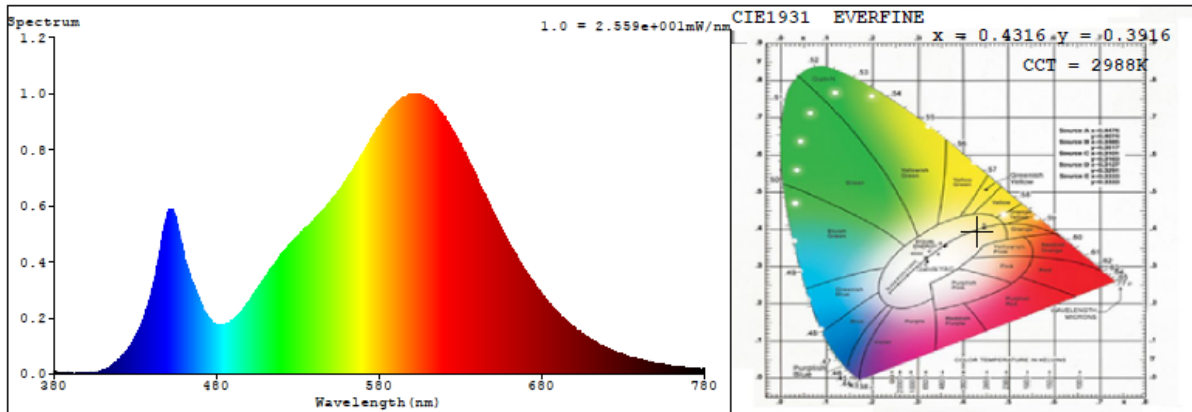
Declared values above may vary ±5



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:  $x = 0.4316$   $y = 0.3916$  /  $u' = 0.2525$   $v' = 0.5156$  ( $duv = -4.34e-03$ )  $Dx, Dy: -0.0062, -0.0128$

CCT= 2988K Prcp WL:  $L_d = 584.6nm$  Purity=47.1%

Peak WL:  $L_p = 605nm$  FWHM: =125.9nm Ratio: R=22.9% G=74.6% B=2.5%

Render Index:  $R_a = 80.7$

R1 =79 R2 =90 R3 =95 R4 =77 R5 =79 R6 =87 R7 =81  
 R8 =57 R9 =4 R10=76 R11=74 R12=69 R13=82 R14=98 R15=73

**Photometric & Radiometric Parameters**

Flux = 1244.2 lm Eff. : 110.78 lm/W  $F_e = 3.8582 W$

**Electrical parameters**

V = 230.2 V I = 0.09069 A P = 11.23 W PF = 0.5381 F=50.00 Hz