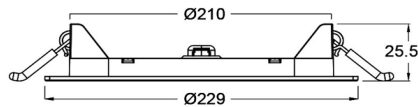


## Product Datasheet



Products Family : Led Lighting Fixture  
Products Name : LED Panel Light

### Datasheet is valid for following Model numbers

| Product Code | CCT   | Body Color |
|--------------|-------|------------|
| BP01-61800   | 3000K | White      |
| BP01-61810   | 4000K | White      |
| BP01-61830   | 6500K | White      |

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 : Led Lighting Fixture
- Sub Family : LED Panel Light
- Mounting Type : Recessed Mounting
- Lamp Shape : Non-Directional
- Dimmable : Not-Dimmable
- Light Source : LED
- Warranty : 2 years
- Class : Class II
- IP : IP40

## Lamp Characteristics

- Wattage : 18 w
- Color Temperatue : 3000K/4000K/6500K
- Luminous Flux(whole Product) : 1760 lm
- Luminous Flux(LED System) : 1760 lm
- Color Rendering Index(CRI) : > 80
- Energy Efficiency Level : F
- Beam Angle : 120 Degree(s)
- Chromaticity(SDCM) : < 6

## Electrical Characteristics

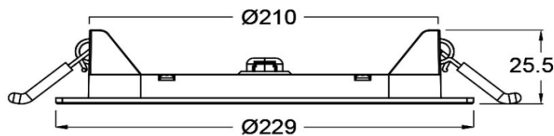
- Lifetime(L70B50) : 20000 h
- Input Voltage : 220-240V
- Frequency : 50-60 Hz
- Power Factor : > 0.5
- Starting Time : < 0.5 s
- Lumen Maintenance Factor : > 0.899
- Number of Switch Cycles : > 15000
- Material : Plastic
- Working Temperature : -20°C~+45°C
- Storage Temperature : -20°C~+60°C
- Environment humidity(working) : 10%~65%

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

## Lamp Dimensions & Weight

- Diameter(mm) : 229
- Length(mm) :
- Width(mm) :
- Height(mm) : 26
- Cutout(mm) : 210
- Weight(gr) : 285

## 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 20000 h at 25°C±1°C

- **Remarks:**

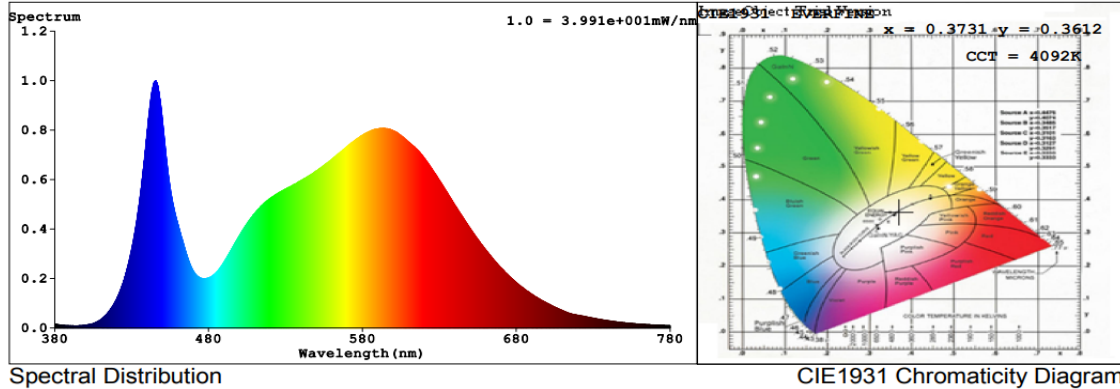
Declared values above may vary ±5



*Luminare is intendet to use in outdoor aplications*

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

## Optical and electrical test parameter:



### Colorimetric Parameters

Chromaticity Coordinate:  $x = 0.3731$   $y = 0.3612$  /  $u' = 0.2265$   $v' = 0.4934$  ( $duv = -5.26e-03$ )

CCT= 4092K Prcp WL: Ld=582.5nm Purity=20.4%

Peak WL: Lp=446nm FWHM: =22.2nm Ratio:R=18.3% G=78.3% B=3.4%

Render Index: Ra = 82.3

R1 =82 R2 =87 R3 =92 R4 =83 R5 =82 R6 =83 R7 =84

R8 =66 R9 =10 R10=70 R11=82 R12=68 R13=83 R14=95 R15=77

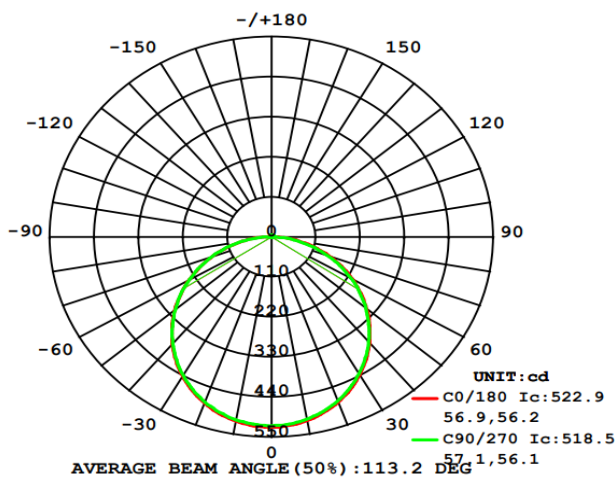
### Photometric & Radiometric Parameters

Flux = 1832.0 lm Eff. : 98.17 lm/W Fe = 5.7307 W

### Electrical parameters

V = 230.2 V I = 0.1376 A P = 18.66 W PF = 0.5894 F=49.99 Hz

## Darkroom Test report



Flux out: 1102 lm

| Height | Eavg, Emax     | Angle: 112.63deg | Diameter  |
|--------|----------------|------------------|-----------|
| 1m     | 148.0, 522.9lx |                  | 300.08cm  |
| 2m     | 37.00, 130.7lx |                  | 600.16cm  |
| 3m     | 16.44, 58.10lx |                  | 900.24cm  |
| 4m     | 9.250, 32.68lx |                  | 1200.32cm |
| 5m     | 5.920, 20.92lx |                  | 1500.40cm |
| 6m     | 4.111, 14.53lx |                  | 1800.48cm |
| 7m     | 3.020, 10.67lx |                  | 2100.56cm |
| 8m     | 2.312, 8.17lx  |                  | 2400.64cm |
| 9m     | 1.827, 6.45lx  |                  | 2700.72cm |
| 10m    | 1.480, 5.22lx  |                  | 3000.80cm |