

## Product Datasheet



Products Family : Led Lighting Fixture  
Products Name : Led Pendant Light Lina

### Datasheet is valid for following Model numbers

Product Code	CCT	Body Color
BH16-09980	3IN1	White
BH16-09981	3IN1	Black
BH16-09986	3IN1	Golden

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

## Lamp Characteristics

- Wattage : 30 w
- Color Temperatue : 3IN1
- Luminous Flux(whole Product) : 2600 lm
- Luminous Flux(LED System) : 3000 lm
- Color Rendering Index(CRI) : > 80
- Energy Efficiency Level : F
- Beam Angle : 120 Degree(s)
- Chromaticity(SDCM) : < 6

## Electrical Characteristics

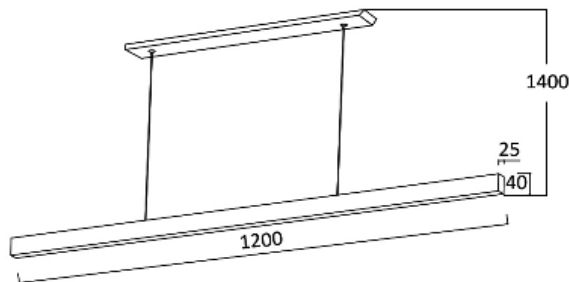
- Lifetime (L70B50) : 20000 h
- Input Voltage : 220-240V
- Frequency : 50-60 Hz
- Power Factor : > 0.9
- Starting Time : < 0.5 s
- Lumen Maintenance Factor : > 0.899
- Number of Switch Cycles : > 15000
- Material : Aluminium
- Working Temperature : -20°C~+45°C
- Storage Temperature : -20°C~+60°C
- Environment 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)	:	1200
• Width(mm)	:	25
• Height(mm)	:	1400
• Cutout(mm)	:	
• Weight(kg)	:	1,07

## 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:

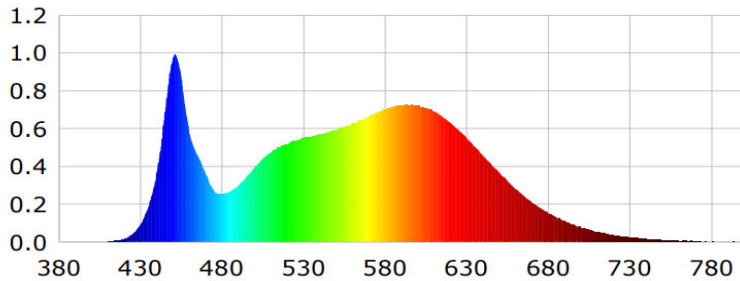
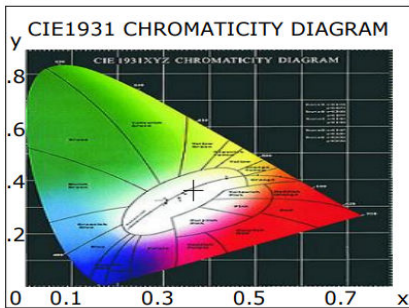
### CIE Colorimetric Parameters

Chromaticity coordinates:  $x=0.3671$   $y=0.3666$   $u(u')=0.2203$   $v=0.3300$   $v'=0.4950$   
 CCT:  $T_c=4318K$  ( $duv=-0.00069$ ) Color Ratio:  $R=0.178$   $G=0.780$   $B=0.042$   
 Peak Wavelength: 451.1nm Half Bandwidth: 20.5nm  
 Dominant Wavelength: 578.2nm Color Purity: 0.202  
 CRI:  $R_a=85.4$  TM30:  $R_f=85$ ,  $R_g=96$   
 GAI:  $GAI\_BB\_8=93.8$ ,  $GAI\_BB\_15=100.1$ ,  $GAI\_EES=78.4$

R1 =84	R2 =91	R3 =96	R4 =85	R5 =85	R6 =88	R7 =87	R8 =68
R9 =17	R10=79	R11=84	R12=64	R13=86	R14=98	R15=79	

Color Quality Scale:  $Q_a=84.3$ ,  $Q_f=84.4$ ,  $Q_p=84.3$ ,  $Q_g=93.4$

Q1 =83	Q2 =98	Q3 =81	Q4 =78	Q5 =83	Q6 =86	Q7 =88	Q8 =90
Q9 =98	Q10=90	Q11=87	Q12=85	Q13=85	Q14=75	Q15=78	



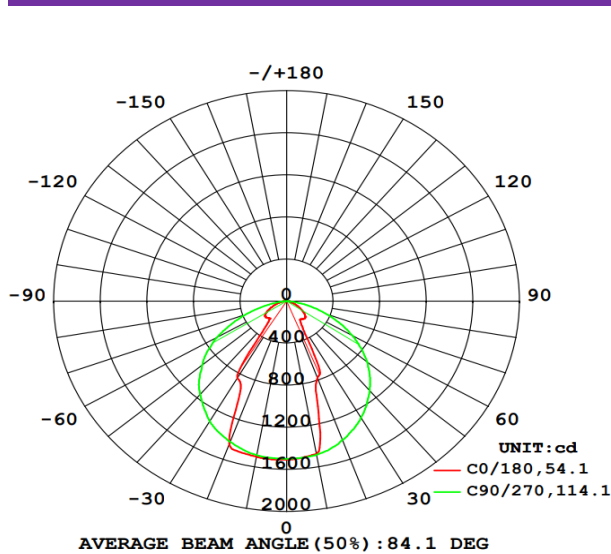
### Photometric Parameters

Luminous Flux: 2997.1 lm Efficiency: 105.05 lm/W Radiant Power: 6.122 W  
 EEI: 0.19 Energy Efficiency Class: A (EU 874-2012)

### Electric Parameters

Voltage: 220.70V Current: 0.1350A Power: 28.53W  
 Power Factor: 0.9540 Frequency: 49.99Hz

## Darkroom Test report



Flux out: 894.7 lm

Height	Beam Diameter	Beam Angle	Diameter
1m	1051, 1509lx		102.08cm
2m	262.7, 377.2lx		204.15cm
3m	116.8, 167.7lx		306.23cm
4m	65.68, 94.3lx		408.30cm
5m	42.04, 60.3lx		510.38cm
6m	29.19, 41.9lx		612.45cm
7m	21.45, 30.8lx		714.53cm
8m	16.42, 23.5lx		816.61cm
9m	12.97, 18.6lx		918.68cm
10m	10.51, 15.0lx		1020.76cm

Angle: 54.08deg