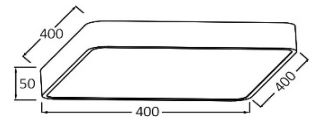


## Product Datasheet



Products Family : Led Lighting Fixture  
Products Name : Led Ceiling Light Blade

### Datasheet is valid for following Model numbers

Product Code	CCT	Body Color
BH16-05180	3IN1	White
BH16-05181	3IN1	Black
BH16-05187	3IN1	Wooden

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 Ceiling Light Blade
- Mounting Type : Surface Mounting
- Lamp Shape : Non-Directional
- Dimmable : Not-Dimmable
- Light Source : LED
- Warranty : 3 years
- Class : Class I
- IP : IP20

## Lamp Characteristics

- Wattage : 36 w
- Color Temperatue : 3IN1
- Luminous Flux(whole Product) : 3680 lm
- Luminous Flux(LED System) : 3680 lm
- Color Rendering Index(CRI) : > 80
- Energy Efficiency Level : F
- Beam Angle : 120 Degree(s)
- Chromaticity(SDCM) : < 6

## Electrical Characteristics

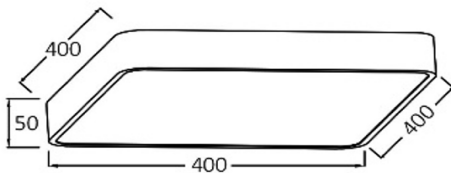
- Lifetime (L70B50) : 20000 h
- Input Voltage : 220-240V
- Frequency : 50-60 Hz
- Power Factor : > 0.9
- Starting Time : < 0.5 s
- Lumen Maintenance Factor : > 0.899
- Number of Switch Cycles : > 15000
- Material : Metal
- Working Temperature : -20°C~+45°C
- Storage Temperature : -20°C~+60°C
- Environment 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) : 400
- Width(mm) : 400
- Height(mm) : 50
- Cutout(mm) : :
- Weight(kg) : 1,4

## 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

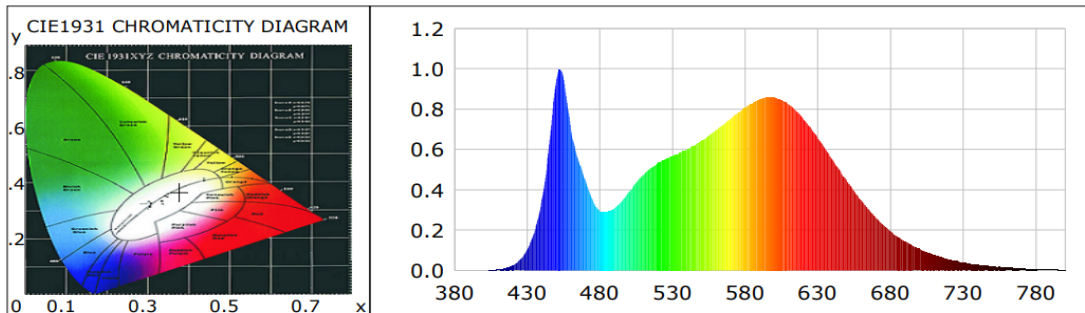


Test condition: light for 30 mins under nominal voltage input and 25°C±1° working environment

## Optical and electrical test parameter:

### CIE Colorimetric Parameters

Chromaticity coordinates:  $x=0.3790$   $y=0.3673$   $u(u')=0.2280$   $v=0.3314$   $v'=0.4971$   
 CCT:  $T_c=3968K$  ( $duv=-0.00409$ ) Color Ratio:  $R=0.190$   $G=0.769$   $B=0.040$   
 Peak Wavelength: 452.4nm Half Bandwidth: 24.4nm  
 Dominant Wavelength: 581.8nm Color Purity: 0.239  
 CRI:  $R_a=85.1$  TM30:  $R_f=82$ ,  $R_g=96$   
 $R1=85$   $R2=93$   $R3=96$   $R4=83$   $R5=85$   $R6=89$   $R7=84$   $R8=66$   
 $R9=17$   $R10=82$   $R11=82$   $R12=67$   $R13=87$   $R14=98$   $R15=80$   
 Color Quality Scale:  $Q_a=83.2$ ,  $Q_f=83.2$ ,  $Q_p=83.8$ ,  $Q_g=93.9$   
 $Q1=83$   $Q2=98$   $Q3=80$   $Q4=76$   $Q5=81$   $Q6=84$   $Q7=87$   $Q8=89$   
 $Q9=98$   $Q10=90$   $Q11=85$   $Q12=83$   $Q13=83$   $Q14=75$   $Q15=78$



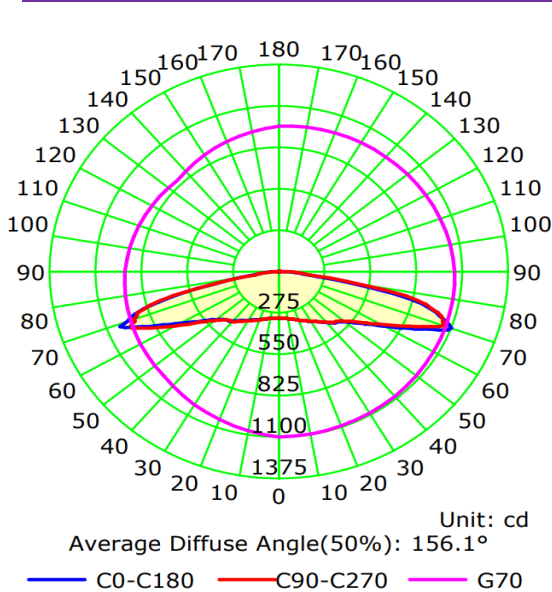
### Photometric Parameters

Luminous Flux: 3670.74 lm Efficiency: 104.26 lm/W Radiant Power: 9.676 W  
 EEI: 0.14 Energy Efficiency Class: A+ (EU 874-2012)

### Electric Parameters

Voltage: 228.10V Current: 0.1470A Power: 35.20W  
 Power Factor: 0.9650 Frequency: 50.00Hz

## Darkroom Test report



Height	Avg./Nadir, E	Beam Angle: 155.5°	Diameter / Area
1.0m	45.03/ 309.61lx		9.23m / 66.89sq.m
2.0m	11.26/ 77.40lx		18.46m / 267.58sq.m
3.0m	5.00/ 34.40lx		27.69m / 602.05sq.m
4.0m	2.81/ 19.35lx		36.92m / 1070.31sq.m
5.0m	1.80/ 12.38lx		46.14m / 1672.35sq.m
6.0m	1.25/ 8.60lx		55.37m / 2408.19sq.m
8.0m	0.70/ 4.84lx		73.83m / 4281.22sq.m
9.0m	0.56/ 3.82lx		83.06m / 5418.42sq.m
10.0m	0.45/ 3.10lx		92.29m / 6689.41sq.m
12.0m	0.31/ 2.15lx		10.75m / 9632.75sq.m

Flux Out: 3012.35lm