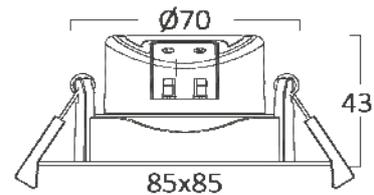


## Product Datasheet



Products Family : Led Lighting Fixture  
Products Name : LED Spotlight

### Datasheet is valid for following Model numbers

Product Code	CCT	Body Color
BD02-70780	3IN1	White
BD02-70781	3IN1	Black

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 Spotlight
- Mounting Type : Recessed Mounting
- Lamp Shape : Directional
- Dimmable : Dimmable
- Light Source : LED
- Warranty : 2 years
- Class : Class II
- IP : IP20

## Lamp Characteristics

- Wattage : 7 w
- Color Temperatue : 3IN1
- Luminous Flux(whole Product) : 630 lm
- Luminous Flux(LED System) : 630 lm
- Color Rendering Index(CRI) : > 80
- Energy Efficiency Level : F
- Beam Angle : 38 Degree(s)
- Chromaticity(SDCM) : < 6

## Electrical Characteristics

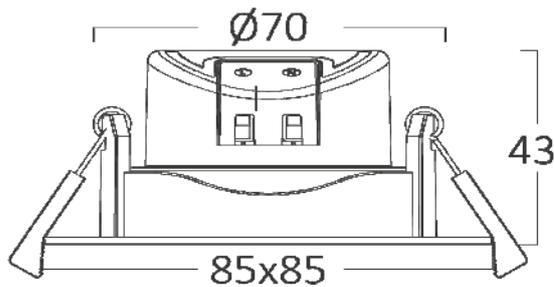
- Lifetime (L70B50) : 20000 h
- Input Voltage : 220-240V
- Frequency : 50-60 Hz
- Power Factor : >0.7
- Starting Time : < 0.5 s
- Lumen Maintenance Factor : > 0.899
- Number of Switch Cycles : > 15000
- Material : Plastic
- Working Temperature : -20°C~+45°C
- Storage Temperature : -20°C~+60°C
- Environment 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) : :
- Length(mm) : 85
- Width(mm) : 85
- Height(mm) : 43
- Cutout(mm) : 70
- Weight(gr) : 80

## 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



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

## Optical and electrical test parameter:

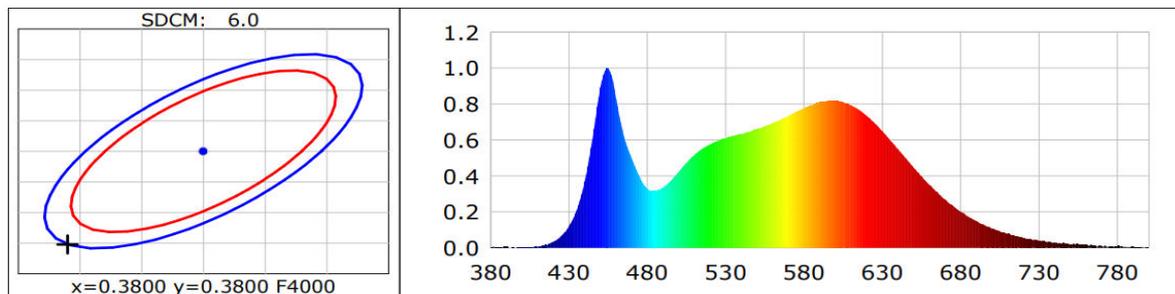
### CIE Colorimetric Parameters

Chromaticity coordinates:  $x=0.3690$   $y=0.3648$   $u(u')=0.2223$   $v=0.3296$   $v'=0.4945$   
 CCT:  $T_c=4246K$  ( $duv=-0.00221$ ) Color Ratio:  $R=0.184$   $G=0.772$   $B=0.044$   
 Peak Wavelength: 454.6nm Half Bandwidth: 26.9nm  
 Dominant Wavelength: 579.6nm Color Purity: 0.202  
 Central Wave: 456.4nm Gravity Wave: 455.9nm  
 CRI:  $R_a=87.3$  TM30:  $R_f=86$ ,  $R_g=96$   
 GAI:  $GAI\_BB\_8=95.9$ ,  $GAI\_BB\_15=102.2$ ,  $GAI\_EES=79.2$

R1 =87	R2 =94	R3 =96	R4 =86	R5 =87	R6 =90	R7 =87	R8 =71
R9 =28	R10=84	R11=86	R12=67	R13=89	R14=98	R15=82	

Color Quality Scale:  $Q_a=85.4$ ,  $Q_f=85.5$ ,  $Q_p=85.5$ ,  $Q_g=94.2$

Q1 =84	Q2 =98	Q3 =82	Q4 =78	Q5 =83	Q6 =86	Q7 =89	Q8 =91
Q9 =98	Q10=91	Q11=88	Q12=87	Q13=86	Q14=78	Q15=81	



### Photometric Parameters

Luminous Flux: 696.49 lm Efficiency: 109.34 lm/W Radiant Power: 2.189 W  
 Total mains efficacy: 109.34 lm/W Energy Efficiency Class: F (EU 2019/2015)  
 Auxiliary lamp correction factor: 1.00

### Electric Parameters

Voltage: 229.50V Current: 0.0530A Power: 6.37W  
 Power Factor: 0.5240 Frequency: 59.99Hz

## Darkroom Test report

### Luminous Intensity Distribution Curve

